National Environment Policy Act (NEPA)

Final Environmental Assessment

Determination and Compliance Findings for HUD-Assisted Projects
24 CFR Part 58

Mayor Wright Homes (MWH) Redevelopment

Responsible Entity:

Governor, State of Hawai'i

Prepared by:

PBR HAWAII
& ASSOCIATES, INC.

May 2020

U.S. Department of Housing and Urban Development
451 Seventh Street, SW
Washington, DC 20410
www.hud.gov
espanol.hud.gov

Environmental Assessment Determinations and Compliance Findings for HUD-assisted Projects 24 CFR Part 58

Project Information

Project Name: Mayor-Wright-Homes-Redevelopment

HEROS Number: 900000010096124

Responsible Entity (RE): HAWAII, STATE OF HAWAII HONOLULU HI, 96813

RE Preparer: PBR HAWAII & Associates

State / Local Identifier: HI001

Certifying Officer: The Honorable David Y. Ige

Grant Recipient (if different than Responsible Entity): Hawaii Public Housing Authority

PHA Code: HI001

Point of Contact: Hakim Ouansafi, Executive Director

Consultant (if applicable): PBR HAWAII & Associates, Inc.

Point of Contact: Kimi Yuen, Principal

Project Location: 606 N Kukui St, Honolulu, HI 96817

Additional Location Information:
The Mayor Wright Homes (MWH) Redevelopment project is located on the site of the existing MWH (Figure 1) on the island of Oahu in the State of Hawaii. It is most closely associated with two ahupuaa, Kalihi and Kapalama. The site consists of one parcel

identified as TMK: (1)1-7-029:003 (Figure 2). The 14.8-acre site is owned by the Hawaii Public Housing Authority of the State of Hawaii. North Kukui Street runs through the parcel from east to west but is not a separate parcel. The property is bounded by four existing roadways: North King Street, Pua Lane, North Vineyard Boulevard, and Liliha Street. Within the vicinity of the property is a mix of residential and commercial uses, churches, community services, and schools including Princess Victoria Kaiulani Elementary School and Honolulu Community College across North King Street. The commercial properties border the site along much of North King Street and at the corner of North Vineyard Boulevard and Liliha Street.

AMP or AMPs, if any, covered in this review:

AMP 1	AMP 2	AMP 3	AMP 4	AMP 5
HI001000032				

Does this review cover a full or partial AMP?

✓ Full AMP.

Partial AMP.

N/A

Direct Comments to: PBR Hawaii & Associates, Inc
1001 Bishop Street Suite 650
Honolulu, HI 96813

mwh@pbrhawaii.com

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

The Hawaii Public Housing Authority and its development partner, MWH Partners, LLC, propose to redevelop the site with 2,448 residential rental units and up to 80,000 square feet of commercial space. This includes a one-for-one replacement of the existing 364 public housing units based on the number of bedrooms in each unit, as well as up to an additional 2,084 affordable and market rental housing units that can be offered to potential residents in a range of income levels. Two-thirds of the total units are to be designated as long-term affordable housing targeted to those earning up to 120 percent of the Area Median Income (AMI). The commercial space will include a mix of retail, office space, and community services to support the new residential uses and complement the surrounding neighborhood. A series of open spaces are envisioned throughout the redesigned site including a new community center and park at the heart of the project. All existing buildings will be removed and will require approval of a Demolition and Disposition of Public Housing application in accordance with 24 CFR part 970, as amended, from the HUD Special Applications Center.

Construction is estimated to be completed in five phases. Each phase is estimated to take roughly two years for a total construction period of at least ten years. All phases will be developed in compliance with applicable regulations associated with HUD's federal funding assistance to the Mayor Wright Homes Redevelopment project, including, but not limited to: The U.S. Housing Act of 1937, Section 8 Project-Based Vouchers; The U.S. Housing Act of 1937, Section 9 ACC payments (Operating Fund) and Public Housing Capital Fund (including Capital Fund Financing Program); Sec. 18 of the U.S. Housing Act of 1937, as amended, including limited relocation assistance Demolition/Disposition assistance; Rental Assistance Demonstration ("RAD") Section 8 Project Based Vouchers (authorized in the Consolidated and Further Continuing Appropriations Act of 2012); Low-Income Housing Tax Credits of the U.S. Tax Reform Act of 1986; Multifamily FHA, Section 221(D)(3), 221(D)(4); and Community Planning and Development Programs such as Community Development Block Grants and HOME. Figure 3 shows the conceptual master plan for the project. Under 24 CFR 58.37(b), "An EIS [environmental impact statement] is required under any of the following circumstances, except as provided in paragraph (c) of this section: "(3) The project would provide enough additional water and sewer capacity to support 2,500 or more additional housing units. The project does not have to be specifically intended for residential use nor does it have to be totally new construction. If the project is designed to provide upgraded service to existing development as well as to serve new development, only that portion of the increased capacity which is intended to serve new development should be counted." Because the new water and sewer systems proposed for the project would have the capacity to serve an additional 2,500 or more housing units, the project meets this EIS threshold. However, under 24 CFR 58.37(c), "If, on the basis of an EA, a responsible entity determines that the thresholds in paragraph (b) of this section are the sole reason for the EIS, the responsible entity may prepare a [Finding of No Significant Impact] FONSI pursuant to 40 CFR 1501.4. In such cases, the FONSI must be made available for public review for at least 30 days before the responsible entity makes the final determination whether to prepare an EIS." The sole reason the proposed project meets the threshold for an EIS is the capacity of the new and upgraded water and sewer systems under 24 CFR 58.37(b) and therefore, this EA has been prepared in support of a FONSI, which will be made available for public review for at least 30 days before the Responsible Entity (RE) makes the final determination whether or not to prepare an EIS.

Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:
Please see Attachment 1.

Existing Conditions and Trends [24 CFR 58.40(a)]:
Please see Attachment 2.

Maps, photographs, and other documentation of project location and description:
Attachment 1 Purpose and Need Statement.pdf
Attachment 2 Existing Conditions and Trends.pdf
Figure 3 - Conceptual MP(1).pdf
Figure 4 - Aerial Photograph.pdf
Figure 2 - TMK.pdf
Figure 1 - Regional Location.pdf
Attachment 7 Field Inspections.pdf
Figure 6 - Existing Site Photographs.pdf

Determination:

✓	Finding of No Significant Impact [24 CFR 58.40(g)(1); 40 CFR 1508.13] The project will not result in a significant impact on the quality of human environment
	Finding of Significant Impact

Approval Documents:
MWH Gov letter signed 200131.pdf

7015.15 certified by Certifying Officer on:

7015.16 certified by Authorizing Officer on:

Funding Information

Grant / Project Identification Number	HUD Program	Program Name
N/A	Community Planning and Development (CPD)	Community Development Block Grants (CDBG) (Entitlement)
N/A	Community Planning and Development (CPD)	HOME Program
N/A	Housing: Multifamily FHA	Section 221(d)(3). Mortgage Insurance for new construction or substantial rehabilitation of Multifamily Rental Housing - public, nonprofit, and cooperative mortgagors
N/A	Other	Sec. 18 of the U.S. Housing Act of 1937, as amended, including limited relocation assistance Demolition/Disposition assistance; Low-Income Housing Tax Credits of the U.S. Tax Reform Act of 1986
N/A	Public Housing	Project-Based Voucher Program
N/A	Public Housing	Public Housing Capital Fund (including CFFP and other grants)
N/A	Public Housing	Public Housing Operating Fund
N/A	Rental Assistance Demonstration (RAD)	

Estimated Total HUD Funded, Assisted or Insured Amount: $7,400,000.00

This project anticipates the use of funds or assistance from another federal agency in addition to HUD in the form of:

Estimated Total Project Cost [24 CFR 58.2 (a) (5)]: $1,300,000,000.00

Compliance with 24 CFR §50.4, §58.5 and §58.6 Laws and Authorities

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §50.4, §58.5, and §58.6	Are formal compliance steps or mitigation required?	Compliance determination (See Appendix A for source determinations)
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR §50.4 & § 58.6		
Airport Hazards Clear Zones and Accident Potential Zones; 24 CFR Part 51 Subpart D	☐ Yes ☑ No	No impact. The site location is not within 2,500 feet of a civil air operation. The closest airport is the Daniel K. Inouye International Airport (HNL) approximately 2.7 miles away and separated from HNL airport by Honolulu Harbor and Keehi Lagoon. HNL is part of the State of Hawaii Airport System and is owned and operated by the State of Hawaii Department of Transportation (DOT). Future development activities related to this project that require further review and permits will follow the relevant guidance in the DOT-Airports Technical Assistance Memorandum for Daniel K. Inouye International Airport. The runways at HNL are also utilized for military operations. Properties located within 2,500 feet of a civil airport or 15,000 feet from the end of a runway at a military airfield should be identified. Those within 8,000 feet of a military airfield require a written finding made by the airport or airfield operator stating whether or not the property proposed for assistance is located within a runway Clear Zone (CZ) (civil airport) or Clear Zone or Accident

		Potential Zone (military airfield). The project site is not within 2,500 feet of a civil airport. The end of the nearest runway, 26L, is located +/-14,300 feet from the project site and is therefore identified as being in excess of 8,000 feet, but within 15,000 feet of the end of a military airfield. A written finding is therefore not required. However, because the nearest runway (26L) at Daniel K. Inouye International Airport is approximately 14,300 feet from the project site, which is within 20,000 feet, an FAA FORM 7460-1 will be required for future construction equipment and staging area heights, including temporary construction crane heights in the submittal.Figure 5 shows the distance of the project to HNL. Figure 22 shows the airport airspace in relation to the site. The site is not within the Accident Potential Zone.
Coastal Barrier Resources Act Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	☐ Yes ☑ No	No impact. The project is not located within a designated coastal barrier resource area. There are no coastal barrier resources within the State of Hawaii, as shown on the U.S. Fish and Wildlife Services Coastal Barrier Resources System Mapper (see Exhibit 1). Therefore, the proposed improvements will have no impact on these resources nor will mitigation measures be necessary.
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	☐ Yes ☑ No	No impact. The project site is located in Zone X, which is defined as an area outside of the 500-year floodplain. This is documented by FEMA Flood Insurance Rate Map Panel 354, Map Number 15003C0354G, dated January 19, 2011 (see Exhibit 2). Zone X is determined by the National Flood Insurance Program as an area of minimal flood hazard. A FEMA revalidation letter, dated November 4, 2014, includes revisions to the FIRM panel 15003C0354G. However, none of

		the revisions are located at or near the project site. The FEM Flood Map Service Center website (https://msc.fema.gove/portal/home) was also checked again on April 8, 2020 for the latest FIRM panel and found the same FIRM panel.
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR §50.4 & § 58.5		
Air Quality Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	☐ Yes ☑ No	No impact. The ambient air quality of the Site meets all Federal and State standards. According to the Environmental Protection Agency, the entire state of Hawaii is a designated attainment area. The information was accessed online at the following website: https://www.epa.gov/green-book in December 2019 and is included in Exhibit 3. The proposed project is located between the monitoring stations identified as "Honolulu" to the east and "Sand Island" to the south-west. The locations of these stations are identified in Section 3 of the December 2016 State of Hawaii Annual Summary 2016 Air Quality Data (2016AQD) report. Section 4 of 2016AQD report identifies stations that exceeded National Ambient Air Quality Standards during 2016. There were no exceedances of National Ambient Air Quality Standards at either the Honolulu or Sand Island Stations during 2016. No exceedances of any of the National Ambient Air Quality Standards have been recorded at any Oahu monitoring stations in the last 5 years. A list of all exceedances recorded in the State of Hawaii between January 2014 and December 2019 are available at the following website: http://health.hawaii.gov/cab/notification-of-exceedance-of-a-national-ambient-air-quality-standard/ and are included in Exhibit 3. Section 6 of the HI2016AQD report compares all of the State's monitoring stations including Sand

		Island and Honolulu to State and Federal Standards. The 5-year trend for both stations indicates that values for criteria pollutant from air samples collected from each station are below State and Federal ambient air quality levels. Section 6 of the 2016 report is included in Exhibit 3.
Coastal Zone Management Act Coastal Zone Management Act, sections 307(c) & (d)	☐ Yes ☑ No	No impact. All lands in the State of Hawaii are within the Coastal Zone Management Area. In a letter dated June 24, 2004 the Department of Business, Economic Development and Tourism's Office of Planning indicated that the Hawaii Coastal Zone Management program does not review any HUD assistance programs, grants, or loans for federal consistency, but that Coastal Zone Management regulations relating to actions within the Special Management Areas and Shoreline Setback still apply. This information was re-confirmed by John Nakagawa of the Hawaii State Office of Planning, Coastal Zone Management Program via phone on February 5, 2019 (see Exhibit 4). The proposed project is not within the Special Management Area; therefore, no further consultation is required (see Figure 29).
Contamination and Toxic Substances 24 CFR 50.3(i) & 58.5(i)(2)]	☑ Yes ☐ No	Please see Attachment 3 (in Appendix A).
Endangered Species Act Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	☑ Yes ☐ No	A biological survey was conducted in May of 2016 that closely examined all existing vegetation present at the site as well as any other vegetation that may likely occur based on the location of the property. A fauna survey of the site was also conducted concurrently. These studies are included in Exhibit 7. No federally designated critical habitats are within the immediate vicinity of the proposed project. However, the U.S. Fish & Wildlife Service data indicates

		that the following federally-listed species may occur or transit through the vicinity of the proposed project area: endangered Hawaiian hoary bat (Lasiurus cinereus semotus); endangered Hawaiian petrel (Pterodroma sandwichensis), threatened Newell's shearwater (Puffinus auricularis newelli), and endangered Hawaii Distinct Population Segment (DPS) of the band-rumped storm-petrel (Oceanodroma castro). As such, mitigation measures are included to minimize any potential impacts to endangered or threatened species traversing the project site.
Explosive and Flammable Hazards Above-Ground Tanks)[24 CFR Part 51 Subpart C	☐ Yes ☑ No	No Impact. The Phase I Environmental Site Assessment (ESA) (Exhibit 5) included site reconnaissance to evaluate the current use of the project site, as well as adjacent and near-by properties. An Environmental Data Radius Map Report was contracted as part of the Phase I ESA and no above ground storage tanks were noted within a one-mile radius of the project site (see Exhibit 5). The project site is not anticipated to be affected by hazardous operations that could result in flammable or explosive conditions.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	☐ Yes ☑ No	No impact. The project site is not classified by the Land Study Bureau (LSB) productivity ratings (Figure 8) or as Agricultural Lands of Importance to the State of Hawaii (ALISH) (Figure 10) since the area has been urbanized since the early 1900s, prior to the LSB and ALISH mapping in the 1970s.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	☐ Yes ☑ No	No impact. The Flood Insurance Rate Map (FIRM) panel number 15003C0354G indicates that the proposed project site is located within Zone X, an area outside of the 500-year floodplain (see Exhibit 2). Flooding may still be possible in extreme events but

		poses a minimal flood hazard. Formal compliance and mitigation are not required.
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	☑ Yes ☐ No	Please see Attachment 4 (in Appendix A)
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	☑ Yes ☐ No	Please see Attachment 5 (in Appendix A).
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	☐ Yes ☑ No	No impact. The project site is located within the boundaries of the Southern Oahu Basal Aquifer as identified on Figure 7. In a Memorandum of Understanding (MOU) between the EPA and HUD dated May 17, 1990, section II.B identified HUD activities that would not affect water quality. Such activities need not be referred to the EPA for evaluation. Actions associated with the project are exempt from further evaluation based on II.B.1-for Projects served by existing publicly owned/operated sewerage systems and treatment plants that are not subject to locally or EPA imposed moratoriums or otherwise covered by the MOU. A memorandum detailing the implementation of the MOU dated May 1991 is included as Exhibit 16.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	☐ Yes ☑ No	No impact. According to the National Wetlands Inventory, there are no wetlands on or near the Site (U.S. Fish and Wildlife Service, accessed December 2019) (see Exhibit 17) and no mitigation measures are proposed.
Wild and Scenic Rivers Act Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	☐ Yes ☑ No	No impact. Currently there are no designated wild and scenic rivers in the State of Hawaii (U.S. Fish and Wildlife Service, accessed December 2019) (see Exhibit 18) and no mitigation measures are proposed.
HUD HOUSING ENVIRONMENTAL STANDARDS		

ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	☐ Yes ☑ No	No impact. The MWH Redevelopment project is located in a predominantly minority and low-income neighborhood. However, the site and the surrounding neighborhood do not suffer from disproportionately adverse environmental effects on minority and low-income populations relative to the community at large. The updated 2018 EJSCREEN Report for the MWH census tract and one-mile ring surrounding it is included as Exhibit 19 and notes that MWH rates relatively high in State, EPA region, and national percentiles on nine of the eleven environmental indexes, which further supports the redevelopment of the site into a more sustainable project. The report also notes that there are currently no Superfund sites located within the EJSCREEN search area. However, there are four hazardous waste treatment, storage, or disposal facilities within the EJSCREEN search area. As such, the notion of environmental justice has been evaluated and there will be no activity performed with HUD or other Federal funds that will in any way create discrimination or isolation of minority or low-income individuals based on the siting or purpose of the MWH Redevelopment. The proposed development is not anticipated to create, expose, or disproportionately affect minority or low-income persons in comparison to the rest of the population. Therefore, it is in compliance with E.O. 12898 and no mitigation measures are proposed.

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27]

Impact Codes: An impact code from the following list has been used to make the determination of impact for each factor.
(1) Minor beneficial impact
(2) No impact anticipated
(3) Minor Adverse Impact – May require mitigation
(4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement.

Environmental Assessment Factor	Impact Code	Impact Evaluation	Mitigation
LAND DEVELOPMENT			
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	3	Please see Attachment 6 - EA Factors Analysis	The proposed MWH Redevelopment is not consistent with the current A-2 zoning's FAR and building height requirements. However, the project is consistent with the City and County of Honolulu's (City) adopted Downtown Neighborhood TOD Plan (TOD Plan), which permits a maximum building height of 400 feet and FAR up to 7.5 on the current site. A 201H Housing Program exemption for the existing zoning will be sought from the City to allow the project to be developed under the City's adopted TOD Plan recommendations for FAR and building height limits. The project team anticipates submitting the 201H application to the City Spring 2020. Visual impacts from the project must take into consideration the highly urban nature of this viewshed with buildings in Downtown Honolulu extending up to about 430 feet in height. While views to specific landmarks from various viewpoints within the Primary Urban Center may be altered by the proposed project, the overall urban character of this viewshed will not be significantly altered. The plan attempts to mitigate visual impacts by: - Providing fewer towers with low- and mid-rise buildings comprising most of the street-facing building massing and space between the towers to preserve distant views where

Environmental Assessment Factor	Impact Code	Impact Evaluation	Mitigation
LAND DEVELOPMENT			
			possible; - Activating the street level views with landscaping and pedestrian-friendly streetscapes, commercial uses and lower- and mid-rise residential buildings wherever possible; - Creating a more interesting skyline by varying building heights; - Setting the towers 50 feet back from Pua Lane and Liliha Streets to minimize their visual impacts from the street level of adjacent neighborhoods; and - Orienting the towers with their narrower sides facing the mauka and makai sides of the site and their wider side facing east and west to preserve mauka to makai views.
Soil Suitability / Slope/ Erosion / Drainage and Storm Water Runoff	2	Please see Attachment 6 - EA Factors Analysis	
Hazards and Nuisances including Site Safety and Site-Generated Noise	3	Please see Attachment 6 - EA Factors Analysis	Please see Attachment 10 - Mitigation Measures and Conditions
Energy Consumption/Energy Efficiency	2	Please see Attachment 6 - EA Factors Analysis	
SOCIOECONOMIC			
Employment and Income Patterns	1	Please see Attachment 6 - EA Factors Analysis	
Demographic Character Changes / Displacement	1	Please see Attachment 6 - EA Factors Analysis	
COMMUNITY FACILITIES AND SERVICES			
Educational and Cultural Facilities (Access and Capacity)	3	Please see Attachment 6 - EA Factors Analysis	On-going discussions with the State Department of Education are being held to determine how the proposed project will support public education. As the project moves into design and

Environmental Assessment Factor	Impact Code	Impact Evaluation	Mitigation
LAND DEVELOPMENT			
			construction, MWH Partners will continue discussions with the Hawaii Department of Education regarding impacts on student relocation and transition during the carious phases of this project. MWH Partners will coordinate with the Hawaii Department of Education to execute an educational contribution agreement to satisfy the State's school impact fee requirements.
Commercial Facilities (Access and Proximity)	1	Please see Attachment 6 - EA Factors Analysis	
Health Care / Social Services (Access and Capacity)	1	Please see Attachment 6 - EA Factors Analysis	
Solid Waste Disposal and Recycling (Feasibility and Capacity)	3	Please see Attachment 6 - EA Factors Analysis	The proposed project will support recycling as much as possible for both households and commercial uses as well as green wastes generated onsite. Detailed design will include but not be limited to onsite facilities to support separating wastes into recyclable and non-recyclable materials and for central collection facilities within the buildings. MWH Partners, LLC will also work with the City and contracted collection services to ensure as much recyclable materials are diverted from the waste stream from the project as they will be managing ongoing operations of the site once construction is complete. All remaining non-hazardous waste generated by the project must be disposed of at a solid waste management facility that complies with applicable State regulations of HAR, Chapter 11-58.1. No open burning of wastes either onsite or offsite will be permitted.

Environmental Assessment Factor	Impact Code	Impact Evaluation	Mitigation
LAND DEVELOPMENT			
Waste Water and Sanitary Sewers (Feasibility and Capacity)	2	Please see Attachment 6 - EA Factors Analysis	
Water Supply (Feasibility and Capacity)	2	Please see Attachment 6 - EA Factors Analysis	
Public Safety - Police, Fire and Emergency Medical	3	Please see Attachment 6 - EA Factors Analysis	Project designers will continue to work closely with City Police, the Honolulu Fire Department, and other public service providers during the detailed design of the facilities to ensure the new structures at MWH will be easily accessible by emergency services to support favorable response times.
Parks, Open Space and Recreation (Access and Capacity)	2	Please see Attachment 6 - EA Factors Analysis	
Transportation and Accessibility (Access and Capacity)	3	Please see Attachment 6 - EA Factors Analysis	Please see Attachment 10 - Mitigation Measures and Conditions
NATURAL FEATURES			
Unique Natural Features /Water Resources	2	Please see Attachment 6 - EA Factors Analysis	
Vegetation / Wildlife (Introduction, Modification, Removal, Disruption, etc.)	3	Please see Attachment 6 - EA Factors Analysis	Please see Attachment 10 - Mitigation Measures and Conditions
Other Factors			

Supporting documentation

Attachment 6 Environmental Assessment Factors.pdf
Exhibit 33 2017-10-25 DPP Comment Letter.pdf
Exhibit 29 HDOT Vineyard Access Confirmation.pdf
Figure 31 PUC Significant Panoramic Views.pdf
Exhibit 25 MWH Preliminary Engineering Report.pdf
Exhibit 24 Human Capital Report for Mayor Wright Homes-r.pdf

Exhibit 23 Socio-Economic Impact Assessment.pdf
Exhibit 21 Mayor Wright Homes Final MTA(1).pdf
Exhibit 20 Mayor Wright Project Air Quality Study(1).pdf
Exhibit 15 MWH Noise Study(1).pdf
Exhibit 7 Flora Fauna Mayor Wright Homes redevelopment(1).pdf
Exhibit 22 - HECO Will Serve Mayor Wright.pdf
Figure 18 - Preliminary Findings of Reconnaissance Level Survey of Historic Properties.pdf
Figure 12 - Surface Water.pdf
Figure 11 - Groundwater.pdf
Figure 17 - Critical Habitat.pdf
Figure 19 - Traffic Study Intersections.pdf
Figure 3 - Conceptual MP.pdf
Figure 20 - Public Services and Facilities.pdf
Figure 16 - Hurricane Inundation with SLR.pdf
Figure 15 - Hurricane Inundation.pdf
Figure 14 - SLR.pdf
Figure 13 - Tsunami.pdf
Exhibit 8 Soil Map.pdf
Figure 9 - Soil.pdf
Figure 28 - Maximum Building Heights.pdf
Figure 27 - Maximum Building Intensity (FAR).pdf
Figure 26 - Land Use Plan - Downtown Neighborhood TOD Plan.pdf
Figure 25 - Existing Zoning and Building Heights.pdf
Figure 24 - Land Use PUC DP.pdf
Figure 23 - General Plan Development Pattern.pdf
Figure 21 - SLUD.pdf

Additional Studies Performed:
Technical studies prepared for the proposed project and referenced in this document are attached as Exhibits throughout this NEPA EA. An environmental impact statement (EIS) was also prepared under the State of Hawaii Environmental Impact Statement Law (Hawaii Revised Statutes, Chapter 343) and the State of Hawaii Environmental Impact Statement Rules (Hawaii Administrative Rules, Title 11, Chapter 200). The Final EIS has been submitted to the Governor of the State of Hawaii for his review and consideration as the "accepting authority." The Final EIS will be made available to the public on March 8, 2018 at the State of Hawaii Office of Environmental Quality Control's (OEQC) website at the following link: http://oeqc2.doh.hawaii.gov/EA_EIS_Library/2018-03-08-OA-FEIS-Mayor-Wright-Homes.pdf. His decision will also be published by the OEQC once made.

Attachment 8 Cumulative Impact Analysis.pdf
Attachment 9 Alternatives.pdf

Field Inspection [Optional]: Date and completed

by:

Attachment 7 Field Inspections.pdf
Figure 6 - Existing Site Photographs.pdf

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]:
Various individuals, agencies, organizations were consulted or contacted in preparation of this environmental record. The NEPA distribution list attached in Exhibit 26 includes all those who received an invitation to a NEPA scoping meeting held on November 29, 2017. This included a mix of Federal, State, and City and County of Honolulu agencies as well as legislators and elected officials, area schools, Native Hawaiian organizations, community leaders and stakeholders, and area businesses, residents, and landowners within a roughly one- to one and a half block radius of the project site as shown in Figure 30. Pre-consultation to satisfy compliance with the National Historic Preservation Act (NHPA) Section 106 and State Historic Preservation Division requirements (HRS 6E-8) for the proposed project was initiated early in the process of evaluating alternatives. The development and planning team had the opportunity to meet with State Historic Preservation Department staff along with staff from Historic Hawaii Foundation on January 25, 2017 to discuss the nature of the existing structures and the considered alternatives for rehabilitation or replacement. From the end of May to early June, 2016, the archaeologists for the project, TCP Hawaii, sent formal consultation letters regarding the (then) proposed Archaeological Inventory Survey and Cultural Impact Assessment to the following agencies and individuals: * State Historic Preservation Department/Department of Land and Natural Resources (Administrator Downer, Archaeology Branch Chief Susan Lebo, Oahu Burial Site Program staff Regina Hilo, and Kaahiki Solis); * State of Hawaii Office of Hawaiian Affairs (OHA) (Ka Pouhana/CEO Crabbe and staff in Compliance, Kai Markell and Lauren Morawski); * Kalihi-Palama Neighborhood Board (Chair Ryan Mandado); * Kalihi-Palama Hawaiian Civic Club (Pelekikena/President Leimomi Khan); * Cynthia Yoshida (Public Housing Supervisor, MWH); * Historic Hawaii Foundation (Kiersten Faulkner); * Kaanohi Paulette Kaleikini (Native Hawaiian, cultural descendant, Honolulu area); * Michael Lee (Native Hawaiian, cultural descendant, Honolulu area). The Section 106 consultation also included mailing letters of invitation for consultation to all those listed on the U.S. Department of the Interior's Native Hawaiian Organization Notification List and six other local community organizations. The letter and related materials including the distribution list are attached as Exhibit 12. Three parties responded to the invitation and, of these, only the Historic Hawaii Foundation, a Hawaii nonprofit corporation, expressed a desire to participate in consultation as a consulting party. In addition, much of the information used to prepare this document was compiled from the Final EIS completed for the Chapter 343, HRS process (State EIS). The distribution list for the State EIS was used as the basis for the November 2018 NEPA scoping meeting distribution with an expanded

list of Federal agencies and the addition of area businesses, residents, and landowners within a roughly one- to one and a half block radius of the project site as shown in Figure 30. The distribution list has since been updated for this NEPA EA and is included as Exhibit 27. A description of the State EIS consultation process is included in Exhibit 28 (taken from Section 8 of the State Final EIS). Comments received on or during the State EIS Preparation Notice, State EIS scoping meeting, and State Draft EIS public comment periods are included in Appendices N, O, and P of the State Final EIS, which can be accessed at the following website: http://oeqc2.doh.hawaii.gov/EA_EIS_Library/2018-03-08-OA-FEIS-Mayor-Wright-Homes.pdf

Exhibit 26 NEPA Scoping Meeting Distribution October 2017.pdf
Exhibit 28 - Chapter 343 HRS Consultation.pdf
Exhibit 27 NEPA Distribution.pdf
Exhibit 12 Section 106 Consultation(1).pdf
Figure 30 - Proposed Area of Potential Impact(1).pdf

List of Permits Obtained:
No permits that involve the use of federal funds for the proposed project have been obtained to date.

Public Outreach [24 CFR 58.43]:
Public outreach was initiated early during the project scoping and master plan process in April 2016. Hawaii Public Housing Authority and the planning and development team consulted with current residents, the general public, and community stakeholders about the potential scope and impacts of the proposed project. A series of community and resident meetings were held to help develop the master plan for the project culminating in a weeklong design charrette in August 2016 that was held on-site at Mayor Wright Homes and open to the public. Meetings were conducted with the following community groups and individuals beginning in early 2016: * Neighborhood Boards (4 meetings that took place between April and October 2016 and 2 more on November 15, 2017 and September 17, 2018) * State Legislators (meetings with 4 legislators throughout April 2016) * Councilmembers (meetings with 2 councilmembers that took place in April and August 2016, additional meetings with 8 councilmembers in April and June 2017, and additional meetings with 3 council members in March and April 2019) * Mayor Wright Homes Resident Meetings (2 meetings took place May and July 2016) * Public Community Meetings (4 meetings that took place in May, June, and July 2016 as well as June 2017) * Stakeholder Meetings and Interviews (11 meetings with different community representatives and organizations that took place from July through August 2016) * Community Advisory Committee (3 meetings that took place in July and August 2016 as well as 2 follow up meetings in June 2017 and September 2018) * Two additional public scoping meetings related to the state and federal environmental

review processes (August 1, 2017 and November 29, 2017, respectively) In addition, a State EIS has been completed for the proposed project, which also involves public outreach and invites public comment. The EIS Preparation Notice (EISPN) for the proposed project was prepared and published in the State Office of Environmental Quality Control (OEQC)'s The Environmental Notice on September 23, 2016, as required by State laws for environmental review, pre-consultation, and scoping (Chapter 343, Hawaii Revised Statute). Subsequently, the State Draft EIS was prepared and published in the September 8, 2017 edition of OEQC's The Environmental Notice and the public comment period for the DEIS closed on October 23, 2017. A summary of the public outreach process for the State EIS is attached as Exhibit 28. A full copy of the State Chapter 343, HRS Final EIS can be accessed at the following website: http://oeqc2.doh.hawaii.gov/EA_EIS_Library/2018-03-08-OA-FEIS-Mayor-Wright-Homes.pdf

Exhibit 28 - Chapter 343 HRS Consultation(1).pdf

Cumulative Impact Analysis [24 CFR 58.32]:
Based on the studies performed and research evaluated, it is anticipated that the proposed project will have an overall net cumulative beneficial impact, particularly with regard to socio-economic impacts, public health, and efficient land development, which is consistent with the City and County of Honolulu's vision for this new TOD neighborhood. The proposed project helps address the critical affordable housing shortage with the provision of much needed affordable rental housing close to Downtown Honolulu and other employment centers and will be easily accessible from the future rail transit. Please see Attachment 8 for the full discussion.

Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]
2,000-Unit and 3,000-Unit Scenarios: While fewer towers and lower perimeter buildings would be needed, the 2,000-unit scenario was rejected as area legislators recommended that the project provide as many residential units as possible. The 3,000-unit scenario was rejected over concerns for the massing and scale of the buildings and its visual impacts. In order to accommodate the 3,000 units and the required parking relative to that density, the towers would all need to be built to the maximum height limit of 400' with all of the podium buildings fronting the streets being taller. In addition, one of the internal street connections is lost, reducing connectivity and costly underground parking would be needed. The additional excavation will also increase the potential of disturbing subsurface archaeological and historic remains, impacting neighboring properties, and complicating construction including increased noise, vibration, and dust impacts. Downtown Neighborhood Transit Oriented Development (TOD) Plan Density: The original density proposed in the 2015 draft Downtown Neighborhood TOD Plan was also analyzed. It allowed up to 1.9 FAR, which equates to an estimated 991,800 SF of permitted building area. This would translate into

approximately 1,000 residential units if up to 80,000 SF of commercial space was maintained as part of the mix. The scenario is not preferred as it only increases the amount of rental housing units by 636 units as opposed to the 2,084 additional units in the preferred plan. Alternative Street Alignments and Site Plan Layouts: Throughout the master plan process, the design team tested various site plan layouts. However, these alignments were not favored by residents as some included straight connections which might encourage drivers to speed and cut through the site, or additional intersections off of higher-speed streets. The preferred site plan balances increased and improved accessibility and connectivity through the site, without compromising safety. Alternative Phasing Plans: Other phasing plans were considered including redeveloping the entire site at once or in fewer increments. These may shorten the overall time period and simplify demolition and construction operations. However, they may increase traffic, noise, vibration, and air quality impacts related to demolition and construction during that time and would require more households to be relocated offsite in the initial phase and more disruption to more people. Given the shortage of affordable housing and rental units, this may require relocation to more distant locations or to undesirable locations. The proposed phasing attempts to minimize the number of households who need to be relocated offsite to ease the transition for current residents into their new units. Net-Zero Energy Alternative: In order for the project to be net-zero energy, it would have to generate 9.7 MW of electricity as part of the project. Based on the renewable energy resources available at the site, the most feasible renewable energy source would be solar photovoltaic (PV) electricity. For 9.7 MW PV, approximately 39 acres of land would be needed. The existing parcel is only 14.8 acres and too small. Another option would be to develop it offsite. Rough cost estimates are $25,000,000 not including the lease or cost of the land. If battery storage is required, a 5 MW battery storage system would cost roughly $62,000,000 for a Lithium-Ion system or $10,000,000 for a lead-acid system. Also, if pursued by a third party provider, the 10 MW facility would require a lengthy and costly PUC process that could not guarantee success. Site constraints, upfront costs, and complexity and timing of additional permitting and approvals to achieve implementation make this alternative infeasible at this time.

No Action Alternative [24 CFR 58.40(e)]

The No Action alternative does not accomplish the stated project purpose and the State's goal of increasing the development of at least 22,500 affordable rental housing units available for occupancy by December 2026 as it leaves the existing site in its current condition. The existing 364 public housing units would remain, and no additional affordable rental housing units would be provided. It also leaves current residents in functionally obsolete units that require substantial maintenance and repair and have outlasted their useful life. Although the project was recently upgraded in 1984, the units will not be of high-quality sustainable design as the existing site was built in the early 1950s and does not meet current standards for ADA accessibility, contains lead-based paints and asbestos, and would require significant capital improvements to retrofit and

upgrade. The current layout isolates it from the surrounding community by having the residential units face inward and is completely surrounded by fencing, making it inaccessible except at the two vehicle access points on North Kukui Street and the five pedestrian gates which are locked at 10 PM nightly. The site will not be consistent with the Downtown Neighborhood TOD Plan for a higher intensity mixed-use community. It would continue to leverage federal sources of support as it currently does. However, it would not leverage private funding to maximize the efficiency and effectiveness of public resources.

Summary of Findings and Conclusions:
The proposed MWH Redevelopment project, with 2,448 residential rental units, including the a one-for-one replacement of the 364 public housing units, and up to 80,000 square feet of commercial uses, a mix of parks and open spaces, parking, a community center, and a multi-purpose hale, is the preferred alternative for the site for the following reasons: * The proposed project is ideally located in the Honolulu's Primary Urban Center (PUC), close to existing employment centers, infrastructure, and transportation networks, which is highly consistent with the City and County of Honolulu's General Plan and PUC Development Plan. * The Honolulu City Council recently adopted the Downtown Neighborhood TOD Plan on September 6, 2017 as City Council Resolution No. 16-247, CD1, FD1 permitting building heights up to 400 feet and a FAR up to 7.5 for the proposed project site. * The overall intensification of land uses within the Kalihi-Kapalama-Iwilei corridor is a major goal of the City of Honolulu's long-range vision and general development pattern goals which emphasize the need for the existing urban core around Honolulu to remain the Oahu's primary urban center. * The proposed project will reduce the pressure to develop in more rural areas on Oahu that may be more adversely impacted by a project of similar scale and which may not have sufficient infrastructure, utilities, or access to transportation networks. * The proposed project is well serviced by Oahu's existing bus transit system. It is also located less than a third-of-a-mile from the planned Iwilei Transit Station of the Honolulu Light Rail Transit Project and has been designed with thoughtful consideration to equitable Transit Oriented Development (TOD) design principles and may contribute to reductions in impacts such as traffic and related fuel consumption and air pollution. * The conceptual master plan for the proposed project has been designed in accordance with City and County of Honolulu Complete Streets Ordinance (Section 14-33, ROH) and envisions incorporating retail, commercial, and social service uses at street level of the new buildings, complimenting existing area uses, and providing necessary services for area residents. * The proposed project is expected to result in a reinvigorated community with well-connected thoroughfares together with interconnected and activated streets that will encourage walking and biking, which in turn support community safety and public health. * The proposed project incorporates well-designed recreational spaces combined with green building and sustainability concepts that will contribute to improved individual health, wellbeing, quality of life and sense of connectedness for

existing and future residents. * The proposed project represents the efficient use of public resources by leveraging both private and public funding to redevelop an existing urbanized site. * The proposed project attempts to balance the potential impacts of intensification of use onsite with the social and environmental considerations of creating a high-quality, comfortable, and inviting community to live, work, and play with the potential for far-reaching transformative positive community impacts well beyond the boundaries of the project site. The Mayor Wright Homes redevelopment will not only improve the housing conditions for its current residents, but will fundamentally transform an existing, obsolete, state-owned land asset, into a new, mixed-income, mixed-use, transit oriented development complementing the existing vibrant Kalihi, Liliha, Kapalama, and Iwilei communities and facilitating the delivery of urgently needed new rental housing units to help address the existing affordable rental housing crises across the State of Hawaii.

Mitigation Measures and Conditions [CFR 1505.2(c)]:

Summarized below are all mitigation measures adopted by the Responsible Entity to reduce, avoid or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Law, Authority, or Factor	Mitigation Measure or Condition	Comments on Completed Measures	Complete
Historic Preservation	Please see Attachment 10 - Mitigation Measures and Conditions	N/A	
Contamination and Toxic Substances	Please see Attachment 10 - Mitigation Measures & Conditions	N/A	
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	The proposed MWH Redevelopment is not consistent with the current A-2 zoning's FAR and building height requirements. However, the project is consistent with the City and County of Honolulu's (City) adopted Downtown Neighborhood TOD Plan (TOD Plan), which permits a maximum building height of 400 feet and FAR up to 7.5 on the current site. A 201H Housing Program exemption for the existing zoning will be sought from the City to allow the project to be developed under the City's adopted TOD Plan recommendations for FAR and	N/A	

	building height limits. The project team anticipates submitting the 201H application to the City Spring 2020. Visual impacts from the project must take into consideration the highly urban nature of this viewshed with buildings in Downtown Honolulu extending up to about 430 feet in height. While views to specific landmarks from various viewpoints within the Primary Urban Center may be altered by the proposed project, the overall urban character of this viewshed will not be significantly altered. The plan attempts to mitigate visual impacts by: - Providing fewer towers with low- and mid-rise buildings comprising most of the street-facing building massing and space between the towers to preserve distant views where possible; - Activating the street level views with landscaping and pedestrian-friendly streetscapes, commercial uses and lower- and mid-rise residential buildings wherever possible; - Creating a more interesting skyline by varying building heights; - Setting the towers 50 feet back from Pua Lane and Liliha Streets to minimize their visual impacts from the street level of adjacent neighborhoods; and - Orienting the towers with their narrower sides facing the mauka and makai sides of the site and their wider side facing east and west to preserve mauka to makai views.		
Hazards and Nuisances including Site Safety and Site-Generated Noise	Please see Attachment 10 - Mitigation Measures and Conditions	N/A	
Educational and Cultural Facilities (Access and Capacity)	On-going discussions with the State Department of Education are being held to determine how the proposed project will support public education. As the project moves into design and	N/A	

	construction, MWH Partners will continue discussions with the Hawaii Department of Education regarding impacts on student relocation and transition during the carious phases of this project. MWH Partners will coordinate with the Hawaii Department of Education to execute an educational contribution agreement to satisfy the State's school impact fee requirements.		
Solid Waste Disposal and Recycling (Feasibility and Capacity)	The proposed project will support recycling as much as possible for both households and commercial uses as well as green wastes generated onsite. Detailed design will include but not be limited to onsite facilities to support separating wastes into recyclable and non-recyclable materials and for central collection facilities within the buildings. MWH Partners, LLC will also work with the City and contracted collection services to ensure as much recyclable materials are diverted from the waste stream from the project as they will be managing ongoing operations of the site once construction is complete. All remaining non-hazardous waste generated by the project must be disposed of at a solid waste management facility that complies with applicable State regulations of HAR, Chapter 11-58.1. No open burning of wastes either onsite or offsite will be permitted.	N/A	
Public Safety - Police, Fire and Emergency Medical	Project designers will continue to work closely with City Police, the Honolulu Fire Department, and other public service providers during the detailed design of the facilities to ensure the new structures at MWH will be easily accessible by emergency services to support favorable response times.	N/A	
Transportation and Accessibility (Access and	Please see Attachment 10 - Mitigation Measures and Conditions	N/A	

Capacity)			
Vegetation / Wildlife (Introduction, Modification, Removal, Disruption, etc.)	Please see Attachment 10 - Mitigation Measures and Conditions	N/A	
Permits, reviews and approvals	No permits that involve the use of federal funds for the proposed project have been obtained to date.	N/A	

Mitigation Plan

Please see Attachment 10 - Mitigation Measures and Conditions
Attachment 10 Mitigation Measures and Conditions.pdf

Supporting documentation on completed measures

APPENDIX A: Related Federal Laws and Authorities

Airport Hazards

General policy	Legislation	Regulation
It is HUD's policy to apply standards to prevent incompatible development around civil airports and military airfields.		24 CFR Part 51 Subpart D

1. To ensure compatible land use development, you must determine your site's proximity to civil and military airports. Is your project within 15,000 feet of a military airport or 2,500 feet of a civilian airport?

✓ **No**

Based on the response, the review is in compliance with this section. Document and upload the map showing that the site is not within the applicable distances to a military or civilian airport below

Yes

Screen Summary

Compliance Determination

No impact. The site location is not within 2,500 feet of a civil air operation. The closest airport is the Daniel K. Inouye International Airport (HNL) approximately 2.7 miles away and separated from HNL airport by Honolulu Harbor and Keehi Lagoon. HNL is part of the State of Hawaii Airport System and is owned and operated by the State of Hawaii Department of Transportation (DOT). Future development activities related to this project that require further review and permits will follow the relevant guidance in the DOT-Airports Technical Assistance Memorandum for Daniel K. Inouye International Airport. The runways at HNL are also utilized for military operations. Properties located within 2,500 feet of a civil airport or 15,000 feet from the end of a runway at a military airfield should be identified. Those within 8,000 feet of a military airfield require a written finding made by the airport or airfield operator stating whether or not the property proposed for assistance is located within a runway Clear Zone (CZ) (civil airport) or Clear Zone or Accident Potential Zone (military airfield). The project site is not within 2,500 feet of a civil airport. The end of the nearest runway, 26L, is located +/- 14,300 feet from the project site and is therefore identified as being in excess of 8,000 feet, but within 15,000 feet of the end of a military airfield. A written finding is therefore not required. However, because the nearest runway (26L) at Daniel K. Inouye

International Airport is approximately 14,300 feet from the project site, which is within 20,000 feet, an FAA FORM 7460-1 will be required for future construction equipment and staging area heights, including temporary construction crane heights in the submittal.Figure 5 shows the distance of the project to HNL. Figure 22 shows the airport airspace in relation to the site. The site is not within the Accident Potential Zone.

Supporting documentation

Figure 5 - Airport Distance.pdf
Figure 22 - Daniel K Inouye International Airport Airspace Drawing.pdf

Are formal compliance steps or mitigation required?

Yes

✓ No

Coastal Barrier Resources

General requirements	Legislation	Regulation
HUD financial assistance may not be used for most activities in units of the Coastal Barrier Resources System (CBRS). See 16 USC 3504 for limitations on federal expenditures affecting the CBRS.	Coastal Barrier Resources Act (CBRA) of 1982, as amended by the Coastal Barrier Improvement Act of 1990 (16 USC 3501)	

This project is located in a state that does not contain CBRA units. Therefore, this project is in compliance with the Coastal Barrier Resources Act.

Compliance Determination

No impact. The project is not located within a designated coastal barrier resource area. There are no coastal barrier resources within the State of Hawaii, as shown on the U.S. Fish and Wildlife Services Coastal Barrier Resources System Mapper (see Exhibit 1). Therefore, the proposed improvements will have no impact on these resources nor will mitigation measures be necessary.

Supporting documentation

Exhibit 1 Coastal Barrier.pdf

Are formal compliance steps or mitigation required?

Yes

✓ No

Flood Insurance

General requirements	Legislation	Regulation
Certain types of federal financial assistance may not be used in floodplains unless the community participates in National Flood Insurance Program and flood insurance is both obtained and maintained.	Flood Disaster Protection Act of 1973 as amended (42 USC 4001-4128)	24 CFR 50.4(b)(1) and 24 CFR 58.6(a) and (b); 24 CFR 55.1(b).

1. Does this project involve financial assistance for construction, rehabilitation, or acquisition of a mobile home, building, or insurable personal property?

✓ No. This project does not require flood insurance or is excepted from flood insurance.

Based on the response, the review is in compliance with this section.

Yes

Screen Summary

Compliance Determination

No impact. The project site is located in Zone X, which is defined as an area outside of the 500-year floodplain. This is documented by FEMA Flood Insurance Rate Map Panel 354, Map Number 15003C0354G, dated January 19, 2011 (see Exhibit 2). Zone X is determined by the National Flood Insurance Program as an area of minimal flood hazard. A FEMA revalidation letter, dated November 4, 2014, includes revisions to the FIRM panel 15003C0354G. However, none of the revisions are located at or near the project site. The FEM Flood Map Service Center website (https://msc.fema.gove/portal/home) was also checked again on April 8, 2020 for the latest FIRM panel and found the same FIRM panel.

Supporting documentation

Exhibit 2 NEW FIRM FHAT and Revalidation.pdf

Are formal compliance steps or mitigation required?

Yes

✓ No

Air Quality

General requirements	Legislation	Regulation
The Clean Air Act is administered by the U.S. Environmental Protection Agency (EPA), which sets national standards on ambient pollutants. In addition, the Clean Air Act is administered by States, which must develop State Implementation Plans (SIPs) to regulate their state air quality. Projects funded by HUD must demonstrate that they conform to the appropriate SIP.	Clean Air Act (42 USC 7401 et seq.) as amended particularly Section 176(c) and (d) (42 USC 7506(c) and (d))	40 CFR Parts 6, 51 and 93

1. Does your project include new construction or conversion of land use facilitating the development of public, commercial, or industrial facilities OR five or more dwelling units?

✓ Yes

No

Air Quality Attainment Status of Project's County or Air Quality Management District

2. Is your project's air quality management district or county in non-attainment or maintenance status for any criteria pollutants?

✓ No, project's county or air quality management district is in attainment status for all criteria pollutants.

Yes, project's management district or county is in non-attainment or maintenance status for the following criteria pollutants (check all that apply):

Screen Summary

Compliance Determination

No impact. The ambient air quality of the Site meets all Federal and State standards. According to the Environmental Protection Agency, the entire state of Hawaii is a designated attainment area. The information was accessed online at the following website: https://www.epa.gov/green-book in December 2019 and is included in Exhibit 3. The proposed project is located between the monitoring stations identified as

"Honolulu"□ to the east and "Sand Island"□ to the south-west. The locations of these stations are identified in Section 3 of the December 2016 State of Hawaii Annual Summary 2016 Air Quality Data (2016AQD) report. Section 4 of 2016AQD report identifies stations that exceeded National Ambient Air Quality Standards during 2016. There were no exceedances of National Ambient Air Quality Standards at either the Honolulu or Sand Island Stations during 2016. No exceedances of any of the National Ambient Air Quality Standards have been recorded at any Oahu monitoring stations in the last 5 years. A list of all exceedances recorded in the State of Hawaii between January 2014 and December 2019 are available at the following website: http://health.hawaii.gov/cab/notification-of-exceedance-of-a-national-ambient-air-quality-standard/ and are included in Exhibit 3. Section 6 of the HI2016AQD report compares all of the State's monitoring stations including Sand Island and Honolulu to State and Federal Standards. The 5-year trend for both stations indicates that values for criteria pollutant from air samples collected from each station are below State and Federal ambient air quality levels. Section 6 of the 2016 report is included in Exhibit 3.

Supporting documentation
Exhibit 3 Air Quality.pdf

Are formal compliance steps or mitigation required?

Yes

✓ No

Coastal Zone Management Act

General requirements	Legislation	Regulation
Federal assistance to applicant agencies for activities affecting any coastal use or resource is granted only when such activities are consistent with federally approved State Coastal Zone Management Act Plans.	Coastal Zone Management Act (16 USC 1451-1464), particularly section 307(c) and (d) (16 USC 1456(c) and (d))	15 CFR Part 930

1. Is the project located in, or does it affect, a Coastal Zone as defined in your state Coastal Management Plan?

✓ Yes

No

2. Does this project include new construction, conversion, major rehabilitation, or substantial improvement activities?

Yes

✓ No

Based on the response, the review is in compliance with this section.

Screen Summary

Compliance Determination

No impact. All lands in the State of Hawaii are within the Coastal Zone Management Area. In a letter dated June 24, 2004 the Department of Business, Economic Development and Tourism's Office of Planning indicated that the Hawaii Coastal Zone Management program does not review any HUD assistance programs, grants, or loans for federal consistency, but that Coastal Zone Management regulations relating to actions within the Special Management Areas and Shoreline Setback still apply. This information was re-confirmed by John Nakagawa of the Hawaii State Office of Planning, Coastal Zone Management Program via phone on February 5, 2019 (see Exhibit 4). The proposed project is not within the Special Management Area; therefore, no further

consultation is required (see Figure 29).

Supporting documentation

Figure 29 - SMA.pdf
Exhibit 4 CZM.pdf

Are formal compliance steps or mitigation required?

Yes

✓ No

Contamination and Toxic Substances

General requirements	Legislation	Regulations
It is HUD policy that all properties that are being proposed for use in HUD programs be free of hazardous materials, contamination, toxic chemicals and gases, and radioactive substances, where a hazard could affect the health and safety of the occupants or conflict with the intended utilization of the property.		24 CFR 58.5(i)(2) 24 CFR 50.3(i)

1. How was site contamination evaluated? Select all that apply. Document and upload documentation and reports and evaluation explanation of site contamination below.

- ✓ American Society for Testing and Materials (ASTM) Phase I Environmental Site Assessment (ESA)
- ✓ ASTM Phase II ESA
- Remediation or clean-up plan
- ASTM Vapor Encroachment Screening
- None of the Above

2. Were any on-site or nearby toxic, hazardous, or radioactive substances found that could affect the health and safety of project occupants or conflict with the intended use of the property? (Were any recognized environmental conditions or RECs identified in a Phase I ESA and confirmed in a Phase II ESA?)

No

✓ Yes

3. Mitigation

Document and upload the mitigation needed according to the requirements of the appropriate federal, state, tribal, or local oversight agency. If the adverse environmental effects cannot be mitigated, then HUD assistance may not be used for the project at this site.

Can adverse environmental impacts be mitigated?

Adverse environmental impacts cannot feasibly be mitigated.

✓ Yes, adverse environmental impacts can be eliminated through mitigation. Document and upload all mitigation requirements below.

4. Describe how compliance was achieved in the text box below. Include any of the following that apply: State Voluntary Clean-up Program, a No Further Action letter, use of engineering controls, or use of institutional controls.

Please see Attachment 10 - Mitigation Measures & Conditions

If a remediation plan or clean-up program was necessary, which standard does it follow?

Complete removal

Risk-based corrective action (RBCA)

Screen Summary

Compliance Determination

Please see Attachment 3 (in Appendix A).

Supporting documentation

Attachment 3 Contamination and Toxic Substances.pdf
Exhibiit 6 Final MWH PH II ESA Report-07102018 compiled (no spacer pages).pdf
Exhibit 5 Phase I ESA Report 1020 Liliha St Final Package(1).pdf

Are formal compliance steps or mitigation required?

✓ Yes

No

Endangered Species

General requirements	ESA Legislation	Regulations
Section 7 of the Endangered Species Act (ESA) mandates that federal agencies ensure that actions that they authorize, fund, or carry out shall not jeopardize the continued existence of federally listed plants and animals or result in the adverse modification or destruction of designated critical habitat. Where their actions may affect resources protected by the ESA, agencies must consult with the Fish and Wildlife Service and/or the National Marine Fisheries Service ("FWS" and "NMFS" or "the Services").	The Endangered Species Act of 1973 (16 U.S.C. 1531 *et seq*.); particularly section 7 (16 USC 1536).	50 CFR Part 402

1. Does the project involve any activities that have the potential to affect specifies or habitats?

No, the project will have No Effect due to the nature of the activities involved in the project.

No, the project will have No Effect based on a letter of understanding, memorandum of agreement, programmatic agreement, or checklist provided by local HUD office

✓ Yes, the activities involved in the project have the potential to affect species and/or habitats.

2. Are federally listed species or designated critical habitats present in the action area?

✓ No, the project will have No Effect due to the absence of federally listed species and designated critical habitat

Based on the response, the review is in compliance with this section. Document and upload all documents used to make your determination below. Documentation may include letters from the Services, species lists from the Services' websites, surveys or other documents and analysis showing that there are no species in the action area.

Yes, there are federally listed species or designated critical habitats present in the action area.

Screen Summary

Compliance Determination

A biological survey was conducted in May of 2016 that closely examined all existing vegetation present at the site as well as any other vegetation that may likely occur based on the location of the property. A fauna survey of the site was also conducted concurrently. These studies are included in Exhibit 7. No federally designated critical habitats are within the immediate vicinity of the proposed project. However, the U.S. Fish & Wildlife Service data indicates that the following federally-listed species may occur or transit through the vicinity of the proposed project area: endangered Hawaiian hoary bat (Lasiurus cinereus semotus); endangered Hawaiian petrel (Pterodroma sandwichensis), threatened Newell's shearwater (Puffinus auricularis newelli), and endangered Hawaii Distinct Population Segment (DPS) of the band-rumped storm-petrel (Oceanodroma castro). As such, mitigation measures are included to minimize any potential impacts to endangered or threatened species traversing the project site.

Supporting documentation

Exhibit 7 Flora Fauna Mayor Wright Homes redevelopment.pdf

Are formal compliance steps or mitigation required?

✓ Yes

No

Explosive and Flammable Hazards

General requirements	Legislation	Regulation
HUD-assisted projects must meet Acceptable Separation Distance (ASD) requirements to protect them from explosive and flammable hazards.	N/A	24 CFR Part 51 Subpart C

1. Is the proposed HUD-assisted project itself the development of a hazardous facility (a facility that mainly stores, handles or processes flammable or combustible chemicals such as bulk fuel storage facilities and refineries)?

✓ No

Yes

2. Does this project include any of the following activities: development, construction, rehabilitation that will increase residential densities, or conversion?

No

✓ Yes

3. Within 1 mile of the project site, are there any current or planned stationary aboveground storage containers that are covered by 24 CFR 51C? Containers that are NOT covered under the regulation include:

- **Containers 100 gallons or less in capacity, containing common liquid industrial fuels OR**
- **Containers of liquified petroleum gas (LPG) or propane with a water volume capacity of 1,000 gallons or less that meet the requirements of the 2017 or later version of National Fire Protection Association (NFPA) Code 58.**

If all containers within the search area fit the above criteria, answer "No." For any other type of aboveground storage container within the search area that holds one of the flammable or explosive materials listed in Appendix I of 24 CFR part 51 subpart C, answer "Yes."

✓ No

Based on the response, the review is in compliance with this section. Document and upload all documents used to make your determination below.

Yes

Screen Summary

Compliance Determination

No Impact. The Phase I Environmental Site Assessment (ESA) (Exhibit 5) included site reconnaissance to evaluate the current use of the project site, as well as adjacent and near-by properties. An Environmental Data Radius Map Report was contracted as part of the Phase I ESA and no above ground storage tanks were noted within a one-mile radius of the project site (see Exhibit 5). The project site is not anticipated to be affected by hazardous operations that could result in flammable or explosive conditions.

Supporting documentation

Exhibit 5 Phase I ESA Report 1020 Liliha St Final Package(1).pdf

Are formal compliance steps or mitigation required?

Yes

✓ No

Farmlands Protection

General requirements	Legislation	Regulation
The Farmland Protection Policy Act (FPPA) discourages federal activities that would convert farmland to nonagricultural purposes.	Farmland Protection Policy Act of 1981 (7 U.S.C. 4201 et seq.)	7 CFR Part 658

1. Does your project include any activities, including new construction, acquisition of undeveloped land or conversion, that could convert agricultural land to a non-agricultural use?

Yes

✓ No

If your project includes new construction, acquisition of undeveloped land or conversion, explain how you determined that agricultural land would not be converted:

Based on the response, the review is in compliance with this section. Document and upload all documents used to make your determination below.

Screen Summary

Compliance Determination

No impact. The project site is not classified by the Land Study Bureau (LSB) productivity ratings (Figure 8) or as Agricultural Lands of Importance to the State of Hawaii (ALISH) (Figure 10) since the area has been urbanized since the early 1900s, prior to the LSB and ALISH mapping in the 1970s.

Supporting documentation

Exhibit 8 Soil Map(1).pdf
Figure 10 - ALISH.pdf
Figure 9 - Soil(1).pdf
Figure 8 - LSB.pdf

Are formal compliance steps or mitigation required?

Yes

✓ No

Mayor-Wright-Homes-Redevelopment	Honolulu, HI	900000010096124

Floodplain Management

General Requirements	Legislation	Regulation
Executive Order 11988, Floodplain Management, requires federal activities to avoid impacts to floodplains and to avoid direct and indirect support of floodplain development to the extent practicable.	Executive Order 11988	24 CFR 55

1. Do any of the following exemptions apply? Select the applicable citation? [only one selection possible]

55.12(c)(3)
55.12(c)(4)
55.12(c)(5)
55.12(c)(6)
55.12(c)(7)
55.12(c)(8)
55.12(c)(9)
55.12(c)(10)
55.12(c)(11)
✓ None of the above

2. Upload a FEMA/FIRM map showing the site here:

Exhibit 2 FIRM FHAT(1).pdf

The Federal Emergency Management Agency (FEMA) designates floodplains. The FEMA Map Service Center provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs). For projects in areas not mapped by FEMA, use **the best available information** to determine floodplain information. Include documentation, including a discussion of why this is the best available information for the site.

Does your project occur in a floodplain?

✓ No

Based on the response, the review is in compliance with this section.

Yes

Screen Summary

Compliance Determination

No impact. The Flood Insurance Rate Map (FIRM) panel number 15003C0354G indicates that the proposed project site is located within Zone X, an area outside of the 500-year floodplain (see Exhibit 2). Flooding may still be possible in extreme events but poses a minimal flood hazard. Formal compliance and mitigation are not required.

Supporting documentation

Are formal compliance steps or mitigation required?

Yes

✓ No

Historic Preservation

General requirements	Legislation	Regulation
Regulations under Section 106 of the National Historic Preservation Act (NHPA) require a consultative process to identify historic properties, assess project impacts on them, and avoid, minimize, or mitigate adverse effects	Section 106 of the National Historic Preservation Act (16 U.S.C. 470f)	36 CFR 800 "Protection of Historic Properties" http://www.access.gpo.gov/nara/cfr/waisidx_10/36cfr800_10.html

Threshold

Is Section 106 review required for your project?

No, because the project consists solely of activities listed as exempt in a Programmatic Agreement (PA). (See the PA Database to find applicable PAs.)

No, because the project consists solely of activities included in a No Potential to Cause Effects memo or other determination [36 CFR 800.3(a)(1)].

✓ Yes, because the project includes activities with potential to cause effects (direct or indirect).

Step 1 – Initiate Consultation

Select all consulting parties below (check all that apply):

✓ State Historic Preservation Offer (SHPO) Completed

✓ Advisory Council on Historic Preservation Completed

✓ Indian Tribes, including Tribal Historic Preservation Officers (THPOs) or Native Hawaiian Organizations (NHOs)

Other Consulting Parties

Describe the process of selecting consulting parties and initiating consultation here:

Please see Attachment 4 (in Appendix A).

Document and upload all correspondence, notices and notes (including comments and objections received below).

Step 2 – Identify and Evaluate Historic Properties

1. **Define the Area of Potential Effect (APE), either by entering the address(es) or uploading a map depicting the APE below:**
   The Area of Potential Effect is depicted in Figure 30.

   In the chart below, list historic properties identified and evaluated in the APE. Every historic property that may be affected by the project should be included in the chart.

   Upload the documentation (survey forms, Register nominations, concurrence(s) and/or objection(s), notes, and photos) that justify your National Register Status determination below.

Address / Location / District	National Register Status	SHPO Concurrence	Sensitive Information

   Additional Notes:

   Please see Exhibit 9 - Reconnaissance Level Survey of Multiple Properties Located Within the Selected Area of Potential Effect.

2. **Was a survey of historic buildings and/or archeological sites done as part of the project?**

   ✓ Yes

   Document and upload surveys and report(s) below.
   For Archeological surveys, refer to HP Fact Sheet #6, Guidance on Archeological Investigations in HUD Projects.

   Additional Notes:

No

Step 3 –Assess Effects of the Project on Historic Properties

Only properties that are listed on or eligible for the National Register of Historic Places receive further consideration under Section 106. Assess the effect(s) of the project by applying the Criteria of Adverse Effect. (36 CFR 800.5)] Consider direct and indirect effects as applicable as per guidance on direct and indirect effects.

Choose one of the findings below - No Historic Properties Affected, No Adverse Effect, or Adverse Effect; and seek concurrence from consulting parties.

No Historic Properties Affected

No Adverse Effect

✓ Adverse Effect

Document reason for finding; upload the criteria with summary and justification. Criteria of Adverse Effect 36 CFR 800.5.

Please see Attachment 4 (in Appendix A)

Step 4 – Resolve Adverse Effects

Work with consulting parties to try to avoid, minimize or mitigate adverse effects. Refer to ATEC guidance and 36 CFR 800.6 and 800.7.

Were the Adverse Effects resolved?

✓ Yes

Describe the resolution of Adverse Effects, including consultation efforts and participation by the Advisory Council on Historic Preservation:

Please see Attachment 10 - Mitigation Measures and Conditions

For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

Please see Attachment 10 - Mitigation Measures and Conditions

Based on the response, the review is in compliance with this section. Document and upload the signed Memorandum of Agreement (MOA) or Standard Mitigation Measures Agreement (SMMA) below.

No

Screen Summary

Compliance Determination

Please see Attachment 4 (in Appendix A)

Supporting documentation

Attachment 4 Historic Preservation.pdf
Exhibit 12 Section 106 Consultation(1).pdf
Exhibit 11 MWH final final CIA 10 Aug 2017.pdf
Exhibit 10 AIS.pdf
Exhibit 9 RLS Mayor Wright Homes.pdf
Figure 18 - Preliminary Findings of Reconnaissance Level Survey of Historic Properties(1).pdf
Exhibit 13 ACHP Letter.pdf
Exhibit 14 Signed MOA.pdf
Figure 30 - Proposed Area of Potential Impact.pdf

Are formal compliance steps or mitigation required?

✓ Yes

No

Noise Abatement and Control

General requirements	Legislation	Regulation
HUD's noise regulations protect residential properties from excessive noise exposure. HUD encourages mitigation as appropriate.	Noise Control Act of 1972 General Services Administration Federal Management Circular 75-2: "Compatible Land Uses at Federal Airfields"	Title 24 CFR 51 Subpart B

1. What activities does your project involve? Check all that apply:

✓ New construction for residential use

NOTE: HUD assistance to new construction projects is generally prohibited if they are located in an Unacceptable zone, and HUD discourages assistance for new construction projects in Normally Unacceptable zones. See 24 CFR 51.101(a)(3) for further details.

Rehabilitation of an existing residential property

A research demonstration project which does not result in new construction or reconstruction

An interstate land sales registration

Any timely emergency assistance under disaster assistance provision or appropriations which are provided to save lives, protect property, protect public health and safety, remove debris and wreckage, or assistance that has the effect of restoring facilities substantially as they existed prior to the disaster
None of the above

4**. Complete the Preliminary Screening to identify potential noise generators in the vicinity (1000' from a major road, 3000' from a railroad, or 15 miles from an airport).**

Indicate the findings of the Preliminary Screening below:

There are no noise generators found within the threshold distances above.

✓ Noise generators were found within the threshold distances.

5. **Complete the Preliminary Screening to identify potential noise generators in the**

✓ Acceptable: (65 decibels or less; the ceiling may be shifted to 70 decibels in circumstances described in §24 CFR 51.105(a))

Indicate noise level here: 64

Based on the response, the review is in compliance with this section. Document and upload noise analysis, including noise level and data used to complete the analysis below.

Normally Unacceptable: (Above 65 decibels but not exceeding 75 decibels; the floor may be shifted to 70 decibels in circumstances described in §24 CFR 51.105(a))

Unacceptable: (Above 75 decibels)

HUD strongly encourages conversion of noise-exposed sites to land uses compatible with high noise levels.

Check here to affirm that you have considered converting this property to a non-residential use compatible with high noise levels.

Indicate noise level here: 64

Document and upload noise analysis, including noise level and data used to complete the analysis below.

Screen Summary

Compliance Determination

Please see Attachment 5 (in Appendix A).

Supporting documentation

Attachment 5 Noise Abatement and Control.pdf
Exhibit 15 MWH Noise Study(1).pdf

Are formal compliance steps or mitigation required?

✓ Yes

No

Sole Source Aquifers

General requirements	Legislation	Regulation
The Safe Drinking Water Act of 1974 protects drinking water systems which are the sole or principal drinking water source for an area and which, if contaminated, would create a significant hazard to public health.	Safe Drinking Water Act of 1974 (42 U.S.C. 201, 300f et seq., and 21 U.S.C. 349)	40 CFR Part 149

1. Does the project consist solely of acquisition, leasing, or rehabilitation of an existing building(s)?

Yes

✓ No

2. Is the project located on a sole source aquifer (SSA)?

A sole source aquifer is defined as an aquifer that supplies at least 50 percent of the drinking water consumed in the area overlying the aquifer. This includes streamflow source areas, which are upstream areas of losing streams that flow into the recharge area.

No

✓ Yes

3. Does your region have a memorandum of understanding (MOU) or other working agreement with Environmental Protection Agency (EPA) for HUD projects impacting a sole source aquifer?

✓ Yes

Document and upload MOU or Agreement below.

No

4. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation. This information will be automatically included in the Mitigation summary for the environmental review. If negative effects cannot be mitigated, cancel the project using the button at the bottom of this screen

✓ Yes

Document and upload where your project fits within the MOU or working agreement below. Based on the response, the review is in compliance with this section.

No

Screen Summary

Compliance Determination

No impact. The project site is located within the boundaries of the Southern Oahu Basal Aquifer as identified on Figure 7. In a Memorandum of Understanding (MOU) between the EPA and HUD dated May 17, 1990, section II.B identified HUD activities that would not affect water quality. Such activities need not be referred to the EPA for evaluation. Actions associated with the project are exempt from further evaluation based on II.B.1- for Projects served by existing publicly owned/operated sewerage systems and treatment plants that are not subject to locally or EPA imposed moratoriums or otherwise covered by the MOU. A memorandum detailing the implementation of the MOU dated May 1991 is included as Exhibit 16.

Supporting documentation

Figure 7 - Sole Source Aquifer.pdf
Exhibit 16 Sole Source Aquifer.pdf

Are formal compliance steps or mitigation required?

Yes

✓ No

Wetlands Protection

General requirements	Legislation	Regulation
Executive Order 11990 discourages direct or indirect support of new construction impacting wetlands wherever there is a practicable alternative. The Fish and Wildlife Service's National Wetlands Inventory can be used as a primary screening tool, but observed or known wetlands not indicated on NWI maps must also be processed Off-site impacts that result in draining, impounding, or destroying wetlands must also be processed.	Executive Order 11990	24 CFR 55.20 can be used for general guidance regarding the 8 Step Process.

1. Does this project involve new construction as defined in Executive Order 11990, expansion of a building's footprint, or ground disturbance? The term "new construction" shall include draining, dredging, channelizing, filling, diking, impounding, and related activities and any structures or facilities begun or authorized after the effective date of the Order

✓ No

Based on the response, the review is in compliance with this section.

Yes

Screen Summary

Compliance Determination

No impact. According to the National Wetlands Inventory, there are no wetlands on or near the Site (U.S. Fish and Wildlife Service, accessed December 2019) (see Exhibit 17) and no mitigation measures are proposed.

Supporting documentation

Exhibit 17 National Wetlands Inventory.pdf

Are formal compliance steps or mitigation required?

Yes

✓ No

Wild and Scenic Rivers Act

General requirements	Legislation	Regulation
The Wild and Scenic Rivers Act provides federal protection for certain free-flowing, wild, scenic and recreational rivers designated as components or potential components of the National Wild and Scenic Rivers System (NWSRS) from the effects of construction or development.	The Wild and Scenic Rivers Act (16 U.S.C. 1271-1287), particularly section 7(b) and (c) (16 U.S.C. 1278(b) and (c))	36 CFR Part 297

1. Is your project within proximity of a NWSRS river?

✓ No

Yes, the project is in proximity of a Designated Wild and Scenic River or Study Wild and Scenic River.
Yes, the project is in proximity of a Nationwide Rivers Inventory (NRI) River.

Screen Summary
Compliance Determination
No impact. Currently there are no designated wild and scenic rivers in the State of Hawaii (U.S. Fish and Wildlife Service, accessed December 2019) (see Exhibit 18) and no mitigation measures are proposed.

Supporting documentation

Exhibit 18 Hawaii Rivers.pdf

Are formal compliance steps or mitigation required?

Yes

✓ No

Environmental Justice

General requirements	Legislation	Regulation
Determine if the project creates adverse environmental impacts upon a low-income or minority community. If it does, engage the community in meaningful participation about mitigating the impacts or move the project.	Executive Order 12898	

HUD strongly encourages starting the Environmental Justice analysis only after all other laws and authorities, including Environmental Assessment factors if necessary, have been completed.

1. Were any adverse environmental impacts identified in any other compliance review portion of this project's total environmental review?

✓ Yes

No

2. Were these adverse environmental impacts disproportionately high for low-income and/or minority communities?

Yes

✓ No

Explain:
The MWH Redevelopment project is located in a predominantly minority and low-income neighborhood. However, the site and the surrounding neighborhood do not suffer from disproportionately adverse environmental effects on minority and low-income populations relative to the community at large.

Based on the response, the review is in compliance with this section. Document and upload any supporting documentation below.

Screen Summary
Compliance Determination
No impact. The MWH Redevelopment project is located in a predominantly minority

and low-income neighborhood. However, the site and the surrounding neighborhood do not suffer from disproportionately adverse environmental effects on minority and low-income populations relative to the community at large. The updated 2018 EJSCREEN Report for the MWH census tract and one-mile ring surrounding it is included as Exhibit 19 and notes that MWH rates relatively high in State, EPA region, and national percentiles on nine of the eleven environmental indexes, which further supports the redevelopment of the site into a more sustainable project. The report also notes that there are currently no Superfund sites located within the EJSCREEN search area. However, there are four hazardous waste treatment, storage, or disposal facilities within the EJSCREEN search area. As such, the notion of environmental justice has been evaluated and there will be no activity performed with HUD or other Federal funds that will in any way create discrimination or isolation of minority or low-income individuals based on the siting or purpose of the MWH Redevelopment. The proposed development is not anticipated to create, expose, or disproportionately affect minority or low-income persons in comparison to the rest of the population. Therefore, it is in compliance with E.O. 12898 and no mitigation measures are proposed.

Supporting documentation

Exhibit 19 Environmental Justice.pdf

Are formal compliance steps or mitigation required?

Yes

✓ No

ATTACHMENT 1

Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:

The State of Hawai‘i and City and County of Honolulu are currently experiencing a housing crisis. Due to an increasingly high demand for housing, coupled with a decades-low housing supply, limited land, and high production costs, Honolulu consistently ranks among the most expensive residential rental markets in the nation. As housing costs in Hawai‘i continue to increase, the number of available affordable apartments continues to decline leaving low to moderate-income households with limited housing options. Consequently, many of these households are forced to relocate greater distances from their place of work in urban Honolulu, resulting in secondary impacts such as lengthening commute times, exacerbating traffic congestion, increasing pollution, social and environmental impacts associated with traffic congestion and a decreasing quality of life for commuters. In a worst-case scenario, many of these residents may be displaced altogether.

The 2015 installment of Paycheck to Paycheck from the Center for Housing Policy at the National Housing Conference showed Honolulu ranked as the sixth most expensive market to purchase housing and the second most expensive rental market in the nation. According to the residential market study prepared by Ricky Cassiday for the project, the accumulation of unmet housing need on O‘ahu from the year 2000 to 2015 was over 17,600 units and recent trends show that only about 40 percent of what is estimated for housing production in the next five to six years will address the projected housing demand (Cassiday, 2016). Recent studies have projected a gap of 10,226 residential units for O‘ahu between 2016 and 2020, with roughly half of them needed as rental units including 3,593 multifamily rental units (Belt Collins Hawaii, LLC, 2017).

For the multifamily market in Honolulu, the market study prepared for the Downtown Neighborhood Transit-Oriented Development (TOD) Plan found that the average number of building permits pulled over the past 20 years was about 1,200 per year. It notes that, "despite high demand for rental housing opportunities in the urban core, there has been almost no new development of market rate [rental] apartments in years, a reflection of the discrepancy between the values of for-sale condominiums versus those supported by apartment rents. The rental housing stock in Honolulu is generally a combination of older market rate apartments, public housing or other subsidized housing, and for-sale condominiums that owner/investors are renting" (Keyser Marston Associates, Inc., 2011).

The market study for the Downtown Neighborhood TOD Plan also states that "the Iwilei Station presents good opportunities for TOD to occur on a large-scale due to the fact that the area has a number of underutilized properties that are likely to be candidates for redevelopment" (Keyser Marston Associates, Inc., 2011). They estimated that the Downtown neighborhood area, which includes a half-mile radius around the Downtown, Chinatown, and Iwilei transit stations, could support an additional 6,000 new dwelling units (based on demand), 485,000 square feet of new TOD-oriented retail, and 910,000 square feet of office by 2035 (Keyser Marston Associates, Inc., 2011).

The TOD market study also noted that the mix of TOD-type retail demand in the area would be for small- to medium-format stores, with the largest of these stores being in the 50,000 to 60,000 SF range, or the size of a modern grocery store. It also notes that "a portion of the retail demand, perhaps in the ten to fifteen percent range, could be supported on the ground floor of mixed-use buildings, with residential or office uses above."

On June 29, 2016, SB2561, SD2, HD1, CD1, was signed into law as Act 12, Session Laws of Hawai‘i (SLH), to address the affordable rental housing crisis by establishing an affordable rental housing goal, and a Special Action Team (SAT) on affordable rental housing. The SAT is chaired by the Director of the State Office of Planning (OP) and its mission is to recommend actions to promote affordable rental housing. The

primary goal of Act 127 is to develop or vest the development of at least 22,500 affordable rental housing units, ready for occupancy, between January 1, 2017 and December 31, 2026.

According to the "Special Action Team on Affordable Rental Housing Report to the Hawai‘i State Legislature in Response to Act 127, Session Laws of Hawai‘i 2016" (State of Hawaii Office of Planning, 2016):

> *Housing is considered "affordable" when a household spends less than 30 percent of their income on shelter and utilities. But affordable housing is a serious challenge for Hawai‘i's low-income residents, who face one of the highest housing cost in the country. In a market with some of the most expensive for-sale homes in the county, 43% of the state's households must rent. This is even more difficult for Hawai‘i's residents as rent increases, but wages have not kept pace. There is a sense of urgency in developing needed rental housing units, particularly for households in the rental housing "gap" group (i.e., those earning between 60% and 80% of the area median income (AMI)). The need for affordable housing is particularly acute for households with low incomes.*

The proposed project specifically responds to this urgent need for affordable rental housing and is an excellent candidate for redevelopment for the following reasons:

(i) The proposed project is ideally located in the Honolulu's Primary Urban Center, close to existing employment centers, infrastructure, and transportation networks, which is highly consistent with the City and County of Honolulu's General Plan.

(ii) The Honolulu City Council adopted the Downtown Neighborhood TOD Plan on September 6, 2017 as City Council Resolution No. 16-247, CD1, FD1 permitting building heights up to 400 feet and a FAR up to 7.5 for the proposed project site.

(iii) The overall intensification of land uses within the Kalihi-Kapālama-Iwilei corridor is a major goal of the City and County of Honolulu's long-range vision and general development pattern goals which emphasize the need for the existing urban core around Honolulu to remain O‘ahu's primary urban center.

(iv) The proposed project will reduce the pressure to develop in more rural areas that may be more adversely impacted by a project of similar scale and which may not have sufficient infrastructure, utilities, or access to transportation networks.

(v) The proposed project is well serviced by O‘ahu's existing bus transit system. It is also located less than a third-of-a-mile from the planned Iwilei Transit Station of the Honolulu Light Rail Transit Project and has been designed with thoughtful consideration to equitable Transit Oriented Development (TOD) design principles and may contribute to reductions in impacts such as traffic and related fuel consumption and air pollution.

(vi) The conceptual master plan for the proposed project has been designed in accordance with City and County of Honolulu Complete Streets Ordinance (Section 14-33, ROH) and envisions incorporating retail and commercial uses at street level of the new buildings, complimenting existing area uses, and providing necessary services for area residents.

(vii) The proposed project is expected to result in a reinvigorated community with well-connected thoroughfares together with interconnected and activated streets that will encourage walking and biking, which in turn support community safety.

(viii) The proposed project incorporates well designed recreational spaces combined with green building and sustainability concepts that will contribute to improved individual health, wellbeing, quality of life and sense of connectedness for existing and future residents.

(ix) The proposed project represents the efficient use of public resources by leveraging both private and public funding to redevelop an existing urbanized site.

(x) The proposed project attempts to balance the potential impacts of intensification of use onsite with the social and environmental considerations of creating a high-quality, comfortable, and inviting community to live, work, and play with the potential for far-reaching transformative positive community impacts well beyond the boundaries of the project site.

The Mayor Wright Homes redevelopment will not only improve the housing conditions for its current residents, but will convert an existing, obsolete, state-owned asset, into a new, mixed-income, mixed-use, transit-oriented development complementing the existing vibrant Kalihi, Liliha, Kapālama, and Iwilei communities and facilitating the delivery of urgently needed new rental housing units to help address the existing affordable rental housing crises across the State of Hawai‘i.

ATTACHMENT 2

Existing Conditions and Trends [24 CFR 58.40(a)]:

Named for George F. Wright, the seventh mayor of Honolulu, Mayor Wright Homes is a federally funded low-income housing project that is owned and operated by the Hawai‘i Public Housing Authority. The current facilities consist of 35 two-story and three-story walk-up buildings with a total of 364 low-income rental units providing housing for approximately 1,500 residents. The property is subject to a Declaration of Trust with the U.S. Department of Housing and Urban Development (HUD) and has been used for public housing since its construction completed in 1953. Although the project was recently upgraded in 1984, the existing units are functionally obsolete and have outlasted their useful life.

There are 24 one-bedroom units, 114 two-bedroom units, 168 three-bedroom units, 50 four-bedroom units, and 8 five-bedroom units. The housing project also includes a two-story common area building fronting Kukui Street near Liliha Street with a community center and administrative offices, as well as a small playground at the center of the site. The existing buildings are arranged roughly in pairs forming courtyards. The open spaces between the buildings do not follow any hierarchy, and paved parking lots, sidewalks, and grassed courtyards weave through the property in varying patterns. See Figure 4.

There are 371 on-grade, outdoor parking stalls located throughout the site and vegetation is limited primarily to grass, a few shower and pink tecoma trees, and individual residents' landscaping around their units. Visitor parking is provided along North Kukui Street and near the Administration Building. The entire perimeter of the site is either fenced or walled off from the surrounding streets. Vehicle access to the site is limited to Kukui Street, which has gated entries on Pua Lane and Liliha Street. Visitors must check in with the guards stationed at each entrance. Three additional pedestrian-only accesses are located at the corner of North King and Liliha Streets and two on Pua Lane. The pedestrian-only gates are typically secured at 10:00 PM nightly and the two vehicle accesses are monitored by security personnel 24-hours a day, 7-days a week. The Hawai‘i Public Housing Authority has roving security guards on patrol and security cameras throughout the property.

Within the vicinity of the property is a mix of residential and commercial uses, churches, community services, and schools including Princess Victoria Ka‘iulani Elementary School and Honolulu Community College across North King Street. The Kalihi/Iwilei/Kapālama areas have long been associated with industrial uses and working-class communities. However, prior to this, the immediate project area was once a community of Honolulu’s elite including the former Royal Residences of Kapālama, originally built and inhabited by Queen Lili‘uokalani and Princess Ruth Ke‘elikōlani. The areas along Honolulu Harbor were filled throughout the nineteenth century and roads and schools also increased connections between Kalihi and other regions of Honolulu including Nu‘uanu and Chinatown. The area started to lose favor with the elite by the 1870s and the lands were covered by tenements housing recent immigrants and those displaced by the two Chinatown fires of 1886 and 1900.

The Honolulu Authority for Rapid Transportation's Iwilei rail station is currently planned to be located near the intersection of Ka‘a‘ahi Street and Dillingham Boulevard, within a quarter-mile of the makai (oceanside) edge of the project site. In September 2017, the Honolulu City Council adopted the *Downtown Neighborhood Transit-Oriented Development (TOD) Plan* (TOD Plan), which addresses land use, local transportation, public facilities and services, economics, infrastructure planning, and options for implementation around the three Downtown Honolulu rail stations: Downtown, Chinatown, and Iwilei. The TOD Plan envisions the Iwilei area where the proposed project is located as the most “transformative,” calling for “a new high-intensity mixed-use Iwilei district.” In its Overall Concept, it describes Iwilei as follows:

> *This new full-service neighborhood, with residences, public facilities, and neighborhood shopping services, serves as an extension of Downtown and a transition to Kalihi. It creates an opportunity for new housing within walking distance of Chinatown and Downtown.…New streets and paths break up the large blocks in Iwilei and improve accessibility to Iwilei station, Dole Cannery, Kukui Gardens, Mayor Wright Homes, Pālama Settlement, and future uses.* (Dyett and Bhatia, 2017)

The proposed project is located within the TOD Zone around the Iwilei Station. The redevelopment of Mayor Wright Homes is envisioned as a catalytic project consistent with the City and County of Honolulu's overall vision of transforming the area into a transit-oriented development (TOD) within walking distance of Downtown Honolulu and the future Iwilei rail station.

ATTACHMENT 3

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes ☒ No ☐	Mitigation required. A Phase I Environmental Site Assessment was completed by Weston Solutions, Inc. in July 2016 and is attached as Exhibit 5. Onsite testing was not performed as part of this assessment, but it included records research including an Environmental Data Resources, Inc. report, a site reconnaissance, and interviews. In addition, initial testing for asbestos and lead-based paint was performed on one of the existing buildings in August 2015 by EMET Services, Inc. and both were found to be present. Further testing will be done in preparation for demolition and coordination will be made with the State Department of Health Asbestos Abatement Office of the Noise, Radiation and Indoor Air Quality Branch. No hazardous waste discharges, injection wells, or underground storage tanks are included as part of the proposed project and therefore no hazardous waste is anticipated to be generated. No further mitigation measures are therefore proposed for the ongoing operations of the proposed project. Given the age of the existing MWH facilities and the initial finding of lead-based and lead-containing paint and asbestos in one of the existing buildings, Hawai‘i Public Housing Authority and MWH Partners, LLC will coordinate with the State Department of Health Asbestos Abatement Office of the Noise, Radiation and Indoor Air Quality Branch prior to demolition and work with contractors who are specifically trained in lead-based paint and asbestos containing materials abatement to safely remove these hazardous materials and limit any potential exposure to residents who may be onsite during demolition. Demolition activities associated with the proposed project would be subject to the requirements of Title 11 Hawai‘i Administrative Rules (HAR), DOH,

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
		Chapter 501, "Asbestos Requirements." The proposed project would complete an Asbestos Renovation/Demolition Survey to determine the potential for the presence of asbestos containing materials. Additionally, all demolition and construction activities would adhere to the provisions of the State Department of Health Construction and Demolition Waste Disposal General Guidance to ensure proper handling of potentially contaminated materials. Full inspections by certified inspectors will be carried out prior to demolition and a lead-based paint and an asbestos-containing materials abatement plan will be developed with all required federal, State, and City agencies prior to demolition. All abatement work will be performed per all applicable State and federal requirements and guidelines. Upon completion of the work, all required clearances will be provided for the abated areas of work and lead based paint chips will be HEPA-vacuumed from the surrounding ground and placed in DOT-approved disposal containers. All material disposal manifests will be provided from certified disposal sites upon final disposition of the hazardous materials. A Phase II Environmental Site Assessment (ESA) was completed by Weston Solutions, Inc. (WESTON) in July 2018. It is attached as Exhibit 6. The objective of the Phase II ESA was to evaluate the Recognized Environmental Conditions at locations identified during WESTON's Phase I ESA (June 2016). The Phase II ESA activities were conducted in April 2018 and included: the collection and analyses of soil samples from 14 soil borings; collection and analysis of surface soils from three decision units; and collection and analysis of groundwater samples collected from four newly installed, temporary, down gradient wells.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
		The WESTON report found no soil sample results collected from soil borings above the State Department of Health Unrestricted Environmental Action Levels (EAL). However, two out of three decision units (DU-06 and DU-35) tested above the HDOH Unrestricted EAL for lead. In addition, one groundwater sample result (GW-01) initially tested above the State Department of Health Unrestricted EAL for bromomethane and therefore was retested. Upon resampling GW-01, the bromomethane result was found to be below the Unrestricted EAL, making all groundwater results below the State Department of Health Unrestricted EALs for all analyzed contaminants. Based on the results and conclusions of the Phase II ESA, lead has been identified in soil at the subject property at concentrations above the Unrestricted Use EAL that may require additional activities to be performed. WESTON recommended the following: • Additional multi-incremental sampling should be performed around all buildings in order to evaluate the lead contamination throughout the Site. • All contaminated soil above the Unrestricted Use EAL should be excavated and disposed of. Waste characterization soil samples should be collected and analyzed by toxicity characteristic leaching procedure to ensure proper disposal at an appropriate landfill. MWH Partners will comply and follow-up with the above recommended mitigation.

ATTACHMENT 4

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes ☒ No ☐	Mitigation required. An Archaeological Inventory Survey, a reconnaissance level survey of historic architectural resources, and a Cultural Impact Assessment were completed for the proposed project. The reconnaissance level survey has been accepted by the State Historic Preservation Division of the State of Hawai‘i Department of Land and Natural Resources. The reconnaissance level survey and the State Historic Preservation Division’s acceptance letter are attached as Exhibit 9. The reconnaissance level survey included all buildings within the MWH project site as well as those within a roughly one- to one and a half-block radius of the site. Of the 161 properties examined, two are presently listed in either the Hawai‘i or National Registers of Historic Places. In addition, another 47 properties appear to meet the criteria for listing in the Hawai‘i and National Registers for their associations with the architectural traditions of Hawai‘i; of these 47 properties, six are already identified in the Statewide Inventory of Historic Places. An additional thirteen properties within the area of potential effects may be potentially eligible once they meet the 50-year age requirement. Three properties were determined to be ineligible as individual properties but are eligible as contributing features to a historic district. Unknown determinations were given to thirteen properties as they were not visible from the public right-of-way. The remaining 83 properties do not appear to meet the criteria for listing in either historic register. Five historic properties were found on the same block as the MWH property and two possible historic

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		districts were identified outside the boundaries of the MWH property. See Figure 18. The existing buildings within the MWH site were previously identified as being eligible for listing in the Hawai‘i or National Registers of Historic Places under Criterion “A” for its association with significant historic events. In this case, it involves MWH's relationship with the development of public housing in Hawai‘i. Therefore, the Governor of the State of Hawai‘i as the Responsible Entity has determined in consultation with the State Historic Preservation Division that the demolition of the existing structures and proposed undertaking will have an adverse effect that will require mitigation. With regards to the Archaeological Inventory Survey, no further work was recommended by the archaeologist, TCP Hawaii (TCP), for the four newly identified subsurface sites found on the MWH property. The evidence gathered during TCP's fieldwork indicated the presence of a project-area wide grading/bulldozing event that appears to have leveled the entire property of any previous structural remains. Also, no basalt boulders typically related to potential traditional, Hawaiian rock-structural remains were found in the excavated trenches other than late historic/early modern pit fills. There was also no naturally-occurring deposits of clean beach or dune sand that typically contain traditional Hawaiian burials found in the test trenches and historical evidence shows that almost the entire project site was a network of lo‘i (pond-field kalo gardens) including lo‘i iloko (kalo pond-field also used as a fishpond) and related house sites in the mid-1800s. By the

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		early 1900s, these ponds were being filled and covered by various low-rise structures and tenement (multifamily) housing, which would then be completely replaced by MWH in 1952. All of these historic properties have been evaluated as significant under Criteria d (State) and D (Federal) for their intrinsic informational value to research on the history and prehistory of Honolulu, its urbanization, and the advent of public housing in the State of Hawai‘i. Based on the State Historic Preservation Division's review of the Archaeological Inventory Survey report and recent consultation with the State Historic Preservation Division, sufficient documentation of the four (4) historic properties identified in the Archaeological Inventory Survey report is complete, and no further archaeological or historic preservation work is needed for these sites. Also, based on consultation with the State Historic Preservation Division, the inventory and identification process for the Archaeological Inventory Survey is complete. However, since there is always a possibility of encountering unexpected cultural resources in urban Honolulu, Archaeological Monitoring in accordance with HAR § 13-13-279 will be conducted during ground-disturbance associated with construction activities for this project. Therefore, under HRS § 6E, a determination of "Effect, with proposed mitigation commitments" (cf. HAR § 13-13-275-7) has been made. Under Section 106 (36 CFR §800.5), a finding of "No Adverse Effect" is proposed for archaeological resources. Finally, prior to commencement of construction, MWH Partners, LLC shall prepare and submit to the

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		State Historic Preservation Division for its approval an Archaeological Monitoring Plan meeting the requirements of HAR §13-279-4. All ground-disturbing work shall proceed in accordance with the approved Archaeological Monitoring Plan. The Archaeological Inventory Survey and the State Historic Preservation Division's acceptance letter are attached as Exhibit 10. As part of the above efforts, Chapter 6E, Hawai‘i Revised Statutes (HRS) and Section 106 consultation under the National Historic Preservation Act (NHPA) between the Hawai‘i State Historic Preservation Division and Hawai‘i Public Housing Authority were initiated. A Cultural Impact Assessment was also completed for the proposed project and is attached as Exhibit 11. According to the information provided by former and current residents of MWH, a potential cultural impact from the project may result from the inability of different ethnic groups to participate in culturally important activities, which they are currently restricted from as well. These impacts include, but are not limited to, the ability for groups to hold and participate in culturally significant gatherings and festivals, growing traditional crops and other foods for their own use, and engaging in any customary outdoor activities that require access to open space. The Cultural Impact Assessment concluded that the extensive cultural information gathered for the MWH warrants recommendations for cultural and community elements of the redevelopment project. The following recommendations for the redevelopment of MWH are based on information from formal interviews conducted

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		for the Cultural Impact Assessment as well as previous oral-history projects: • Include places where the tenants can plant small gardens in order to live in the Hawaiian lifestyle they grew up with, and to be allowed to grow culturally-significant plants such as ti leaf and others (e.g., bananas, papaya, ginger, plumeria, etc.). • Include a funding stream whereby community programs, events and activities are designed and implemented that bring people of different ethnic/cultural groups together, and that provide safe and healthy activities for kids and teens. These programs, events and activities could include traditional and customary (cultural) practices that highlight the different groups that call MWH their home. The idea here is to help build community. • Develop a community-based garden program at the redeveloped MWH property so that residents can benefit from the raising and eating of fresh food. Well into the 20th century, major portions of the MWH property were still being used to grow food, including taro and other crops. Historic maps from as late as the 1920s show this continuing pattern of land use. Therefore, this recommendation about starting a community garden project or program would be consistent with the history of this place. The proposed conceptual plan includes a mix of community spaces where people can gather, recreate, and celebrate. At the heart of the plan is a park with a community center and a

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		multipurpose hale where community activities can be held as well as informal gatherings for family and friends. In addition, the initial landscape concept incorporates several community gardens and raised food gardens throughout the site where future residents can grow their own food. Culturally significant plants and lei plants will also be considered in the landscape design of the project so the plantings can serve multiple purposes of being useful as well as providing shade, comfort, and aesthetics. MWH Partners, LLC are also committed to providing onsite community and social services to support future residents as well as partnering with neighboring service providers to complement the services already available in the larger community. These may include and are not limited to childcare and afterschool activities, education and job training, elder care and support, food distribution and summer meals, and resident associations. Also, community festivals and celebrations may be held to commemorate the holidays and provide opportunities where the different ethnic groups can share their cultural traditions with other residents in the community. In July 2018, the Hawai‘i Public Housing Authority and MWH Partners, LLC prepared and delivered over 100 letters of invitation and accompanying background materials describing the proposed undertaking and its potential to affect historic properties to organizations and individuals with a potential interest in the proposed undertaking and its potential to affect historic properties. This invitation was sent to all

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		Native Hawaiian Organizations identified on the *Native Hawaiian Organization Notification List* published by the U.S. Department of the Interior, and maintained by the Office of Native Hawaiian Relations, to identify any Native Hawaiian Organizations and/or Native Hawaiian descendants who may have ancestral lineal or cultural ties, knowledge, or religious attachment or concerns regarding the proposed undertaking. The letter and related materials including the distribution list are attached as Exhibit 12. Three parties responded to the invitation and, of these, only the Historic Hawaii Foundation, a Hawaii nonprofit corporation, expressed a desire to participate in consultation as a consulting party. In accordance with 36 CFR § 800.6(a)(1), the Hawai‘i Public Housing Authority also notified The Advisory Council on Historic Preservation (ACHP) of the adverse effect determination and sent a completed e106 form and related submittals. The ACHP confirmed receipt of the e106 submittal on October 9, 2018. On October 25, 2018, the ACHP sent a letter to the Hawai‘i Public Housing Authority stating that based on the information submitted, they concluded that *Criteria for Council Involvement in Reviewing Individual Section 106 Cases*, of their regulations, “Protection of Historic Properties” (36 CFR §800), did not apply to this undertaking. Accordingly, they did not believe their participation in the consultation to resolve adverse effects was needed. This letter is attached as Exhbit 13. A memorandum of agreement (MOA) was executed by the Responsible Entity, the Hawai‘i

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STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
		Public Housing Authority, the State Historic Preservation Division, MWH Partners LLC, and the consulting party, the Historic Hawaii Foundation, on November 13, 2019 stipulating the actions required to mitigate the adverse effect of the proposed undertaking. In summary, the agreed upon mitigation includes: • Documentation of the Mayor Wright Homes Complex in compliance with National Park Service standards prior to demolition and submittal of National Park Services-approved documentation to the State Historic Preservation Division. Once approved by the State Historic Preservation Division, recordation is required at the Hawai‘i State Archives, University of Hawai‘i at Mānoa, and other local repositories; • Project design review by the State Historic Preservation Division and the Historic Hawaii Foundation at the schematic design and design development stages of the project to minimize or mitigate potential adverse effect to directly adjacent eligible historic properties; • Documentary film production for educational purposes of the redevelopment effort and exploration and celebration of the unique history of MWH including a minimum of two oral histories of current or former residents; • Community education including interpretive materials on the Liliha/Pālama neighborhood, Native Hawaiian history of the area, summary of the historic aspects of MWH and its significance as public housing, identification of other eligible historic sites in the Liliha/Pālama

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		neighborhood, and installation of at least five interpretive signs/displays by the time of occupancy of Phase 1 of the project; • Project construction mitigation including historic architectural pre-construction inspection surveys and noise and vibration controls including proper construction machinery use and maintenance; • Archaeological monitoring in accordance with a State Historic Preservation Division-approved archaeological monitoring plan; • Procedures requiring work to cease should additional archaeological or human remains be found during construction and proper notification and documentation occur per State and federal requirements; and • Annual summary written report submitted to all parties of the MOA detailing the work undertaken, scheduling changes that may materially affect the project timeline, and any problems encountered. Meetings will be held as necessary to resolve any issues. Although not specifically stipulated in the MOA, all building permits will also be routed to the State Department of Land and Natural Resources Historic Preservation Division for review. The MOA is attached as Exhibit 14.

ATTACHMENT 5

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STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes ☒ No ☐	A Noise and Vibration Study was conducted for the MWH by Terry A. Hayes Associates, Inc. in July of 2017 to comply with applicable federal, State, and local regulations for noise and vibration. The following is a summary of the noise analysis; the entire report is attached in Exhibit 15. Current sources of noise in the vicinity of the MWH include nearby roadways and the H-1 Freeway. Additional sources may include surrounding land uses such as churches, schools, a recycling facility, and a service station as well as nearby apartments across Pua Lane and Kanoa Street. The project site is located over five miles from Hickam Air Force Base and over three miles from the Daniel K. Inouye International Airport. Existing noise levels are analyzed by the Day-Night Noise Level (Ldn), or the average noise over a 24-hour period. Noise levels were monitored at four on-site points along the project boundaries that included North Vineyard Boulevard, Liliha Street, Pua Lane, and North King Street. The on-site monitoring locations showed Ldn measurements ranging from 54.7 dBA to 67.8 dBA for the different points of measurement, with an average 24-hour Ldn of 64.0 dBA for the entire project site. **Construction Activities.** Construction activities for the redevelopment are expected to have temporary increases in ambient noise levels in the project area on an intermittent basis. Noise levels would fluctuate depending on the construction phase and type of construction activity (e.g. demolition, site preparation, pile driving, if necessary, etc.), equipment type and duration of use, distance between the noise source and receptor, and presence or absence of noise attenuation barriers

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STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
		and require mitigation. Construction noise levels in the vicinity of the project site would exceed the allowable noise levels listed by the State Department of Health Noise Reference Manual Oahu Edition for local levels as well as the allowable noise levels listed by the HAR for state-wide levels. Construction activity would typically only occur from 7:00 a.m. to 6:00 p.m., Monday through Friday and 9:00 a.m. to 6:00 p.m. on Saturdays, Sundays, and holidays, which would help to minimize potential adverse effects to residents and neighboring properties from construction noise and vibration. In addition, to minimize the potential adverse effects related to construction noise, the following is recommended: • The project applicant shall obtain a noise permit associated with exceeding a noise level of 78 dBA Leq as discussed in the Noise Reference Manual O‘ahu Edition. • The project applicant shall obtain a noise permit associated with exceeding the maximum permissible noise levels discussed in the Hawai‘i Administrative Rules. • The construction contractor shall use specialty equipment with enclosed engines and/or high-performance mufflers. • The construction contractor shall locate equipment and staging areas as far from noise-sensitive receivers as practicable. • The construction contractor shall limit unnecessary idling of equipment. • The construction contractor shall install temporary noise barriers to enclose stationary noise sources, such as compressors, generators, laydown and staging areas, and other noisy equipment.

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STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
		• Prior to the commencement of construction activities, notification shall be provided to the on-site residential uses that discloses the construction schedule, including the various types of activities and equipment that would be occurring throughout the duration of the construction period. • A "noise disturbance coordinator" shall be established. The noise disturbance coordinator shall be responsible for responding to any local complaints about construction noise. The noise disturbance coordinator shall determine the cause of the noise complaint (e.g., starting too early, bad muffler, etc.) and shall be required to implement reasonable measures such that the complaint is resolved. All notices that are posted at the construction site shall list the telephone number for the noise disturbance coordinator. **Operational Activities.** Noise generated from project operation once construction is complete will be primarily due to traffic. The project's contribution to mobile noise sources were calculated for 50 percent build out and full build-out. The proposed project's contribution to mobile source noise levels would be less than 3 dBA for both study periods and would not result in an adverse effect related to increasing noise levels at on-site or off-site sensitive receptors. Stationary noise generated at the site would primarily be generated from the operation of ventilation and air conditioning systems. Although the precise locations of these systems are unknown until detailed site plans are created, the described stationary noise sources may

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		potentially exceed the maximum permissible sound levels as detailed in the HAR. Therefore, mitigation will include requiring enclosures for mechanical equipment, such that noise levels do not exceed the maximum permissible noise levels listed in the Hawai‘i Administrative Rules. In addition to noise generated by the proposed project, the Honolulu Authority for Rapid Transportation rail system is anticipated to be operational in the year 2025 and will operate approximately 660 feet to the southwest of the project site along Dillingham Boulevard and Ka‘a‘ahi Street. The Federal Transit Administration has stated that light rail transit projects have no potential to impact sensitive land uses and distances greater than 350 feet away and therefore noise from the future rail operations are not anticipated to adversely impact the MWH Redevelopment project. The State Department of Transportation noted that the project site is located approximately 2.6 miles from the end of runway 26R of the Daniel K. Inouye International Airport (HNL) and is therefore within the 55-60 day-night average sound level (DNL) contour of the 2008 (Forecast) Five-Year Noise Exposure Map. The Federal Aviation Administration (FAA) has published land use compatibility guidelines that can be used to assess potential noise impacts to new development projects. The guidelines indicate that residential land uses exposed to aircraft-related noise levels of less than 65 dBA Ldn are compatible with the ambient noise environment. The current HNL noise contours indicate that the project site is located in a compatible noise environment related to aircraft activities and although single event noise from aircraft operations exceeding 65 DNL may be audible at the project site, depending on multiple

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		variables, including time of day and type of plane, single event noise levels as measured at the site were not found to be excessive during day or night time periods. In addition, it is anticipated that interior noise levels would be consistent with applicable HUD standards for new residential development and would therefore help mitigate any single event noise generated by aircraft activities.

ATTACHMENT 6

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

Impact Codes: Use an impact code from the following list to make the determination of impact for each factor.
(1) Minor beneficial impact
(2) No impact anticipated
(3) Minor Adverse Impact – May require mitigation
(4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
Conformance with Plans/Compatible Land Use and Zoning/Scale and Urban Design	3	State Land Use Designation: *Urban* City and County of Honolulu General Plan Development Pattern: *Supportive and Consistent* City and County of Honolulu Primary Urban Center Development Plan Land Use Designation: *Medium and Higher-Density Residential/Mixed Use* and *District Commercial* City and County of Honolulu Zoning Designation: *Medium Density Apartment (A-2)* City and County of Honolulu Downtown Neighborhood Transit-Oriented Development (TOD) Plan: *Urban Mixed Use-Medium* and *Medium Density Residential* *Permitted Floor Area Ratio (FAR): 7.5* *Permitted Building Heights: 400'* The State's "Urban" land use district is described as generally including, "lands characterized by 'city-like' concentrations of people, structures and services. This District also includes vacant areas for future development." The project is considered compatible and in conformance with the State's "Urban" designation. (See Figure 21.)

Environmental Assessment Factor	Impact Code	Impact Evaluation
		Figure 23 illustrates the desired overall development pattern for the island of Oʻahu with the highest concentration of people targeted for the PUC. The proposed project is located in the heart of the urban core of Honolulu. Thus, the MWH Redevelopment is consistent with the pattern of population distribution sought by the City & County of Honolulu's General Plan. The City and County of Honolulu's Development Plans (DPs) represent eight geographic regions that include all areas of Oʻahu. Kalihi-Pālama is located in the Primary Urban Center Development Plan. The proposed project is consistent with its designation as Medium and Higher-Density Residential/Mixed Use with the corner of Liliha and North King Streets designated as District Commercial. See Figure 24. The proposed MWH Redevelopment is also consistent with the Primary Urban Center Development Plan's policies for cultivating livable in-town neighborhoods. The MWH Redevelopment will provide a convenient and efficient mix of residential, commercial, recreational and community uses, with 2,448 residential units, up to 80,000 square feet of commercial and community services, parks and recreational facilities, all within walking distance from the future Iwilei transit station. The site is currently zoned Medium Density Apartment (A-2), intended primarily for concentrated urban areas where public services are centrally located, and infrastructure capacities are adequate. The A-2 zoning permits a maximum floor area ratio (FAR) of 1.9 and a height limit of 150 feet. See Figure 25. The proposed MWH Redevelopment is not consistent with the A-2 FAR and building height requirements. However, the project is consistent with the City and County of Honolulu's (City) adopted Downtown Neighborhood TOD Plan (TOD Plan), which permits a maximum building height of 400 feet and FAR up to 7.5 on the current site (see Figure 27 and Figure). The TOD Plan Land Use Map also designates property along Liliha Street and North Vineyard Boulevard as "Urban Mixed Use-Medium," and a portion along North King Street and in the interior of the property as "Medium Density Residential (Figure 26)." The proposed MWH Redevelopment project is consistent with the Downtown Neighborhood TOD Plan's vision to transform the Iwilei area around the future rail station into "a new high-intensity mixed-use Iwilei district as an extension of Downtown." It is also consistent with the TOD Plan's desired implementation action of increasing the development of affordable housing on public lands (Dyett and Bhatia, 2017). The Honolulu City Council adopted the August 2017 version of the Downtown Neighborhood TOD Plan on September 6, 2017 as City Council Resolution No. 16-247,

Environmental Assessment Factor	Impact Code	Impact Evaluation
		CD1, FD1. A 201H Housing Program exemption for the existing zoning will be sought from the City to allow the project to be developed under the City's adopted TOD Plan recommendations for FAR and building height limits. The project team expects to submit the 201H applicatiom to the City Spring 2020. **Viewplanes.** The site affords mauka (mountain) views of upper Liliha, Nu'uanu Valley and the Ko'olau Mountain Range in the distance. The best mauka views can be experienced from the Liliha Street view corridor, directly adjacent and to the property. Mauka views directly adjacent to the property are urban in nature and include views of North Vineyard Boulevard, abutted by low to mid-rise commercial and multi-family residential buildings, and Pālama Settlement to the northeast. Views looking northwest from the property include Pua Lane, a two-lane roadway with on-street parking, abutted by single and multi-family residential buildings, parking lots, and commercial land uses. Views looking makai/southwest of the property include low-rise buildings (up to four stories) which front North King Street, views of the commercial land uses, and car dealerships near the Liliha Street/North King Street intersection. Views looking southeast include a row of monkey pod trees and grass on the Diamond Head side of Liliha Street and Kukui Gardens, a multi-family residential complex. Some of the taller buildings in downtown Honolulu are also visible to the east of the property, past the buildings of Kukui Gardens. The location of the future rail line will be located makai of the project site as well as the Iwilei Station. The transit line will be elevated above grade and will likely be visible makai of the project site once it is built. The architectural reconnaissance level survey (Exhibit 9) undertaken for buildings within the MWH Redevelopment and the surrounding areas notes five historic properties were found on the same block as the MWH property as potential buildings for listing in the Hawai'i and National Registers (Figure 18). Other properties eligible for listing were identified directly across the street from MWH Redevelopment on North Vineyard Boulevard, Pua Lane and North King Street. The proposed project as currently conceptualized includes four towers with adjoining lower-(four to six stories) and mid-rise podiums (up to ten stories). The MWH Redevelopment may impact distant panoramic views of natural landmarks such as Lē'ahi Crater, Pūowaina Crater, Āliamanu Crater, and the Ko'olau Mountain Range from certain viewpoints. However, the visual impacts from the project must take into consideration the existing highly urban nature of this area and viewshed with taller buildings in Downtown Honolulu and surrounding areas extending up to about 430 feet in height. Closer to the project, the impact to

Environmental Assessment Factor	Impact Code	Impact Evaluation
		mauka-makai views from Sand Island and other viewpoints should also take into consideration the urban context surrounding the property. Residential towers in the vicinity of the project area, on Liliha Street and A‘ala Street range in height from 15 to 23 stories. While views to specific landmarks from various viewpoints in the area may be altered by the proposed project, the overall urban character of this viewshed will not be significantly altered. Visual impacts from the project must take into consideration the highly urban nature of this viewshed with buildings in Downtown Honolulu extending up to about 430 feet in height. While views to specific landmarks from various viewpoints within the Primary Urban Center may be altered by the proposed project, the overall urban character of this viewshed will not be significantly altered. The plan attempts to mitigate visual impacts by: • Providing fewer towers with low- and mid-rise buildings comprising most of the street-facing building massing and space between the towers to preserve distant views where possible; • Activating the street level views with landscaping and pedestrian-friendly streetscapes, commercial uses and lower- and mid-rise residential buildings wherever possible; • Creating a more interesting skyline by varying building heights; • Setting the towers 50 feet back from Pua Lane and Liliha Streets to minimize their visual impacts from the street level of adjacent neighborhoods; and • Orienting the towers with their narrower sides facing the mauka and makai sides of the site and their wider side facing east and west to preserve mauka to makai views. Further, the community vision and guiding principles, which provide the foundation of the Downtown Neighborhood TOD Plan, is for Downtown Honolulu to “…continue to be the region’s premier employment center with substantial resident population and easy access to stores and everyday amenities.” The community vision calls for “a new high-intensity mixed-use Iwilei district as an extension of Downtown” to create a new image for Downtown Honolulu. The Overall Concept described in the TOD Plan, states: “The most transformative vision for TOD in the Downtown neighborhood is a new high-intensity mixed-use Iwilei district. This new full-service neighborhood, with residences, public facilities and neighborhood shopping services, serves as an extension of Downtown and Kalihi. It creates an

Environmental Assessment Factor	Impact Code	Impact Evaluation
		opportunity for new housing within walking distance of Chinatown and Downtown." The plan also noted that the tallest heights and highest intensities are anticipated around the Iwilei Station and mauka of the Downtown Station. The adopted Downtown Neighborhood TOD Plan allows an FAR up to 7.5 and maximum building heights of 400 feet for the project site. Therefore, the proposed conceptualization of the MWH Redevelopment project is consistent with what is permitted for the site under the TOD Plan.
Soil Suitability/ Slope/Erosion/ Drainage/Storm Water Runoff	2	The site is an existing urbanized area. The site is relatively flat, sloping gently from ~27 feet above mean sea level along North Vineyard Boulevard to roughly nine feet above mean sea level along North King Street with an average slope of 2 percent across the property. More detailed drainage analysis will be completed to assess the existing offsite drainage system and proposed improvements, also considering the effects of sea level rise on the project's drainage system using the best available science and standards as detailed design is developed. However, the design will retain the net increase in runoff due to the project onsite in order to minimize impacts to adjacent facilities and potential impacts to surface waters and adhere to all requirements of the City's newly adopted "Rules Relating to Water Quality," which went into effect on August 16, 2017. This project is categorized as Priority A under these rules. The proposed project will also implement low impact development design wherever feasible. The implementation of best practices for erosion control during construction and sewer connection to the municipal wastewater system will mitigate potential impacts to surface waters at the site or secondary impacts to downstream coastal resources. The proposed project will be designed to direct onsite storm water runoff away from the buildings and structures toward open grassed or catchment basins. Establishment of permanent landscaping will serve as long-term erosion control for unpaved areas with rainwater catchment proposed for onsite stormwater control. Rainwater will be reused onsite to the maximum extent possible. A National Pollutant Discharge Elimination System permit for Storm Water Associated with Construction Activity will be necessary since the entire site will be developed and it is roughly 14.8 acres in size and each development phase is anticipated to exceed an acre. The USDA NRCS Soil Survey classifies the majority of the site as primarily 'ewa silty clay loam, moderately shallow, 0-2% slopes. This soil is characterized by very slow runoff and no more

Environmental Assessment Factor	Impact Code	Impact Evaluation
		than a slight erosion hazard. Depth to coral or limestone is 20 to 50 inches. Shrink-swell potential is moderate and corrosivity to steel and concrete is low. Less than one percent of the parcel area contains Kaena clay, 2–6% slopes, located at the farthest north-east corner of the parcel. Runoff is slow and the erosion hazard is slight. This soil has a high shrink-swell potential and its corrosivity to steel and concrete are low. Data and information can be found in Figure 9, Exhibit 8 or at http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
Hazards and Nuisances including Site Safety and Noise	3	**Noise and Vibration.** A Noise and Vibration Study was conducted for the proposed project by Terry A. Hayes Associates, Inc. in July of 2017 to comply with applicable federal, State, and local regulations for noise and vibration. The following is a summary of the analysis; the entire report is attached in Exhibit 15. Although the proposed project will be 2,448 units, the noise study rounded up to the nearest order-of-magnitude of 2,500 units to conservatively provide analyses of maximum impact. Construction activities for the redevelopment are expected to have temporary increases in ambient noise levels in the project area on an intermittent basis. Noise levels would fluctuate depending on the construction phase and type of construction activity (e.g. demolition, site preparation, pile driving, if necessary, etc.), equipment type and duration of use, distance between the noise source and receptor, and presence or absence of noise attenuation barriers and require mitigation. Construction noise levels in the vicinity of the project site would exceed the allowable noise levels listed by the State Department of Health *Noise Reference Manual Oahu Edition* for local levels as well as the allowable noise levels listed by the HAR for state-wide levels and will require a Noise Permit from the State Department of Health. Construction activity would typically only occur from 7:00 a.m. to 6:00 p.m., Monday through Friday and 9:00 a.m. to 6:00 p.m. on Saturdays, Sundays, and holidays, which would help to minimize potential adverse effects to residents and neighboring properties from construction noise and vibration. In addition, to minimize the potential adverse effects related to construction noise, the following is recommended: • The project applicant shall obtain a noise permit associated with exceeding a noise level of 78 dBA Leq as discussed in the Noise Reference Manual O‘ahu Edition. • The project applicant shall obtain a noise permit associated with exceeding the maximum permissible noise levels discussed in the Hawai‘i Administrative Rules.

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		• The construction contractor shall use specialty equipment with enclosed engines and/or high-performance mufflers. • The construction contractor shall locate equipment and staging areas as far from noise-sensitive receivers as practicable. • The construction contractor shall limit unnecessary idling of equipment. • The construction contractor shall install temporary noise barriers to enclose stationary noise sources, such as compressors, generators, laydown and staging areas, and other noisy equipment. • Prior to the commencement of construction activities, notification shall be provided to the on-site residential uses that discloses the construction schedule, including the various types of activities and equipment that would be occurring throughout the duration of the construction period. • A "noise disturbance coordinator" shall be established. The noise disturbance coordinator shall be responsible for responding to any local complaints about construction noise. The noise disturbance coordinator shall determine the cause of the noise complaint (e.g., starting too early, bad muffler, etc.) and shall be required to implement reasonable measures such that the complaint is resolved. All notices that are posted at the construction site shall list the telephone number for the noise disturbance coordinator. Noise generated from project operation once construction is complete will be primarily due to traffic. The project's contribution to mobile noise sources were calculated for 50 percent build out and full build-out. The proposed project's contribution to mobile source noise levels would be less than 3 dBA for both study points and would not result in an adverse effect related to increasing noise levels at on-site or off-site sensitive receptors. In addition to traffic noise, the Honolulu Authority for Rapid Transportation is anticipated to be operational in the year 2025 and will operate approximately 660 feet to the southwest of the project site along Dillingham Boulevard and Kaʻaʻahi Street. The Federal Transit Administration has stated that light rail transit projects have no potential to impact sensitive land uses and distances greater than 350 feet away and therefore noise from the future rail operations are not anticipated to adversely impact the MWH Redevelopment project, which is about a third of a mile from the future Iwilei rail station and guideway.

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		Stationary noise generated at the site would primarily be generated from the operation of ventilation and air conditioning systems. Although the precise locations of these systems are unknown until detailed site plans are created, the described stationary noise sources may potentially exceed the maximum permissible sound levels as detailed in the HAR. Therefore, mitigation will include requiring enclosures for mechanical equipment, such that noise levels do not exceed the maximum permissible noise levels listed in the Hawai‘i Administrative Rules. Temporary vibration impacts will occur during construction. Construction activity can result in varying degrees of ground vibration based on the equipment and methods used for construction. Several buildings about the project site and several potentially sensitive buildings near the site were identified. Site visits performed by Terry A. Hayes Associates suggest that the majority of these buildings were constructed using engineered concrete and masonry. Federal guidance indicates that such buildings can withstand up to 0.3 inches per second without experiencing damage. The use of construction equipment that would produce high levels of vibration, such as large bulldozers, jack hammers, and load trucks, could exceed this criterion if occurring within 11 feet of the buildings. However, the neighboring Fujii Store and Tenement Houses would be held to the vibration standard for historic resources, which federal guidance indicates that such buildings can withstand up to 0.12 inches per second without experiencing damage. Vibration levels from construction equipment such as a large bulldozer would be 0.0039 at 200 feet and there is no potential for vibration to damage to historic structures located at a distance of 22 feet or greater. However, the Fujii Store and Tenement Houses are adjacent to the project site and could experience vibrations levels above the 0.12 inches per second threshold and therefore require additional mitigation as noted below. In order to mitigate construction-related vibration impacts, construction activity should typically only occur from 7:00 a.m. to 6:00 p.m., Monday through Friday and 9:00 a.m. to 6:00 p.m. on Saturdays, Sundays, and holidays. In addition, to help minimize potential adverse effects associated with damage to adjacent buildings, mitigation measures for construction vibration will include the following for the sensitive structures located close to proposed construction activities: • Prior to issuance of a grading/shoring permit, a qualified structural engineer shall survey the existing foundation and structural integrity of off-site buildings that will be located within 11 feet of large bulldozers and similar vibration-

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		generating equipment and at the Fujii Store and Tenement Houses. The survey shall be submitted to the appropriate mitigation monitor. At the conclusion of vibration causing activities, the qualified structural engineer shall issue a follow-on letter describing damage, if any, to the adjacent buildings. The letter shall identify recommendations for any repair and certify the completion of any repairs as necessary to confirm the integrity of the foundation and structure of the adjacent buildings. • If the construction plans call for high-vibration construction activities being performed close to structures, the contractor may be required to use alternative procedures that produce lower vibration levels. Examples of high-vibration construction activities include the use of pavement breakers, vibratory compaction, and hoe rams next to sensitive buildings. Alternative procedures shall include the use of non-vibratory compaction in limited areas and concrete saws in place of jackhammers or pavement breakers for demolition. • If piles are required to support new structures, pile driving shall be prohibited in places of cast-in-drilled-hole (CIDH) piles or caissons. There are also several historic structures near the project site, including the Pālama Theater located approximately 200 feet to the west, Kaumakapili Church located approximately 420 feet to the northwest, Tamashiro Market located approximately 690 feet to the northwest, and O‘ahu Railway and Land Company Depot – Honolulu Station located approximately 800 feet to the southwest. Federal guidance indicates that such buildings can withstand up to 0.12 inches per second without experiencing damage. Vibration levels from construction equipment such as a large bulldozer would be 0.0039 at 200 feet and there is no potential for vibration to damage to historic structures located at a distance of 22 feet or greater. During ongoing operations once construction is complete, the proposed project would not include significant stationary sources of ground-borne vibration. Operational ground-borne vibration in the project vicinity would be generated by vehicular travel on the local roadways. However, similar to existing conditions, project-related traffic vibration levels would not be perceptible outside the roadway right-of-way. Therefore, the proposed project would not result in adverse effect related to the operational vibration. **Fugitive Dust and Emissions.** An air quality study was conducted for the proposed project by Terry A. Hayes Associates, Inc. in July of 2017. The following is a summary of the analysis; the entire report is attached in Exhibit 20.

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		Prior to construction of the proposed project, existing structures on the project site would be demolished and the associated materials would be removed. The existing structures on the project site contain lead-based paint and asbestos, and all demolition projects within the State of Hawai‘i must notify the Department of Health Asbestos Abatement Office of the Noise, Radiation and Indoor Air Quality Branch prior to commencement of activities. Accordingly, demolition activities associated with the proposed project would be subject to the requirements of Title 11 Hawai‘i Administrative Rules (HAR), DOH, Chapter 501, “Asbestos Requirements.” The proposed project would complete an Asbestos Renovation/Demolition Survey to determine the potential for the presence of asbestos-containing materials. Additionally, all demolition and construction activities would adhere to the provisions of the State Department of Health Construction and Demolition Waste Disposal General Guidance to ensure proper handling of potentially contaminated materials. Construction activity would generate emissions through the use of heavy-duty construction equipment and through vehicle trips generated by construction workers traveling to and from the project site. Fugitive dust emissions would primarily result from demolition and site preparation (e.g., grading) activities. Nitrogen oxide emissions would primarily result from the use of construction equipment. Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation and, for dust, the prevailing weather conditions. Construction activity would occur over the entire 14.8-acre project site. A project site of this size would typically require an equipment inventory including a maximum of two scrapers and two graders to level the surface. This equipment inventory would potentially disturb up to three acres of the project site on a given day. Using USEPA AP-42 emission factors, it was determined that construction activity would generate up to ten pounds per day of fugitive dust emissions. Construction emissions would be temporary and are not considered adverse. The project will not result in adverse effects related to air quality; however, demolition and construction activity may result in temporary emissions from vehicle exhaust and fugitive dust emissions from ground disturbance. All activities will comply with the relevant provisions of Section 11-60.1-33, HAR, on fugitive dust. Therefore, the following control measures are recommended to reduce fugitive dust emissions:

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		• The construction contractor shall use water or suitable chemicals to control fugitive dust in the demolition of any existing buildings or structures, construction operations, the grading of roads, or the clearing of land. • The construction contractor shall apply asphalt, water, or suitable chemicals on roads, material stockpiles, and other surfaces which may result in fugitive dust. Ensure an adequate water source exists at the site prior to start-up of construction activities. • The construction contractor shall cover all moving, open-bodied trucks transporting materials which may result in fugitive dust. • The construction contractor shall maintain roadways in a clean manner. • The construction contractor shall promptly remove earth or other materials from paved streets which have been transported there by trucking, earth-moving equipment, erosion, or other means. The following control measures are recommended to reduce pollutant exposure to residences during the construction activities: • Staging areas shall be located away from on-site residential land uses to create a buffer and alleviate potential nuisance problems. • On-site electricity shall be obtained from the electrical grid rather than temporary diesel or gasoline generators. • Equipment and vehicle engines shall be maintained in good condition and in proper tune per manufacturers' specifications. • All construction equipment and delivery vehicles shall be turned off when not in use or prohibit idling in excess of five minutes. Haul trucks in particular that stage waiting to be called to remove dirt from the site shall not be allowed to idle while queuing. • Additional care should be taken by contractors to minimize fugitive dust from materials being hauled to or away from the project site and mud and debris tracked onto adjacent roadways. • Contractors should also develop a dust control management plan for the different phases of construction, focusing on minimizing the amount of dust-generating materials and activities, centralizing on-site vehicular traffic routes, and locating potential dust-generating equipment in areas of the least impact. • Provide adequate dust control measures during weekends, after hours, and prior to daily start-up of construction activities.

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		Once construction is completed, the proposed project also does not include a source of direct pollutant emissions. However, indirect sources of emissions include off-site electrical generation activities (for those that are non-renewable) and tailpipe emissions from on-road vehicles and the potential air quality impacts related to the proposed project is therefore analyzed on those sources. Based on the multimodal transportation assessment completed for the proposed project and attached as Exhibit 21, full buildout, which accounted for maximum impact rounding up the potential number of units to 2,500, would introduce approximately 10,085 new daily trips to the project area, including 578 trips during the AM peak hour and 959 trips during the PM peak hour. The maximum peak hour intersection volume in 2028 following full buildout would be approximately 5,069 vehicles at the intersection of North King Street, Dillingham Boulevard, and Liliha Street. Based on carbon monoxide (CO) dispersing models developed to analyze traffic-related impacts, it is projected that the roughly 5,000 vehicles would generate a maximum 1-hour CO concentration of approximately 2.3 ppm. The applicable State 1-hour average CO ambient air quality standard is 9.0 ppm. Therefore, the maximum intersection volume in the project area following full buildout of the proposed project is well below the volume that could potentially exceed the State 1-hour standard for CO. Additionally, the maximum background 1-hour CO concentration measured in the vicinity of the project area was 1.4 ppm in 2015, which is approximately one-sixth of the applicable State 1-hour standard for CO. According to the multimodal transportation assessment, the maximum existing peak hour intersection volume in the project area is 4,439 at the intersection of North King Street, Dillingham Boulevard, and Liliha Street. Under the 2028 full buildout conditions, peak hour volumes at this intersection would be 5,039 vehicles, which represent an increase of approximately 14 percent relative to existing conditions. This incremental increase in maximum peak hour traffic volumes would not have the potential to increase maximum 1-hour CO concentrations in the project area to exceed state standards. Therefore, implementation of the proposed project would not result in potential CO hot spots within the project area. The proposed project would result in indirect greenhouse gas emissions through electricity generation at an off-site facility. The project will require a maximum of 9.7 megawatts of power which would lead to indirect generation of greenhouse gas emissions. Hawai‘i is committed to renewable energy production, which does not generate greenhouse gas emissions. In 2016, 25.8 percent of energy produced by the Hawaiian Electric Companies (HECO) was renewable. Hawai‘i has enacted a law that mandates that all

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		of the State's electricity comes from renewable sources no later than 2045. As HECO continues to achieve those goals, project-related indirect emissions would proportionally decline until 2045, or when the State achieves a fully renewable supply of energy. Project emissions have been conservatively estimated using existing generation information and emission rates. The 2015 Hawai‘i State Electricity Profile indicates that approximately 1,600 pounds of carbon dioxide is emitted per megawatt-hour of electricity used. The analysis assumes that the average daily power use, including nighttime hours, at the project site would be 50 percent of the maximum power load. The indirect emissions from electricity use would be approximately 11,129 metric tons per year. These emissions would quickly decrease through 2045 as the State becomes fully reliant on renewable energy. Hawaiian Electric has stated there is existing capacity to service the project. The project would not interfere with the development of clean energy supplies and would not include a substantial on-site source of greenhouse gas emissions. The proposed project would locate in-fill development near existing public transportation and shopping areas, thereby reducing mobile source emissions compared to development located outside of urban areas. For example, the trip generation analysis prepared for the proposed project anticipates that walking/biking trips would reduce passenger vehicle trips by 10 percent, residential-related transit trips would reduce passenger vehicle trips by 30 percent, and retail related transit trips would reduce passenger vehicle trips by 15 percent at full buildout. Energy conservation features and in-fill development benefits would ensure that the proposed project would not result in a significant greenhouse gas impact. **Tsunami**. The City and County of Honolulu uses three tsunami evacuation designations. The first is the Tsunami Evacuation Zone where evacuation is required for any tsunami warning. The second is the Extreme Tsunami Evacuation Zone where additional areas must be evacuated only during an extreme tsunami event generated from earthquakes of Magnitude 9+ on the Richter scale. Remaining areas are identified as safe areas that are anticipated to be outside of the inundated areas due tom tsunami events. The property is located outside the Tsunami Evacuation Zone but portions closest to North King Street fall within the Extreme Tsunami Evacuation Zone (Figure 13). The portions of the site located in the Extreme Tsunami Zone will be required to be evacuated to safe areas on the mauka side of the site or further mauka to North Vineyard Boulevard. Mitigation for the project may also include designing the structures to be flood-

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		proof particularly on the lower floors and built to resist the effects of a tsunami and storm surges. Essential equipment should also be located on higher floors. Vertical evacuation is recommended for multistory buildings such as condos or hotels with a large concrete frame that is built to seismic standards, particularly those taller than six stories (FEMA, 2009). **Sea Level Rise and Climate Adaptation.** Sea level rise of one meter is not anticipated to have significant, immediate impacts to flooding at the project site. Figure 14 shows the simulated one-meter sea level rise in relation to the project site generated by the National Oceanic and Atmospheric Administration (NOAA) Coastal Storms Program and Dr. Chip Fletcher at the University of Hawai‘i School of Ocean and Earth Science and Technology. However, adaptation and resiliency measures should be considered for improving the safety of future residents and longevity of the proposed facilities, landscaped areas, and essential infrastructure serving the project such as water, sewer, electrical, drainage, and roadways as secondary impacts from global climate change such as extreme weather events or worsening sea level rise may still impact the project. The MWH Redevelopment is most at risk of damage from extreme weather events and the loss of service of critical infrastructure. The project including all structures, landscaping, and vital infrastructure should be designed to withstand water inundation and extreme weather events wherever feasible. Essential equipment will also be located on higher floors wherever feasible. Consideration will also be given to the strategies recommended by the U.S. Army Corps of Engineers such as: • Upgrades and strengthening of existing structures; • Construction of structures to be flood-proof; • Upgrades and modifications of infrastructure (e.g. prevention of backflows to wastewater or drainage utilities caused by inundation of sea water). **Hurricanes.** While hurricanes are relatively rare in Hawai‘i, they do occur and may be increasing in frequency due to global climate change. The Kalihi area, as the rest of the island or state, is no more or less vulnerable to the destructive winds and torrential rains associated with hurricanes. While it is difficult to predict such natural occurrences, it is reasonable to assume that future incidents are likely, given historical events. While hurricane storm damage is difficult to predict, the NOAA Coastal Storms Program and Dr. Kwok Fai Cheung from the University of Hawai‘i at Mānoa School of Ocean and Earth Science and Technology developed computer models to simulate Category 4 hurricane storm surges for both current sea levels and

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		with projected one-meter sea level rise. At current sea levels, the storm surge is not projected to impact the project site (Figure 15). However, with one meter of sea level rise, the corner of the property at North King and Liliha Streets may incur up to a half-meter of inundation from a Category 4 hurricane storm surge (Figure 16). Similar to the mitigation measures proposed for the project to withstand extreme weather events generated due to global climate change and sea level rise, the project should be designed to provide a safe environment for future residents and improve longevity and resiliency of the proposed facilities, landscaped areas, and vital infrastructure serving the project such as water, sewer, electrical, drainage, and roadways. It will implement hazard mitigation measures where appropriate, such as hardening of the facility against hurricanes, flooding, and high winds. In the event of a hurricane, the potential impact of destructive winds and torrential rainfall will be mitigated through compliance with the 2006 International Building Code for any new construction. Essential equipment will also be located on higher floors wherever feasible to avoid inundation from storm surges. **Earthquakes.** Most earthquake activity in Hawai‘i is related to volcanic rather than tectonic activity. Thousands of small earthquakes occur in Hawai‘i each year, and moderate and disastrous earthquakes have impacted the islands in the past. The last major earthquake to be felt on O‘ahu was the Honomu Earthquake in 1973, which resulted in minor cosmetic damage to structures, but fortunately did not result in any reported injuries or deaths. Most earthquakes occur on the island of Hawai‘i and are occasionally felt on O‘ahu. Seismic hazards in the area are no greater in the project area than other locations on O‘ahu. The proposed project will be replacing the existing structures with new structures built to current standards in the International Building Code. This is anticipated to improve safety for residents and resiliency of the structures due to potential damage from earthquakes. None of these conditions will require modification of the development of the Project. However, recommendation by the State Department of Health and Civil Defense will be followed in the event that one of these natural events occurs. Variances and permits may be required for construction activities. **Site Safety.** While the proposed project will increase the population within the immediate project area, it is not anticipated to substantially increase regional population as it is anticipated future residents will be relocating from the surrounding Kalihi-

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		Pālama neighborhoods or elsewhere on O‘ahu. As a result, existing public services and medical facilities such as police, fire, and emergency medical services may need to shift existing manpower and resources closer to Iwilei as needed to serve the proposed project. During the master plan process, stakeholder meetings were held with various public service agencies including the Honolulu Fire Department. Some of their requested considerations in the design of the proposed redevelopment include: • Elevators that can accommodate a gurney laying down flat to improve response to medical emergencies; • Ensuring internal streets are designed with appropriate turning radii to accommodate their fire trucks and adequate space is provided in front of high rises to accommodate ladder trucks; • Aerial ladder access up to a certain floor level. Additionally, each floor level should have smoke towers, and there should be a command center on a lower floor with an exit to the outside; • Eliminating potential interaction with overhead powerlines especially along the Liliha Street frontage; • Reducing the amount of combustible materials in public spaces; and • Community-wide education and safety programs in multiple languages for residents as well as building managers. Project designers will continue to work closely with City Police, the Honolulu Fire Department, and other public service providers during the detailed design of the facilities to ensure the new structures at MWH will be easily accessible by emergency services to support favorable response times. Onsite fire protection requirements will also be coordinated with the Fire Prevention Bureau of the Honolulu Fire Department . The design of the future facilities must meet Honolulu Fire Department requirements including adherence to the codes and regulations of the National Fire Protection Association and Uniform Fire Code. In addition, the Honolulu Police Department has advised the project team to inform construction workers and employees not to leave any valuables in their vehicles and that all construction equipment and supplies be securely stored when not in use. They also recommended that security controls be provided at the project site to deter criminal activity and assist in the identification of perpetrators. The project development team will work together with the Honolulu Police Department to develop a security plan for the construction of the project and will consider security measures such as security guards and camera surveillance systems

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		for non-working hours to secure the site. Site security will also be studied to control access and secure the site during both working and non-working hours. Access controls will be important to keep the pubic off-site during working hours for public safety.
Energy Consumption	2	The total anticipated electrical demand load for the project is 9,688 kVA (9.688 MW or approximately 9.7 MW). The proposed project will be designed to be as energy efficient as possible to reduce electrical demand and include elements such as solar hot water heating, operable windows for natural ventilation, light and motion sensors in non-residential areas, energy efficient lighting, and Energy Star appliances. Onsite renewable energy such as solar photovoltaics (PV) will also be evaluated during the design process and coordinated with HECO if pursued. The PV panels could be installed on the upper parking decks as shade structures and on building rooftops. In terms of distribution or bringing electricity to the project site from HECO's electrical grid, HECO has indicated that they can serve the initial Phase 1 development with the existing distribution circuit on Pua Lane. HECO's will-serve letter is attached as Exhibit 22. However, new 25 kV infrastructure would be required to serve the Phase 2 development and beyond. The probable point of connection is the nearby Iwilei Transmission Substation located along Kuwili Street. As this proposed offsite 25-kV ductline would facilitate the overall TOD development of the larger Iwilei District envisioned by the City, there should also be negotiations between the State and the City for cost sharing of the duct system construction costs. The project will also create a sustainable new community of high-quality design. Hawai‘i is committed to renewable energy production. In 2016, 25.8 percent of energy produced by the Hawaiian Electric Companies was renewable. Hawai‘i has enacted a law that mandates that all of the State's electricity comes from renewable sources no later than 2045. The project is anticipated to be built in 2028. Project-related public utility energy demand would decline between 2028 and 2045 as the State moves toward a fully renewable supply of energy.

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SOCIO-ECONOMIC		
Employment and Income Patterns	1	A socio-economic impact study was completed for the proposed project and is attached as Exhibit 23. Within the Kalihi-Pālama region, over 85 percent of jobs fall within four categories: services, industrial, retail, and transportation/utilities (Keyser Marston Associates, Inc., 2011). As of 2013, there were approximately 452,610 jobs in the City and County of Honolulu and the Kalihi region provided a total of 27,950 jobs for Zip Code Tabulation Area 96817. For that same year, the most common businesses in Kalihi were in the health care industry (16%), which accounted for approximately 5,500 jobs, followed by retail (13%). About a quarter of these were employed in establishments with 25 to 49 employees; nearly the same number were in the next two larger classes (50 to 99 and 100 to 249 employees). Three establishments employed 250 or more persons in 2013. Over the ten-year period from 2004 to 2013, the total employment and average annual pay in the Zip Code Tabulation Area have declined. Approximately 39 percent of men and 38 percent of women in Kalihi work in service occupations. According to the 2014 Five-year ACS, median household income for the 96817 Zip Code Tabulation Area in Kalihi was $56,654, which is slightly below that of the City and County of Honolulu as a whole at $57,936. Unemployment in the Kalihi Zip Code Tabulation Area was also relatively low (5.6 percent), which is just below that of the City and County of Honolulu (5.9 percent). However, unemployment among MWH residents was significantly higher at 17.7 percent and MWH residents also experienced a higher incidence of poverty with 56.8 percent of MWH residents below the poverty level for the previous 12 months. The proposed project will generate jobs in three different categories: construction, facility management and maintenance, and commercial jobs. Construction jobs include jobs at offsite construction offices and yards since not all construction jobs are onsite. Construction jobs are estimated on the basis of construction spending. For management and maintenance jobs, estimates include the onsite workforce needed to operate MWH, including contractors who may be present either full-time or at intervals. Social service and commercial jobs onsite are estimated from the proposed 80,000 square feet of commercial space. These jobs will be with establishments and agencies that lease space within MWH. On-site operations employment will grow to approximately 380 new direct jobs by full buildout, more than ten times the number

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		currently employed at MWH. The increase in annual wages on-site will be approximately $11.7 million (in constant dollars, controlling for inflation). These jobs and wages are expected to continue for many years. Construction employment will vary from year to year, since the phases of redevelopment involve areas of different sizes. At its peak, construction jobs are estimated to reach 577 direct jobs per year. These jobs, however, are temporary and will end at full project buildout. Total construction wages are projected to range between $9.9 million and $38.9 million per year. Indirect and induced jobs are also expected from the redevelopment and ongoing operations at MWH. These are jobs created by local spending from the expenditure of funds for the redevelopment, such as the purchasing of materials for the project construction or jobs created when new employees spend their wages in the local economy. At project buildout, the induced and indirect number of jobs created by the ongoing operations of redevelopment is estimated at 189 with a total of $9.7 million in wages. During project construction, this estimate is projected to range between 191 to 751 induced and indirect jobs per year, with $9.9 million to $38.9 million in total wages. The project is anticipated to have a beneficial impact on employment and wages throughout the redevelopment process and for permanent operational jobs. Mitigation measures may include job training and encouraging contracting from local area companies and employing onsite and area residents. This will help support local economies and reduce commuting and traffic from other areas.
Demographic Character Changes, Displacement	1	Kalihi is a working-class, multi-ethnic neighborhood that has historically been a first home for many immigrants to Hawai‘i. Since the early twentieth century, it has remained a center for immigrant and labor organizations. According to the 2014 American Community Survey, just over a third (35.3 percent) of Kalihi residents are foreign-born and the ratio is slightly larger (46.6 percent) among the MWH residents. Most residents of MWH identify themselves as full or part Native Hawaiian and Other Pacific Islander (74.1 percent), and 26.0 percent identify themselves as full or part Asian. This differs from the majority of the population within Kalihi, which mostly identifies as Asian alone (64.8 percent), while only 18.4 percent of residents identify as full or part Native Hawaiian and Other Pacific Islander. The proposed project will increase the number and density of residents living at the site. However, all of the existing residents in good standing will have the first right to return to the

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		reconstructed MWH community. During the demolition, construction, and transition to the redeveloped MWH community, the primary goal is to minimize offsite relocation of existing MWH residents. The first phase of construction, which is preceded by tenant relocation, is anticipated to occur at the corner of North King and Liliha Streets. It will involve the demolition of the existing units; the number of impacted units which is still to be determined. If there are units available onsite at that time, residents may be given the option to move into those units. However, there will likely not be enough vacant units for all those who must be relocated. With the number of units to be constructed in the first phase, the goal is to return those relocated residents to the new units as soon as possible and to have the residents from the next area of demolition to be able to move directly from their existing units into the new units without having to relocate offsite. For those who must be relocated offsite during the first phase of construction, the development team will be responsible for coordinating placement into temporary or permanent housing. Those tenants will continue to pay the same or similar rents throughout the duration of the offsite relocation. The project is also not anticipated to have a significant impact on overall population of Oʻahu as it is intended to fill the existing housing need for existing residents and not expected to attract new residents to Oʻahu and Hawaiʻi. At the neighborhood level, it is estimated that many of the new MWH residents will come from the surrounding Kalihi-Pālama neighborhood where they are currently living with family and friends, or in less desirable housing. It is also possible that the new MWH residents will be moving from similar situations elsewhere on Oʻahu with the desire to move closer to the urban core of Honolulu to reduce their commute times and be able to walk or bike to work. This would have positive secondary impacts including reducing impacts to regional traffic, vehicle emissions, and fuel consumption, and increasing individual's economic efficiencies by reducing the amount of money spent on transportation and redistributing that spending to other purposes such as housing, childcare, and nutrition. The redistribution of many current Oʻahu residents to the new residences at MWH therefore may have an overall positive impact on the environment and social and financial wellbeing of new residents.

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COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	3	Students from MWH typically attend McKinley and its feeder schools — Central Middle School, Ka‘iulani Elementary School, Kauluwela Elementary School and Likelike Elementary School. There is only one public middle school and one public high school serving MWH students. However, MWH students of elementary school age are split among the three public elementary schools depending where they live on the property. Princess Victoria Ka‘iulani Elementary School is the closest school to the site, located less than half a mile ‘ewa of MWH on North King Street, and also has the largest percent of MWH students of the three elementary schools. Likelike Elementary School is located less than half a mile mauka of the site and approximately 75 percent of its students live in MWH as well as some staff members. The third elementary school, Kauluwela Elementary School, is located less than a mile mauka (towards the mountains) from MWH. The majority of the students at these public schools reflect the low-income, multi-ethnic character of Kalihi. Compared to the rest of the State, the families that make up these Kalihi area school communities have a higher percentage of Public Assistance Income, children below the poverty level, and children who are “at risk.” On-going discussions with the State Department of Education are being held to determine how the proposed project will support public education. As the project moves into design and construction, MWH Partners will continue discussions with the Hawai‘i Department of Education regarding impacts on student relocation and transition during the carious phases of this project. MWH Partners will coordinate with the Hawai‘i Department of Education to execute an educational contribution agreement to satisfy the State’s school impact fee requirements.
Commercial Facilities	1	Kalihi is located within the urban core of Honolulu, close to the state’s business, financial, government, and commercial center. While Kalihi has a diverse residential history, it also incorporates a truly mixed-use area of commercial activities, including retail, industrial, and manufacturing. Supported by its proximity to Honolulu Harbor and the Daniel K. Inouye International Airport, the mix of existing businesses in Kalihi range from shipping and sheet metal related industries to food production and distribution. Commercial uses makai of Dillingham Boulevard include big box commercial, industrial office space, warehouses, machine shops, and food industries, while the area mauka of Dillingham tends to be mostly residential with smaller commercial lots

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		including fast food restaurants, gas stations, banks, and automotive shops. The proposed project includes up to 80,000 SF of retail and commercial space, primarily on the lower floors of the mixed-use buildings. The specific uses are yet to be determined but they provide an opportunity to activate street frontages and encourage pedestrian access between residential and commercial uses. They will not only serve the new residents but complement the diverse commercial uses already in the area and provide additional retail, social services, and job opportunities to a growing and diverse neighborhood. Liliha and North King Streets are prime corridors for future retail and the corner of the two streets has been identified as a potential location for a retail anchor such as a grocer. The building and street frontages in this area will be designed as a major focal point and wayfinding element for the neighborhood. Other commercial uses may locate along Liliha Street and community services may locate along Pua Lane opposite the new Kalihi-Pālama Health Center and at the proposed community center. As the community is built, other locations may also become favorable as market opportunities arise. The MWH Redevelopment is easily accessible to existing employment centers, shopping, and services by public transportation, walking, and private vehicle.
Health Care and Social Services	1	As noted in the attached Human Capital Report (Exhibit 24), the Kalihi area is well-served by a variety of community and social service providers. Hawai‘i Literacy, Pālama Settlement, Salvation Army, YMCA, and the Hawai‘i Food Bank are among the active social service agencies supporting current residents and the Kalihi-Pālama Health Center is currently located across the street on Pua Lane. The proposed project also anticipates having onsite social services and community programs in addition to providing community gathering spaces, community gardens, and the central park and community center. The added support services and nearby existing or developing services are anticipated to improve public health and access to medical and social services for current and future residents. Community well-being and public mental health benefits could also arise from more community activities and social events held onsite, which contributes to more opportunities to meet people from diverse backgrounds and may also stimulate new social networks, build social resilience and understanding, improve community safety, and strengthen relationships between future residents, patrons and visitors, businesses, and social services to the site.
Solid Waste Disposal/Recycling	3	The MWH Redevelopment site is served by adequate and acceptable private trash collection and municipal solid waste

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		disposal. On Oʻahu, a waste-to-energy combustor, H-POWER (Honolulu Program of Waste Energy Recovery) located at the Campbell Industrial Park receives all residential and commercial packer truck wastes on the island and incinerates about 1,800 tons of combustible waste per day, or over 700,000 tons of waste annually, producing up to ten percent of Oahu's electricity. The electricity generated is bought by Hawaiian Electric Company. The Waimanalo Gulch Landfill is the City's primary solid waste disposal facility, located mauka of Farrington Highway near Kahe Point. The site accepts residential, commercial and nonhazardous industrial solid wastes, demolition debris and ash and residue from the H-POWER waste-to-energy facility. Wastewater treatment sludge, septic tank wastes and cesspool pumpings are accepted, provided such disposal is in accordance with the landfill's operating guidelines. The site also handles special wastes such as spent lime, contaminated foods and asbestos. PVT Land Company, Ltd. in Nānākuli is the only construction and demolition waste landfill on Oʻahu. They receive asbestos and other contaminated materials but also divert up to 80 percent of the construction and demolition waste it collects (PVT Land Company, Ltd., 2016). There are other companies on island who recycle deconstructed materials in order to divert them from the landfills and others who mitigate hazardous construction waste. Short-term impacts include additional solid waste generated at the site during construction. Waste is expected to consist of materials from demolition, construction, and grading activities. Because of the potential for lead-based paint and asbestos on the existing buildings, the development team will work with the State Department of Health Asbestos Abatement Office of the Noise, Radiation and Indoor Air Quality Branch and special contractors to manage the hazardous materials and to ensure exposure by residents remaining onsite is minimized as detailed above. Best management practices during construction will be implemented including every effort to divert materials that can be reused or recycled from landfills as well as minimizing the amount of waste generated. Solid waste will also be generated by households remaining on the site through the construction process as well as new households once construction is completed. There will also be solid waste generated by the proposed commercial uses and green waste from the landscape maintained onsite. The City estimates that Oahu generates more than 2.2 million tons of waste annually from residential, commercial and industrial sources. About 15 percent of residential trash is recyclable newspaper,

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		aluminum, glass and plastic; and 25–30 percent is compostable yard trimmings. Office wastes are estimated to be as much as 85 percent recyclable office paper. In retail operations, cardboard comprises a major proportion of solid wastes. The proposed project will support recycling as much as possible for both households and commercial uses as well as green wastes generated onsite. Detailed design will include but not limited to onsite facilities to support separating wastes into recyclable and non-recyclable materials and for central collection facilities within the buildings. MWH Partners, LLC will also work with the City and contracted collection services to ensure as much recyclable materials are diverted from the waste stream from the project as they will be managing ongoing operations of the site once construction is complete. All remaining non-hazardous waste generated by the project must be disposed of at a solid waste management facility that complies with applicable State regulations. No open burning of wastes either onsite or offsite will be permitted.
Waste Water/ Sanitary Sewers	2	The MWH Redevelopment site is anticipated to be served by adequate and acceptable municipal sanitary sewers, which are in the process of being upgraded by the City and County of Honolulu to meet the requirements of the global consent decree as amended (Civil No. 94-00765DAE-KSC) and entered between the City and County of Honolulu, U.S. Environmental Protection Agency (EPA), and the State of Hawai‘i Department of Health. The Kalihi area is serviced by the Sand Island Wastewater Treatment Plant, which processes approximately 60 percent of Oahu’s wastewater. The Sand Island Wastewater Treatment Plant is designed to process an average of 90 million gallons per day (mgd) and 200 mgd for peak flows during wet weather. It processed an average of approximately 65.26 mgd in 2016. The existing MWH generates an estimated average of 0.09 million gallons per day (mgd) with a maximum (max) design flow of 0.411 mgd and a peak flow of 0.43 mgd. The project's Preliminary Engineering Report conservatively analyzed up to 2,500 residential units and up to 80,000 square feet of retail and commercial space to study the potential maximum impact although the current project is estimated to be 2,448 units. The Preliminary Engineering Report is attached as Exhibit 25 and estimated a net increase in average daily wastewater contribution of approximately 0.52 million gallons per day (mgd), a maximum design contribution of 1.54 mgd and a peak design contribution of 1.54 mgd over existing conditions. The necessary on-site sewer system facilities will be installed to adequately service the development, including gravity sewers

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		and related appurtenances. No individual wastewater systems or treatment facilities are proposed as a part of this project. The sewer system will be designed in accordance with applicable Federal, State, and City and County of Honolulu standards. A sewer connection application was submitted to the City on March 6, 2017 for Phase I sewer demand for 650 residential units and up to 80,000 square feet of commercial space and received approval on December 18, 2017. A copy of the approved application is included in Exhibit 25. Based on initial correspondence with the City's Department of Environmental Services, upsizing of existing offsite ten-inch and twelve-inch sewer lines in North King Street is required for the full buildout but not for the initial Phase I increment so the City's existing wastewater system is adequate to serve Phase I of the proposed project. The global consent decree outlined improvements to be implemented by the City including deficiencies at the Awa Street wastewater pump station and School Street, College Walk and Iwilei area sewer lines. The City will be completing the improvements in two phases. Phase 1 of the Awa relief sewer project will be implemented to correct some of the identified deficiencies and must be completed by June 30, 2020 in order to comply with the global consent decree requirements. Phase 2 upgrades to the Awa Street wastewater pump station is not part of the consent decree requirement and has yet to be scheduled by the City. Depending on the timing of the MWH Redevelopment and other projects in the area, completion of both phases of the Awa relief sewer project may be required to serve the full buildout of the proposed project. Therefore, the project team will maintain ongoing coordination with the City in order ensure adequate wastewater service can be provided to the proposed MWH Redevelopment. The City Council also prioritized infrastructure improvements to support the increased density in the area. The recently adopted Downtown Neighborhood TOD Plan identifies the following action item to be completed in the three years following the adoption of the TOD Plan: *"Adopt a financing strategy for a Downtown, Chinatown, and Iwilei Infrastructure Facilities Financing Plan that augments the regional infrastructure planning underway for the Kalihi neighborhood TOD Plan (including strategies for State, City, or constitutional authorization), and establish a 2017-2020 timeline for planning, design, and construction of the first phase of infrastructure upgrades"* (Dyett and Bhatia, 2017).
Water Supply	2	The MWH Redevelopment site is served by adequate and acceptable municipal water supply. The Honolulu Board of

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		Water Supply manages, controls, and operates the municipal water system on O‘ahu, which includes potable (drinking water) and fire protection water service to the MWH property. The Honolulu Board of Water Supply Metro 180 system provides water to the existing MWH and serves municipal water systems from Pearl City to East Honolulu. In the vicinity of the site, the Honolulu Board of Water Supply system includes 24-inch and 42-inch transmission mains along North King Street, North Vineyard Boulevard, and Pua Lane. Twelve-inch mains are located along Liliha Street and North Kukui Street. Based on a water availability request for up to 2,500 residential units and 75,000 sf of retail and commercial development, the Honolulu Board of Water Supply responded with a letter dated November 9, 2016 confirming that the existing water systems are adequate to accommodate the proposed demand. The letter is included at the back of Exhibit 25. Additional coordination with the Honolulu Board of Water Supply is required to confirm water availability for the increase in retail and commercial development from 75,000 SF to 80,000 SF if it is pursued. The final decision on the availability of water will be confirmed when the building permits are submitted for approval and Water System Facilities Charges are paid for by the applicant. The project team will submit construction plans for Honolulu Board of Water Supply review and approval and the construction schedule will be coordinated with the Honolulu Board of Water Supply to minimize impacts to the water system. Onsite fire protection requirements will be coordinated with the Fire Prevention Bureau of the Honolulu Fire Department. In order to reduce the amount of drinking water required to serve the proposed project, all efforts will be made to include water reducing design elements into the proposed project such as WaterSense-labeled low flow and ultra-low flow fixtures and toilets, efficient automated irrigation systems such as drip systems and moisture sensors to prevent overwatering, and water catchment and reuse for nonpotable uses such as irrigation. Landscaping will incorporate xeriscaping and drought-tolerant or native and hardy climate-adapted plants that do not require significant amounts of water wherever possible. If dual water systems are installed at the proposed project, they will be designed and constructed to comply with all State Department of Health requirements.
Public Safety – Police, Fire and Emergency Medical	3	**Police.** While the proposed project will increase the population within the immediate project area, it is not anticipated to substantially increase the City and County of Honolulu's population as it is anticipated future residents will be relocating from the surrounding Kalihi-Pālama neighborhoods or elsewhere

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		on O'ahu. As a result, existing Honolulu Police Department services may need to shift manpower and resources closer to Iwilei as needed to serve the proposed project. MWH is currently located within the Honolulu Police Department's District 5 (Kalihi), Sector 5. The Honolulu Police Department maintains a Kalihi Substation that is open 24 hours a day on Kamehameha IV Road. See Figure 20. The approximate response time from the Kalihi Substation to MWH is nine minutes. There is also a police substation in Chinatown although in a different Honolulu Police Department District. **Fire.** The Site and surrounding area are within overlapping five-mile response zones of the Kalihi and Central (Downtown) Fire Stations (Figure 20). There may be an unavoidable and occasional need for emergency health care services. However, the MWH Redevelopment is not expected to have a long-term adverse impact on emergency medical services. However, similar to police protection, existing Honolulu Fire Department resources may need to be shifted closer to serve the proposed project. Municipal firefighting protection is provided by the Honolulu Fire Department's Central Fire Station on Beretania Street and Kalihi Fire Station located near the intersection of Kalihi Street and North King Street. The approximate response time from the Central Fire Station to the MWH is four minutes and from Kalihi Fire Station seven minutes. There are multiple fire hydrants along North Vineyard Boulevard, Liliha Street, North King Street, and Pua Lane, which border the project site. Fire hydrants are also located onsite along North Kukui Street and are in good condition. Onsite fire protection requirements will also be coordinated with the Fire Prevention Bureau of the Honolulu Fire Department. The design of the future facilities will meet Honolulu Fire Department requirements. Project designers will continue to work closely with City Police, the Honolulu Fire Department, and other public service providers during the detailed design of the facilities to ensure the new structures at MWH will be easily accessible by emergency services to support favorable response times. **Emergency Medical Services.** The closest hospitals to the project site with emergency health care services are the Queen's Medical Center, St. Francis Hospital, and Kuakini Medical Center (Figure 20). The approximate response time from these emergency health care providers to the MWH is approximately five to six minutes by ambulance service. The Kalihi-Pālama

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		Health Center (KPHC) is located adjacent to the project site at the corner of Pua Lane and North King Street, which offers a range of medical and social services directed toward low-income ethnic minorities and the homeless. KPHC also provides a range of additional community services relevant to the current residents at MWH. While the proposed project will increase the population within the immediate project area, it is not anticipated to substantially increase regional population as it is anticipated future residents will be relocating from the surrounding Kalihi-Pālama neighborhoods or elsewhere on O‘ahu to the urban core of Honolulu. By providing housing closer to existing medical facilities, emergency response times are potentially reduced and access to medical care is improved.
Parks, Open Space and Recreation	2	The current MWH site contains a small playground in a fenced/secured yard, called the Keiki Pride Playground, located in an open area near the center of the site. New playground equipment and turf was recently installed for young children and toddlers. However, there is little for older children to play on or recreate. The main recreational center accessible for MWH residents is Pālama Settlement, located on North Vineyard Boulevard, less than half a mile northwest of the project site. Pālama Settlement is a non-profit, community-based agency that provides social programs and recreational facilities to serve low-income and public housing residents of the Kalihi neighborhood. Recreational facilities include a swimming pool, gymnasium, ball courts, and athletic fields. Pālama Settlement's Recreation Division also provides sports and fitness programs for all ages, in addition to many arts and crafts classes. A number of public parks and outdoor areas are also located in the Kalihi-Pālama neighborhood, many within walking distance of the MWH. The closest parks to the project site include Kauluwela Community Park, Beretania Community Park, Banyan Court, and A‘ala Park, which are all less than half a mile in the Diamond Head direction of the site. Beretania Community Park has the largest range of recreational features of these nearby parks, which include open grassy areas, a baseball field, tennis/basketball courts, and play structures. Just beyond those parks are the City and County of Honolulu's Foster Botanical Gardens and Liliuokalani Botanical Garden. At the heart of the proposed project is a new community park anchored by a multi-purpose hale where residents can gather for family parties and community celebrations. Smaller open spaces, community gardens, and recreational decks are dispersed throughout the site creating a hierarchy of outdoor open spaces

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		that bridge the interior and exterior elements and provide opportunities for future residents to enjoy the outdoors, grow their own food for better health and wellness, and recreate. Culturally significant plants and lei plants will also be considered in the landscape design of the project so the plantings can serve multiple purposes of being useful as well as providing shade, comfort, and aesthetics. Landscaping will incorporate xeriscaping and drought-tolerant or native and hardy climate-adapted plants that do not require significant amounts of water wherever possible. The selection of plants for landscaping will also consider whether water use, disease concerns, and planting and growing space requirements are appropriate for the particular location during detailed design. Street trees and shade trees will be planted throughout the project to increase the urban tree canopy and designed with adequate tree wells to minimize potential impacts to underground utilities and overhead lighting. The new landscaped areas can provide multiple benefits such as mitigating urban heat and cooling buildings reducing energy used for air conditioning, improving watershed health by installing rain gardens and bioswales within landscaped areas to help capture potential pollutants prior to entering the project's drainage system, decreasing erosion and pollution on our coral reefs, reducing stress and crime in neighborhoods which improves public health and safety, improving air quality by filtering non-point source pollution and sediments and increasing carbon sequestration, retaining stormwater and increasing groundwater recharge, providing urban wildlife habitat, and making our communities more livable. It is also recommended that all non-native plants selected and used in the detailed landscape design of the project be evaluated using the Hawai‘i Pacific Weed Risk Assessment tool. In addition, it is recommended that the landscaping plants used in the project should be from O‘ahu to avoid the importation of unwanted invasive species, pests, diseases, fungi, and other inadvertent introductions that could negatively impact Oahu’s native ecosystems and species.
Transportation and Accessibility	3	The conceptual site plan (Figure 3) brings back the historic block pattern of the area, which was smaller and more connected. It reintegrates the roughly 14.8-acre site back into the fabric of the surrounding community. Buildings are oriented toward the streets rather than turned inward as they are now, walled off from it. Off-street parking is proposed as structured parking to increase site efficiencies. The number of parking stalls are estimated at a minimum of 2,448 parking stalls based on City's TOD ordinance

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		and up to roughly 3,300 stalls depending on the needs of the commercial uses and residential demand for parking. This includes resident, guest, and ADA-accessible stalls. The parking may also be decoupled from non-public housing residential units in order to give future residents the option of having or not having a parking stall, given the easy access to public transportation and proximity to job centers. Sidewalks along the external streets directly adjacent to the proposed project will be activated with commercial storefronts and residential entries and landscaped with street trees to shelter pedestrians. The activated streets encourage walking and biking, which in turn support community safety and can contribute to improved individual health and community well-being and connectedness. The new internal streets will be designed as complete streets in accordance with State and City requirements to support multimodal circulation. They are purposely designed without direct connections through the property to discourage speeding and cut-through traffic but allow for convenient access throughout the site. Traffic calming provisions will also be considered in order to provide a safe and pleasant environment for pedestrians. The internal streets are also anticipated to remain private but will be publicly accessible. The existing signalized access at Kukui and Liliha Streets will remain, but the existing access at Pua Lane and Kukui Street are replaced by two new accesses on Pua Lane to eliminate the unobstructed path through the property. A new right-in/right-out only access is proposed on North Vineyard Boulevard as well as a fifth access on North King Street. In June 2018, Hawai‘i Department of Transportation Highways Division confirmed that Department of Transportation Administration was agreeable to the mid-block intersection on Vineyard. In addition, a letter dated October 3, 2018 from Chris M. Yamamoto, DOT Right-of Way Manager (Reference HWY-RM 3.94776) is included in this exhibit. The letter states there are no access restirctions along North Vineyard Boulevard in th area of the project and that no documentation of the access is therefore required by their office. See Exhibit 29 for a record of this correspondence. The North King Street access is shown as a potential vehicle, bicycle, and pedestrian access to provide easy access to the proposed retail at the corner of North King and Liliha Streets. It would also provide direct access for pedestrians and bicyclists to the planned Iwilei Transit Station, which is roughly a third-mile from the site. However, initial discussions with State and City transportation officials have indicated that it may need to be restricted to pedestrian and bicycle access only. This will continue to be explored with the State and City.

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		However, to be conservative, the multimodal transportation assessment prepared for the project by Fehr & Peers analyzed the potential traffic impacts based on the assumption that vehicle access would not be allowed at that location. The multimodal transportation assessment is attached as Exhibit 21. Supported by an existing population at MWH that already uses public transportation at higher rates than O'ahu as a whole to commute to work (38.5 percent compared with 8.7 percent[1]), the proposed project encourages the use of multi-modal transportation options as meaningful alternatives to driving that take advantage of the project's access to bicycle and pedestrian facilities as well as its close proximity to existing employment centers, public transit, and the future 'Iwilei rail station. These factors are incorporated into the multimodal transportation assessment and its analyses of potential impacts to vehicle traffic as well as transit, pedestrian, and bicycle transportation in the area. Of the fifteen intersections analyzed for traffic impacts (Figure 19), two intersections are currently operating at undesirable levels of service and will continue to operate at undesirable levels in the future even without the proposed project. These are the North King Street and Dillingham Boulevard/Liliha Street intersection and the North Vineyard Boulevard and Liliha Street intersection. A third intersection, North Vineyard Boulevard and A'ala Street, will operate at undesirable levels under future baseline conditions even without the project due to projected traffic growth and other developments anticipated to be completed during the study timeframe. With the proposed project, undesirable operations at the same three intersections continue to occur during both morning (AM) and afternoon (PM) peak hours of traffic at completion of the first phase of construction, the halfway point of project buildout, and at full buildout. The remaining twelve intersections are anticipated to operate at acceptable level of service even with full buildout of the proposed project. Potential traffic improvements were identified to mitigate the proposed project's cumulative impacts to the three intersections based on the impacts anticipated at full buildout. Consultation with the State of Hawai'i Department of Transportation and the City and County of Honolulu Department of Planning and Permitting was conducted throughout the planning process to

[1] American Community Survey, 2016. Accessed 2/27/2018: https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_15_5YR_S0802&prodType=table

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		address concerns and goals in balancing efficiency and safety for the operations of all travel modes in the vicinity of the project including pedestrian and bicycle. Mitigation measures are discussed below for each of the three potentially impacted intersections as well as their overall feasibility and recommendations for implementation. For the North King Street and Dillingham Boulevard/Liliha Street intersection, vehicle capacity enhancements are limited since the only possible mitigation would require acquiring substantial right-of-way on all approaches to widen all approaches to add additional through lanes and separate turn lanes. Even adding a separate right-turn lane ‘ewa-bound on the mauka side of North King Street would result in a minimal 0.5-second improvement in delay per vehicle over baseline conditions and the overall intersection would continue to operate at undesirable levels. Substantially reducing delay at this intersection would require all intersection approaches to be widened for additional lanes. However, this is not considered feasible as it would produce secondary adverse impacts to pedestrian and bicycle facilities and adjacent properties. Heavy congestion on these roadways is primarily due to regional traffic demand and is, therefore, beyond the scope of a single development project. Additional improvements including new street connections within the greater Kalihi area would help reduce demand at this intersection and would compensate for several of the prohibited turning movements at this location. For the North Vineyard Boulevard and Liliha Street intersection, potential improvements for vehicle operations include the construction of a second Diamond-Head-bound left-turn lane on North Vineyard Boulevard by: • Taking four feet from the existing median; • Reducing the existing Diamond-Head-bound lanes to ten feet for the left-turn lanes; • Reducing the through lanes to eleven feet; and • Reducing the right-turn lanes to thirteen feet to accommodate right-turn buses. This option would address additional vehicle demand from the project and allow for intersections to operate at better than baseline levels in both the AM and PM peak hours. The reduced median strip would still be able to accommodate an ADA-compliant pedestrian refuge area and no sidewalks or adjacent properties would be impacted. Measures to improve vehicle operations at the intersection of North Vineyard Boulevard and A‘ala Street include the restriping

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		of makai-bound lanes on A‘ala Street to provide a separate left-turn lane and a combined through/right-turn lane. This mitigation action is considered feasible since the roadway is a sufficient width to accommodate improvements without impact to bike or pedestrian facilities. The restriping would require the removal of five parking stalls on A‘ala Street, three on the ‘ewa side and two on the Diamond-Head side. These measures would allow the intersection to operate at a desirable level of service D in the PM peak period under Long-Term Full Buildout Conditions, which is assumed to balance out the reduction in on-street parking in the vicinity of the intersection. It should also be noted that the April 28, 2017 Recovery Plan presented by the Honolulu Authority for Rapid Transportation and the City and County of Honolulu proposes to defer construction of the Iwilei Station in order to save on initial construction costs. An additional sensitivity analysis was performed as part of the multimodal transportation assessment that analyzed the potential changes to traffic impacts should the Iwilei Station not be built. The results of the analysis concluded that trip estimates without the Iwilei station would increase daily trips by approximately nine percent and would only impact the same three study intersections at full buildout of the proposed MWH Redevelopment. The impact on the study intersections, however, would be minimal as the increases in traffic volume are anticipated to be distributed among streets and intersections throughout the entire study area. The current HART rail construction involves the relocation of utilities (also known as the City Center Utility Relocation) in the Dillingham Boulevard corridor and the closure of one lane in each direction on that roadway for an estimated period of two years. This construction configuration, also known as the Controlled Access scenario, is expected to divert traffic to other streets including N. King Street, Liliha Street, and N. Vineyard Boulevard adjacent to the Mayor Wright Housing project site. This diversion would primarily occur in the peak commute periods with lower levels of diversion expected outside the peak periods. Subsequent to utility relocation, the rail guideway will be constructed in the Dillingham Boulevard corridor. Because the Mayor Wright Housing project will be built in phases over an extended period of time, traffic conditions on the surrounding streets are expected to change due to HART construction activities and cannot be reasonably projected at this time. Due to the new driveway changes on Pua Lane, the following traffic calming enhancements and parking improvements are recommended for consideration:

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		• Consider installation of a neighborhood traffic circle at Pua Lane/Kanoa St/Project Makai Driveway - While there are already speed humps on Pua Lane to help moderate vehicle speeds, a neighborhood traffic circle at this intersection would further moderate vehicle speeds on the roadway and reduce the severity of potential collisions. The neighborhood traffic circle would also reduce stopping on Kanoa Street and the project's makai driveway. It should be noted that a neighborhood traffic circle would likely require elimination of several parking spaces on both sides of Pua Lane, mauka and makai of the neighborhood traffic circle. • Install Metered Parking on Pua Lane - This modification would promote frequent turnover of parked vehicles on Pua Lane and would have to be implemented by the City & County of Honolulu Department of Transportation Services. The metered parking could be enforced only during typical daytime hours (e.g. 8 AM to 6 PM), so that in the evening, area residents or guests could park on Pua Lane for longer periods of time. • Install bicycle sharrows on Pua Lane and Kanoa Street - this would highlight the presence of bicyclists on this street and inform motorists traveling on Pua Lane to share the roadway. This improvement would provide a visual connection to the planned bike facilities on North King Street that are being planned as part of the City & County's Complete Streets project. • Install curb extensions on the makai corners of the N. Vineyard Boulevard/Pua Lane intersection - this would increase pedestrian visibility through improved sight lines and also increase the pedestrian waiting space. Additionally, curb extensions would decrease the walking distance for pedestrians crossing Pua Lane. Given that this is improvement is on a State facility, coordination with the State of Hawai‘i Department of Transportation is required to implement this improvement. In addition to roadway improvements to accommodate additional vehicle demand, the proposed project could implement transportation demand management strategies to reduce overall site-generated traffic volumes. Application of transportation demand management strategies that could lead to vehicle trip reduction, use of alternative modes, and better traffic management at the site could include such provisions such as a transportation kiosk and/or on-line portal for information on ride-sharing, transit, bicycling, walking, and options for accessing the site without using a private automobile and unbundling parking from apartment units to reduce rental costs for some units and to incentivize use of non-auto travel modes. Prior to the

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		implementation of any transportation demand management measures, the project team will coordinate with the City and County of Honolulu and/or transit service providers. Short-term traffic impacts will result during construction for both onsite and offsite improvements. Traffic may be impacted when materials and equipment are transported to the site. Prior to construction being initiated on the Mayor Wright site, the project will prepare a construction traffic management plan (CTMP) to address how trucks and construction worker traffic will access and circulate around the project site. The current conditions on streets fronting the site at the time project construction is initiated will be used to make recommendations on construction traffic circulation, time periods to avoid, and other management strategies. The CTMP will be made available for review and comment by City and County Department of Planning and Permitting (DPP) and State of Hawai‘i Department of Transportation – Highways Division (HDOT-HWY) staff because both agencies will need to authorize encroachment and/or building-related permits. At that time, the project contractor will work with the affected agencies and coordinate with stakeholders to minimize construction traffic impacts, identify any potential circulation issues, and implement strategies to reduce or eliminate impacts. The CTMP will detail any road or lane closures and potential impacts to any of the bus stops should they be required, and the construction team will work closely with the State and City on appropriate solutions to mitigate those impacts. If there is a need to temporarily relocate any bus stops, the area should be at least 150 feet in length to accommodate two 60-foot buses and will be coordinated with the Department of Transportation Services Public Transit Division. The Department of Transportation Services also recommends that construction materials and equipment be transferred to and from the project site during off-peak traffic hours (8:30 a.m. to 3:30 p.m.) as well as other best practice traffic management plans to minimize any possible disruption to pedestrians and traffic on the local streets and project driveways. The project team will collaborate with the Honolulu Police Department and Department of Transportation Services to determine the optimum locations for entering and exiting the site during construction activities. The Honolulu Police Department and Department of Transportation Services will be provided traffic plans prior to the start of construction once finalized with their input. Traffic plans will indicate the use of traffic controls (signage, coning, etc.), flag persons and off-duty officers as required. Prior to the commencement of construction, a pre-construction conference with subcontractors

Environmental Assessment Factor	Impact Code	Impact Evaluation
		and suppliers will be held to communicate the traffic plan to all traveling and delivering material to the site. Safety orientations for all personnel working onsite will be held to educate them on the proper procedures for entering and exiting the site. Construction schedules should also be coordinated with other nearby properties that may have planned improvements to minimize potential impacts on adjacent streets wherever feasible. In addition, updates regarding potential traffic impacts during construction will be given to the public via media outreach and the project website. Direct updates can also be sent via email or other electronic methods as preferred to area residents, businesses, schools, City and State officials, emergency personnel, Oʻahu Transit Services, and others. Regular updates will also be shared at the monthly Kalihi-Pālama Neighborhood Board meetings. Also, once construction commences, approved best management practices including controlling dirt and debris on area roadways must be installed along Pua Lane and North King Street as well as other areas roadways. A National Pollutant Discharge Elimination System permit will also be submitted to the State Department of Health for approval, which will include a discussion of the best management practices proposed at the time of construction. Also, during and once construction is completed, any damages or deficiencies to Pua Lane and North King Street and other area rights-of-way caused by the project must be corrected to City and State standards and accepted by the City and State. These requirements will be incorporated into the construction documents. For public transit, the project is expected to increase ridership in the area over the long-term. The site is well-serviced by both bus and future rail transit and is generally not expected to substantially increase the transit demand to a level where it could not be accommodated by existing or planned facilities. In addition, the new internal street network will support and encourage access through the site directly to area bus stops and the future rail station. The project is also expected to not conflict with any existing facilities and planned improvements. Recommendations have also been made to improve lighting at area bus stops to improve safety and will be included throughout the internal street network as well. The project will support the use of existing transit systems through integration of multimodal facilities such as bicycle parking and sidewalk enhancements in the site design to improve accessibility to public transit systems. The project team will coordinate with the City's Department of Transportation Services Public Transit Division to ensure the project does not adversely affect public transit services including

Environmental Assessment Factor	Impact Code	Impact Evaluation
		bus operations, bus routes, bus stops, and paratransit operations. Project plans will be submitted to the Department of Transportation Services Public Transit Division for review and approval. Thus, the project's impacts to transit facilities and services are intended to support ridership. Short-term impacts to the bus stops directly adjacent to the site may occur during construction should there be any road or lane closures. Bus stops may have to be temporarily relocated away from construction activities impacting the fronting the property and the development team will work closely with City transit officials to provide safe alternatives for the bus stops. This will include safe pedestrian and ADA-accessible access to the temporarily relocated bus stops and full replacement of the bus stop once construction is complete. For pedestrian and bicycle circulation, the proposed project follows new urbanist design principles that include an emphasis on walkability and connectivity through the pedestrian and bicycle networks within the project site, on adjacent streets, and via connections to the surrounding community. The project proposes to develop complete streets within the site and enhancement of the external streets with activated streetscapes including sidewalks that are shaded by street trees and awnings along commercial frontages and residential buildings that face the streets rather than turned inward as they currently are at MWH. Street trees and landscaping strips will be designed with adequate tree wells and planter areas to minimize potential impacts to underground utilities and overhead lighting. Short-term temporary impacts to pedestrian and bicycle facilities may occur during construction such as sidewalk closures and rerouting of pedestrians and bicycles away from any potentially unsafe conditions. The development team will work closely with State and City roadway officials to develop safe alternate routes and include appropriate signage during construction to direct pedestrians and bicyclists to appropriate detours. Generally, the proposed project is not expected to substantially increase the walking, biking, or transit demand to a level where it could not be accommodated by existing or planned facilities. In addition, the project is expected to enhance multi-modal facilities and services, especially with the promotion of the use of passive and active spaces and non-motorized modes.

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	Due to previous urban development, there are no unique natural features or water resources existing on the site.
Vegetation, Wildlife	3	Native vegetation and wildlife have been altered by previous development. No Federally listed Threatened or Endangered plant or fauna species were found on the property during the biological survey performed for the existing site, nor were any found that are candidates for such status (see Exhibit 7). There are no critical habitats for federally or State-listed Endangered or Threatened species onsite (Figure 17). U.S. Fish & Wildlife Service data indicates that the following federally listed species may occur or transit through the vicinity of the proposed project area: endangered Hawaiian hoary bat (*Lasiurus cinereus semotus*); endangered Hawaiian petrel (*Pterodroma sandwichensis*), threatened Newell's shearwater (*Puffinus auricularis newelli*), and endangered Hawai‘i Distinct Population Segment (DPS) of the band-rumped storm-petrel (*Oceanodroma castro*). In addition, no wetlands, streams, or estuaries are present on the MWH property. In addition, although no endangered manu o kū or white tern (*Gygis alba rothschildi*) were seen during the survey, their range and nesting area in urban Honolulu is growing according to the State Department of Land and Natural Resources Division of Forestry and Wildlife. The project is also proposing to install more trees along the streets and within the project site, which may encourage the area's use by the manu o kū. The following protocols for surveying trees for the manu o kū and their eggs should be followed prior to tree trimming or removal. If there are no known manu o kū nests in the project area when work on any trees commences, then a quick survey of the trees should still be done before proceeding with any tree trimming or removal. The DOFAW O‘ahu Branch Wildlife Program will be contacted if there are any manu o kū or eggs seen onsite prior to the commencement of work. If there are known manu o kū nests in the project area at the time when project work commences, a qualified individual (e.g., wildlife biologist) should make a more in-depth assessment and provide a timeframe in which tree trimming or removal can be done. The work should only proceed outside the nesting period, which can occur year-round, so site-specific monitoring should be done prior to any work on impacted trees.

ATTACHMENT 7

Field Inspections (Date and completed by)**:**

- May 2016 – Robert Hobdy (Flora and Fauna Survey)
- July 2016 – Weston Solutions (Phase I Environmental Site Assessment)
- August 2016 – Fehr & Peers (Multimodal Transportation Assessment)
- September 2016 – TCP Hawai‘i, LLC (Archaeological Inventory Survey, Cultural Impact Assessment)
- March, April, May 2017 – Fung Associates, Inc. (Reconnaissance Level Survey, Historic Architecture)
- April 2017 – Terry A. Hayes Associates, Inc. (Noise and Vibration Study)
- May 2016 – June 2017 – MWH Partners, PBR Hawaii & Associates, Inc., Torti Gallas + Partners, Concordia, RM Towill Corporation (Various Site Visits, Community and Resident Meetings)
- April and May 2018 – Weston Solutions (Phase II Environmental Site Assessment)
- October through November 2018 – Geolabs, Inc. (Geotechnical Soil Testing)

ATTACHMENT 8

Cumulative Impact Analysis [24 CFR 58.32]**:** To determine whether the proposed action may have a significant impact on the environment, expected consequences, both primary and secondary, and the cumulative as well as short- and long-term effects have been evaluated. Based on the studies performed and research evaluated, it is anticipated that the proposed project will have an overall net cumulative beneficial impact, particularly with regards to socio-economic impacts, public health, and efficient land development, which is consistent with the City and County of Honolulu's vision for this new TOD neighborhood. The proposed project helps address the critical affordable housing shortage with the provision of much needed affordable rental housing close to Downtown Honolulu and other employment centers and will be easily accessible from the future rail transit.

Although there will be cumulative impacts to the Kalihi-Pālama-Iwilei area's infrastructure, roadways and traffic, transit ridership, density, medical services, and public services such as police, fire, emergency, and schools, they are all consistent with the City's long-range vision to intensify development in a new mixed-use district in Iwilei. Included in the City's implementation actions for the Downtown Neighborhood TOD Plan is the prioritization of upgrades to the area's infrastructure to support the desired growth and the desired action of revitalizing MWH and other Hawai‘i Public Housing Authority TOD properties through a partnership between the City, the Hawai‘i Public Housing Authority, and other State agencies to “increase development of affordable mixed-income housing on State and City lands. A desired minimum of 2,000 units is established as a development target for the affordable and permanent supportive housing on these lands.” (Dyett and Bhatiam, 2017).

The cumulative intensification of development in the area will also change the regional cityscape and viewplanes, which is consistent with the Downtown Neighborhood TOD Plan's vision for a “transformative,” “high-intensity mixed-use Iwilei district.” However, the proposed development will be designed to mitigate visual impacts by locating the taller towers in the interior to the site and orienting them with their longer sides running mauka-makai and lining the streets with the lower- and mid-rise buildings to preserve distant mauka views.

The project will also include landscaping using native and/or drought-tolerant plants and xeriscaping, a community park, and complete streets to support community activities and pedestrian, bicycle, and transit use to reduce impacts to vehicular traffic and encourage healthier, active lifestyles. Street trees and shade trees will be planted throughout the project to increase the urban tree canopy. The new landscaped areas can provide multiple benefits such as mitigating urban heat and cooling buildings reducing energy used for air conditioning, improving watershed health by installing rain gardens and bioswales within landscaped areas to help capture potential pollutants prior to entering the project's drainage system, decreasing erosion and pollution on our coral reefs, reducing stress and crime in neighborhoods which improves public health and safety, improving air quality by filtering non-point source pollution and sediments and increasing carbon sequestration, retaining stormwater and increasing groundwater recharge, providing urban wildlife habitat, and making our communities more livable. Street trees and landscaping strips will be designed with adequate tree wells and planter areas to minimize potential impacts to underground utilities and overhead lighting.

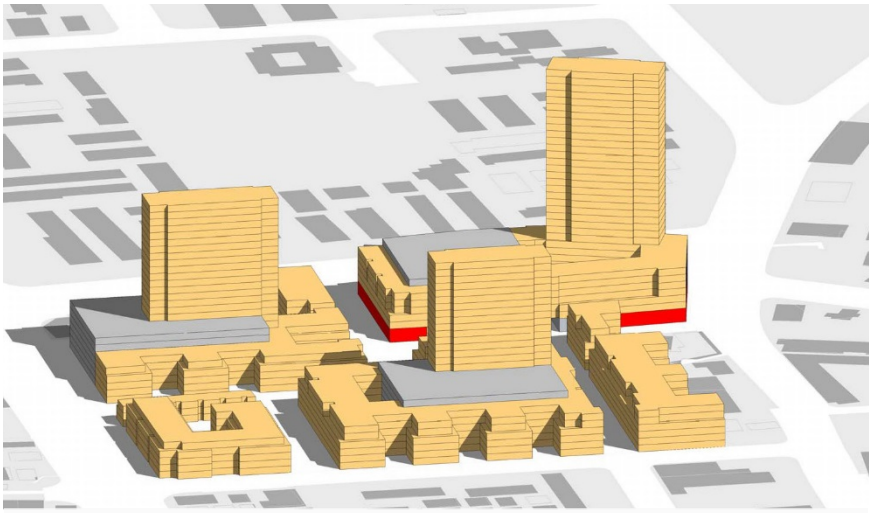
Cumulative impacts may also occur to the economy as the mix of uses in the area diversifies and is able to support additional businesses and services. The surrounding land values may also increase due to the increased activity and densities. All of this new activity and density will increase tax revenues for both the State and the City in general excise tax, income tax, and property tax collections. However, because the proposed MWH Redevelopment project site is State-owned, it will not contribute to increased property tax revenues except for the onsite commercial uses. Smaller property owners in the area may be impacted disproportionately as increasing land values will also increase the amount of property tax, they will pay which may impact the ability for smaller businesses and homeowners to remain in the area.

Cumulative impacts may also change the demographics of the area, impacting social networks and increasing the interactions between different income and ethnic groups. However, the overall cumulative impact of increased rental housing options, especially affordable rental housing, commercial activity, and increased social diversity are anticipated to improve the overall social-economic conditions of the area as well as improve safety as natural surveillance will increase with the increase in residents and human activity in the area. Individual health and community well-being are also anticipated to improve as people of all ages and abilities will be able to circulate easily within this new mixed-use community and access needed services and businesses, which will be in close proximity to residences, jobs, schools, and recreational amenities. Although the cumulative impact to vehicle traffic will worsen at two of the busiest intersections during the peak hours of traffic, this has a positive effect of encouraging more people walk, bike, or take transit as they will become more convenient and efficient modes of transportation, thereby encouraging healthier activities and lifestyles. This in turn has an overall positive cumulative impact on public health.

ATTACHMENT 9

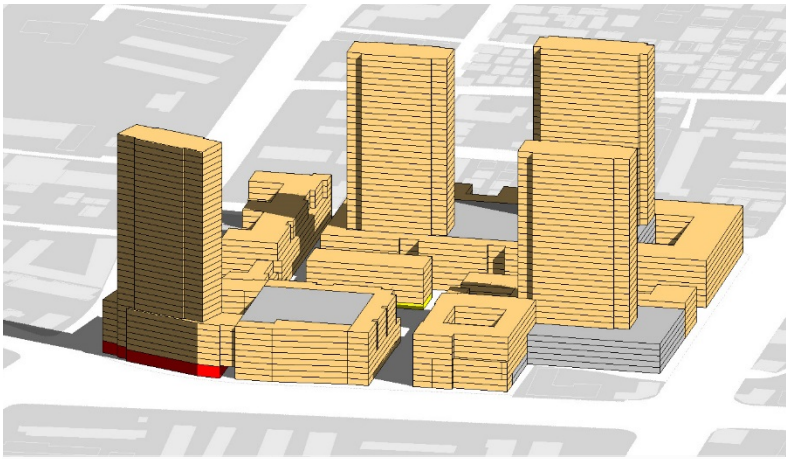
Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]:
This section describes alternatives to the MWH Redevelopment design, along with reasons why each alternative was rejected.

2,000-Unit and 3,000-Unit Scenarios. In addition to the proposed scenario for the redevelopment project, a 2,000-residential unit scenario and a 3,000-residential unit scenario were studied. In both scenarios, as well as the preferred scenario, up to 80,000 SF of commercial was included and all of the stated objectives could be obtained. While fewer towers and lower perimeter buildings would be needed, the 2,000-unit scenario was rejected as feedback from area legislators recommended that the project provide as many residential units as possible in order to fill the dire need for rental housing, and especially affordable rental housing, in the urban core of Honolulu.



Conceptual massing study model for the 2,000-unit scenario (View looking east)

In response, a 3,000-unit scenario was prepared. The 3,000-unit scenario was rejected over concerns for the massing and scale of the buildings and its visual impacts to the surrounding streets and properties. In order to accommodate the 3,000 units and the required parking relative to that density, the towers would all need to be built to the maximum height limit of 400' with all of the podium buildings fronting the streets being taller at nine to ten to stories. In addition, the second street connection through the site to Pua Lane is lost, which reduces connectivity of the site, and a full-level of underground parking would be needed to keep the parking structures at nine to ten stories above grade. However, the costs associated with the excavation given the shallow water table and lithified coral reef bedrock along the Pua Lane side of the property and the installation and ongoing maintenance of mechanical equipment required to ventilate and fire sprinkler the underground parking will add significant costs and electricity usage. It will also increase the potential of disturbing subsurface archaeological and historic remains, impacting neighboring properties, and a longer construction duration. It will also increase noise, vibration, and dust impacts during construction.



Conceptual massing study model for the 3,000-unit scenario (View looking west)

Downtown Neighborhood Transit Oriented Development (TOD) Plan Density. During the State EISPN comment period, a request was received to analyze the TOD density proposed in the then draft Downtown Neighborhood TOD Plan (2015 Draft Final version). In rough estimates, the above 2,000-unit scenario has an overall FAR of 3.9 with just over 2,000,000 SF in total building area (when roughly 125,000 SF is deducted from the total site area for the new internal streets). The 2015 draft of the Downtown Neighborhood TOD Plan previously allowed up to 1.9 FAR for the project site which if holding for the resulting site area (522,000 SF), would equate to an estimated 991,800 SF of permitted building area. This would translate into approximately 1,000 residential units if up to 80,000 SF of commercial space was maintained as part of the mix. The scenario is not preferred as it only increases the amount of rental housing units by 636 units as opposed to the preferred plan, which adds 2,084-additional units over the existing 364 public housing units.

Alternative Street Alignments and Site Plan Layouts. Throughout the master plan process, the design team tested various site plan layouts that accommodated the targeted number of residential and commercial uses, while providing the desired connectivity to the surrounding community and breaking up of the block sizes. These included multiple accesses off North Vineyard Boulevard, multiple accesses off Liliha Street, and an additional access at Desha Lane. Due to the higher speed traffic on North Vineyard Boulevard and complex intersection approaches and heavy traffic on Liliha Street, the preferred conceptual site plan only has one access off both those streets as the existing Liliha and Kukui Street intersection is already signalized and operating well and the higher speeds on North Vineyard Boulevard are not conducive to safe ingress and egress. Also, some of the street patterns created direct connections between Liliha Street and Pua Lane, and North Vineyard Boulevard and North King Street. These alignments were not favored by residents as it encouraged drivers to speed and cut through the site, causing potentially unsafe conditions. The preferred site plan balances increased and improved accessibility and connectivity through the site, with safety and traffic calming measures.

Study Sketches of Alternative Street Alignments and Site Plan Layouts

Alternative Phasing Plans. The proposed phasing plan estimates that the site will be redeveloped in five phases, each taking roughly two years to complete for a total of 10+ years. Other phasing plans were considered including redeveloping the entire site at once or in fewer increments. These may shorten the overall time period and simplify demolition and construction operations. However, they may increase traffic, noise, vibration, and air quality impacts related to demolition and construction during that time and would require more households to be relocated offsite in the initial phase and more disruption to more people. Given the shortage of affordable housing and rental units, this may require relocation to more distant locations or to undesirable locations. The proposed phasing attempts to minimize the number of households who need to be relocated offsite to ease the transition for current residents into their new units. A shorter construction timeline would also hasten the potential impacts to public services such as fire, police, and public schools giving the City and State agencies a shorter time period to adjust to the new community at MWH.

Net-Zero Energy Alternative. Another comment received during the State EISPN public comment period asked that a net-zero energy alternative be studied. In order for the project to be net-zero energy, it would have to generate 100 percent of the projected 9.7 MW of electricity demand created by the proposed project with renewable energy resources. Based on the renewable energy resources available at the site, and the density of the proposed uses within the site and the surrounding properties, the most feasible renewable energy source would be solar energy via photovoltaic (PV) electricity production. Based on current PV technologies, 1 MW or 1,000 kilowatts of power generated from photovoltaic panels would require roughly 4 acres of PV panels. For the full build-out of a 9.7 MW PV facility, approximately 39 acres of land would be needed to entirely offset the projected electricity load. The entire parcel is only 14.8 acres and would not be large enough to house the required number of panels.

Another possible means of achieving a net-zero energy project would be to acquire or lease roughly 40 acres of land and develop the facility and infrastructure to connect to HECO's grid. Rough estimates provided by the electrical engineer at $2.25 per Watt for a 10 MW facility would cost $25,000,000 not including the lease or cost of the land. If battery storage onsite is required, a 5 MW battery storage system would cost roughly $62,000,000 for a Lithium-Ion system and $10,000,000 for a lead-acid system. They also would require a large amount of space that would otherwise be used for residential, commercial, or community space and would be a potential fire hazard, which would need to be appropriately designed and located to minimize potential impacts. Also, if pursued by a third party provider, the connection of a 10 MW alternate energy facility to HECO's grid would require that: a competitive bidding process be conducted to establish the baseline price at which the electricity from the PV facility might be purchased; a Power Purchase Agreement (PPA) be negotiated between the PV facility developer and HECO; and Public Utilities Commission approval for the PPA be obtained. While a highly sustainable goal would be achieved and ongoing electricity costs would be eliminated to the benefit of future residents and site managers with a net-zero energy alternative, the site constraints, upfront costs, and complexity and timing of additional permitting and approvals to achieve implementation make this alternative infeasible at this time.

No Action Alternative [24 CFR 58.40(e)]:
The No Action alternative does not accomplish the stated project purpose and the State's goal of increasing the development of at least 22,500 affordable rental housing units available for occupancy by December 2026 as it leaves the existing site in its current condition. The existing 364 public housing units would remain, and no additional affordable rental housing units would be provided. It also leaves current residents in functionally obsolete units that require substantial maintenance and repair and have outlasted their useful life. Although the project was recently upgraded in 1984, the units will not be of high-quality sustainable design as the existing site was built in the early 1950s and does not meet current standards for ADA accessibility, contains lead-based paints and asbestos, and would require significant capital improvements to retrofit and upgrade. The current layout isolates it from the surrounding community by having the

residential units face inward and is completely surrounded by fencing, making it inaccessible except at the two vehicle access points on North Kukui Street and the five pedestrian gates which are locked at 10 PM nightly. The site will not be consistent with the Downtown Neighborhood TOD Plan for a higher intensity mixed-use community. It would continue to leverage federal sources of support as it currently does. However, it would not leverage private funding to maximize the efficiency and effectiveness of public resources.

ATTACHMENT 10

Mitigation Measures and Conditions [40 CFR 1505.2(c)]

Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Law, Authority, or Factor	Mitigation Measure
Historic Preservation	No further work is recommended for the four newly identified sites found during the Archaeological Inventory Survey. The evidence gathered during TCP's fieldwork indicate the presence of a project-area wide grading/bulldozing event that appears to have leveled the entire property of any previous structural remains. Also, no basalt boulders typically related to potential traditional, Hawaiian rock-structural remains were found in the excavated trenches other than late historic/early modern pit fills. There were also no naturally-occurring deposits of clean beach or dune sand that typically contain traditional Hawaiian burials in the test trenches, and historical evidence shows that almost the entire project site was a network of loʻi (pond-field kalo gardens) including loʻi iloko (kalo pond-field also used as a fishpond) and related house sites in the mid-1800s. However, archaeological monitoring will be done throughout construction of the project. In addition, the existing buildings within the MWH site were previously identified as being eligible for listing in the Hawaiʻi or National Registers of Historic Places under Criterion "A" for its association with significant historic events in the reconnaissance level survey. Therefore, Section 106 consultation was conducted and an MOA was executed by the Responsible Entity (Governor of the State of Hawaiʻi), the Hawaiʻi Public Housing Authority, the State Historic Preservation Division, MWH Partners, LLC, and the consulting party, the Historic Hawaii Foundation, on November 13, 2019 stipulating the actions required to mitigate the adverse effect of the proposed undertaking. In summary, the agreed upon mitigation includes: • Documentation of the Mayor Wright Homes Complex in compliance with National Park Service standards prior to demolition and submittal of National Park Services-approved documentation to the State Historic Preservation Division. Once approved by the State Historic Preservation Division, recordation is required at the Hawaiʻi State Archives, University of Hawaiʻi at Mānoa, and other local repositories; • Project design review by the State Historic Preservation Division and the Historic Hawaii Foundation at the schematic design and design development stages of the project to minimize or mitigate potential adverse effect to directly adjacent eligible historic properties;

Law, Authority, or Factor	Mitigation Measure
	• Documentary film production for educational purposes of the redevelopment effort and exploration and celebration of the unique history of MWH including a minimum of two oral histories of current or former residents; • Community education including interpretive materials on the Liliha/Pālama neighborhood, Native Hawaiian history of the area, summary of the historic aspects of MWH and its significance as public housing, identification of other eligible historic sites in the Liliha/Pālama neighborhood, and installation of at least five interpretive signs/displays by the time of occupancy of Phase 1 of the project; • Project construction mitigation including historic architectural pre-construction inspection surveys and noise and vibration controls including proper construction machinery use and maintenance; • Archaeological monitoring in accordance with a State Historic Preservation Division-approved archaeological monitoring plan; • Procedures requiring work to cease should additional archaeological or human remains be found during construction and proper notification and documentation occur per State and federal requirements; and • Annual summary written report submitted to all parties of the MOA detailing the work undertaken, scheduling changes that may materially affect the project timeline, and any problems encountered. Meetings will be held as necessary to resolve any issues. Although not specifically stipulated in the MOA, all building permits will also be routed to the State Department of Land and Natural Resources Historic Preservation Division for review. The MOA is attached as Exhibit14. According to the information provided by former and current residents of MWH, a potential cultural impact from the project may result from the inability of different ethnic groups to participate in culturally important activities, which they are currently restricted from as well. These impacts include, but are not limited to, the ability for groups to hold and participate in culturally significant gatherings and festivals, growing traditional crops and other foods for their own use, and engaging in any customary outdoor activities that require access to open space. The Cultural Impact Assessment concluded that the extensive cultural information gathered for the MWH warrants recommendations for cultural and community elements of the redevelopment project. The following recommendations for the redevelopment of MWH are based on information from formal interviews

Law, Authority, or Factor	Mitigation Measure
	conducted for the Cultural Impact Assessment as well as previous oral-history projects: • Include places where the tenants can plant small gardens in order to live in the Hawaiian lifestyle they grew up with, and to be allowed to grow culturally significant plants such as ti leaf and others (e.g., bananas, papaya, ginger, plumeria, etc.). • Include a funding stream whereby community programs, events and activities are designed and implemented that bring people of different ethnic/cultural groups together, and that provide safe and healthy activities for kids and teens. These programs, events and activities could include traditional and customary (cultural) practices that highlight the different groups that call MWH their home. The idea here is to help build community. • Develop a community-based garden program at the redeveloped MWH property so that residents can benefit from the raising and eating of fresh food. Well into the 20th century, major portions of the MWH property were still being used to grow food, including taro and other crops. Historic maps from as late as the 1920s show this continuing pattern of land use. Therefore, this recommendation about starting a community garden project or program would be consistent with the history of this place. The proposed MWH master plan includes a mix of community spaces where people can gather, recreate, and celebrate. At the heart of the plan is a community park flanked by the community center and a multipurpose hale where community activities can be held as well as informal gatherings for family and friends. In addition, the initial landscape concept incorporates several community gardens and raised food gardens throughout the site where future residents can grow their own food. Culturally significant plants and lei plants will also be considered in the landscape design of the project so the plantings can serve multiple purposes of being useful as well as providing shade, comfort, and aesthetics. MWH Partners, LLC are also committed to providing onsite community and social services to support future residents as well as partner with neighboring service providers to complement the services already available in the larger community. These may include and are not limited to childcare and afterschool activities, education and job training, elder care and support, food distribution and summer meals, and resident associations. Also, community festivals and celebrations may be held to commemorate the holidays and provide opportunities where the different ethnic groups can share their cultural traditions with other residents in the community. The MWH Partners, LLC is preparing a Human Capital Plan to guide them in creating a community that enhances the quality of life for its residents, which will continually be updated in their ongoing management of the site.

Law, Authority, or Factor	Mitigation Measure
Contamination and Toxic Substances	Given the age of the existing MWH facilities and the initial finding of lead-based and lead-containing paint and asbestos in one of the existing buildings, the Hawai‘i Public Housing Authority and MWH Partners, LLC will coordinate with the State Department of Health Asbestos Abatement Office of the Noise, Radiation and Indoor Air Quality Branch prior to demolition and work with contractors who are specifically trained in lead-based paint and asbestos containing materials abatement to safely remove these hazardous materials and limit any potential exposure to residents who may be onsite during demolition. Demolition activities associated with the proposed project would be subject to the requirements of Title 11 Hawai‘i Administrative Rules (HAR), DOH, Chapter 501, “Asbestos Requirements.” The proposed project would complete an Asbestos Renovation/Demolition Survey to determine the potential for the presence of asbestos-containing materials. Additionally, all demolition and construction activities would adhere to the provisions of the State Department of Health Construction and Demolition Waste Disposal General Guidance to ensure proper handling of potentially contaminated materials. Full inspections by certified inspectors will be carried out prior to demolition and a lead-based paint and asbestos-containing materials abatement plan developed with all required federal, State, and City agencies prior to demolition. All abatement work will be performed per all applicable State and federal requirements and guidelines. Upon completion of the work, all required clearances will be provided for the abated areas of work and lead based paint chips will be HEPA-vacuumed from the surrounding ground and placed in DOT-approved disposal containers. All material disposal manifests will be provided from certified disposal sites upon final disposition of the hazardous materials. A Phase II ESA was also performed and completed in July 2018 by Weston Solutions to determine if any of the identified RECs from the Phase I ESA require mitigation. They found no soil samples collected from soil borings were above the State Department of Health Unrestricted Environmental Action Levels (EAL). However, two out of three decision units (DU-06 and DU-35) tested above the State Department of Health Unrestricted EAL for lead. In addition, one groundwater sample result (GW-01) initially tested above the State Department of Health Unrestricted EAL for bromomethane and therefore was retested. Upon resampling GW-01, the bromomethane result was found to be below the Unrestricted EAL, making all groundwater results below the State Department of Health Unrestricted EALs for all analyzed contaminants. Based on the results and conclusions of the Phase II ESA, lead has been identified in soil at the subject property at concentrations above the Unrestricted Use EAL that may require additional activities to be performed. WESTON recommended the following:

Law, Authority, or Factor	Mitigation Measure
	• Additional multi-incremental sampling should be performed around all buildings in order to evaluate the lead contamination throughout the Site. • All contaminated soil above the Unrestricted Use EAL should be excavated and disposed of. Waste characterization soil samples should be collected and analyzed by toxicity characteristic leaching procedure to ensure proper disposal at an appropriate landfill. MWH Partners will comply and follow-up with the above recommended mitigation.
Hazards and Nuisances including Site Safety and Site Generated Noise - Noise	Short term construction activities for the redevelopment are expected to have temporary increases in ambient noise levels in the project area on an intermittent basis. Noise levels would fluctuate depending on the construction phase and type of construction activity (e.g. demolition, site preparation, pile driving, if necessary, etc.), equipment type and duration of use, distance between the noise source and receptor, and presence or absence of noise attenuation barriers and require mitigation. Construction noise levels in the vicinity of the project site would exceed the allowable noise levels listed by the State Department of Health Noise Reference Manual Oʻahu Edition for local levels as well as the allowable noise levels listed by the HAR for state-wide levels and will require a Noise Permit from the State Department of Health. Construction activity would typically occur from 7:00 a.m. to 6:00 p.m., Monday through Friday and 9:00 a.m. to 6:00 p.m. on Saturdays, Sundays, and holidays, which would help to minimize potential adverse effects to residents and neighboring properties from construction noise and vibration. In addition, to minimize the potential adverse effects related to construction noise, the following is recommended for the development and construction team: • The project applicant shall obtain a noise permit associated with exceeding a noise level of 78 dBA Leq as discussed in the Noise Reference Manual Oʻahu Edition. • The project applicant shall obtain a noise permit associated with exceeding the maximum permissible noise levels discussed in the Hawaiʻi Administrative Rules. • The construction contractor shall use specialty equipment with enclosed engines and/or high-performance mufflers. • The construction contractor shall locate equipment and staging areas as far from noise-sensitive receivers as practicable. • The construction contractor shall limit unnecessary idling of equipment. • The construction contractor shall install temporary noise barriers to enclose stationary noise sources, such as compressors, generators, laydown and staging areas, and other noisy equipment.

Law, Authority, or Factor	Mitigation Measure
	• Prior to the commencement of construction activities, notification shall be provided to the on-site residential uses that discloses the construction schedule, including the various types of activities and equipment that would be occurring throughout the duration of the construction period. • A "noise disturbance coordinator" shall be established. The noise disturbance coordinator shall be responsible for responding to any local complaints about construction noise. The noise disturbance coordinator shall determine the cause of the noise complaint (e.g., starting too early, bad muffler, etc.) and shall be required to implement reasonable measures such that the complaint is resolved. All notices that are posted at the construction site shall list the telephone number for the noise disturbance coordinator. Stationary noise generated at the site would primarily be generated from the operation of ventilation and air conditioning systems. Although the precise locations of these systems are unknown until detailed site plans are created, the described stationary noise sources may potentially exceed the maximum permissible sound levels as detailed in the HAR. Therefore, mitigation will project designers to include enclosures for mechanical equipment, such that noise levels do not exceed the maximum permissible noise levels listed in the HAR.
Hazards and Nuisances including Site Safety and Site Generated Noise - Vibration	Temporary vibration impacts will occur during construction. Construction activity can result in varying degrees of ground vibration based on the equipment and methods used for construction. Several buildings about the project site and several potentially sensitive buildings near the site were identified. Site visits performed by Terry A. Hayes Associates suggest that the majority of these buildings were constructed using engineered concrete and masonry. Federal guidance indicates that such buildings can withstand up to 0.3 inches per second without experiencing damage. In order to mitigate construction-related vibration impacts, construction activity should typically only occur from 7:00 a.m. to 6:00 p.m., Monday through Friday and 9:00 a.m. to 6:00 p.m. on Saturdays, Sundays, and holidays. In addition, to help minimize potential adverse effects associated with damage to adjacent buildings, contractors should implement the following mitigation measures for construction vibration for the sensitive structures such as the neighboring Fujii Store and Tenement Houses located close to proposed construction activities: • Prior to issuance of a grading/shoring permit, a qualified structural engineer shall survey the existing foundation and structural integrity of off-site buildings that will be located within 11 feet of large bulldozers and similar vibration-generating equipment and at the Fujii Store and Tenement Houses. The survey shall be submitted to the appropriate mitigation monitor. At the conclusion of vibration causing activities, the qualified structural engineer

Law, Authority, or Factor	Mitigation Measure
	shall issue a follow-on letter describing damage, if any, to the adjacent buildings. The letter shall identify recommendations for any repair and certify the completion of any repairs as necessary to confirm the integrity of the foundation and structure of the adjacent buildings. • If the construction plans call for high-vibration construction activities being performed close to structures, the contractor may be required to use alternative procedures that produce lower vibration levels. Examples of high-vibration construction activities include the use of pavement breakers, vibratory compaction, and hoe rams next to sensitive buildings. Alternative procedures shall include the use of non-vibratory compaction in limited areas and concrete saws in place of jackhammers or pavement breakers for demolition. • If piles are required to support new structures, pile driving shall be prohibited in places of cast-in-drilled-hole (CIDH) piles or caissons.
Hazards and Nuisances including Site Safety and Site Generated Noise - Air Quality	All demolition and construction activities will adhere to the provisions of the State Department of Health Construction and Demolition Waste Disposal General Guidance to ensure proper handling of potentially contaminated materials and will be mitigated as noted in the "Contamination" section above. Demolition and construction activity may also result in temporary emissions from vehicle exhaust and fugitive dust emissions from ground disturbance. All activities will comply with the relevant provisions of Section 11-60.1-33, HAR, on fugitive dust. Therefore, the following control measures are recommended to reduce fugitive dust emissions: • The construction contractor shall use water or suitable chemicals to control fugitive dust in the demolition of any existing buildings or structures, construction operations, the grading of roads, or the clearing of land. • The construction contractor shall apply asphalt, water, or suitable chemicals on roads, material stockpiles, and other surfaces which may result in fugitive dust. Ensure an adequate water source exists at the site prior to start-up of construction activities. • The construction contractor shall cover all moving, open-bodied trucks transporting materials which may result in fugitive dust. • The construction contractor shall maintain roadways in a clean manner. • The construction contractor shall promptly remove earth or other materials from paved streets which have been transported there by trucking, earth-moving equipment, erosion, or other means. The following control measures are recommended to reduce pollutant exposure to residences during the construction activities:

Law, Authority, or Factor	Mitigation Measure
	• Staging areas shall be located away from on-site residential land uses to create a buffer and alleviate potential nuisance problems. • On-site electricity shall be obtained from the electrical grid rather than temporary diesel or gasoline generators. • Equipment and vehicle engines shall be maintained in good condition and in proper tune per manufacturers' specifications. • All construction equipment and delivery vehicles shall be turned off when not in use or prohibit idling in excess of five minutes. Haul trucks in particular that stage waiting to be called to remove dirt from the site shall not be allowed to idle while queuing. • Additional care should be taken by contractors to minimize fugitive dust from materials being hauled to or away from the project site and mud and debris tracked onto adjacent roadways. • Contractors should also develop a dust control management plan for the different phases of construction, focusing on minimizing the amount of dust-generating materials and activities, centralizing on-site vehicular traffic routes, and locating potential dust-generating equipment in areas of the least impact. • Provide adequate dust control measures during weekends, after hours, and prior to daily start-up of construction activities.
Educational and Cultural Facilities	On-going discussions with the State Department of Education are being held to determine how the proposed project will support public education. As the project moves into design and construction, MWH Partners will continue discussions with the Hawai‘i Department of Education regarding impacts on student relocation and transition during the carious phases of this project. MWH Partners will coordinate with the Hawai‘i Department of Education to execute an educational contribution agreement to satisfy the State's school impact fee requirements.
Solid Waste Disposal and Recycling	The proposed project will support recycling as much as possible for both households and commercial uses as well as green wastes generated onsite. Detailed design will include but not be limited to onsite facilities to support separating wastes into recyclable and non-recyclable materials and for central collection facilities within the buildings. MWH Partners, LLC will also work with the City and contracted collection services to ensure as much recyclable materials are diverted from the waste stream from the project as they will be managing ongoing operations of the site once construction is complete. All remaining non-hazardous waste generated by the project must be disposed of at a solid waste management facility that complies with applicable State regulations of HAR, Chapter 11-58.1. No open burning of wastes either onsite or offsite will be permitted.
Public Safety – Police, Fire and Emergency Medical	Project designers will continue to work closely with City Police, the Honolulu Fire Department, and other public service providers during the detailed design of the facilities to ensure the new structures at MWH will

Law, Authority, or Factor	Mitigation Measure
	be easily accessible by emergency services to support favorable response times.
Transportation and Accessibility	**Vehicle Traffic.** Potential traffic improvements were identified to mitigate the project's cumulative impacts to the 3 intersections operating at undesirable levels of service even under baseline conditions. The emphasis was to identify physical and/or operational improvements that could be implemented within the existing or planned roadway rights-of-way and determine if improvements would be ultimately feasible. Each of the initially identified impacts would be reduced such that future plus project operations would be better than baseline conditions. Mitigation measures are discussed in detail below for each of the 3 intersections as well as their overall feasibility and recommendations for implementation. For the North Vineyard Boulevard and Liliha Street intersection, potential improvements for vehicle operations include the construction of a second Diamond-Head-bound left-turn lane on North Vineyard Boulevard by: • Taking four feet from the existing median; • Reducing the existing Diamond-Head-bound lanes to ten feet for the left-turn lanes; • Reducing the through lanes to eleven feet; and • Reducing the right-turn lanes to thirteen feet to accommodate right-turn buses. This option would address additional vehicle demand from the project and allow for intersections to operate at better than baseline levels in both the AM and PM peak hours. The reduced median strip would still be able to accommodate an ADA-compliant pedestrian refuge area and no sidewalks or adjacent properties would be impacted. Measures to improve vehicle operations at the intersection of North Vineyard Boulevard and A‘ala Street include the restriping of makai-bound lanes on A‘ala Street to provide a separate left-turn lane and a combined through/right-turn lane. This mitigation action is considered feasible since the roadway is a sufficient width to accommodate improvements without impact to bike or pedestrian facilities. The restriping would require the removal of five parking stalls on A‘ala Street, three on the ‘ewa side and two on the Diamond-Head side. These measures would allow the intersection to operate at a desirable level of service D in the PM peak period under Long-Term (2028) Full Buildout Conditions, which is assumed to balance out the reduction in on-street parking in the vicinity of the intersection. Due to the new driveway changes on Pua Lane, the following traffic calming enhancements and parking improvements are recommended for consideration:

Law, Authority, or Factor	Mitigation Measure
	• Consider installation of a neighborhood traffic circle at Pua Lane/Kanoa St/Project Makai Driveway - While there are already speed humps on Pua Lane to help moderate vehicle speeds, a neighborhood traffic circle at this intersection would further moderate vehicle speeds on the roadway and reduce the severity of potential collisions. The neighborhood traffic circle would also reduce stopping on Kanoa Street and the project's makai driveway. It should be noted that a neighborhood traffic circle would likely require elimination of several parking spaces on both sides of Pua Lane, mauka and makai of the neighborhood traffic circle. Install Metered Parking on Pua Lane - This modification would promote frequent turnover of parked vehicles on Pua Lane and would have to be implemented by the City & County of Honolulu Department of Transportation Services. The metered parking could be enforced only during typical daytime hours (e.g. 8 AM to 6 PM), so that in the evening, area residents or guests could park on Pua Lane for longer periods of time. • Install bicycle sharrows on Pua Lane and Kanoa Street - this would highlight the presence of bicyclists on this street and inform motorists traveling on Pua Lane to share the roadway. This improvement would provide a visual connection to the planned bike facilities on North King Street that are being planned as part of the City & County's Complete Streets project. • Install curb extensions on the makai corners of the N Vineyard Boulevard/Pua Lane intersection - this would increase pedestrian visibility through improved sight lines and also increase the pedestrian waiting space. Additionally, curb extensions would decrease the walking distance for pedestrians crossing Pua Lane. Given that this is improvement is on a State facility, coordination with DOT is required to implement this improvement. All roadway improvements to mitigate impacts will be the responsibility of the project and any improvements to State rights-of-ways must be approved by Hawai‘i Department of Transportation – Highways Division. Mitigation for direct impacts to State roadways are the responsibility of the project while regional improvements will be provided on a pro-rata basis. These improvements shall be constructed on a schedule acceptable to the Hawai‘i Department of Transportation – Highways Division. In addition to roadway improvements to accommodate additional vehicle demand, the proposed project could implement transportation demand management strategies to reduce overall site-generated traffic volumes. Application of transportation demand strategies that could lead to vehicle trip reduction, use of alternative modes, and better traffic management at the site could include, but are not limited to:

Law, Authority, or Factor	Mitigation Measure
	• Implementation of a detailed transportation demand program for residents and retail employees, which would be managed by a transportation demand coordinator who would organize and coordinate monitoring efforts, parking and traffic management plans, and the implementation of transportation demand and recommendations and modifications. • Provision of a transportation kiosk and on-line portal for information on ride-sharing, transit, bicycling, walking, and options for accessing the site without using a private automobile. • Partial- or fully-subsidized transit passes for on-site employees and/or residents. • Bike share, carpooling, and ride sharing programs. • Provision of secure and convenient bicycle racks adjacent to retail development, at communal open space, and residential buildings within the project site. • Unbundling parking from apartment units to reduce rental costs for some units and to incentivize use of non-auto travel modes. Prior to the implementation of any transportation demand measures, the project team will coordinate with the City and/or transit service providers. Short-term traffic impacts will result during construction for both onsite and offsite improvements. Traffic may be impacted when materials and equipment are transported to the site. Prior to construction being initiated on the Mayor Wright site, the project will prepare a construction traffic management plan (CTMP) to address how trucks and construction worker traffic will access and circulate around the project site. The current conditions on streets fronting the site at the time project construction is initiated will be used to make recommendations on construction traffic circulation, time periods to avoid, and other management strategies. The CTMP will be made available for review and comment by City and County Department of Planning and Permitting (DPP) and State of Hawai‘i Department of Transportation – Highways Division (HDOT-HWY) staff because both agencies will need to authorize encroachment and/or building-related permits. At that time, the project contractor will work with the affected agencies and coordinate with stakeholders to minimize construction traffic impacts, identify any potential circulation issues, and implement strategies to reduce or eliminate impacts. The conceptual master plan will continue to be refined and a construction traffic management plan based on the updated plan will be developed. Ingress and egress from the site will be based upon minimizing impacts to public traffic and the surrounding areas. It will detail any road or lane closures and potential impacts to any of the bus stops should they be required, and the construction team will work closely with the State and City on appropriate solutions to mitigate those impacts. If there is a need to temporarily relocate any bus stops, the area should be at least 150 feet in

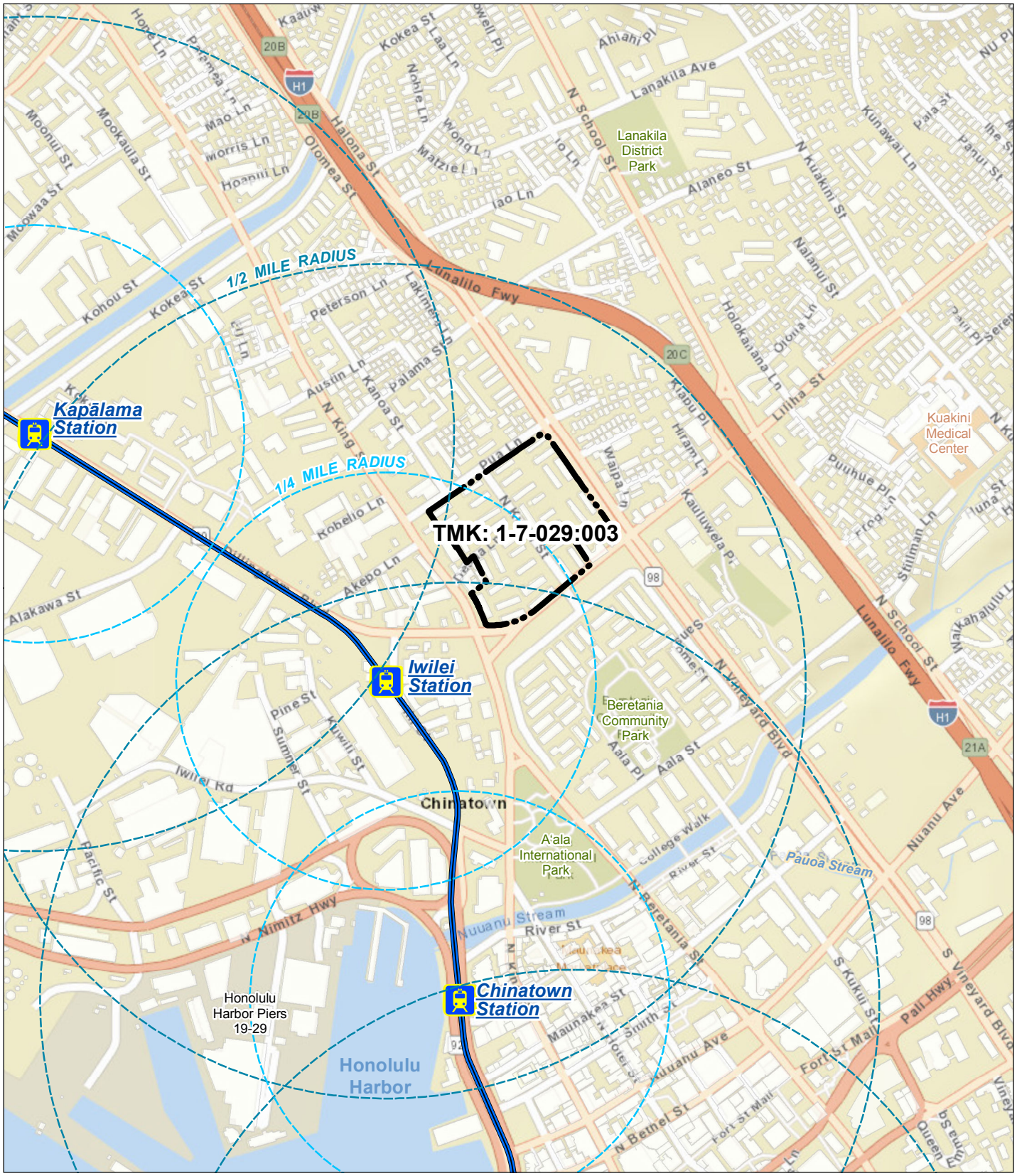
Law, Authority, or Factor	Mitigation Measure
	length to accommodate two 60-foot buses and will be coordinated with the Department of Transportation Services Public Transit Division. The Department of Transportation Services also recommends that construction materials and equipment be transferred to and from the project site during off-peak traffic hours (8:30 a.m. to 3:30 p.m.) as well as other best practice traffic management plans to minimize any possible disruption to pedestrians and traffic on the local streets and project driveways. Proposed improvements affecting the surrounding city and state road rights-of-way include new private driveway and sidewalk connections and underground and overhead utility infrastructure. The proposed underground utility infrastructure includes gravity sewer and water service improvements within Pua Lane, N. King Street and Liliha Street. Underground electrical primary distribution facilities are proposed within N. King Street as well as Liliha Street and Dillingham Boulevard. Permit requests to work within State and City rights-of-way will be sumbitted as required. Construction plans will be prepared by engineers licensed in the State of Hawai‘i and submitted to the HDOT Highways Division and to DPP for approval. HDOT Use and Occupancy Permits will be obtained for the improvements within state rights-of-way. The project team will collaborate with the Honolulu Police Department, the Department of Transportation Services to determine the optimum locations for entering and exiting the site during construction activities. The Honolulu Police Department and the Department of Transportation Services will be provided traffic plans prior to the start of construction once finalized with their input. Traffic plans will indicate the use of traffic controls (signage, coning, etc.), flag persons and off-duty officers as required. Per Honolulu Police Department’s recommendation, all necessary signs, lights, barricades, and other safety equipment will be installed and maintained by the contractor during the construction phase of the project. Prior to the commencement of construction, a pre-construction conference with subcontractors and suppliers will be held to communicate the traffic plan to all traveling and delivering material to the site. Safety orientations for all personnel working onsite will be held to educate them on the proper procedures for entering and exiting the site. Construction schedules should also be coordinated with other nearby properties that may have planned improvements to minimize potential impacts on adjacent streets wherever feasible. In addition, updates regarding potential traffic impacts during construction will be given to the public via media outreach and the project website. Direct updates can also be sent via email or other electronic methods as preferred to area residents, businesses, schools, City and State officials, emergency personnel, O‘ahu Transit Services, and others. Regular updates will also be shared at the monthly Kalihi-Pālama Neighborhood Board meetings.

Law, Authority, or Factor	Mitigation Measure
	Once construction commences, approved best management practices to control the release of sediment and other pollutants on area roadways must be installed to the satisfaction of the authority having jurisdiction. A National Pollutant Discharge Elimination System permit will also be submitted to the State Department of Health for approval, which will include a discussion of the best management practices proposed at the time of construction. Also, prior to completion of the project, any damages or deficiencies to the affected rights-of-ways caused by the project must be corrected to City and State standards and accepted by the City and State. These requirements will be incorporated into the construction documents. **Public Transportation.** The project team will coordinate with the Department of Transportation Services Public Transit Division to ensureire the project does not adversely affect public transit services including bus operations, bus routes, bus stops, and paratransit operations. Project plans will be submitted to the Department of Transportation Services Public Transit Division for review and approval. Short-term impacts to the bus stops directly adjacent to the site may occur during construction should there be any road or lane closures. Bus stops may have to be temporarily relocated away from construction activities impacting the fronting the property and the development team will work closely with City transit officials to provide safe alternatives for the bus stops. This will include safe pedestrian and ADA-accessible access to the temporarily relocated bus stops and full replacement of the bus stop once construction is complete. If there is a need to temporarily relocate any bus stops, the area should be at least 150 feet in length to accommodate two 60-foot buses and will be coordinated with the Department of Transportation Services Public Transit Division. **Pedestrian Facilities.** The multimodal transportation assessment also recommends pedestrian safety enhancements to the surrounding streets as part of the proposed project's mitigation measures that are currently required even without the proposed project at two intersections: • North King Street/Dillingham Boulevard/Liliha Street: Install Leading Pedestrian Intervals at all crosswalks. Leading Pedestrian Intervals give pedestrians a few seconds head start (typically three to seven seconds) when entering an intersection with the corresponding green signal. Relocate the existing signal box and signal pole on the mauka-‘ewa corner of North King Street/Liliha Street to behind (i.e. ‘ewa side) of the crosswalk. Straighten the makai crosswalk across Dillingham Boulevard and move the vehicle stop bar approximately fifteen feet back to straighten the skewed crosswalk and shorten the crossing distance for pedestrians by ten feet.

Law, Authority, or Factor	Mitigation Measure
	• North Vineyard Boulevard/Liliha Street: Install Leading Pedestrian Intervals at all crosswalks. Relocate all pedestrian push buttons so that they are within ten feet from the curb ramp.
Vegetation, Wildlife	Although no Federal or State of Hawai‘i listed Threatened, Endangered, or Candidate plant or wildlife species or their habitats were found on the site, U.S. Fish & Wildlife Service data indicates that the following federally listed species may occur or transit through the vicinity of the proposed project area: endangered Hawaiian hoary bat (*Lasiurus cinereus semotus*); endangered Hawaiian petrel (*Pterodroma sandwichensis*), threatened Newell's shearwater (*Puffinus auricularis newelli*), and endangered Hawai‘i Distinct Population Segment (DPS) of the band-rumped storm-petrel (*Oceanodroma castro*). The proposed project will minimize potential threats to native endangered and threatened seabirds and endangered Hawaiian hoary bats that may fly over the project by applying the following measures: <u>*Hawaiian hoary bat*</u> The Hawaiian hoary bat roosts in both exotic and native woody vegetation across all islands and will leave young unattended in trees and shrubs when they forage. If trees or shrubs 15 feet or taller are cleared during the pupping season, there is a risk that young bats could inadvertently be harmed or killed since they are too young to fly or may not move away. To avoid and minimize impacts to the endangered Hawaiian hoary bat we recommend you consider incorporating the following applicable measures into your project description: • Do not disturb, remove, or trim woody plants greater than 15 feet tall during the bat birthing and pup rearing season (June 1 through September 15). • Do not use barbed wire for fencing. <u>*Hawaiian seabirds*</u> Hawaiian seabirds may traverse the project area at night during the breeding, nesting and fledging seasons (March 1 to December 15). Outdoor lighting could result in seabird disorientation, fallout, and injury or mortality. Seabirds are attracted to lights and after circling the lights they may become exhausted and collide with nearby wires, buildings, or other structures or they may land on the ground. Downed seabirds are subject to increased mortality due to collision with automobiles, starvation, and predation by dogs, cats, and other predators. Young birds (fledglings) traversing the project area between September 15 and December 15, in their first flights from their mountain nests to the sea, are particularly vulnerable. To avoid and minimize potential project impacts to seabirds we recommend you incorporate the following applicable measures into your project description:

Law, Authority, or Factor	Mitigation Measure
	• Fully shield all outdoor lights so the bulb can only be seen from below bulb height and only use when necessary. • Install automatic motion sensor switches and controls on all outdoor lights or turn off lights when human activity is not occurring in the lighted area. • Avoid nighttime construction during the seabird fledging period, September 15 through December 15. In addition, measures will be taken to minimize any potential impacts to the endangered manu o kū or white tern (*Gygis alba rothschildi*) as their range and nesting area in urban Honolulu is growing according to the State Department of Land and Natural Resources, Department of Forestry and Wildlife. The project is also proposing to install more trees along the streets and within the project site, which may encourage the area's use by the manu o kū. The following protocols for surveying trees for the manu o kū and their eggs will be followed prior to tree trimming or removal by the proposed project's development and management team: • If there are no known manu o kū nests in the project area when work on any trees commences, then a quick survey of the trees should still be done before proceeding with any tree trimming or removal. The Department of Forestry and Wildlife O‘ahu Branch Wildlife Program should be contacted if there are any manu o kū or eggs seen onsite prior to the commencement of work. • If there are known manu o kū nests in the project area at the time when project work commences, a qualified individual (e.g., wildlife biologist) should make a more in-depth assessment and provide a timeframe in which tree trimming or removal can be done. Any tree trimming or tree removal work should proceed outside the nesting period, which can occur year-round. Therefore, site-specific monitoring should be done prior to any work on impacted trees.

FIGURES



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LEGEND

- Project Site
- Future Rail Station
- 1/4 Mile Radius from Future Rail Station
- 1/2 Mile Radius from Future Rail Station

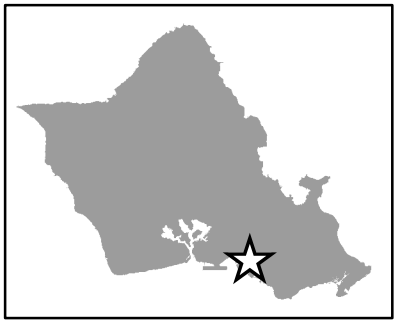


Figure 1
Regional Location Map
MWH Redevelopment

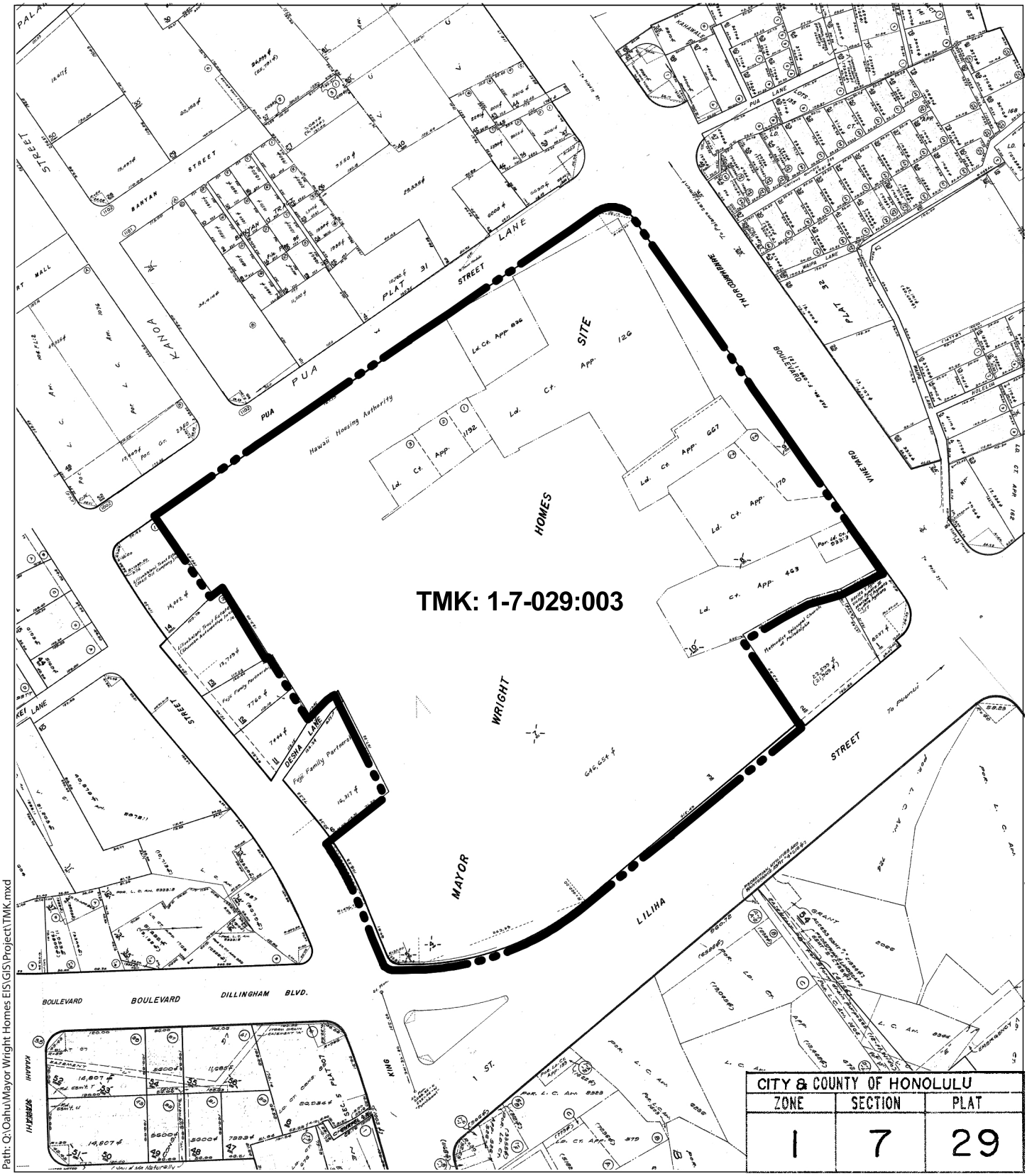
Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)
0 200 400 800

PBR HAWAII & ASSOCIATES, INC.

Source: Geographic Information System (GIS), ESRI World Street Map, 2016. City & County of Honolulu, 2017.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



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LEGEND

Project Site

Figure 2
Tax Map
MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)
0 50 100 200

PBR HAWAII & ASSOCIATES, INC.

Source: City and County of Honolulu, 1997.

Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.

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LEGEND

Project Site

Conceptual Master Plan (Subject to Change)

- **R-L** Potential Residential Low-rise
- **R-M** Potential Residential Mid-rise
- **R-H** Potential Residential High-rise
- **M-L** Potential Mixed-use[1] Low-rise
- **M-M** Potential Mixed-use[1] Mid-rise

- (P) Potential Parking Structure
- (*) Potential Bike Share Stations

1. "Mixed-use" can include a variety of uses such as, but not limited to, retail, commercial, residential, and community space, including a possible school.

Figure 3
Conceptual Master Plan
MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)
0 175 250 500

PBR HAWAII & ASSOCIATES, INC.

Source: Torti Gallas + Partners, 2017.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.

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LEGEND

Project Site

Roads

Figure 4
Aerial Photograph
MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)

0 75 150 300

PBR HAWAII & ASSOCIATES, INC.

Source: City and County of Honolulu, 2015. Pictometry, 2013.

Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.

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LEGEND

- Project Site
- Nearest Airport Runway

Figure 5
Distance from Airport
MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) Island of Oahu

North

Linear Scale (feet)
0 1,500 3,000 6,000

PBR HAWAII & ASSOCIATES, INC.

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community, Department of Defense Instruction Number 4165.57.

Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.

Playground area in center of MWH (Mauka view)

Playground area in center of MWH (Makai view)

MWH building frontage (Makai view across Vineyard Blvd.)

Pua Lane (Makai view from Vineyard Blvd.)

Back of MWH buildings along Desha Ln.

Bus stop near pedestrian entrance on King St.

Pedestrian entrance at the corner of King St. and Liliha St.

Vehicular entrance from Pua Ln.

Facade of 3-story walk-ups.

Hawai'i Literacy's Family Library at MWH

Potted plants define a family's front yard

Courtyard space between buildings

Courtyards with limited visibility

Pedestrian paths between buildings

Maintenance storage area

Alternative uses for existing courtyards

Mountain views from parking lot in MWH

Parking facilities at MWH

Courtyard at MWH and wide sidewalk along Vineyard Blvd.

Source: DPI/Torti Gallas Site Photos

Figure 6
Existing Site Photographs

MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) Island of O'ahu

PBR HAWAII & ASSOCIATES INC.

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LEGEND

Sole Source Aquifer

Southern Oahu Basal Aquifer

Figure 7
Sole Source Aquifer
MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) Island of O'ahu

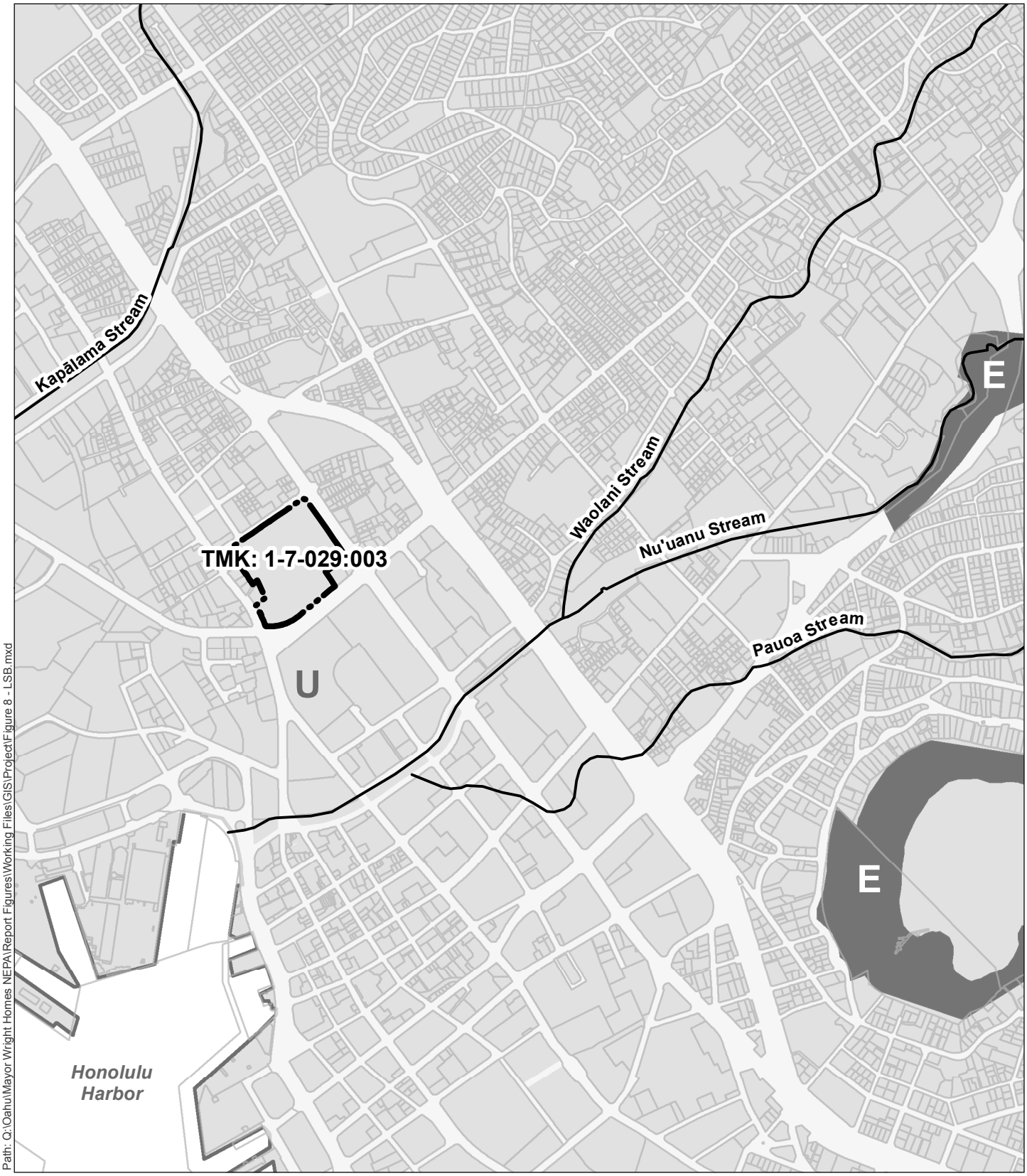
North

Linear Scale (feet)
0 1,250 2,500 5,000

PBR HAWAII & ASSOCIATES, INC.

Source: U.S. EPA Office of Water. ESRI Online Basemap.

Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



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LEGEND

- Project Site
- TMK Parcels
- Streams / Irrigation Ditches

Productivity Rating

- U - Unclassified
- E - Very Poor

Figure 8
Land Study Bureau Detailed Land Classification
MWH Redevelopment

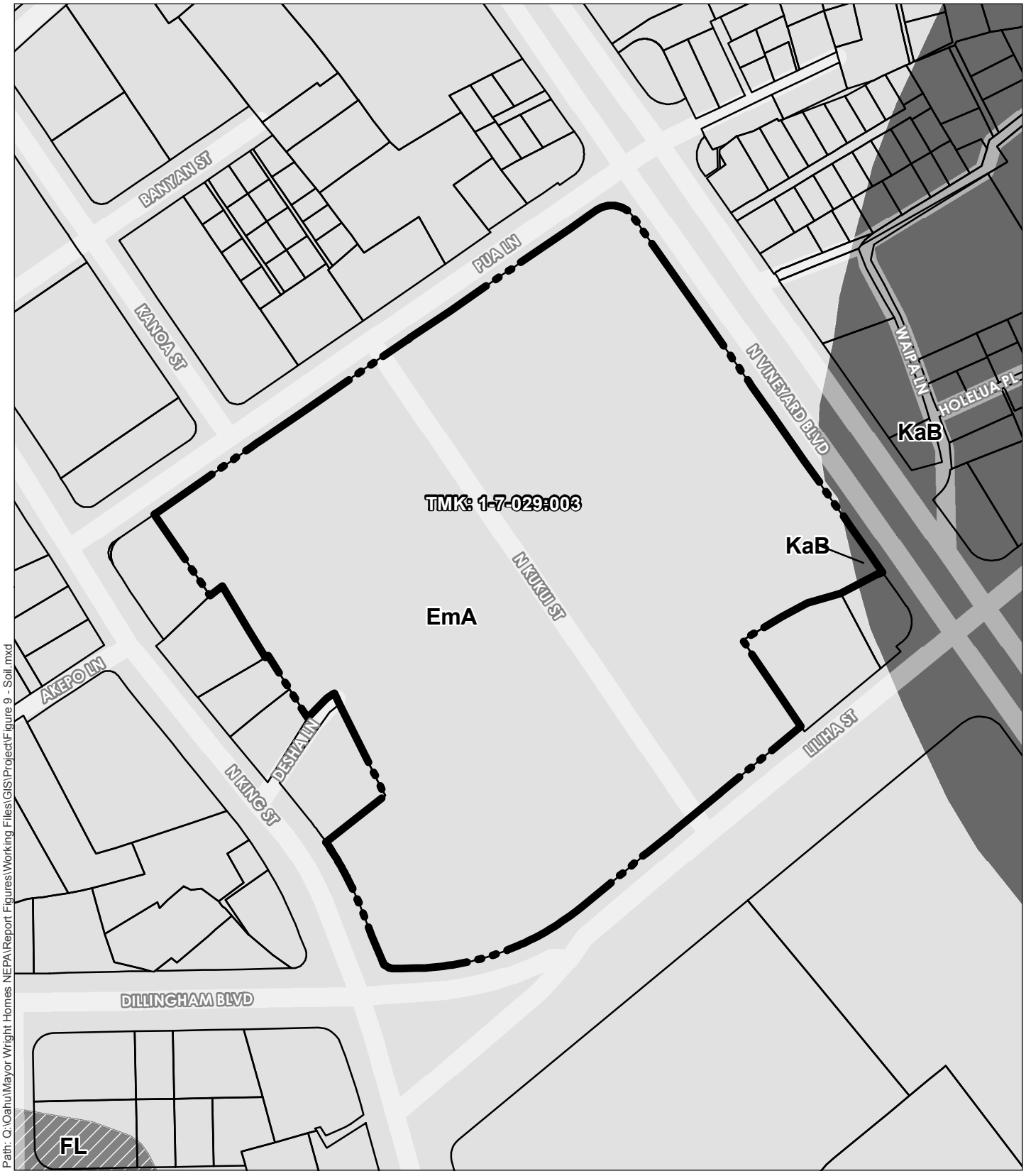
Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)
0 300 600 1,200

PBR HAWAII & ASSOCIATES, INC.

Source: Geographic Information System (GIS), City and County of Honolulu, 2015. Land Study Bureau, 1972.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



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LEGEND

- Project Site
- TMK Parcels
- Roads

Soil Classification

- EmA - Ewa Silty Clay Loam, 0 to 2% Slopes
- FL - Fill land, mixed
- KaB - Kaena Clay, 2 to 6% Slopes

Figure 9
Soils
MWH Redevelopment

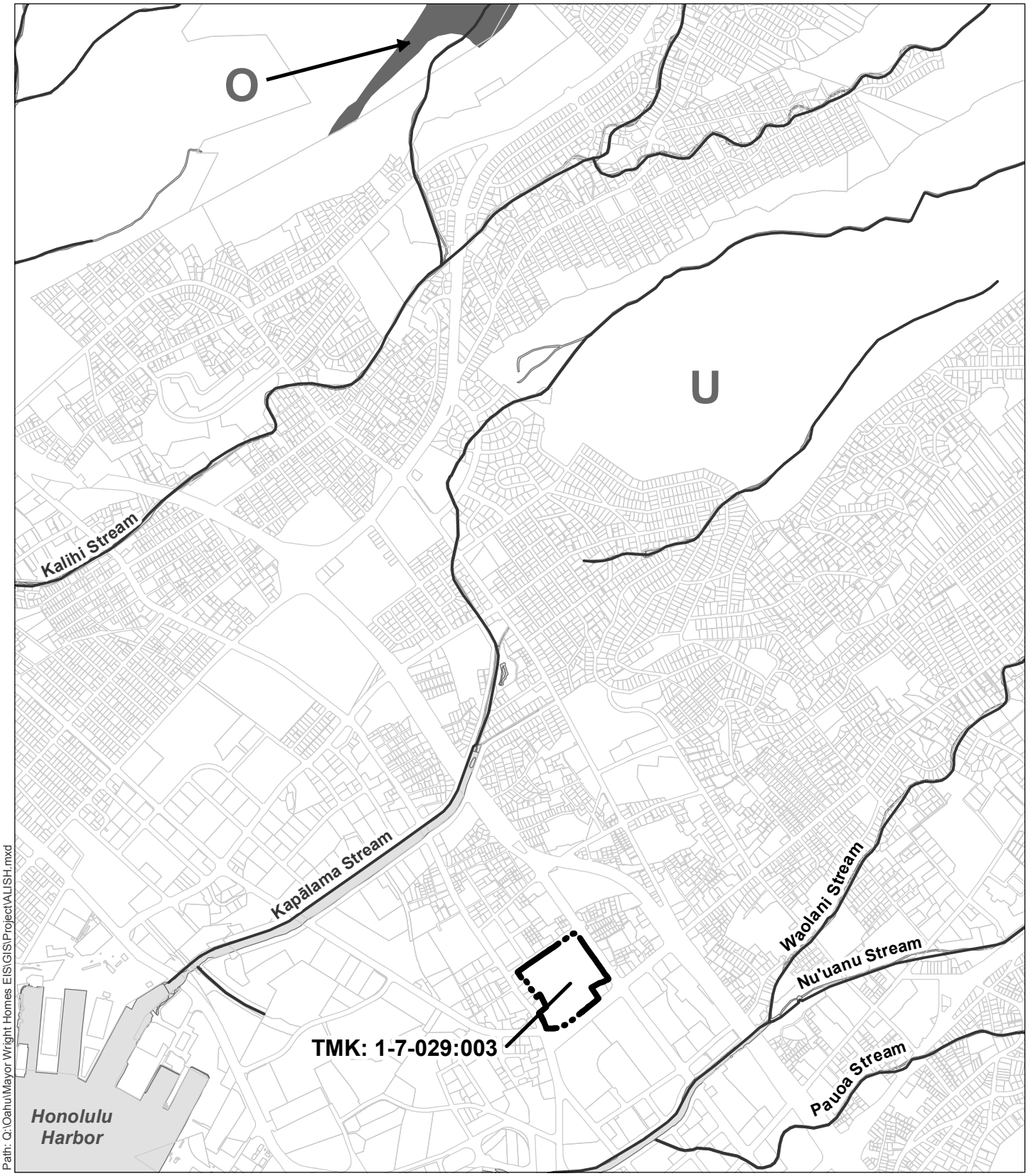
Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)
0 50 100 200

PBR HAWAII & ASSOCIATES, INC.

Source: Geographic Information System (GIS), City and County of Honolulu, 2015. Soil Survey, National Resource Conservation Science, 2015.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



LEGEND

- Project Site
- TMK Parcels
- Streams / Irrigation Ditches

ALISH

- O - Other ALISH
- U - Unclassified ALISH

Figure 10
Agricultural Lands of Importance to the State of Hawai'i (ALISH)

MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

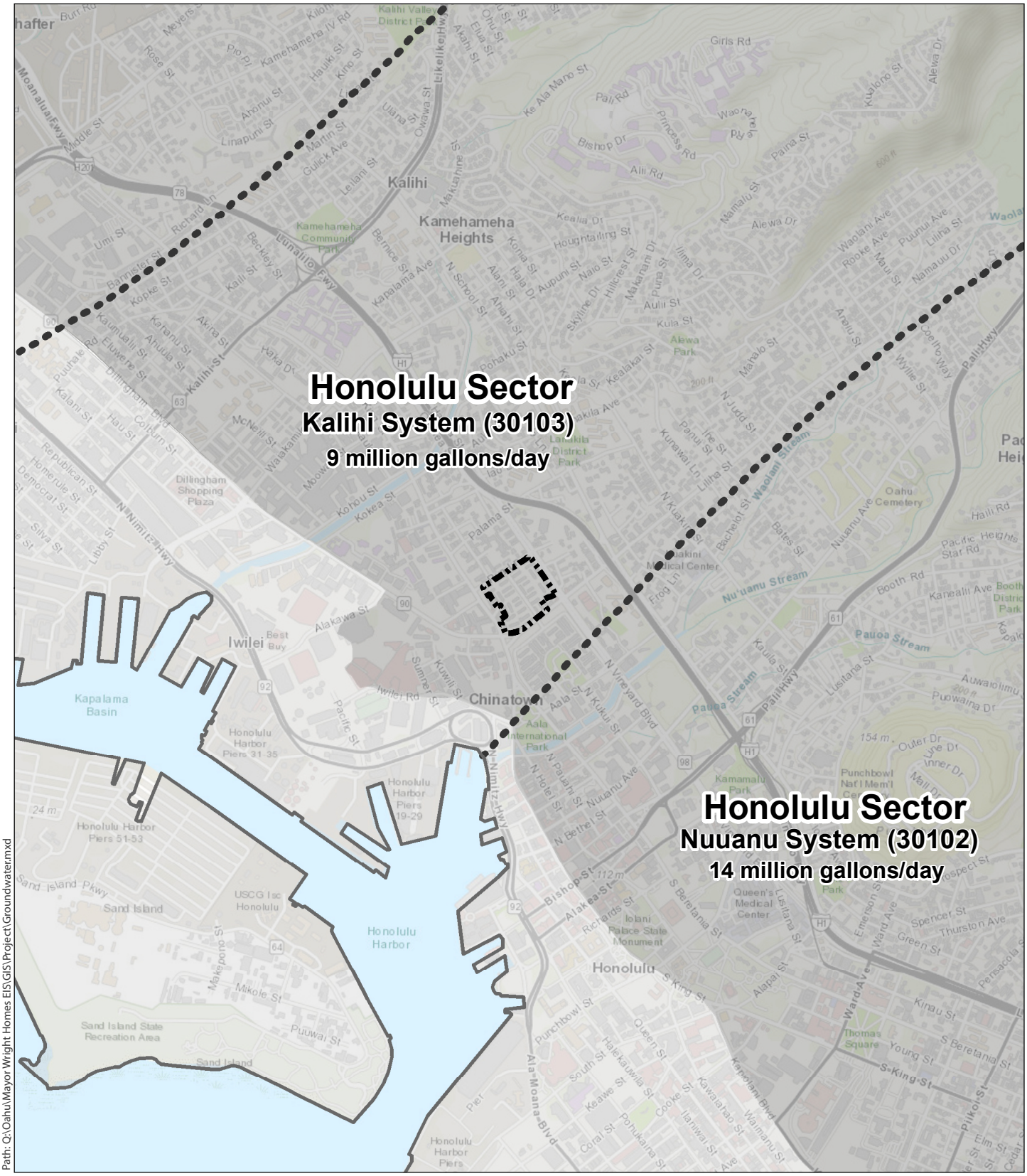
North

Linear Scale (feet)

0 400 800 1,600

PBR HAWAII & ASSOCIATES, INC.

Source: Geographic Information System (GIS), City and County of Honolulu, 2015. State of Hawai'i, Department of Agriculture, 1977.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



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LEGEND

Project Site

Aquifer System Boundary

Aquifer Sectors

Aquifer Systems

Underground Injection Control (UIC)

Below (makai) UIC Line

Above (mauka) UIC Line

Figure 11
Groundwater Resources
MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) Island of O'ahu

North

Linear Scale (feet)
0 500 1,000 2,000

PBR HAWAII & ASSOCIATES, INC.

Source: ESRI Basemap, State of Hawaii: Office of Planning, 2012.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.

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LEGEND

- Project Site
- Tax Map Key Parcels

Streams

- Not Perennial
- Perennial

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Pond
- Riverine

Figure 12
Surface Water
MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) Island of O'ahu

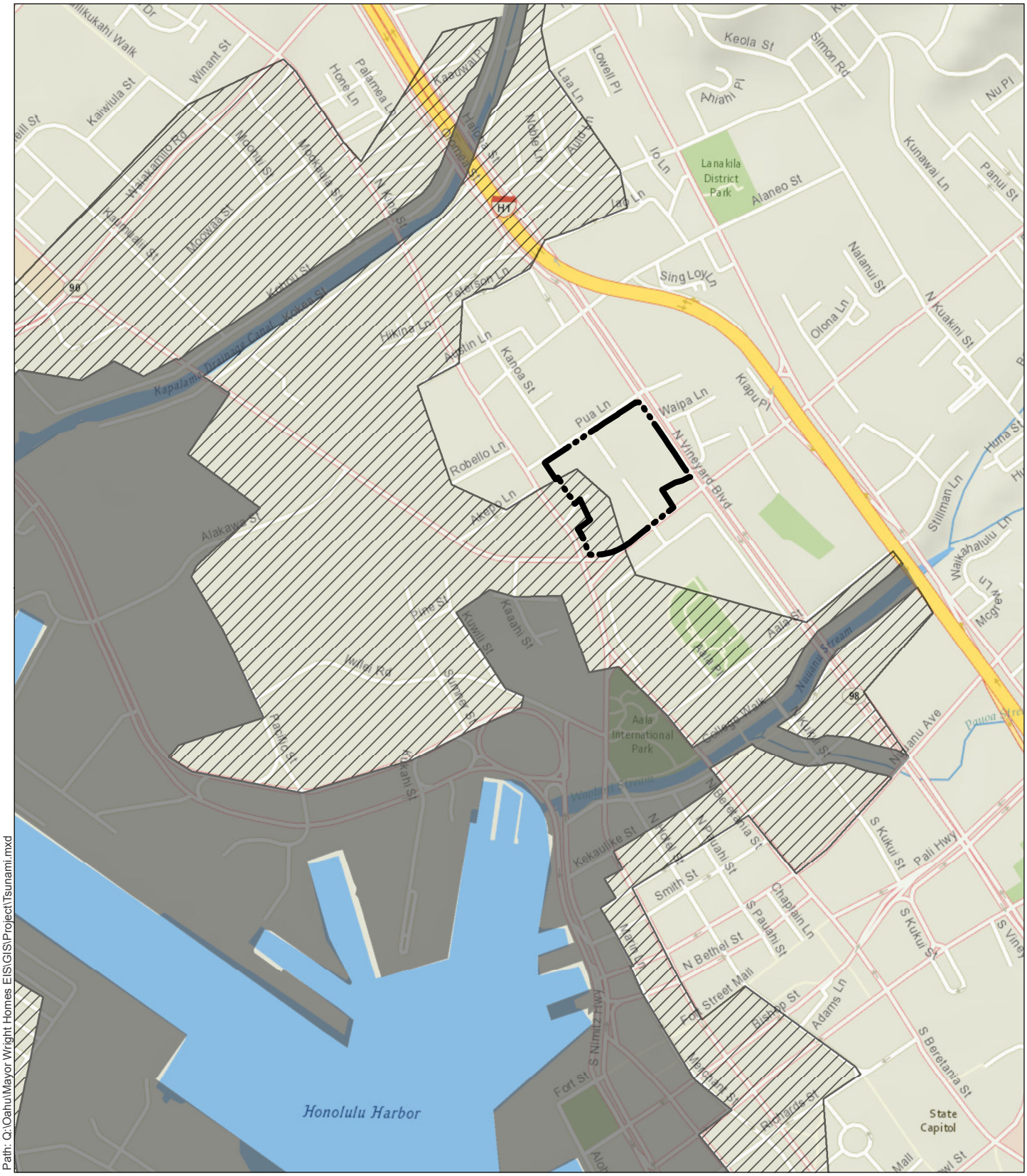
North

Linear Scale (feet)
0 200 400 800

PBR HAWAII & ASSOCIATES, INC.

Source: City and County of Honolulu, 2017. Hawaii Department of Land and Natural Resources Division of Aquatic Resources, 2008. Hawaii Department of Health, 2002. USFWS National Wetlands Inventory, 2016. GDSI, 1995.

Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



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LEGEND

- Project Site
- Tsunami Evacuation Zone
- Extreme Tsunami Evacuation Zone

Figure 13
Tsunami Evacuation Zones
MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)
0 250 500 1,000

PBR HAWAII & ASSOCIATES, INC.

Source: ESRI Basemap, State of Hawaii: Office of Planning, 2015.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.

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LEGEND

- Project Site
- Sea Level Rise (1 meter)

Figure 14
Simulated 1-Meter Sea Level Rise Inundation
MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

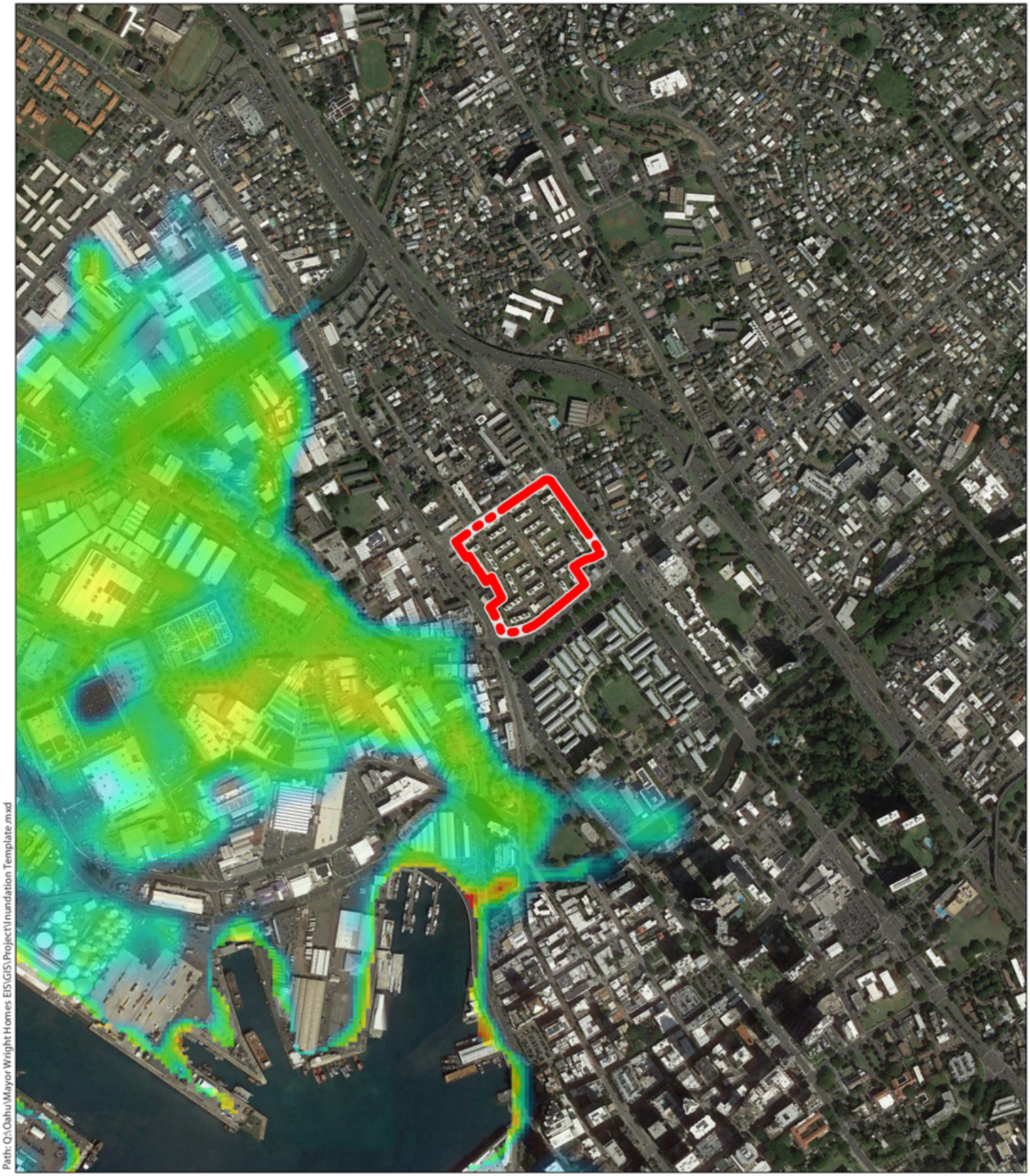
North

Linear Scale (feet)

0 250 500 1,000

PBR HAWAII & ASSOCIATES, INC

Source: PacIOOS, 2014. Google Earth, 2017.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



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LEGEND

Project Site

Hurricane Inundation
Water Depth (m)
- 2.0+
- 1.5
- 1.0
- 0.5
- 0.0

Figure 15
Simulated Category 4 Huricane Storm Surge Inundation (Current Sea Level)

MWH Redevelopment

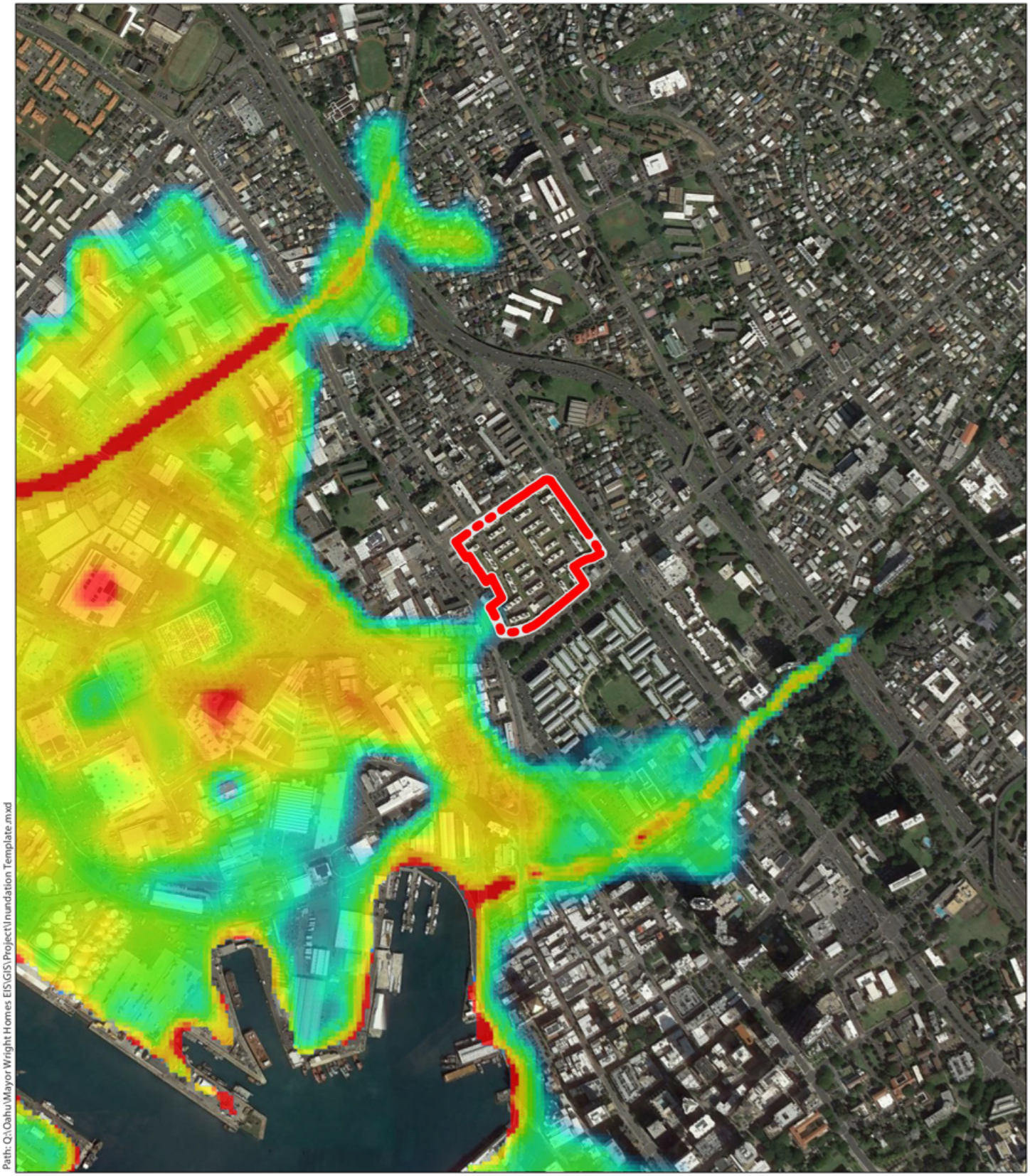
Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)
0 250 500 1,000

PBR HAWAII & ASSOCIATES, INC

Source: PacIOOS, 2014. Google Earth, 2017.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



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LEGEND

Project Site

Hurricane Inundation
Water Depth (m)
- 2.0+
- 1.5
- 1.0
- 0.5
- 0.0

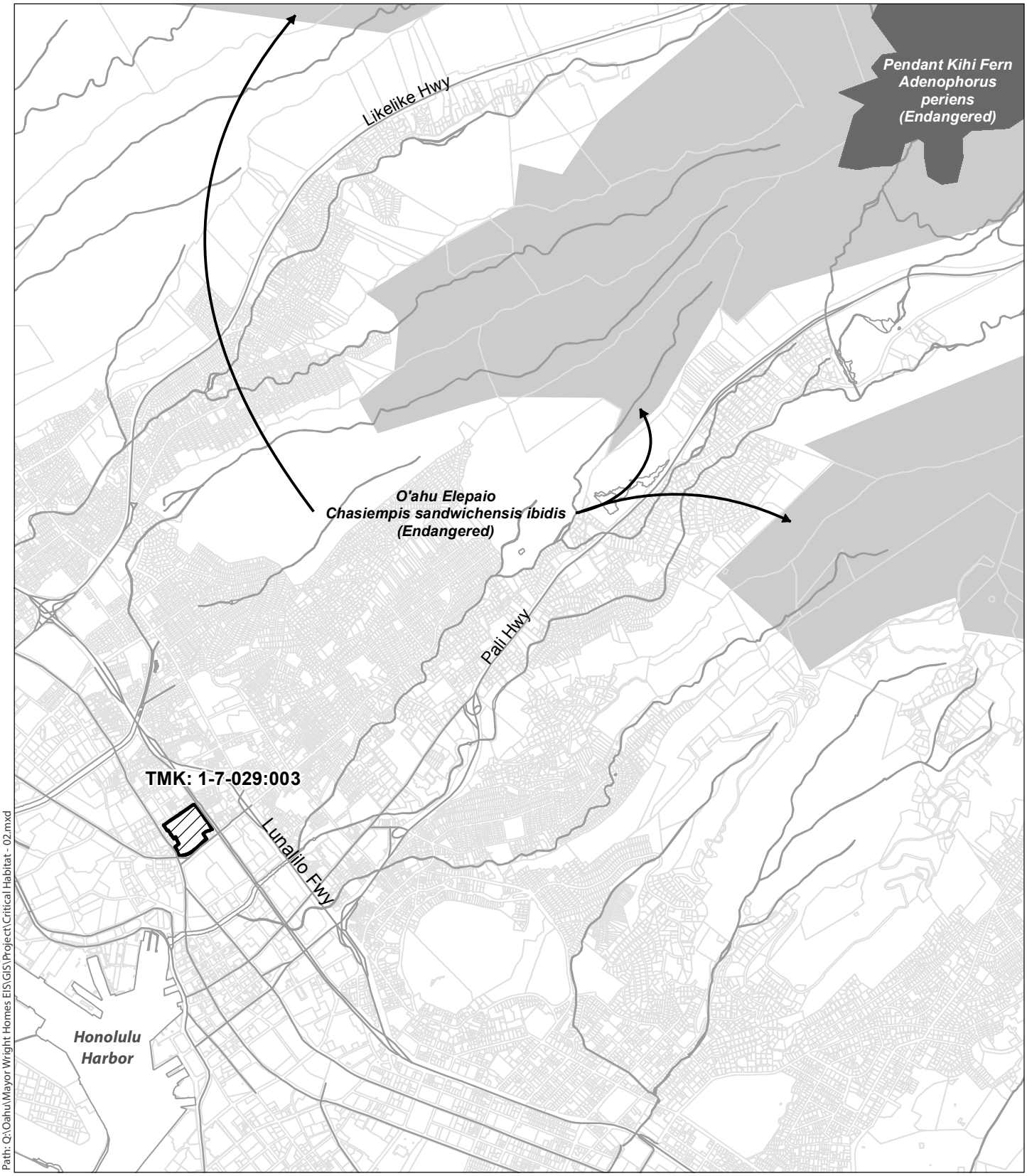
Figure 16
Simulated Category 4 Hurricane Storm Surge Inundation (+1m Sea Level Rise)
MWH Redevelopment
Hawai'i Public Housing Authority (HPHA)
Island of O'ahu

North

Linear Scale (feet)
0 250 500 1,000

PBR HAWAII & ASSOCIATES, INC.

Source: PacIOOS, 2014. Google Earth, 2017.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



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LEGEND

- Project Site
- TMK Parcels
- Animal Critical Habitat
- Plant Critical Habitat

Figure 17
Critical Habitats
MWH Redevelopment

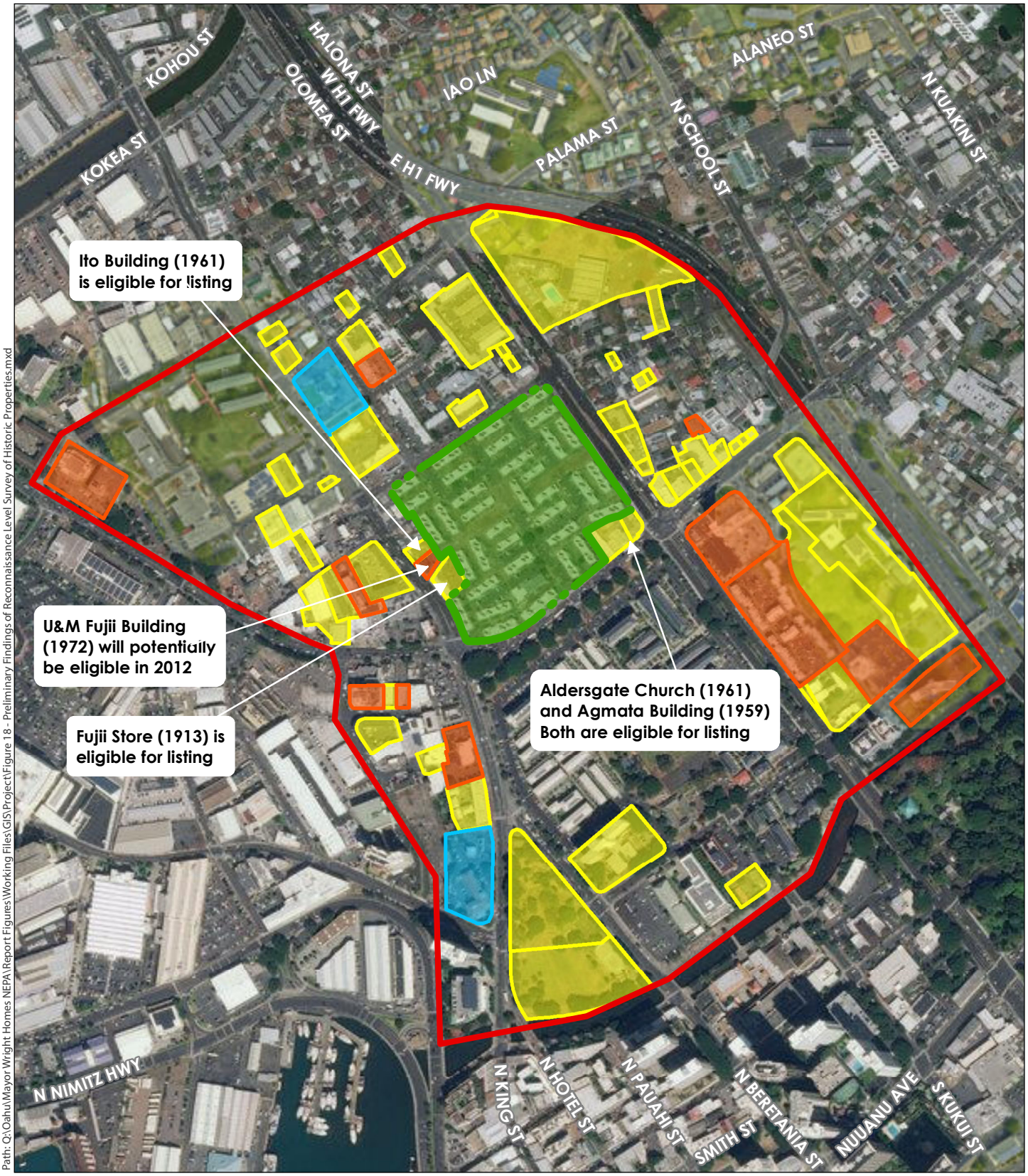
Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)
0 750 1,500 3,000

PBR HAWAII & ASSOCIATES, INC.

Source: Geographic Information System (GIS), U.S. Fish and Wildlife Service (2015).
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



Path: Q:\Oahu\Mayor Wright Homes NEPA\Report Figures\Working Files\GIS\Project\Figure 18 - Preliminary Findings of Reconnaissance Level Survey of Historic Properties.mxd

LEGEND

- Project Site
- Survey Boundary
- Potentially Eligible at a Later Date
- Listed
- Eligible

Figure 18
Preliminary Findings of Reconnaissance Level Survey of Historic Properties
MWH Redevelopment

Hawai'i Public Housing Authority (HPHA)
Island of O'ahu

North

Linear Scale (feet)
0 150 300 600

PBR HAWAII & ASSOCIATES, INC.

Source: ESRI Basemap. Department of Planning and Permitting, 2017. Fung Associates, Inc., 2017.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.

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LEGEND

- Project Site
- Study Intersection

Note: Intersection #5 becomes the mauka access on Pua Lane in the "with project" scenarios.

Figure 19
Traffic Study Intersections
MWH Redevelopment

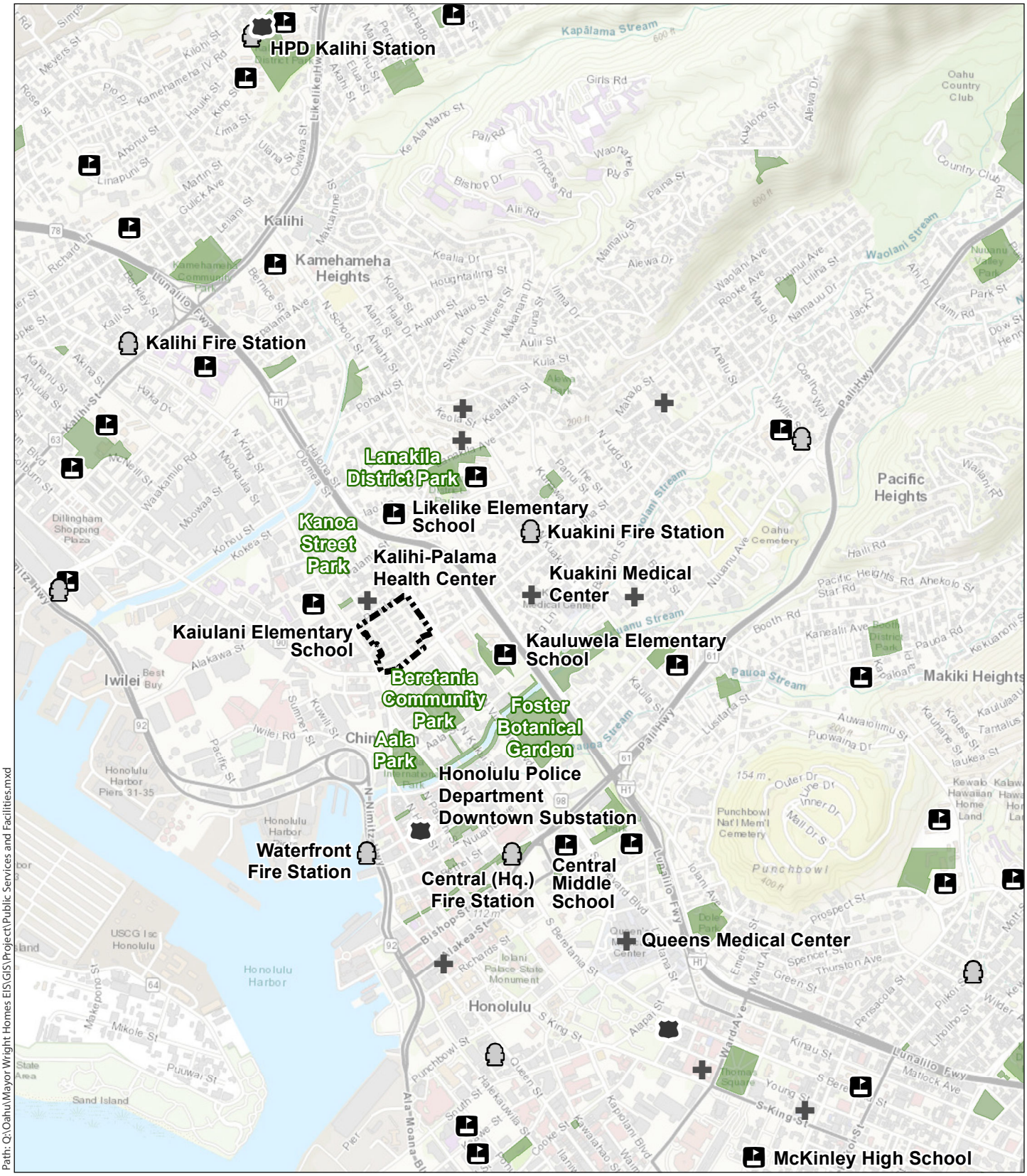
Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)
0 300 600 1,200

PBR HAWAII & ASSOCIATES, INC

Source: Fehr & Peers, 2017.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



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LEGEND

- Project Site
- Park
- Police Stations
- Fire Stations
- Medical Centers
- Emergency Shelters
- Public Schools

Figure 20
Public Services and Facilities
Mayor Wright Homes

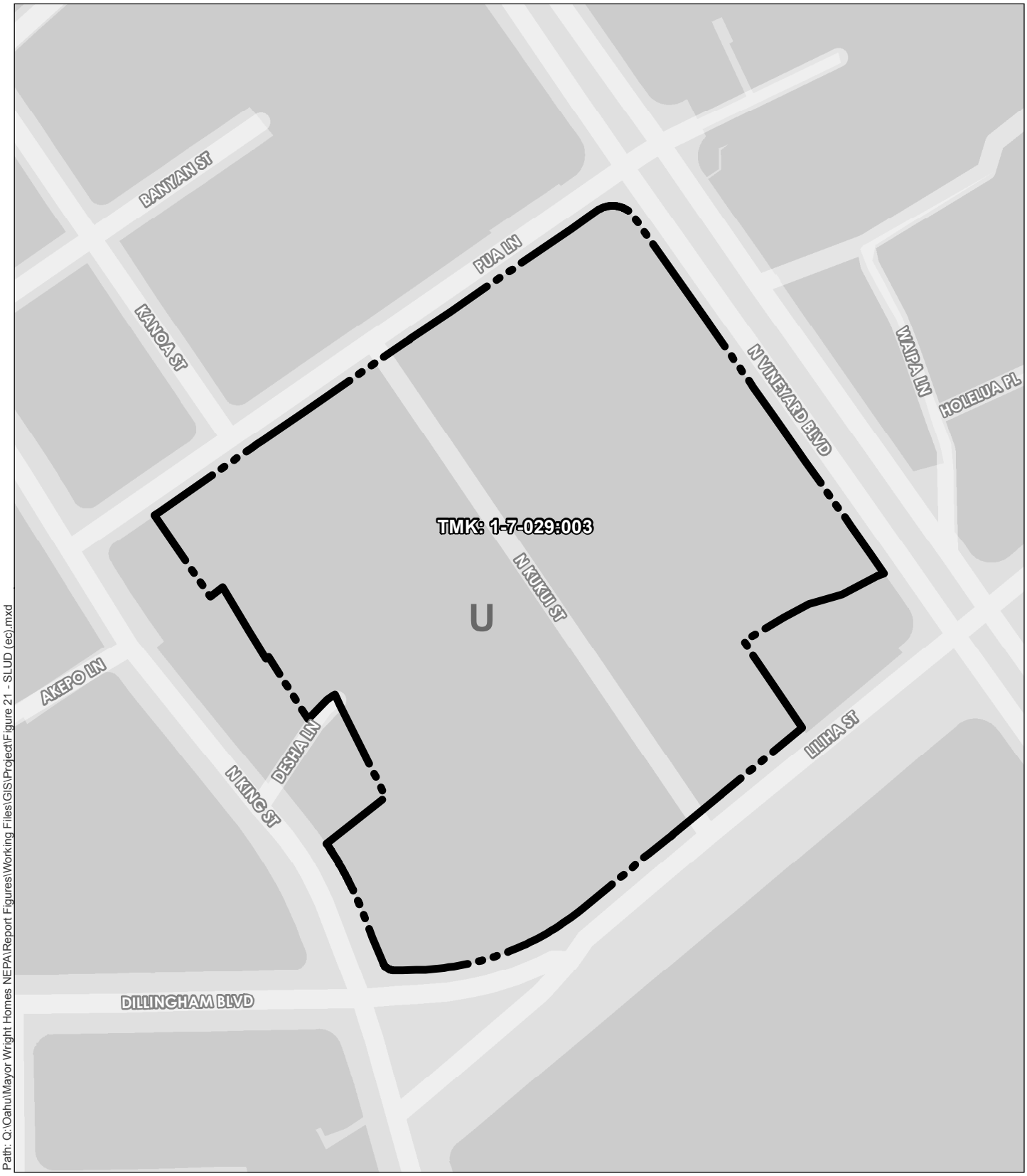
Hawai'i Public Housing Authority (HPHA)
Island of O'ahu

North

Linear Scale (feet)
0 500 1,000 2,000

PBR HAWAII & ASSOCIATES, INC.

Source: ESRI Basemap, City & County of Honolulu, 2014.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



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LEGEND

Project Site

Roads

State Land Use District

A - Agricultural

C - Commercial

R - Rural

U - Urban

Figure 21
State Land Use District
MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) Island of O'ahu

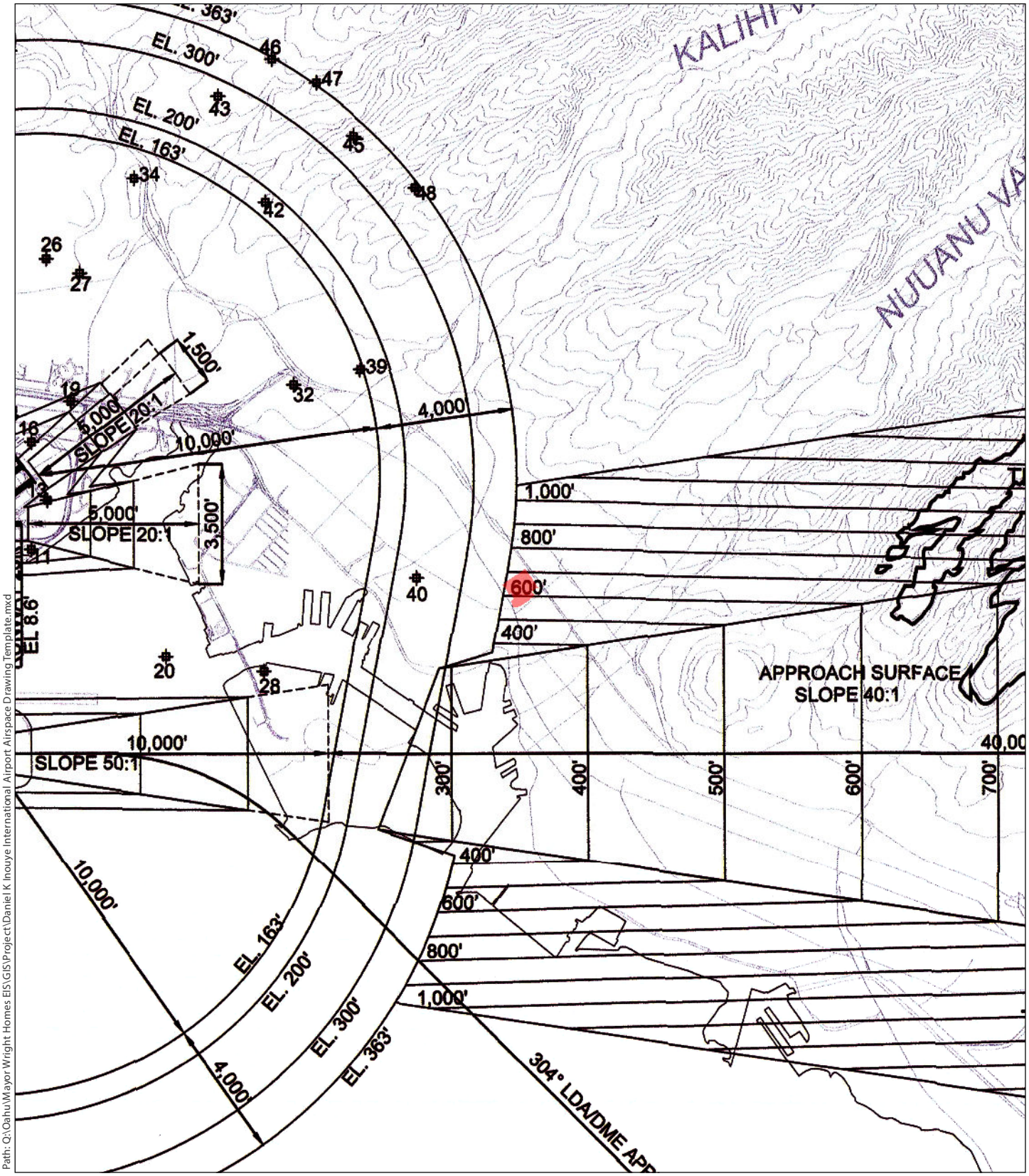
North

Linear Scale (feet)

0 50 100 200

PBR HAWAII & ASSOCIATES, INC.

Source: Geographic Information System (GIS), City and County of Honolulu, 2015. State of Hawai'i, Land Use Commision, 2014.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



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LEGEND

Project Site

Figure 22
Daniel K Inouye International Airport Airspace Drawing
MWH Redevelopment

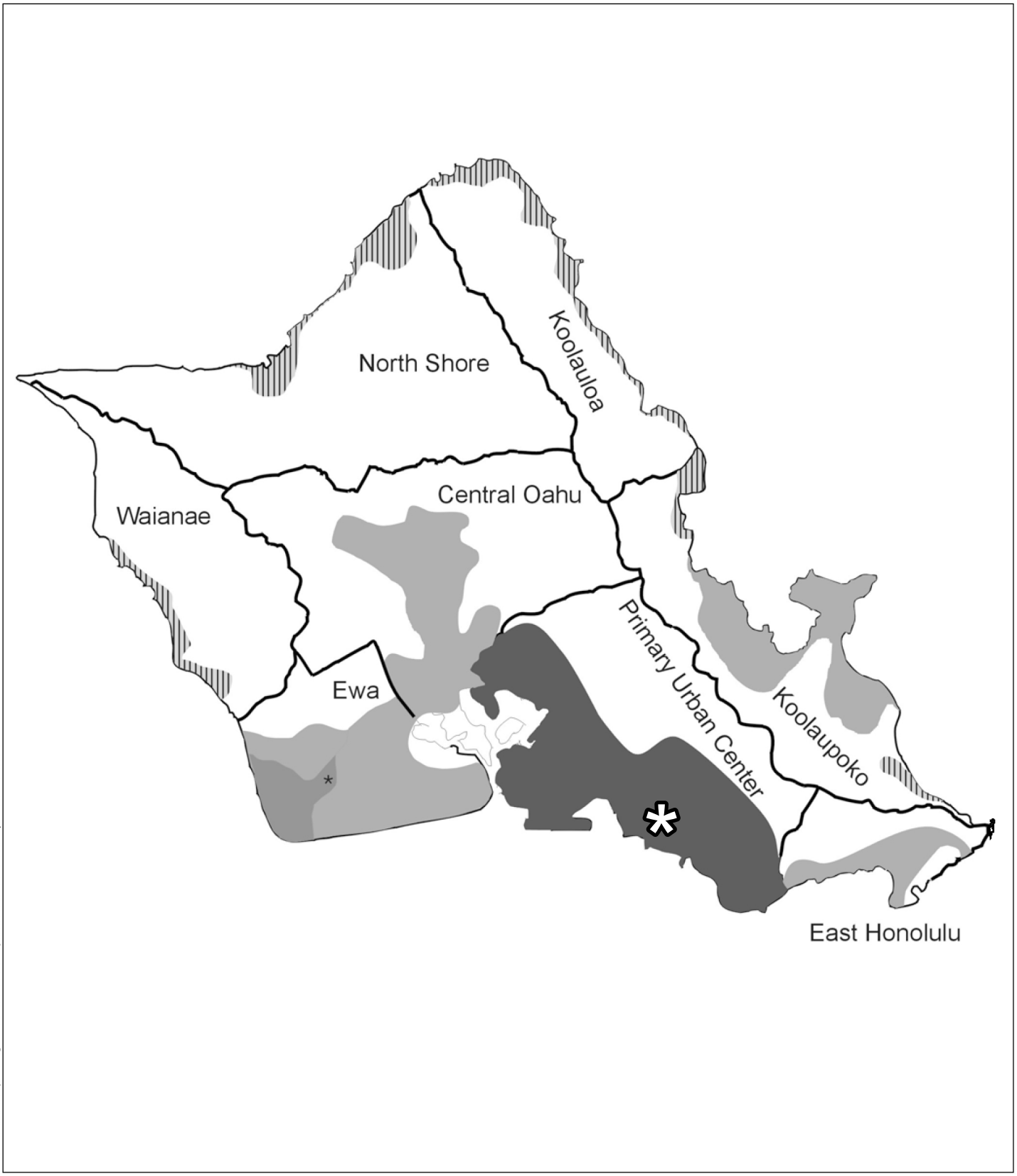
Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)
0 1,000 2,000 4,000

PBR HAWAII & ASSOCIATES, INC.

Source: Department of Transportation, State of Hawaii, 2013.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



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LEGEND

- Project Site
- Primary Urban Center
- Secondary Urban Center
- Urban - Fringe
- Rural

Figure 23
General Plan
Development Pattern
MWH Redevelopment

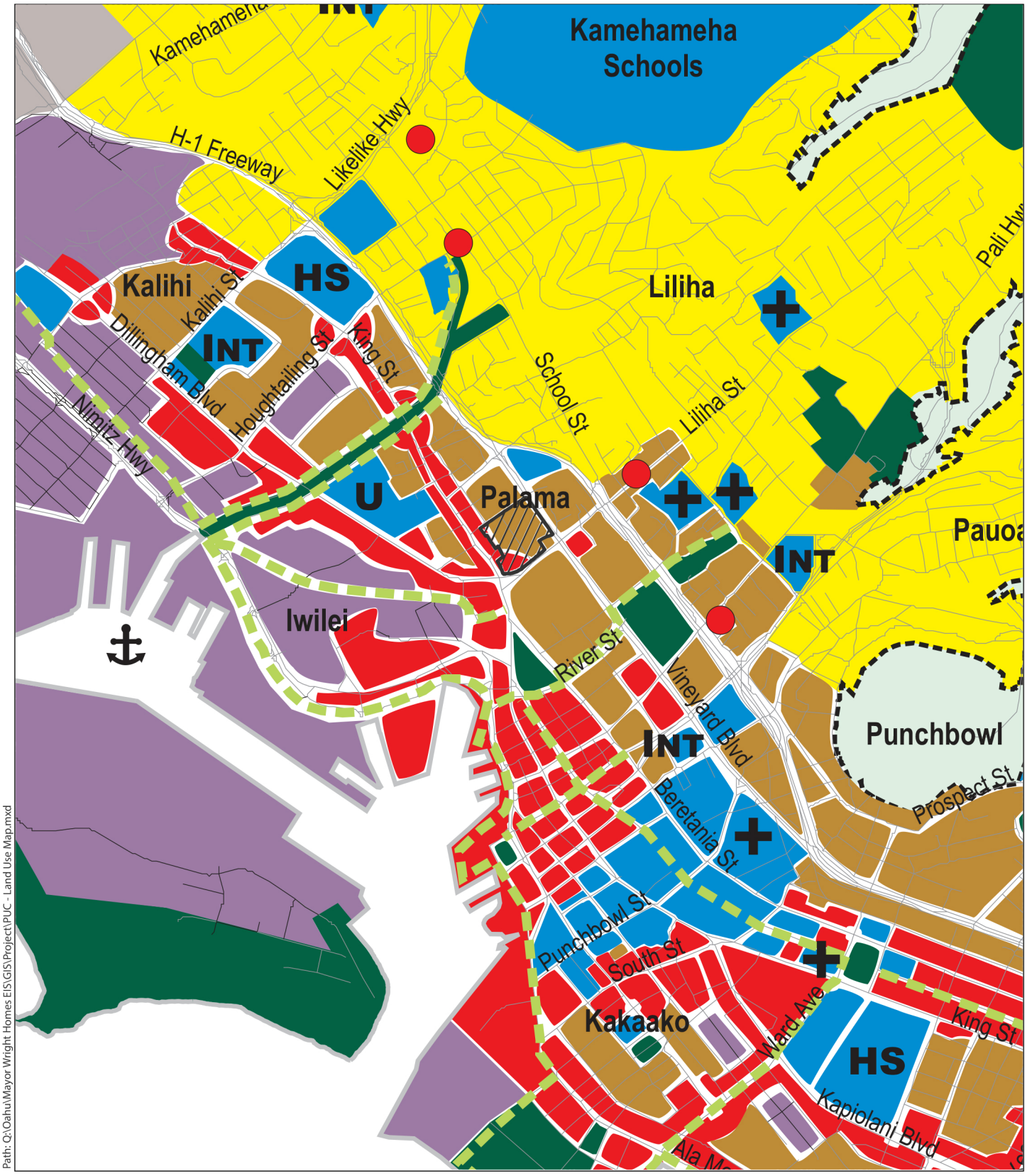
Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)
0 7,500 15,000 30,000

PBR HAWAII & ASSOCIATES, INC

Source: Department of General Planning, 2002.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



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LEGEND

- Project Site
- Lower-Density Residential
- Medium & Higher-Density Residential/Mixed-Use
- Community/Neighborhood Commercial
- District Commercial
- Industrial
- Resort
- Institutional
- Major Parks & Open Space
- Preservation
- Military
- Urban Community Boundary
- Pedestrian Network
- U College/University
- ✚ Hospital/Medical Center
- INT Intermediate School (State)
- HS High School (State)
- Small Boat Marina
- Harbor
- Airport

Source: City and County of Honolulu, 2004.

Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.

Figure 24
Land Use Map
Primary Urban Center DP

MWH Redevelopment

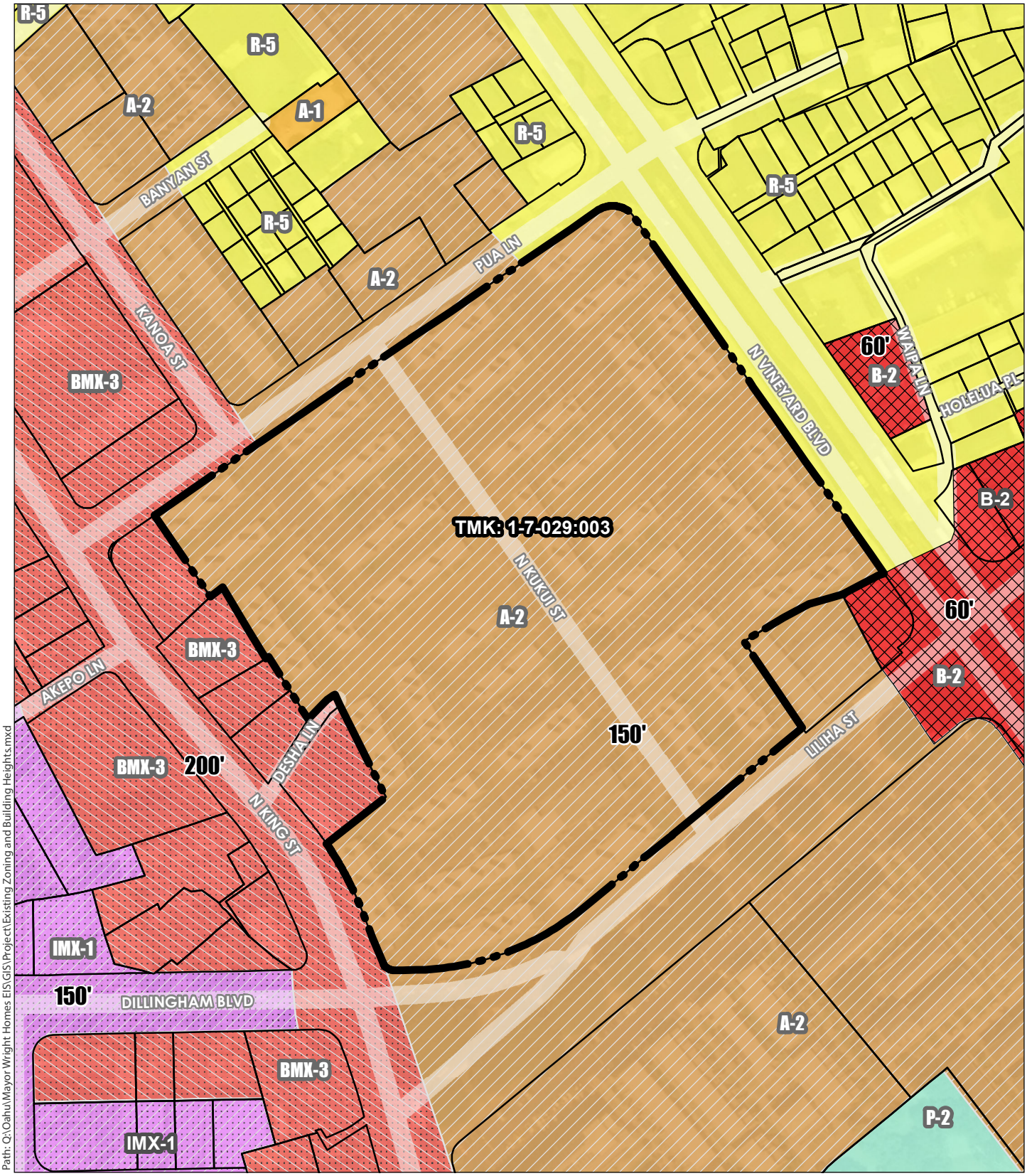
Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)

0 500 1,000 2,000

PBR HAWAII & ASSOCIATES, INC.



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LEGEND

Project Site

TMK Parcels

Zoning

P-2

R-5

A-1

A-2

B-2

BMX-3

IMX-1

Maximum Height Limits

60'

150'

200'

Figure 25
Existing Zoning and Height Limits
MWH Redevelopment

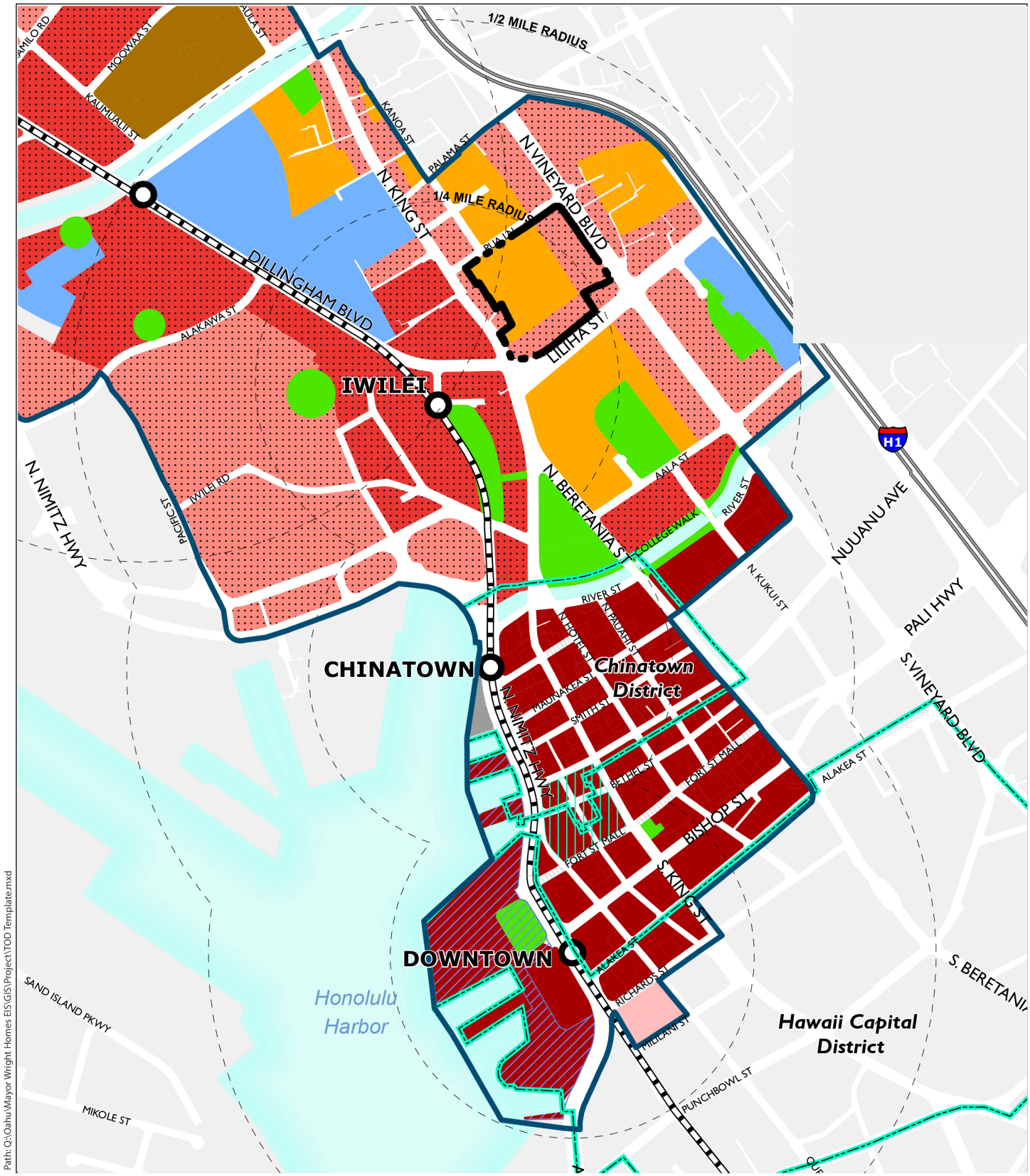
Hawai'i Public Housing Authority (HPHA)
Island of O'ahu

North

Linear Scale (feet)
0 50 100 200

PBR HAWAII & ASSOCIATES, INC.

Source: Geographic Information System (GIS), City and County of Honolulu, 2016.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



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LEGEND

- Project Site
- Medium Density Residential
- High Density Residential
- Urban Mixed Use-Medium
- Urban Mixed-Use-High
- Downtown Mixed Use
- Commercial Office
- Industrial
- Public/Quasi-Public
- Public Park
- Rail Transit Line/Station
- TOD Zone
- Special Districts Area (under LUO)
- Merchant Street Historic District
- Aloha Tower Development Corporation

Source: City and County of Honolulu, 2015.

Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.

Figure 26
Land Use Plan
Downtown Neighborhood
TOD Plan

MWH Redevelopment

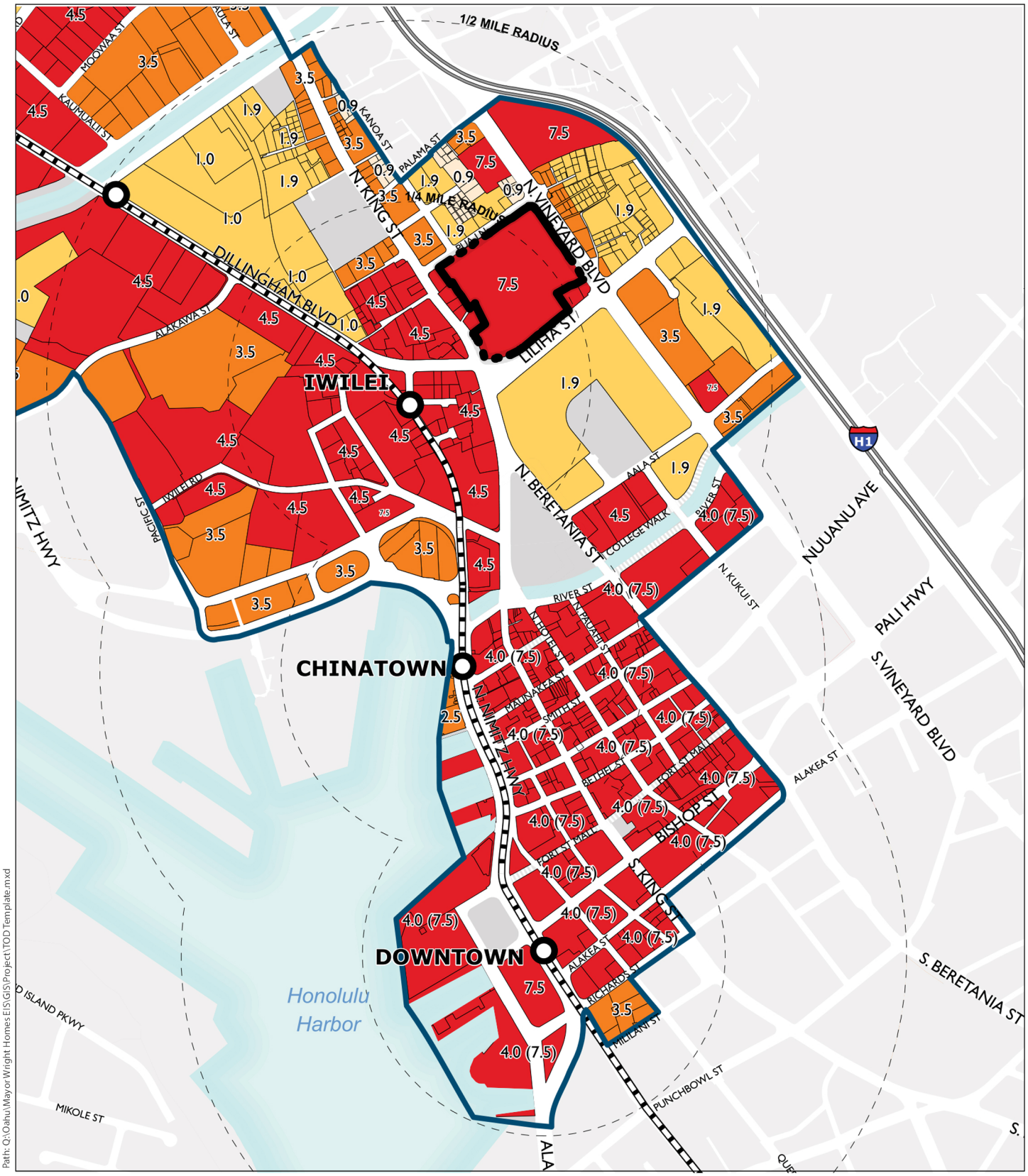
Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)

0 250 500 1,000

PBR HAWAII & ASSOCIATES, INC.



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LEGEND

- Project Site
- 0.5 - 0.9 FAR
- 1.0 - 1.9 FAR
- 2.0 - 3.9 FAR
- 4.0 - 7.5 FAR
- Public/Open Space
- X.X Maximum FAR
- (X.X) Maximum with Bonus where Applicable
- Rail Transit Line/Station
- TOD Zone

Figure 27
Maximum Building Intensity (FAR)
Downtown Neighborhood TOD Plan
MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

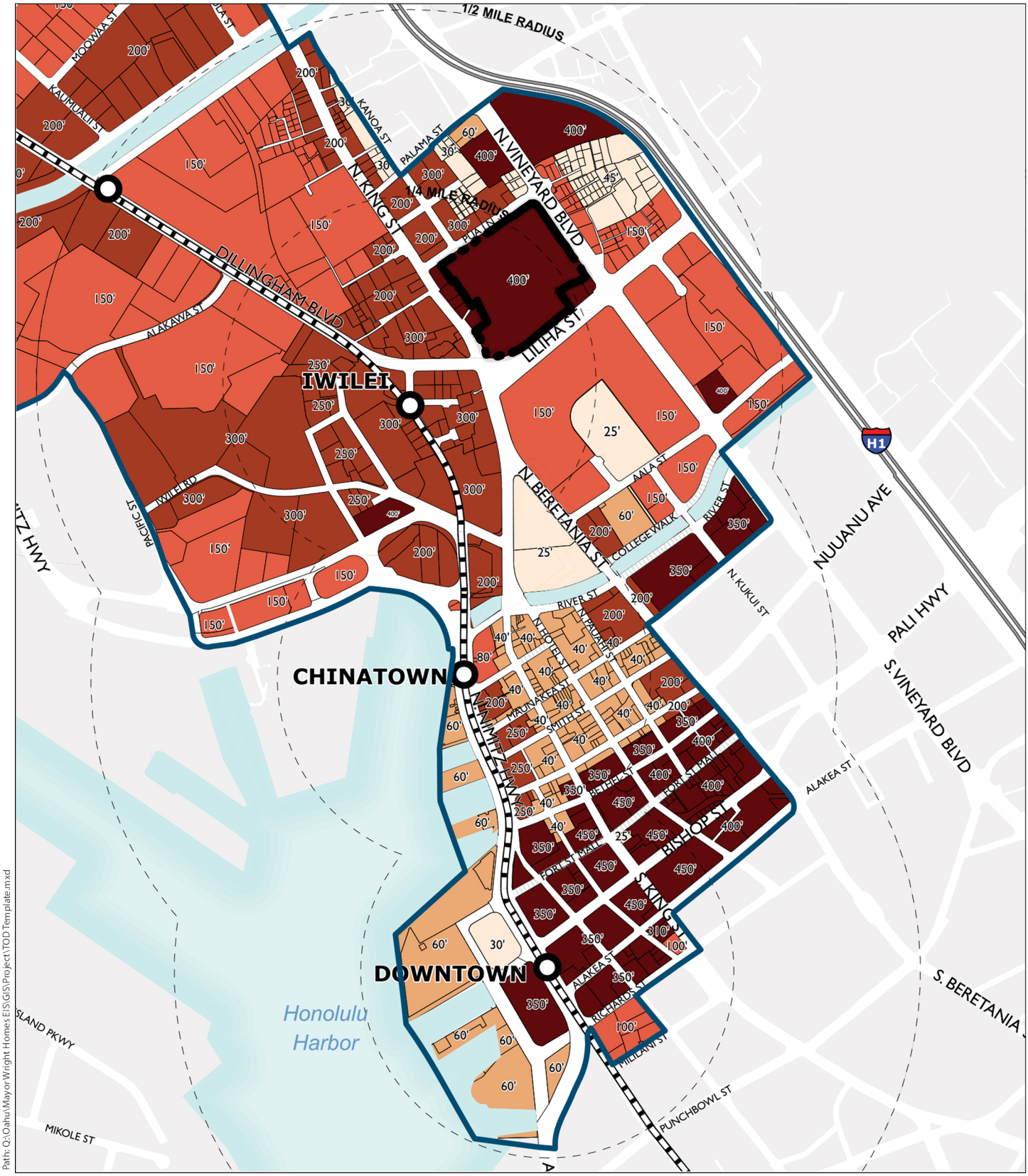
North

Linear Scale (feet): 0 250 500 1,000

PBR HAWAII & ASSOCIATES, INC.

Source: City and County of Honolulu, 2017 (Figure 2-6).

Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



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LEGEND

Project Site

- ≤ 30 ft
- > 30 to 60 ft
- > 60 to 150 ft
- > 150 to 300 ft
- > 300 ft

XX' Maximum Height

Rail Transit Line/Station

TOD Zone

Figure 28
Maximum Building Heights

Downtown Neighborhood TOD Plan

MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

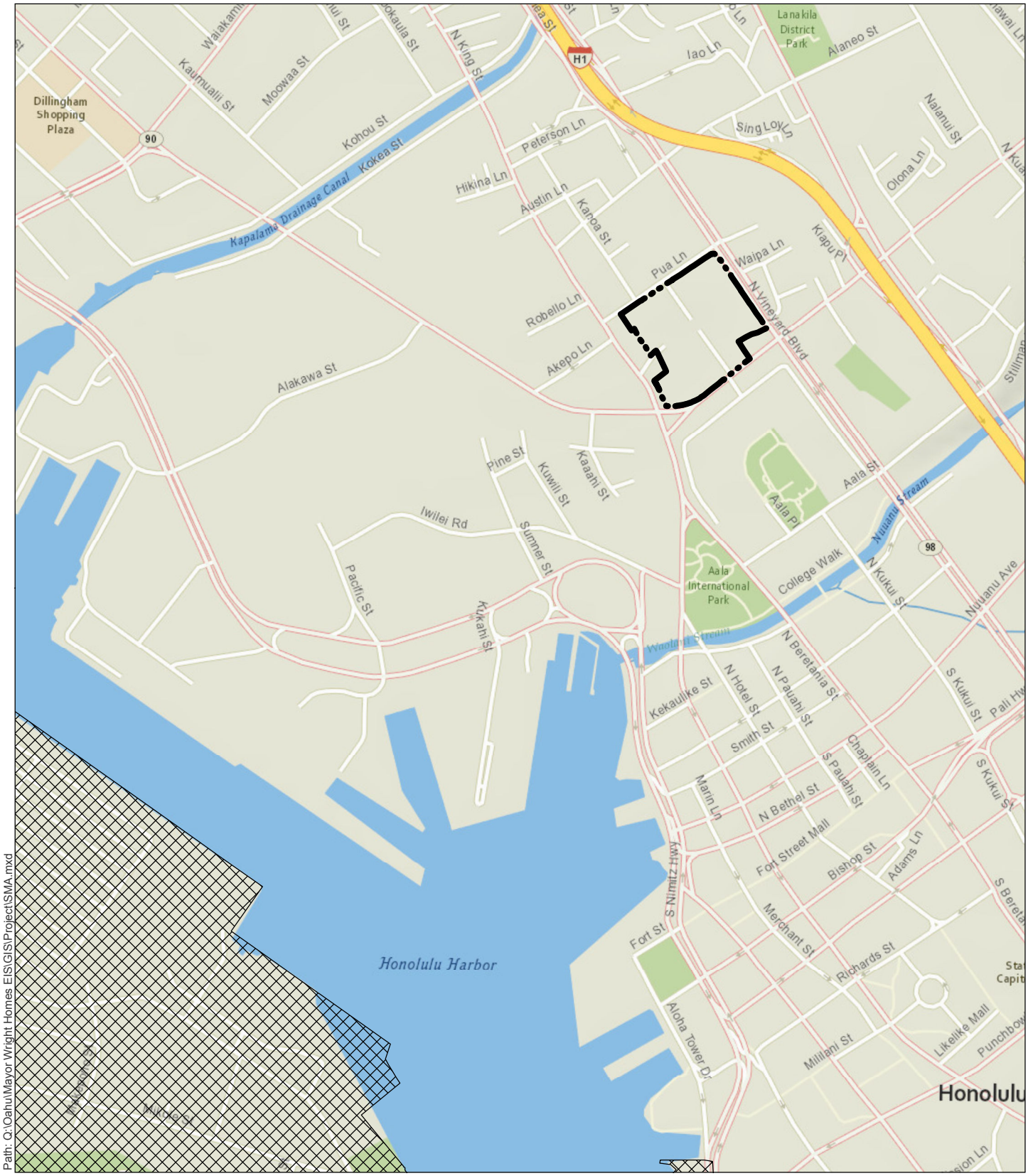
Linear Scale (feet)

0 250 500 1,000

PBR HAWAII & Associates, Inc.

Source: City and County of Honolulu, 2017 (Figure 2-7).

Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



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LEGEND

- Project Site
- Special Management Area

Figure 29
Special Management Area (SMA)

MWH Redevelopment

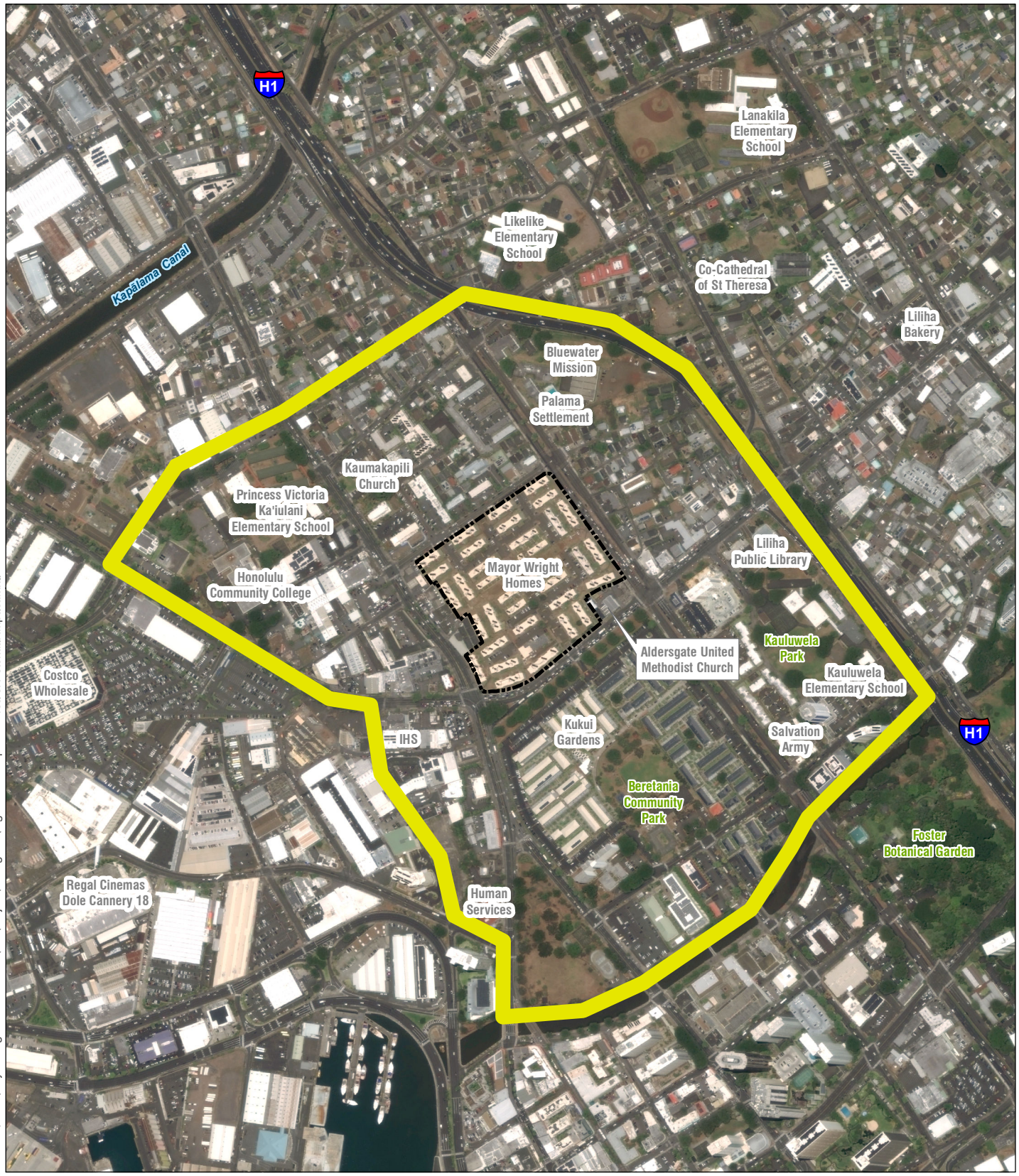
Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)
0 250 500 1,000

PBR HAWAII & ASSOCIATES, INC.

Source: ESRI Basemap, State of Hawaii: Office of Planning, 2013.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



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LEGEND

Proposed Area of Potential Effect

Mayor Wright Homes

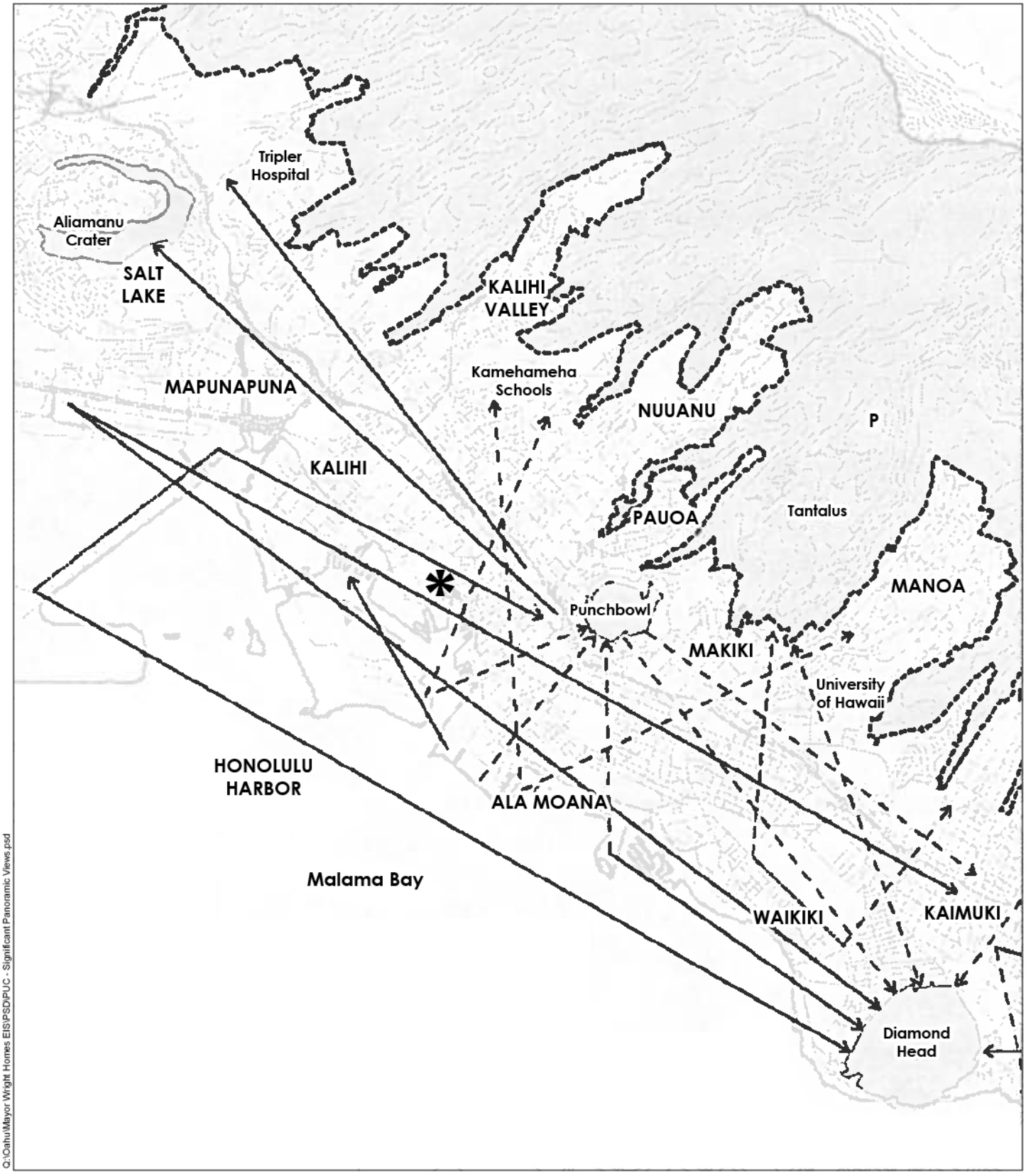
Figure 30
Area of Resident, Business, and Landowner Mailings for NEPA Distribution List
MWH Redevelopment

North

Linear Scale (feet)
0 350 700

PBR HAWAII & ASSOCIATES, INC.

Source: Geographic Information System (GIS), ESRI World Street Map, 2016.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



LEGEND

- Project Site
- Preservation Areas (P)
- Urban Areas
- Urban Community Boundaries
- East-West Views
- Mauka-Makai Views
- Continuous Views

Figure 31
Significant Panoramic Views
Primary Urban Center DP
MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)
0 1,000 2,000 4,000

PBR HAWAII & ASSOCIATES, INC

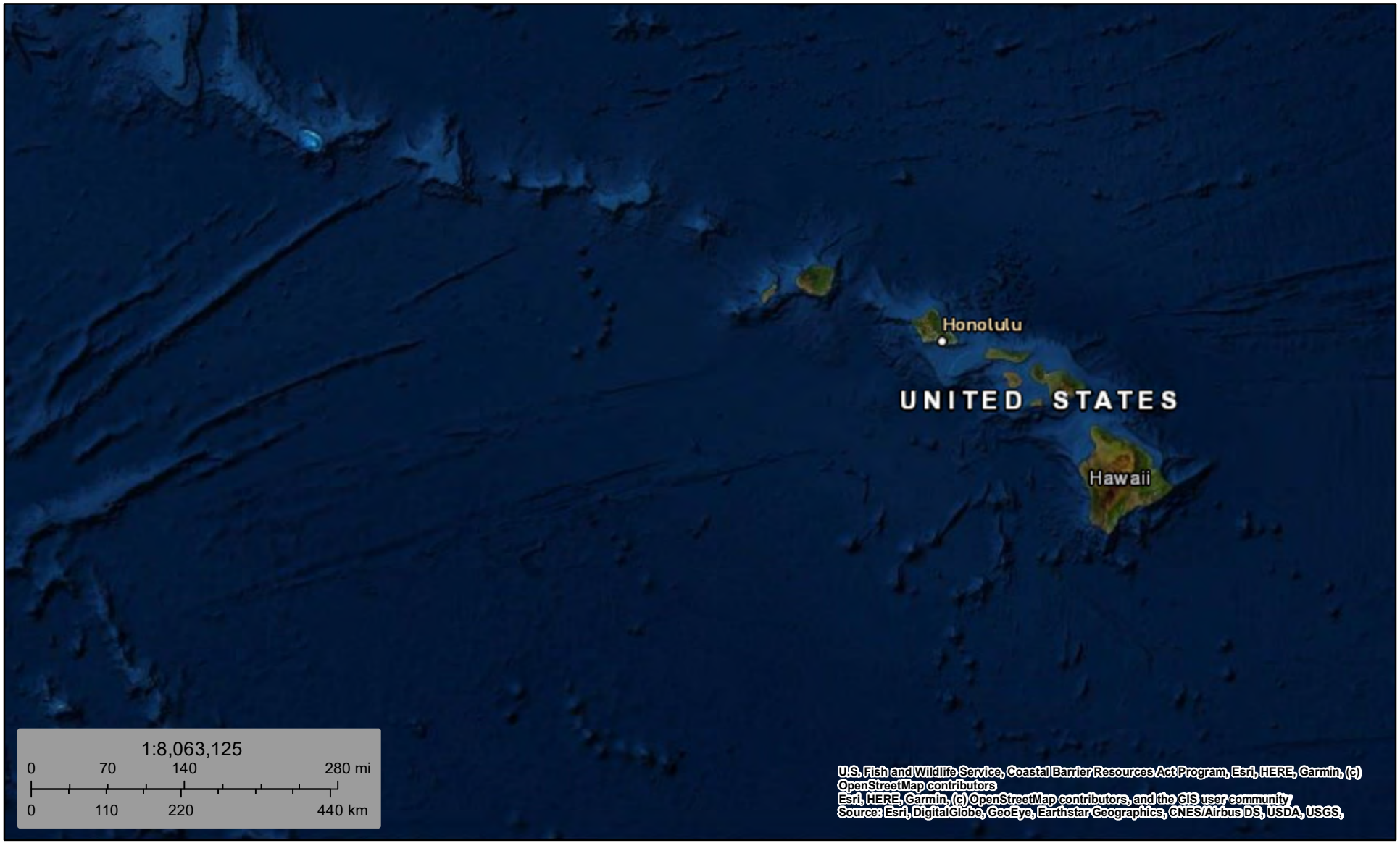
Source: City and County of Honolulu, 2004, (Map A.1).
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.

EXHIBIT 1

U.S. Fish and Wildlife Service

Coastal Barrier Resources System

CBRS Hawai‘i



December 4, 2019

CBRS Units

This map is for general reference only. The Coastal Barrier Resources System (CBRS) boundaries depicted on this map are representations of the controlling CBRS boundaries, which are shown on the official maps, accessible at https://www.fws.gov/cbra/maps/index.html. All CBRS related data should be used in accordance with the layer metadata found on the CBRS Mapper website.

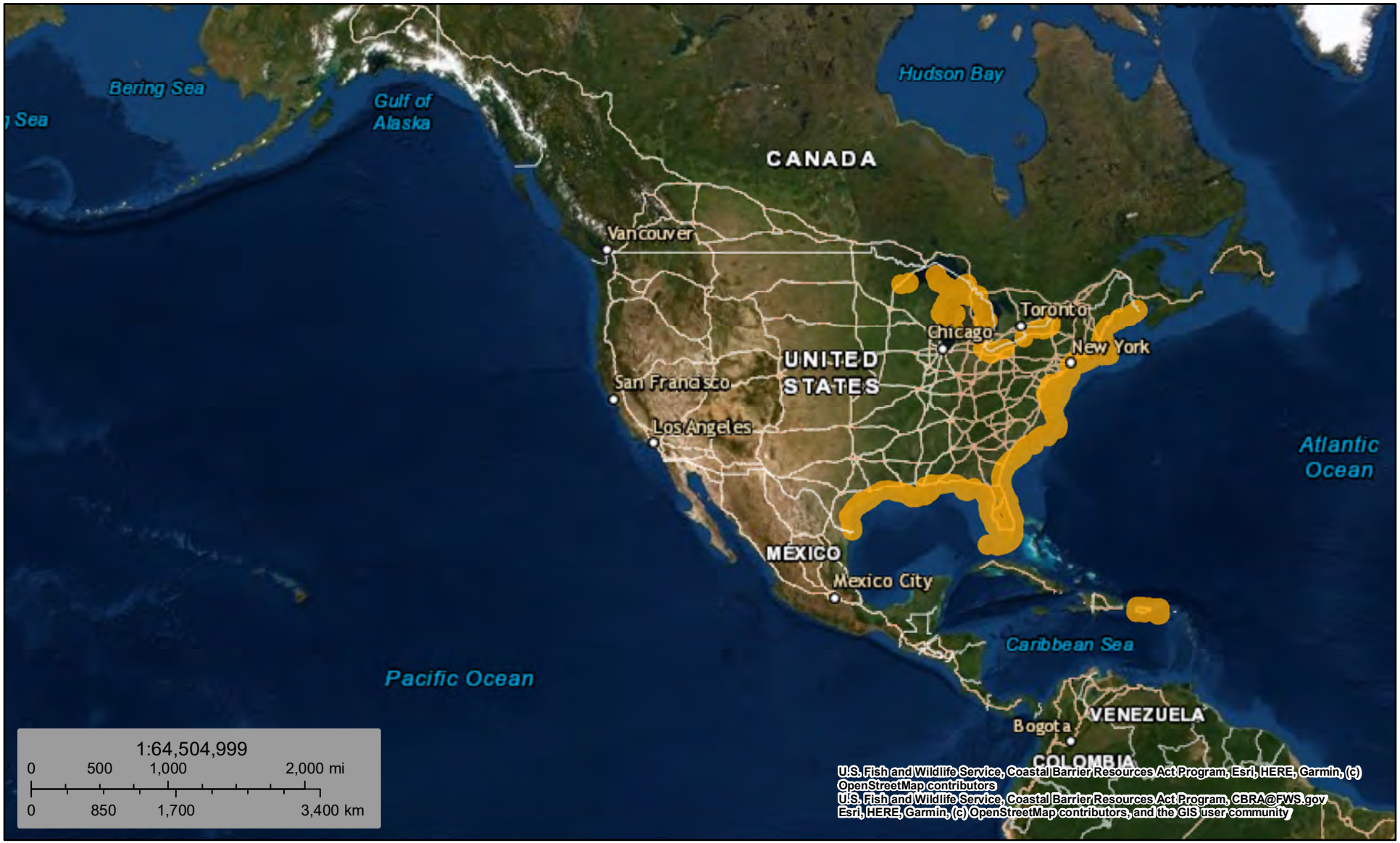
The CBRS Buffer Zone represents the area immediately adjacent to the CBRS boundary where users are advised to contact the Service for an official determination (http://www.fws.gov/cbra/Determinations.html) as to whether the property or project site is located "in" or "out" of the CBRS.

CBRS Units normally extend seaward out to the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward extent of the units is not shown in the CBRS mapper.

U.S. Fish and Wildlife Service

Coastal Barrier Resources System

CBRS United States



December 4, 2019

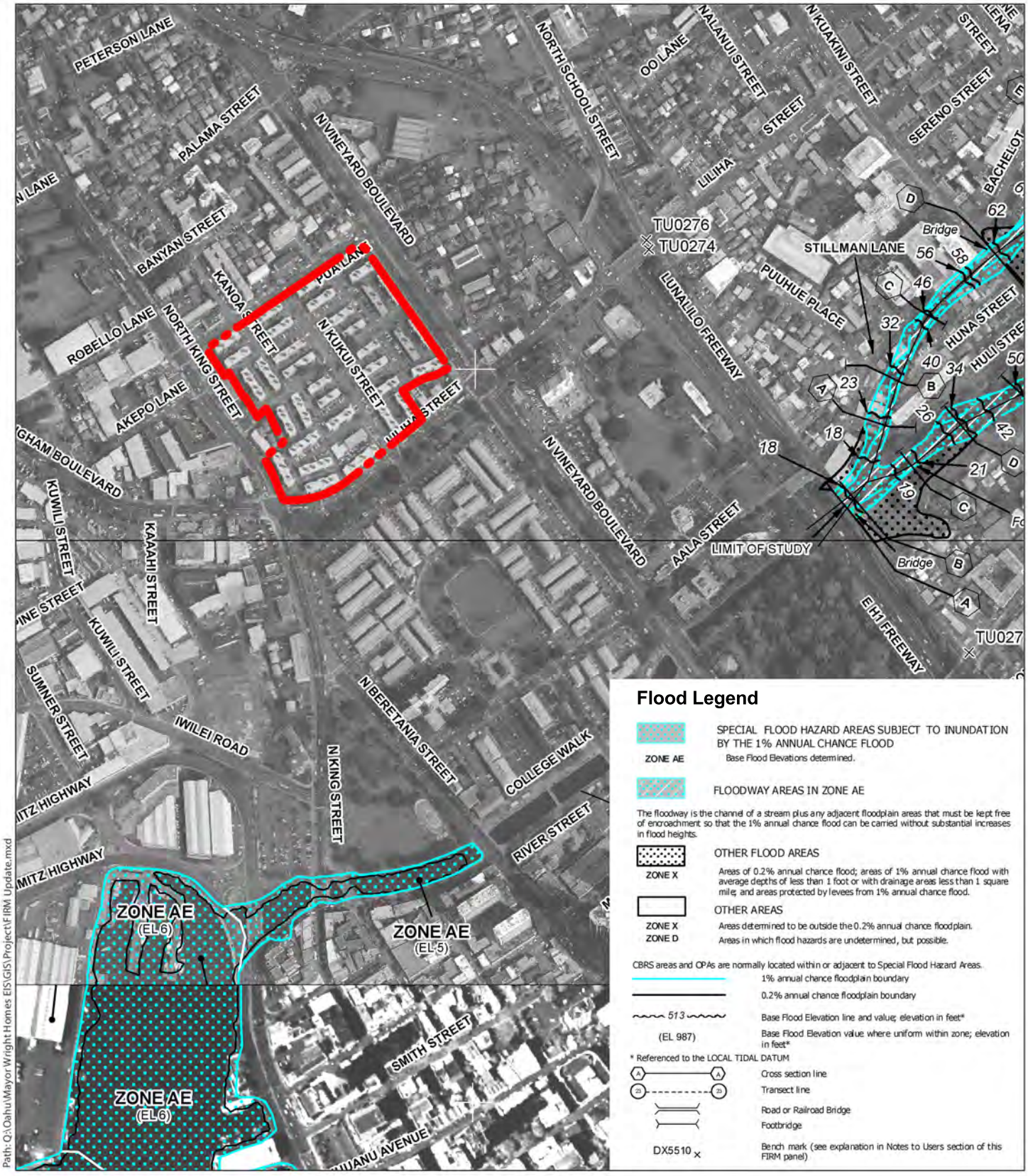
CBRS Units

This map is for general reference only. The Coastal Barrier Resources System (CBRS) boundaries depicted on this map are representations of the controlling CBRS boundaries, which are shown on the official maps, accessible at https://www.fws.gov/cbra/maps/index.html. All CBRS related data should be used in accordance with the layer metadata found on the CBRS Mapper website.

The CBRS Buffer Zone represents the area immediately adjacent to the CBRS boundary where users are advised to contact the Service for an official determination (http://www.fws.gov/cbra/Determinations.html) as to whether the property or project site is located "in" or "out" of the CBRS.

CBRS Units normally extend seaward out to the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward extent of the units is not shown in the CBRS mapper.

EXHIBIT 2



Flood Legend

ZONE AE — SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

ZONE X — OTHER FLOOD AREAS
Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

ZONE X
ZONE D — OTHER AREAS
Areas determined to be outside the 0.2% annual chance floodplain.
Areas in which flood hazards are undetermined, but possible.

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary

0.2% annual chance floodplain boundary

513 — Base Flood Elevation line and value; elevation in feet*

(EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the LOCAL TIDAL DATUM

Cross section line

Transect line

Road or Railroad Bridge

Footbridge

DX5510 × — Bench mark (see explanation in Notes to Users section of this FIRM panel)

LEGEND

Project Site

Exhibit 2
Flood Insurance Rate Map (FIRM)

MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)
0 150 300 600

PBR HAWAII & ASSOCIATES, INC

Source: Federal Emergency Management Agency, Panels 0354G and 0362G; maps revised on January 19, 2011.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.

Flood Hazard Assessment Report

www.hawaiinfip.org

Mayor Wright Homes

Property Information

COUNTY:	HONOLULU
TMK NO:	(1) 1-7-029:003
WATERSHED:	NUUANU
PARCEL ADDRESS:	606 N KUKUI ST HONOLULU, HI 96817

Notes:

Flood Hazard Information

FIRM INDEX DATE:	NOVEMBER 05, 2014
LETTER OF MAP CHANGE(S):	NONE
FEMA FIRM PANEL:	15003C0354G
PANEL EFFECTIVE DATE:	JANUARY 19, 2011

THIS PROPERTY IS WITHIN A TSUNAMI EVACUTION ZONE: NO
FOR MORE INFO, VISIT: http://www.scd.hawaii.gov/

THIS PROPERTY IS WITHIN A DAM EVACUATION ZONE: NO
FOR MORE INFO, VISIT: http://dlnreng.hawaii.gov/dam/

0 600 1,200 ft

Disclaimer: The Hawaii Department of Land and Natural Resources (DLNR) assumes no responsibility arising from the use, accuracy, completeness, and timeliness of any information contained in this report. Viewers/Users are responsible for verifying the accuracy of the information and agree to indemnify the DLNR, its officers, and employees from any liability which may arise from its use of its data or information.

If this map has been identified as 'PRELIMINARY', please note that it is being provided for informational purposes and is not to be used for flood insurance rating. Contact your county floodplain manager for flood zone determinations to be used for compliance with local floodplain management regulations.

FLOOD HAZARD ASSESSMENT TOOL LAYER LEGEND
(*Note: legend does not correspond with NFHL)*

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD - The 1% annual chance flood (100-year), also know as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. SFHAs include Zone A, AE, AH, AO, V, and VE. The Base Flood Elevation (BFE) is the water surface elevation of the 1% annual chance flood. Mandatory flood insurance purchase applies in these zones:

	Zone A: No BFE determined.
	Zone AE: BFE determined.
	Zone AH: Flood depths of 1 to 3 feet (usually areas of ponding); BFE determined.
	Zone AO: Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined.
	Zone V: Coastal flood zone with velocity hazard (wave action); no BFE determined.
	Zone VE: Coastal flood zone with velocity hazard (wave action); BFE determined.
	Zone AEF: Floodway areas in Zone AE. The floodway is the channel of stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without increasing the BFE.

NON-SPECIAL FLOOD HAZARD AREA - An area in a low-to-moderate risk flood zone. No mandatory flood insurance purchase requirements apply, but coverage is available in participating communities.

	Zone XS (X shaded): Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
	Zone X: Areas determined to be outside the 0.2% annual chance floodplain.

OTHER FLOOD AREAS

	Zone D: Unstudied areas where flood hazards are undetermined, but flooding is possible. No mandatory flood insurance purchase apply, but coverage is available in participating communities.

Federal Emergency Management Agency

Washington, D.C. 20472

November 4, 2014

IN REPLY REFER TO:
LOMC-VALID

The Honorable Kirk Caldwell
Mayor, City and County of Honolulu
530 South King Street, Room 306
Honolulu, Hawaii 96813

Case Number: 11-09-0878V
Community: City and County of Honolulu, HI
Community No.: 150001
Effective Date: November 6, 2014

CORRECTED COPY

Dear Mayor Caldwell:

On November 5, 2014, the Department of Homeland Security's Federal Emergency Management Agency (FEMA) issued new or revised Flood Insurance Rate Map (FIRM) panels within your community. This letter identifies the Letter of Map Change (LOMC) actions [i.e., Letters of Map Revision-based on Fill (LOMR-Fs) and Letters of Map Amendment (LOMAs)] for properties and/or structures located in your community that are still valid as of the effective date shown above. These LOMCs will remain in effect until superseded by a subsequent LOMC or by a revision to the FIRM panel on which the property and/or structure is located. The enclosed table lists the FEMA case number, issue date, project identifier, and amended FIRM panel number for the LOMCs revalidated by this letter.

All effective LOMCs within your community have been reviewed, including LOMCs located on panels not revised during this FIRM update. Any revalidation letters previously issued for your community have been superseded as of the effective date listed above. LOMAs and LOMR-Fs for which the original determination has not been superseded by new or revised information, and are able to be administratively revalidated, are included in the enclosed table. Please refer to the original determination document to obtain the details of the outcome for the properties and/or structures included in the determination (such as flood zone, base flood elevations, property elevations, etc).

LOMRs cannot be administratively revalidated. LOMRs previously issued for FIRM panels that were revised by the recent map update for your community have either been incorporated into the revised FIRM or have been superseded by the revised FIRM. LOMRs issued for FIRM panels that were not revised by the recent map update for your community are not included on the enclosed table and will remain in effect until superseded by a revision to that FIRM panel.

If there is a LOMC not on the enclosed list that you feel should have been revalidated, we encourage you to submit the LOMC for re-determination. When requesting a re-determination, we ask that a cover letter be sent along with a copy of the original determination letter to: LOMC Clearinghouse, 847 South Pickett Street, Alexandria, Virginia 22304-4605.

Because these revalidated LOMCs will not be reprinted or distributed to primary map users, such as local insurance agents and mortgage lenders, your community will serve as a repository for this information. We encourage you to disseminate the information reflected by this LOMC-VALID letter throughout your community so that interested persons, such as property owners, local insurance agents, and mortgage lenders, may benefit from the information.

This LOMC-VALID letter is considered legally binding, in the same manner as the original LOMC, as long as a copy of the original LOMC determination accompanies the LOMC-VALID letter. Copies of previously issued LOMCs, if needed, may be obtained from your community's map repository, FEMA's Map Service Center website located at https://msc.fema.gov, or by contacting the FEMA Map Information eXchange (FMIX), toll free, at 1-877-FEMA-MAP (1-877-336-2627).

For additional information or questions relating to LOMCs not listed on the enclosed table, or mapping in general, please contact the FMIX at the number provided above.

Sincerely,

Luis Rodriguez, P.E., Chief
Engineering Management Branch
Federal Insurance and Mitigation Administration

cc: LOMC Subscription Service Subscribers
Community Map Repository
Mario Siu-Li, Floodplain Manager, City and County of Honolulu

REVALIDATED LETTERS OF MAP CHANGE FOR CITY AND COUNTY OF HONOLULU, HI

Case No: 11-09-0878V **Community No.: 150001**

November 6, 2014

Case No.	Date Issued	Identifier	Map Panel No.	Zone
199209956MBJ	02/06/1986	MANOA WOODLANDS,LOTS 1-15	15003C0360G	X
199107338FIA	03/12/1991	2439 KAPIOLANA BLVD.	15003C0366G	X
92-09-058B	02/14/1992	EWA VILLA ESTATES, BLDGS 1-10	15003C0328G	X
92-09-142B	08/05/1992	5306 HIND PLACE -- LCA 656, MAP 46, LOT 1064	15003C0386G	X
93-09-322A	03/31/1993	2819 KAHALOU DRIVE	15003C0360G	X
94-09-468A	07/22/1994	55-174 PUUAHI STREET -- LOT 164A AND A PORTION OF LOT 164, LAIE VILLAGE UNIT 1	15003C0045H	X
95-09-642A	07/10/1995	LAND COURT APPLICATION 1000, LOTS 5809-A & 5817	15003C0226F	X
96-09-731A	06/17/1996	NANAKULI RESIDENCE LOTS, SERIES 7, LOTS 15,16,40,41,47-49	15003C0213H	X
97-09-276A	02/14/1997	"THE PEARL" NUMBER ONE -- 98-500 KOAUKA LOOP	15003C0243H	X
97-09-557A	04/02/1997	95-60 WAIKALANI DRIVE, PORTION OF LOT 4194	15003C0228F	X
98-09-277A	01/05/1998	ENCHANTED LAKE ESTATES, UNIT 5-B-4, LOT 93-- 655 AKOAKOA ST.	15003C0290H	X
99-09-152A	12/07/1998	PIIKOI PLAZA APARTMENTS -- 725 PIIKOI STREET	15003C0362G	X
99-09-451A	03/15/1999	CRAIGSIDE, TOWERS 1, 2, & 3 -- 38 SOUTH JUDD ST. & 2101 NUUANU AVE.	15003C0354G	X
99-09-692A	10/22/1999	1238 KAALA AVENUE -- PORTION OF GRANT 973, LAND COURT NO. 1062	15003C0140F	X

REVALIDATED LETTERS OF MAP CHANGE FOR CITY AND COUNTY OF HONOLULU, HI

Case No: 11-09-0878V **Community No.: 150001**

November 6, 2014

Case No.	Date Issued	Identifier	Map Panel No.	Zone
01-09-1067A	09/20/2001	MANOA ESTATES, DWELLING NO. 45 -- 3577 PINAO STREET	15003C0360G	X
02-09-199A	01/23/2002	WAIMANALO FARM LOTS, PORTION OF LOT 34 (AKA LOT 3) -- 41-669 AHIKI STREET	15003C0380H	X
02-09-939A	06/07/2002	2624 MAUNAWAI PLACE -- LAND COURT APPLICATION 796, LOT 2-A-4	15003C0366G	X
03-09-0970A	07/07/2003	CROWN TERRACE SUBDIV, LOT 14 -- 46-219 HEEIA STREET	15003C0270H	X
05-09-0918A	06/13/2005	LAND COURT CONSOLIDATION 39, LOT 25	15003C0105H	X
05-09-0998A	06/20/2005	1607 MOKULUA DRIVE	15003C0295F	X
05-09-1373A	08/25/2005	55-249 KAMEHAMEHA HIGHWAY	15003C0045H	X
05-09-1698X	10/04/2005	MAP 74, LOT 1163 -- 46-272 KAMEHAMEHA HIGHWAY	15003C0270H	X
05-09-1593A	01/31/2006	3175 POELUA PLACE	15003C0360G	X
06-09-B459A	02/28/2006	LOT 1232, KAILUA COCONUT GROVE TRACT 4 -- 534 KAULANI WAY	15003C0290H	X
06-09-BE78A	09/28/2006	53-524 EAST KAMEHAMEHA HIGHWAY -- UNIT E, PUNALUU KAI	15003C0155G	X
06-09-BG01A	02/01/2007	89-1072 PIKAIOLENA STREET	15003C0213H	X
07-09-1257A	06/12/2007	TMK:4-3-67:109 CPR 01 -- 753 KAIPII STREET (HI)	15003C0290H	X
07-09-1492A	08/09/2007	BUILDING 7, UNIT 62F -- 57-101 WEST KUILIMA LOOP	15003C0030G	X

REVALIDATED LETTERS OF MAP CHANGE FOR CITY AND COUNTY OF HONOLULU, HI

Case No: 11-09-0878V **Community No.: 150001**

November 6, 2014

Case No.	Date Issued	Identifier	Map Panel No.	Zone
08-09-1795A	10/02/2008	KAIPOLANI TRACT, BLOCK A, LOT 6 -- 1914 KAHANU STREET	15003C0353G	X
08-09-1861A	10/07/2008	ENCHANTED LAKE ESTATES, UNIT EIGHT-B-3, LOT 5 -- 51-20 HIIAKA ROAD	15003C0165F	X
10-09-0699A	01/12/2010	LAND COURT APPLICATION 1095, LOT 466, BLDGS 1-15	15003C0030G	X
10-09-1121A	02/08/2010	ENCHANTED LAKE ESTATES, UNIT 5-C, LOT 7 -- 938 WANAAO ROAD	15003C0290H	X
10-09-1838A	05/11/2010	(70-RS) LOT 39 HAWAIIAN HOME LANDS -- 89-1078 PIKAIOLENA STREET	15003C0213H	X
10-09-2085A	05/18/2010	(70-OAS) ROYAL PATENT 1291, LOT 21 -- 53-216 M KAMEHAMEHA HIGHWAY	15003C0155G	X
10-09-3933A	10/12/2010	(70-RS) 66-388 KAAMOOLOA ROAD	15003C0105H	X
11-09-1587A	03/29/2011	(70-RS) KUAPA ISLE, HAHAI-KAI MARINA, UNIT 2-B -- 214/216 & 218/220 OPIHIKAO WAY	15003C0387G	X
11-09-2517A	04/28/2011	(70-RS) UNIT 2-C, HAHAI-KAI MARINA, LOT 59 -- 744 KUMUKAHI PLACE	15003C0391G	X
11-09-2482A	06/02/2011	LUNA-KAI MARINA, UNIT 9-A, LOT 24 -- 6977 NIUMALU LOOP	15003C0391G	X
11-09-2605A	06/14/2011	(70-R) LOTS 1 & 2-- 2300 NORTH KING STREET	15003C0353G	X
11-09-3104A	06/30/2011	(70-RS) UNIT 2-C, HAHAI-KAI MARINA, LOT 54 -- 678 KUMUKAHI PLACE	15003C0391G	X
11-09-3102A	07/05/2011	(70-RS) HAHAI-KAI MARINA UNIT 2-C, LOT 60 -- 750 KUMUKAHI PLACE	15003C0391G	X
11-09-2512A	07/19/2011	(65-FW) APARTMENT A, LOT 1271-A -- 47-522A HIO PLACE	15003C0255G	X

REVALIDATED LETTERS OF MAP CHANGE FOR CITY AND COUNTY OF HONOLULU, HI

Case No: 11-09-0878V **Community No.: 150001**

November 6, 2014

Case No.	Date Issued	Identifier	Map Panel No.	Zone
11-09-3277A	08/23/2011	HAHAI-KAI MARINA, UNIT 2-C, LOT 75 -- 807 KUMUKAHI PLACE	15003C0391G	X
11-09-3279A	08/23/2011	HAHAI-KAI MARINA, UNIT 2-C, LOT 2 -- 697 KUMUKAHI PLACE	15003C0391G	X
11-09-3476A	09/13/2011	KUAPA ISLE, HAHAI-KAI MARINA, UNIT 2-B, LOT 1 -- OPIHIKAO WAY AND OPIHIKAO PLACE	15003C0387G 15003C0391G	X
12-09-0113A	10/20/2011	LAND COURT APPLICATION NO. 656, MAP 10, LOT 197 -- 333 NENUE STREET	15003C0388G	X
12-09-0645A	12/15/2011	HAHAI-KAI MARINA UNIT 2-B, KUAPA ISLE, LOT 1 -- 217/219 OPIHIKAO WAY	15003C0387G	X
12-09-0498A	01/10/2012	AIEA HEIGHTS S/D NO. 2, LOT 58 & A PORTION OF LOT 57 -- 99-317 A UWAU DRIVE	15003C0244G	X
12-09-0763A	01/12/2012	LAND COURT APPLICATION NO. 1266, MAP 5, LOT 9 -- 54-273 KAWAIHEMO PLACE	15003C0135F	X
12-09-0194A	01/31/2012	LAND COURT APPLICATION NO. 953 (AMENDED), PORTION OF LOT 42 -- 3340 PAKANU PLACE	15003C0360G	X
12-09-1102A	03/01/2012	KAHALA CLIFFS SUBDIV, LOT 34-D -- 4162 BLACK POINT ROAD	15003C0369H	X
12-09-1062A	03/20/2012	HAHAI-KAI MARINA UNIT 2-B, KUAPA ISLE, PORTION OF LOT 1 -- OPIHIKAO WAY & OPIHIKAO PLACE	15003C0387G 15003C0391G	X
12-09-1352A	04/05/2012	HAHAI-KAI MARINA, UNIT 2-C, LOT 68 -- 800 KUMUKAHI PLACE	15003C0391G	X
12-09-1593A	04/19/2012	HAHAI-KAI MARINA, UNIT 2-C, LOT 63 -- 768 KUMUKAHI PLACE	15003C0391G	X
12-09-1663A	05/17/2012	LAND COURT APPLICATION 1074, MAP 280, LOT 1587 -- 1386 ALA AOLANI STREET	15003C0351G	X

REVALIDATED LETTERS OF MAP CHANGE FOR CITY AND COUNTY OF HONOLULU, HI

Case No: 11-09-0878V **Community No.: 150001**

November 6, 2014

Case No.	Date Issued	Identifier	Map Panel No.	Zone
12-09-2507A	08/14/2012	MOUNTAIN VIEW TRACT, LOT 49 -- 3029 NUMANA ROAD	15003C0352F	X
12-09-2612A	08/21/2012	KAAUILA TRACT, LOT 21 -- 1216 PALOLO AVENUE	15003C0366G	X
12-09-2834A	08/28/2012	KALA-KAI MARINA, UNIT 1-D, LOT 31 -- 345 AWINI WAY	15003C0387G	X
12-09-2687A	09/04/2012	KALA-KAI MARINA, UNIT 1-B, LOT 33 -- 527 KAWAIHAE STREET	15003C0387G	X
12-09-2851A	09/18/2012	KALA-KAI MARINA, UNIT 1-F-1, LOT 1 -- 6370 HAWAII KAI DRIVE (UNITS 7-64)	15003C0387G	X
12-09-2850A	10/11/2012	KALA-KAI MARINA, UNIT 1-D, LOT 30 -- 349 AWINI WAY	15003C0387G	X
12-09-3160A	10/23/2012	KUMUHAU SUBDIVISION, LOTS 26-30 -- 41-515, 41-511, 41-518, 41-526, 41-1626 KUMUNIU PLACE/STREET	15003C0380H	X
12-09-3060A	11/06/2012	LAND COURT APPLICATION NO. 979, MAP 135, LOT 920 -- 47-515 HIO PLACE	15003C0255G	X
13-09-2005A	06/06/2013	LAND COURT APPLICATION NO. 656, MAP 46, LOT 1062 -- 5309 HIND PLACE	15003C0386G	X
13-09-2276A	07/23/2013	WATERHOUSE TRACT, LOTS 90-92 & PORTION OF 89 -- 918 BANNISTER STREET	15003C0353G	X
13-09-2592A	08/27/2013	61-149 KAMEHAMEHA HIGHWAY	15003C0020F	X
14-09-0183A	10/29/2013	LAND COURT APPLICATION NO. 1089, MAP 31, LOT 378 -- 67-432 ALAHAKA STREET	15003C0105H	X
14-09-0366A	11/05/2013	KALA KAI MARINA UNIT 1-E, LOT 4-B -- 6234/6236 & 6240/6242/6244/6246 MILOLII PLACE	15003C0387G	X
14-09-0039A	11/14/2013	LAND COURT APPLICATION NO. 656, MAP 32, LOT 338 -- 527 WEST HIND DRIVE	15003C0386G	X

REVALIDATED LETTERS OF MAP CHANGE FOR CITY AND COUNTY OF HONOLULU, HI

Case No: 11-09-0878V **Community No.: 150001**

November 6, 2014

Case No.	Date Issued	Identifier	Map Panel No.	Zone
13-09-3266A	12/05/2013	WATERHOUSE TRACT, PORTIONS OF LOTS 93, 94 & 95 -- 908 BANNISTER STREET	15003C0353G	X
13-09-3011A	01/02/2014	THE WATERFRONT AT PU'ULOA -- GANNET AVE, IROQUOIS AVE, EDGEWATER DR, HERON AVE, IBIS AVE	15003C0329G	X
14-09-1372A	02/06/2014	AINA KOA SUBDIV, LOT 168 -- 1490 AINAKOA AVENUE	15003C0367H	X
14-09-1674A	04/03/2014	OL-LAND COURT CONSOLIDATION NO. 66, MAP 1, LOT 32 -- 2219A JENNIE STREET	15003C0352F	X
14-09-1816A	04/03/2014	LAND COURT APPLICATION NO. OF ROBERT HIND, MAP 33, LOT 523 -- 5314 UHI UHI STREET	15003C0386G	X
14-09-1812A	04/22/2014	LAND COURT APPLICATION NO. 656, MAP 32, LOT 378 -- 5325 LIWAI STREET	15003C0386G	X
14-09-2425A	05/27/2014	HAHAI-KAI MARINA, UNIT 2-C, LOT 62 -- 762 KUMUKAHI PLACE	15003C0391G	X
14-09-1401A	05/29/2014	1629 KINO STREET APT H/H-1, J/J-1, L/L-1	15003C0353G	X
14-09-3120A	05/29/2014	1629 KINO STREET APT M/M1	15003C0353G	X
14-09-2492A	06/03/2014	ROYAL GROVE, LOTS 24, 25, & 26 (TMK: (1) 2-6-023:029) -- KAIULANI AVENUE	15003C0368G	X
14-09-2647A	06/10/2014	LANGE SUBDIV, LOT 4 -- 461 HALAPIA PLACE	15003C0354G	X
14-09-2610A	06/12/2014	HONOLULU ACADEMY OF ARTS & LAND COURT APPLICATION NO. 379 -- 55 SOUTH JUDD STREET	15003C0354G	X
14-09-3208A	06/26/2014	LAND COURT APPLICATION NO. 1095, MAP 50, LOT 353 -- 58-111 KAUNALA STREET	15003C0020F	X

REVALIDATED LETTERS OF MAP CHANGE FOR CITY AND COUNTY OF HONOLULU, HI

Case No: 11-09-0878V **Community No.: 150001**

November 6, 2014

Case No.	Date Issued	Identifier	Map Panel No.	Zone
14-09-3180A	07/08/2014	PIKOILOA TRACT NO. 4, AREA 11, LOT 72 -- 45-217 KOA KAHIKO STREET	15003C0270J	X
14-09-3659A	08/12/2014	LAND COURT APPLICATION NO. 505, MAP 58, LOTS 193 & 194 -- 1104 MOKULUA DRIVE	15003C0290H	X
15-09-0050A	10/14/2014	KAWAILOA BEACH LOTS, SECTION C, LOT 13-A – 61-445 KAMEHAMEHA HIGHWAY	15003C0110F	X

EXHIBIT 3

List of Exceedances of the National Ambient Air Quality Standards

The Hawai'i State Department of Health is required to notify the public whenever the National Ambient Air Quality Standards (NAAQS) are exceeded. The list below shows the most recent exceedances due to an exceptional or natural event. For a listing of previous exceedances through 2013, please see the Department of Health, Clean Air Branch web page.

DATE	MONITORING STATION LOCATION & ISLAND	AIR POLLUTANT	STANDARD TYPE	STANDARD LIMIT	ACTUAL	CAUSE
Dec. 31, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.111 ppm (2-3 a.m.)	volcanic emissions
Dec. 31, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.107 ppm (9-10 a.m.)	volcanic emissions
Dec. 31, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.169 ppm (7-8 a.m.)	volcanic emissions
Dec. 30, 2014	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.331 ppm (6-7 a.m.)	volcanic emissions
Dec. 30, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.362 ppm (5-6 a.m.)	volcanic emissions
Dec. 29, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.150 ppm (11 a.m.-noon)	volcanic emissions
Dec. 27, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (4-5 a.m.)	volcanic emissions
Dec. 27, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (3-4 a.m.)	volcanic emissions
Dec. 26, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.155 ppm (6-7 a.m.)	volcanic emissions
Dec. 26, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.241 ppm (2-3 a.m.)	volcanic emissions
Dec. 23, 2014	Puna, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.106 ppm (4-5 p.m.)	volcanic emissions
Dec. 22, 2014	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.119 ppm (9-10 a.m.)	volcanic emissions
Dec. 22, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.111 ppm (7-8 a.m.)	volcanic emissions
Dec. 22, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.089 ppm (9-10 a.m.)	volcanic emissions
Dec. 21, 2014	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.136 ppm (7-8 a.m.)	volcanic emissions
Dec. 21, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (midnight-1 a.m.)	volcanic emissions
Dec. 21, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.239 ppm (3-4 a.m.)	volcanic emissions
Dec. 20, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.124 ppm (6-7 a.m.)	volcanic emissions
Dec. 20, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.318 ppm (2-3 a.m.)	volcanic emissions
Dec. 19, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.084 ppm (9-10 a.m.)	volcanic emissions
Dec. 18, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.147 ppm (6-7 a.m.)	volcanic emissions
Dec. 17, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.123 ppm (6-7 a.m.)	volcanic emissions
Dec. 14, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.256 ppm (9-10 a.m.)	volcanic emissions
Dec. 11, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.187 ppm (2-3 a.m.)	volcanic emissions
Dec. 11, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.213 ppm (1-2 a.m.)	volcanic emissions
Dec. 10, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.211 ppm (10-11 a.m.)	volcanic emissions
Dec. 10, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.081 ppm (7-8 a.m.)	volcanic emissions
Dec. 9, 2014	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.144 ppm (4-5 a.m.)	volcanic emissions

Dec. 9, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.312 ppm (7-8 a.m.)	volcanic emissions
Dec. 8, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.131 ppm (6-7 a.m.)	volcanic emissions
Dec. 8, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (midnight-1 a.m.)	volcanic emissions
Dec. 7, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.151 ppm (11 a.m.-noon)	volcanic emissions
Dec. 7, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.392 ppm (10-11 p.m.)	volcanic emissions
Dec. 6, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.098 ppm (5-6 a.m.)	volcanic emissions
Dec. 6, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.100 ppm (5-6 a.m.)	volcanic emissions
Dec. 5, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.083 ppm (7-8 a.m.)	volcanic emissions
Dec. 2, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.106 ppm (10-11 a.m.)	volcanic emissions
Dec. 1, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (10-11 p.m.)	volcanic emissions
Nov. 28, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.108 ppm (8-9 a.m.)	volcanic emissions
Nov. 27, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.113 ppm (9-10 a.m.)	volcanic emissions
Nov. 27, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.538 ppm (3-4 p.m.)	volcanic emissions
Nov. 26, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.084 ppm (8-9 a.m.)	volcanic emissions
Nov. 25, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.223 ppm (8-9 a.m.)	volcanic emissions
Nov. 25, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.256 ppm (8-9 a.m.)	volcanic emissions
Nov. 24, 2014	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.087 ppm (3-4 a.m.)	volcanic emissions
Nov. 24, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.100 ppm (10-11 a.m.)	volcanic emissions
Nov. 24, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.178 ppm (11 p.m.-midnight)	volcanic emissions
Nov. 20, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.168 ppm (10-11 a.m.)	volcanic emissions
Nov. 20, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.080 ppm (7-8 a.m.)	volcanic emissions
Nov. 19, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.105 ppm (5-6 p.m.)	volcanic emissions
Nov. 19, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.212 ppm (9-10 p.m.)	volcanic emissions
Nov. 17, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.123 ppm (10-11 a.m.)	volcanic emissions
Nov. 16, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.088 ppm (10-11 a.m.)	volcanic emissions
Nov. 16, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.138 ppm (8-9 a.m.)	volcanic emissions
Nov. 15, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (8-9 a.m.)	volcanic emissions
Nov. 15, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.112 ppm (4-5 p.m.)	volcanic emissions
Nov. 11, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (10-11 a.m.)	volcanic emissions
Nov. 9, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (8-9 a.m.)	volcanic emissions
Nov. 5, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.149 ppm (6-7 a.m.)	volcanic emissions
Nov. 4, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (midnight-1 a.m.)	volcanic emissions
Nov. 3, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.189 ppm (9-10 a.m.)	volcanic emissions
Nov. 2, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.121 ppm (11 p.m.-midnight)	volcanic emissions
Nov. 1, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.137 ppm (9-10 p.m.)	volcanic emissions
Oct. 30, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.127 ppm (7-8 p.m.)	volcanic emissions

Oct. 29, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.096 ppm (9-10 a.m.)	volcanic emissions
Oct. 29, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.381 ppm (3-4 p.m.)	volcanic emissions
Oct. 26, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.157 ppm (10-11 a.m.)	volcanic emissions
Oct. 26, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.104 ppm (11 p.m.-midnight)	volcanic emissions
Oct. 25, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.226 ppm (midnight-1 a.m.)	volcanic emissions
Oct. 24, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.202 ppm (8-9 a.m.)	volcanic emissions
Oct. 24, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.234 ppm (11 p.m.-midnight)	volcanic emissions
Oct. 15, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (6-7 a.m.)	volcanic emissions
Oct. 14, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.139 ppm (1-2 a.m.)	volcanic emissions
Oct. 14, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.252 ppm (8-9 a.m.)	volcanic emissions
Oct. 13, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.098 ppm (8-9 a.m.)	volcanic emissions
Oct. 13, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.180 ppm (5-6 p.m.)	volcanic emissions
Oct. 12, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.165 ppm (11 p.m.-midnight)	volcanic emissions
Oct. 11, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.250 ppm (7-8 a.m.)	volcanic emissions
Oct. 10, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.108 ppm (7-8 a.m.)	volcanic emissions
Oct. 10, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.140 ppm (6-7 p.m.)	volcanic emissions
Oct. 7, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.083 ppm (11 a.m.-noon)	volcanic emissions
Oct. 6, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.168 ppm (9-10 a.m.)	volcanic emissions
Oct. 5, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.110 ppm (8-9 a.m.)	volcanic emissions
Oct. 3, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (4-5 a.m.)	volcanic emissions
Sep. 30, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.098 ppm (7-8 a.m.)	volcanic emissions
Sep. 30, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (5-6 a.m.)	volcanic emissions
Sep. 26, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.083 ppm (2-3 a.m.)	volcanic emissions
Sep. 25, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.204 ppm (9-10 p.m.)	volcanic emissions
Sep. 24, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.116 ppm (1-2 a.m.)	volcanic emissions
Sep. 23, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.122 ppm (9-10 p.m.)	volcanic emissions
Sep. 22, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (8-9 a.m.)	volcanic emissions
Sep. 19, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.093 ppm (5-6 a.m.)	volcanic emissions
Sep. 9, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.238 ppm (10-11 p.m.)	volcanic emissions
Sep. 9, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.104 ppm (8-9 p.m.)	volcanic emissions
Sep. 8, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (9-10 p.m.)	volcanic emissions
Sep. 7, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.110 ppm (1-2 a.m.)	volcanic emissions
Sep. 5, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.081 ppm (6-7 a.m.)	volcanic emissions
Sep. 5, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.191 ppm (6-7 a.m.)	volcanic emissions
Sep. 4, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (4-5 a.m.)	volcanic emissions
Sep. 3, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.083 ppm (9-10 a.m.)	volcanic emissions

Sep. 3, 2014	Paia, Hawaii	$PM_{2.5}$	24-hour avg.	35 µg/m^3	50 µg/m^3	brush fire
Aug. 31, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (8-9 a.m.)	volcanic emissions
Aug. 25, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.139 ppm (7-8 a.m.)	volcanic emissions
Aug. 23, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.116 ppm (9-10 a.m.)	volcanic emissions
Aug. 22, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.224 ppm (8-9 a.m.)	volcanic emissions
Aug. 20, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.124 ppm (5-6 a.m.)	volcanic emissions
Aug. 20, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.104 ppm (3-4 a.m.)	volcanic emissions
Aug. 17, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (9-10 a.m.)	volcanic emissions
Aug. 16, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.084 ppm (2-3 a.m.)	volcanic emissions
Aug. 13, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.106 ppm (8-9 p.m.)	volcanic emissions
Aug. 5, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (8-9 a.m.)	volcanic emissions
Aug. 3, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.188 ppm (5-6 a.m.)	volcanic emissions
Aug. 1, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.154 ppm (8-9 a.m.)	volcanic emissions
Aug. 1, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.175 ppm (7-8 a.m.)	volcanic emissions
July 30, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.119 ppm (10-11 a.m.)	volcanic emissions
July 30, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.105 ppm (8-9 a.m.)	volcanic emissions
July 29, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (6-7 a.m.)	volcanic emissions
July 28, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.182 ppm (6-7 a.m.)	volcanic emissions
July 27, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.174 ppm (6-7 a.m.)	volcanic emissions
July 25, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.097 ppm (10-11 p.m.)	volcanic emissions
July 22, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (6-7 a.m.)	volcanic emissions
July 21, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.159 ppm (11 a.m.-noon)	volcanic emissions
July 19, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.106 ppm (7-8 a.m.)	volcanic emissions
July 19, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.205 ppm (4-5 a.m.)	volcanic emissions
July 18, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.128 ppm (2-3 a.m.)	volcanic emissions
July 17, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (6-7 a.m.)	volcanic emissions
July 15, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.108 ppm (6-7 a.m.)	volcanic emissions
July 14, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.166 ppm (midnight-1 a.m.)	volcanic emissions
July 13, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.244 ppm (3-4 a.m.)	volcanic emissions
July 12, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.107 ppm (11 p.m.- midnight)	volcanic emissions
July 11, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.089 ppm (7-8 a.m.)	volcanic emissions
July 9, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.089 ppm (8-9 a.m.)	volcanic emissions
July 6, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (8-9 a.m.)	volcanic emissions
July 6, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.139 ppm (4-5 a.m.)	volcanic emissions
July 5, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.335 ppm (7-8 a.m.)	volcanic emissions
July 4, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.116 ppm (8-9 a.m.)	volcanic emissions

July 4, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.345 ppm (9-10 a.m.)	volcanic emissions
July 3, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (1-2 p.m.)	volcanic emissions
July 3, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.091 ppm (6-7 a.m.)	volcanic emissions
June 30, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.081 ppm (8-9 a.m.)	volcanic emissions
June 29, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.145 ppm (9-10 a.m.)	volcanic emissions
June 29, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.330 ppm (8-9 a.m.)	volcanic emissions
June 28, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.100 ppm (11 a.m.-noon)	volcanic emissions
June 28, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.157 ppm (5-6 a.m.)	volcanic emissions
June 24, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.120 ppm (1-2 a.m.)	volcanic emissions
June 23, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.140 ppm (7-8 a.m.)	volcanic emissions
June 23, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.145 ppm (6-7 a.m.)	volcanic emissions
June 20, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.089 ppm (3-4 a.m.)	volcanic emissions
June 19, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.132 ppm (8-9 a.m.)	volcanic emissions
June 17, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.090 ppm (7-8 a.m.)	volcanic emissions
June 16, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.137 ppm (5-6 a.m.)	volcanic emissions
June 14, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (5-6 a.m.)	volcanic emissions
June 9, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.110 ppm (9-10 p.m.)	volcanic emissions
June 8, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.102 ppm (7-8 a.m.)	volcanic emissions
June 7, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.200 ppm (7-8 a.m.)	volcanic emissions
June 6, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.166 ppm (7-8 p.m.)	volcanic emissions
June 6, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.305 ppm (5-6 p.m.)	volcanic emissions
June 5, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.204 ppm (7-8 a.m.)	volcanic emissions
June 4, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.116 ppm (4-5 a.m.)	volcanic emissions
June 3, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.095 ppm (2-3 a.m.)	volcanic emissions
June 2, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (9-10 p.m.)	volcanic emissions
June 1, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.232 ppm (9-10 p.m.)	volcanic emissions
May 31, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (2-3 a.m.)	volcanic emissions
May 30, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.151 ppm (5-6 a.m.)	volcanic emissions
May 28, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.088 ppm (4-5 a.m.)	volcanic emissions
May 26, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.083 ppm (9-10 p.m.)	volcanic emissions
May 25, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.132 ppm (10-11 p.m.)	volcanic emissions
May 24, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.716 ppm (5-6 a.m.)	volcanic emissions
May 23, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.151 ppm (5-6 a.m.)	volcanic emissions
May 20, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.266 ppm (7-8 a.m.)	volcanic emissions
May 20, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.220 ppm (7-8 a.m.)	volcanic emissions
May 19, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (3-4 a.m.)	volcanic emissions

May 18, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.379 ppm (1-2 a.m.)	volcanic emissions
May 18, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.271 ppm (6-7 a.m.)	volcanic emissions
May 16, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.136 ppm (10-11 p.m.)	volcanic emissions
May 10, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.151 ppm (7-8 a.m.)	volcanic emissions
May 8, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.162 ppm (3-4 a.m.)	volcanic emissions
May 7, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.173 ppm (8-9 a.m.)	volcanic emissions
May 6, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (11 p.m.- midnight)	volcanic emissions
May 5, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.194 ppm (1-2 a.m.)	volcanic emissions
May 5, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.197 ppm (7-8 a.m.)	volcanic emissions
May 3, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.270 ppm (7-8 a.m.)	volcanic emissions
May 2, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.102 ppm (9-10 a.m.)	volcanic emissions
Apr. 30, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.181 ppm (2-3 a.m.)	volcanic emissions
Apr. 27, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.083 ppm (2-3 a.m.)	volcanic emissions
Apr. 27, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.146 ppm (3-4 a.m.)	volcanic emissions
Apr. 26, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.313 ppm (8-9 a.m.)	volcanic emissions
Apr. 25, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.258 ppm (4-5 a.m.)	volcanic emissions
Apr. 24, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (8-9 p.m.)	volcanic emissions
Apr. 24, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.269 ppm (8-9 p.m.)	volcanic emissions
Apr. 23, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.137 ppm (7-8 a.m.)	volcanic emissions
Apr. 23, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.191 ppm (9-10 p.m.)	volcanic emissions
Apr. 22, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.172 ppm (8-9 a.m.)	volcanic emissions
Apr. 21, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.128 ppm (6-7 p.m.)	volcanic emissions
Apr. 20, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.116 ppm (6-7 a.m.)	volcanic emissions
Apr. 20, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.304 ppm (3-4 a.m.)	volcanic emissions
Apr. 19, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.160 ppm (6-7 a.m.)	volcanic emissions
Apr. 18, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.135 ppm (midnight-1 a.m.)	volcanic emissions
Apr. 18, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.096 ppm (7-8 a.m.)	volcanic emissions
Apr. 17, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.111 ppm (8-9 a.m.)	volcanic emissions
Apr. 17, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.141 ppm (7-8 a.m.)	volcanic emissions
Apr. 16, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.086 ppm (6-7 a.m.)	volcanic emissions
Apr. 16, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.093 ppm (8-9 a.m.)	volcanic emissions
Apr. 14, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.120 ppm (midnight-1 a.m.)	volcanic emissions
Apr. 13, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.168 ppm (7-8 a.m.)	volcanic emissions
Apr. 12, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.088 ppm (9-10 a.m.)	volcanic emissions
Apr. 11, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (3-4 a.m.)	volcanic emissions
Apr. 11, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.444 ppm (6-7 a.m.)	volcanic emissions

Apr. 10, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (8-9 a.m.)	volcanic emissions
Apr. 9, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.120 ppm (8-9 a.m.)	volcanic emissions
Apr. 8, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.095 ppm (8-9 a.m.)	volcanic emissions
Apr. 6, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (7-8 p.m.)	volcanic emissions
Apr. 5, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.097 ppm (1-2 a.m.)	volcanic emissions
Apr. 4, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.091 ppm (noon-1 p.m.)	volcanic emissions
Apr. 4, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.160 ppm (midnight-1 a.m.)	volcanic emissions
Apr. 3, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.240 ppm (7-8 p.m.)	volcanic emissions
Apr. 2, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.211 ppm (midnight-1 a.m.)	volcanic emissions
Mar. 31, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (4-5 p.m.)	volcanic emissions
Mar. 30, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.080 ppm (8-9 a.m.)	volcanic emissions
Mar. 29, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.089 ppm (6-7 a.m.)	volcanic emissions
Mar. 29, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.096 ppm (midnight-1 a.m.)	volcanic emissions
Mar. 26, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (8-9 a.m.)	volcanic emissions
Mar. 26, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (6-7 a.m.)	volcanic emissions
Mar. 25, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.091 ppm (10-11 p.m.)	volcanic emissions
Mar. 25, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (8-9 a.m.)	volcanic emissions
Mar. 24, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.334 ppm (9-10 a.m.)	volcanic emissions
Mar. 24, 2014	Waikoloa, Hawaii	$PM_{2.5}$	24-hour avg.	35 $\mu g/m^3$	42 $\mu g/m^3$	high winds/dust
Mar. 23, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.419 ppm (7-8 p.m.)	volcanic emissions
Mar. 22, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.093 ppm (4-5 a.m.)	volcanic emissions
Mar. 21, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.086 ppm (10-11 p.m.)	volcanic emissions
Mar. 21, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.120 ppm (6-7 a.m.)	volcanic emissions
Mar. 19, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (11 a.m.-noon)	volcanic emissions
Mar. 19, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.115 ppm (8-9 a.m.)	volcanic emissions
Mar. 18, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.107 ppm (1-2 p.m.)	volcanic emissions
Mar. 18, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.645 ppm (9-10 a.m.)	volcanic emissions
Mar. 17, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.084 ppm (11 p.m.-midnight)	volcanic emissions
Mar. 17, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (3-4 a.m.)	volcanic emissions
Mar. 16, 2014	Waikoloa, Hawaii	$PM_{2.5}$	24-hour avg.	35 $\mu g/m^3$	39 $\mu g/m^3$	high winds/dust
Mar. 15, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.100 ppm (7-8 p.m.)	volcanic emissions
Mar. 12, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.091 ppm (8-9 a.m.)	volcanic emissions
Mar. 11, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.095 ppm (11 p.m.-midnight)	volcanic emissions
Mar. 7, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.691 ppm (8-9 a.m.)	volcanic emissions
Mar. 2, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (9-10 a.m.)	volcanic emissions

Feb. 28, 2014	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.103 ppm (1-2 a.m.)	volcanic emissions
Feb. 27, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.161 ppm (4-5 a.m.)	volcanic emissions
Feb. 27, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.128 ppm (3-4 a.m.)	volcanic emissions
Feb. 24, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.287 ppm (1-2 a.m.)	volcanic emissions
Feb. 24, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (2-3 a.m.)	volcanic emissions
Feb. 20, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (9-10 a.m.)	volcanic emissions
Feb. 19, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.090 ppm (7-8 a.m.)	volcanic emissions
Feb. 17, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.116 ppm (11 p.m.-midnight)	volcanic emissions
Feb. 17, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.323 ppm (midnight-1 a.m.)	volcanic emissions
Feb. 16, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.439 ppm (11 p.m.-midnight)	volcanic emissions
Feb. 14, 2014	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.129 ppm (6-7 a.m.)	volcanic emissions
Feb. 14, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.359 ppm (3-4 a.m.)	volcanic emissions
Feb. 14, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.193 ppm (7-8 a.m.)	volcanic emissions
Feb. 13, 2014	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.227 ppm (2-3 a.m.)	volcanic emissions
Feb. 13, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (4-5 a.m.)	volcanic emissions
Feb. 12, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.131 ppm (8-9 a.m.)	volcanic emissions
Feb. 11, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.330 ppm (4-5 a.m.)	volcanic emissions
Feb. 11, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.399 ppm (3-4 a.m.)	volcanic emissions
Feb. 10, 2014	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.305 ppm (7-8 a.m.)	volcanic emissions
Feb. 9, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.089 ppm (4-5 a.m.)	volcanic emissions
Feb. 8, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (9-10 a.m.)	volcanic emissions
Feb. 7, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.130 ppm (9-10 a.m.)	volcanic emissions
Feb. 7, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.091 ppm (8-9 a.m.)	volcanic emissions
Feb. 6, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.141 ppm (1-2 p.m.)	volcanic emissions
Feb. 5, 2014	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (8-9 a.m.)	volcanic emissions
Feb. 5, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.084 ppm (7-8 a.m.)	volcanic emissions
Feb. 2, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.196 ppm (4-5 a.m.)	volcanic emissions
Feb. 1, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.137 ppm (5-6 a.m.)	volcanic emissions
Jan. 31, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.109 ppm (5-6 p.m.)	volcanic emissions
Jan. 30, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.268 ppm (4-5 a.m.)	volcanic emissions
Jan. 29, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.215 ppm (9-10 a.m.)	volcanic emissions
Jan. 28, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.132 ppm (3-4 p.m.)	volcanic emissions
Jan. 27, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.117 ppm (9-10 a.m.)	volcanic emissions
Jan. 26, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.208 ppm (8-9 a.m.)	volcanic emissions
Jan. 26, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.300 ppm (4-5 a.m.)	volcanic emissions
Jan. 25, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.081 ppm (10-11 p.m.)	volcanic emissions

Jan. 22, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.114 ppm (1-2 a.m.)	volcanic emissions
Jan. 22, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.091 ppm (3-4 p.m.)	volcanic emissions
Jan. 21, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (1-2 a.m.)	volcanic emissions
Jan. 18, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.195 ppm (9-10 a.m.)	volcanic emissions
Jan. 18, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.170 ppm (7-8 a.m.)	volcanic emissions
Jan. 17, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.168 ppm (6-7 a.m.)	volcanic emissions
Jan. 16, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.225 ppm (10-11 a.m.)	volcanic emissions
Jan. 16, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.121 ppm (7-8 a.m.)	volcanic emissions
Jan. 14, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.188 ppm (5-6 a.m.)	volcanic emissions
Jan. 13, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.095 ppm (11 p.m.-midnight)	volcanic emissions
Jan. 13, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.126 ppm (11 a.m.-noon)	volcanic emissions
Jan. 13, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.119 ppm (8-9 a.m.)	volcanic emissions
Jan. 11, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (5-6 a.m.)	volcanic emissions
Jan. 11, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.229 ppm (midnight-1 a.m.)	volcanic emissions
Jan. 11, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.170 ppm (1-2 a.m.)	volcanic emissions
Jan. 10, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.866 ppm (10-11 p.m.)	volcanic emissions
Jan. 10, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.233 ppm (6-7 a.m.)	volcanic emissions
Jan. 9, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.121 ppm (4-5 a.m.)	volcanic emissions
Jan. 9, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.221 ppm (8-9 a.m.)	volcanic emissions
Jan. 8, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.165 ppm (9-10 a.m.)	volcanic emissions
Jan. 7, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.083 ppm (11 a.m.-noon)	volcanic emissions
Jan. 7, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.195 ppm (10-11 a.m.)	volcanic emissions
Jan. 6, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.102 ppm (8-9 p.m.)	volcanic emissions
Jan. 6, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.176 ppm (midnight-1 a.m.)	volcanic emissions
Jan. 5, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.141 ppm (11 p.m.-midnight)	volcanic emissions
Jan. 4, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.160 ppm (4-5 p.m.)	volcanic emissions
Jan. 3, 2014	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.354 ppm (8-9 a.m.)	volcanic emissions
Jan. 3, 2014	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.108 ppm (5-6 p.m.)	volcanic emissions
Jan. 3, 2014	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.451 ppm (9-10 a.m.)	volcanic emissions

ppm = unit of the standard is in parts per million
$\mu g/m^3$ = unit of the standard is in micrograms per cubic meter of air

List of Exceedances of the National Ambient Air Quality Standards

The Hawai'i State Department of Health is required to notify the public whenever the National Ambient Air Quality Standards (NAAQS) are exceeded. The list below shows the most recent exceedances due to an exceptional or natural event. For a listing of previous exceedances through 2014, please see the Department of Health, Clean Air Branch web page at http://health.hawaii.gov/cab/notification-of-exceedance-of-a-national-ambient-air-quality-standard/.

DATE	MONITORING STATION LOCATION & ISLAND	AIR POLLUTANT	STANDARD TYPE	STANDARD LIMIT	ACTUAL	CAUSE
Dec. 31, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.112 ppm (7-8 a.m.)	volcanic emissions
Dec. 31, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.223 ppm (7-8 a.m.)	volcanic emissions
Dec. 30, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.110 ppm (noon-1 p.m.)	volcanic emissions
Dec. 29, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.269 ppm 8-9 a.m.)	volcanic emissions
Dec. 29, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.180 ppm (5-6 a.m.)	volcanic emissions
Dec. 29, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.246 ppm (5-6 a.m.)	volcanic emissions
Dec. 27, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.147 ppm (9-10 a.m.)	volcanic emissions
Dec. 26, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.092 ppm (noon-1 p.m.)	volcanic emissions
Dec. 26, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.106 ppm (11 a.m.-noon)	volcanic emissions
Dec. 25, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.097 ppm (10-11 a.m.)	volcanic emissions
Dec. 24, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (8-9 a.m.)	volcanic emissions
Dec. 22, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (midnight-1 a.m.)	volcanic emissions
Dec. 22, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.160 ppm (midnight-1 a.m.)	volcanic emissions
Dec. 21, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.175 ppm (1-2 a.m.)	volcanic emissions
Dec. 20, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.223 ppm (4-5 a.m.)	volcanic emissions
Dec. 19, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.133 ppm (10-11 a.m.)	volcanic emissions
Dec. 18, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.224 ppm (3-4 p.m.)	volcanic emissions
Dec. 17, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.153 ppm (11 a.m.-noon)	volcanic emissions
Dec. 17, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.527 ppm (10-11 a.m.)	volcanic emissions
Dec. 16, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.176 ppm (9-10 a.m.)	volcanic emissions
Dec. 16, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.290 ppm (3-4 a.m.)	volcanic emissions
Dec. 15, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.262 ppm (7-8 p.m.)	volcanic emissions
Dec. 15, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.160 ppm (11 p.m.-midnight)	volcanic emissions
Dec. 14, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.083 ppm (3-4 a.m.)	volcanic emissions
Dec. 14, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.095 ppm (3-4 a.m.)	volcanic emissions
Dec. 13, 2015	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (8-9 a.m.)	volcanic emissions
Dec. 13, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (10-11 p.m.)	volcanic emissions

Dec. 13, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.570 ppm (8-9 p.m.)	volcanic emissions
Dec. 13, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.115 ppm (5-6 a.m.)	volcanic emissions
Dec. 12, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.308 ppm (8-9 a.m.)	volcanic emissions
Dec. 12, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.122 ppm (4-5 a.m.)	volcanic emissions
Dec. 11, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (10-11 a.m.)	volcanic emissions
Dec. 11, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.219 ppm (1-2 a.m.)	volcanic emissions
Dec. 10, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.158 ppm (11 a.m.-noon)	volcanic emissions
Dec. 9, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.208 ppm (midnight-1 a.m.)	volcanic emissions
Dec. 8, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.107 ppm (11 a.m.-noon)	volcanic emissions
Dec. 8, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.216 ppm (10-11 p.m.)	volcanic emissions
Dec. 7, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.211 ppm (7-8 a.m.)	volcanic emissions
Dec. 7, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.399 ppm (6-7 a.m.)	volcanic emissions
Dec. 6, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.391 ppm (9-10 p.m.)	volcanic emissions
Dec. 5, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.202 ppm (1-2 a.m.)	volcanic emissions
Dec. 4, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.123 ppm (5-6 a.m.)	volcanic emissions
Dec. 2, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.413 ppm (5-6 p.m.)	volcanic emissions
Dec. 1, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.197 ppm (7-8 a.m.)	volcanic emissions
Dec. 1, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.166 ppm (6-7 a.m.)	volcanic emissions
Nov. 29, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.274 ppm (3-4 a.m.)	volcanic emissions
Nov. 28, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.297 ppm (11 p.m.-midnight)	volcanic emissions
Nov. 27, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.127 ppm (6-7 p.m.)	volcanic emissions
Nov. 26, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.186 ppm (3-4 a.m.)	volcanic emissions
Nov. 23, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (8-9 a.m.)	volcanic emissions
Nov. 22, 2015	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.088 ppm (9-10 a.m.)	volcanic emissions
Nov. 22, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.107 ppm (7-8 a.m.)	volcanic emissions
Nov. 21, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.496 ppm (6-7 a.m.)	volcanic emissions
Nov. 20, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.130 ppm (10-11 a.m.)	volcanic emissions
Nov. 19, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.090 ppm (8-9 a.m.)	volcanic emissions
Nov. 18, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.220 ppm (midnight-1 a.m.)	volcanic emissions
Nov. 17, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.149 ppm (6-7 p.m.)	volcanic emissions
Nov. 17, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.227 ppm (11 p.m.-midnight)	volcanic emissions
Nov. 16, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.092 ppm (1-2 a.m.)	volcanic emissions
Nov. 16, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.154 ppm (midnight-1 a.m.)	volcanic emissions
Nov. 15, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.172 ppm (6-7 p.m.)	volcanic emissions
Nov. 15, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.351 ppm (5-6 p.m.)	volcanic emissions
Nov. 14, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.087 ppm (2-3 p.m.)	volcanic emissions

Nov. 14, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.225 ppm (4-5 p.m.)	volcanic emissions
Nov. 13, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.112 ppm (midnight-1 a.m.)	volcanic emissions
Nov. 12, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (5-6 p.m.)	volcanic emissions
Nov. 12, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.389 ppm (8-9 a.m.)	volcanic emissions
Nov. 11, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.183 ppm (8-9 a.m.)	volcanic emissions
Nov. 10, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (11 p.m.-midnight)	volcanic emissions
Nov. 10, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.281 ppm (4-5 p.m.)	volcanic emissions
Nov. 9, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.112 ppm (10-11 a.m.)	volcanic emissions
Nov. 9, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.175 ppm (3-4 a.m.)	volcanic emissions
Nov. 8, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (11 p.m.-midnight)	volcanic emissions
Nov. 8, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.240 ppm (1-2 p.m.)	volcanic emissions
Nov. 7, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.088 ppm (10-11 a.m.)	volcanic emissions
Nov. 7, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.310 ppm (6-7 p.m.)	volcanic emissions
Nov. 6, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.130 ppm (5-6 p.m.)	volcanic emissions
Nov. 5, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (5-6 p.m.)	volcanic emissions
Nov. 4, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.162 ppm (8-9 a.m.)	volcanic emissions
Nov. 4, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.165 ppm (8-9 a.m.)	volcanic emissions
Nov. 3, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.200 ppm (10-11 a.m.)	volcanic emissions
Nov. 2, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (midnight-1 a.m.)	volcanic emissions
Nov. 2, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (6-7 a.m.)	volcanic emissions
Nov. 1, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.436 ppm (4-5 a.m.)	volcanic emissions
Oct. 30, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.585 ppm (1-2 a.m.)	volcanic emissions
Oct. 30, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.115 ppm (3-4 a.m.)	volcanic emissions
Oct. 29, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (11 p.m.-midnight)	volcanic emissions
Oct. 28, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.160 ppm (8-9 a.m.)	volcanic emissions
Oct. 27, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.083 ppm (8-9 a.m.)	volcanic emissions
Oct. 25, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.129 ppm (5-6 a.m.)	volcanic emissions
Oct. 24, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.539 ppm (10-11 p.m.)	volcanic emissions
Oct. 23, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.111 ppm (5-6 a.m.)	volcanic emissions
Oct. 23, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.139 ppm (3-4 a.m.)	volcanic emissions
Oct. 22, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (9-10 a.m.)	volcanic emissions
Oct. 22, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.118 ppm (6-7 a.m.)	volcanic emissions
Oct. 21, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.090 ppm (5-6 a.m.)	volcanic emissions
Oct. 21, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.123 ppm (3-4 a.m.)	volcanic emissions
Oct. 19, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.188 ppm (9-10 p.m.)	volcanic emissions
Oct. 17, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.189 ppm (8-9 a.m.)	volcanic emissions

Oct. 16, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.151 ppm (6-7 p.m.)	volcanic emissions
Oct. 15, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.095 ppm (7-8 a.m.)	volcanic emissions
Oct. 15, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.114 ppm (6-7 a.m.)	volcanic emissions
Oct. 14, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.108 ppm (4-5 a.m.)	volcanic emissions
Oct. 14, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.282 ppm (2-3 a.m.)	volcanic emissions
Oct. 13, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.172 ppm (7-8 a.m.)	volcanic emissions
Oct. 13, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.240 ppm (11 p.m.-midnight)	volcanic emissions
Oct. 12, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.140 ppm (5-6 a.m.)	volcanic emissions
Oct. 9, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.149 ppm (1-2 a.m.)	volcanic emissions
Oct. 9, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.091 ppm (1-2 a.m.)	volcanic emissions
Oct. 8, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.090 ppm (midnight-1 a.m.)	volcanic emissions
Oct. 7, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.086 ppm (11 p.m.-midnight)	volcanic emissions
Oct. 5, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.421 ppm (8-9 a.m.)	volcanic emissions
Oct. 5, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.225 ppm (8-9 a.m.)	volcanic emissions
Oct. 4, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.187 ppm (9-10 a.m.)	volcanic emissions
Oct. 3, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.240 ppm (9-10 p.m.)	volcanic emissions
Oct. 2, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.139 ppm (9-10 a.m.)	volcanic emissions
Oct. 1, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.126 ppm (7-8 p.m.)	volcanic emissions
Sep. 30, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.186 ppm (9-10 a.m.)	volcanic emissions
Sep. 29, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (1-2 a.m.)	volcanic emissions
Sep. 28, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.165 ppm (10-11 p.m.)	volcanic emissions
Sep. 27, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.122 ppm (8-9 a.m.)	volcanic emissions
Sep. 26, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.127 ppm (11 a.m.-noon)	volcanic emissions
Sep. 26, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.265 ppm (6-7 p.m.)	volcanic emissions
Sep. 25, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.368 ppm (6-7 p.m.)	volcanic emissions
Sep. 22, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.115 ppm (8-9 p.m.)	volcanic emissions
Sep. 20, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.138 ppm (7-8 p.m.)	volcanic emissions
Sep. 19, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (6-7 a.m.)	volcanic emissions
Sep. 18, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (1-2 a.m.)	volcanic emissions
Sep. 17, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.112 ppm (10-11 a.m.)	volcanic emissions
Sep. 17, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.127 ppm (9-10 p.m.)	volcanic emissions
Sep. 16, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.104 ppm (4-5 p.m.)	volcanic emissions
Sep. 15, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (midnight-1 a.m.)	volcanic emissions
Sep. 15, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.315 ppm (midnight-1 a.m.)	volcanic emissions
Sep. 14, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.220 ppm (10-11 p.m.)	volcanic emissions
Sep. 14, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.202 ppm (1-2 a.m.)	volcanic emissions

Sep. 13, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.088 ppm (midnight-1 a.m.)	volcanic emissions
Sep. 12, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.162 ppm (6-7 a.m.)	volcanic emissions
Sep. 9, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.187 ppm (6-7 p.m.)	volcanic emissions
Sep. 6, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (8-9 a.m.)	volcanic emissions
Sep. 4, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.203 ppm (9-10 a.m.)	volcanic emissions
Sep. 4, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.382 ppm (5-6 a.m.)	volcanic emissions
Sep. 3, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (8-9 a.m.)	volcanic emissions
Sep. 1, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.118 ppm (11 a.m.-noon)	volcanic emissions
Sep. 1, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.107 ppm (5-6 p.m.)	volcanic emissions
Aug. 31, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.311 ppm (4-5 a.m.)	volcanic emissions
Aug. 31, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (5-6 a.m.)	volcanic emissions
Aug. 30, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.081 ppm (8-9 a.m.)	volcanic emissions
Aug. 30, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.113 ppm (1-2 a.m.)	volcanic emissions
Aug. 29, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.127 ppm (8-9 p.m.)	volcanic emissions
Aug. 29, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.100 ppm (8-9 a.m.)	volcanic emissions
Aug. 28, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.130 ppm (7-8 a.m.)	volcanic emissions
Aug. 26, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.132 ppm (6-7 a.m.)	volcanic emissions
Aug. 25, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.084 ppm (9-10 a.m.)	volcanic emissions
Aug. 24, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.098 ppm (4-5 p.m.)	volcanic emissions
Aug. 23, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.115 ppm (7-8 a.m.)	volcanic emissions
Aug. 22, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.132 ppm (3-4 p.m.)	volcanic emissions
Aug. 19, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.175 ppm (8-9 a.m.)	volcanic emissions
Aug. 18, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.241 ppm (4-5 a.m.)	volcanic emissions
Aug. 17, 2015	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (9-10 a.m.)	volcanic emissions
Aug. 17, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.219 ppm (8-9 a.m.)	volcanic emissions
Aug. 15, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.106 ppm (9-10 a.m.)	volcanic emissions
Aug. 14, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.112 ppm (3-4 a.m.)	volcanic emissions
Aug. 13, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.087 ppm (8-9 p.m.)	volcanic emissions
Aug. 13, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.092 ppm (6-7 a.m.)	volcanic emissions
Aug. 12, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.096 ppm (9-10 a.m.)	volcanic emissions
Aug. 12, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.175 ppm (9-10 a.m.)	volcanic emissions
Aug. 11, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.092 ppm (4-5 a.m.)	volcanic emissions
Aug. 10, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.105 ppm (10-11 p.m.)	volcanic emissions
Aug. 8, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.080 ppm (8-9 a.m.)	volcanic emissions
Aug. 7, 2015	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.128 ppm (6-7 a.m.)	volcanic emissions
Aug. 7, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.211 ppm (noon-1 p.m.)	volcanic emissions

Aug. 5, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.113 ppm (4-5 a.m.)	volcanic emissions
Aug. 5, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.148 ppm (4-5 a.m.)	volcanic emissions
Aug. 2, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (9-10 a.m.)	volcanic emissions
Aug. 2, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.132 ppm (1-2 a.m.)	volcanic emissions
Aug. 1, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (5-6 p.m.)	volcanic emissions
Aug. 1, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.167 ppm (8-9 a.m.)	volcanic emissions
July 31, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.169 ppm (1-2 a.m.)	volcanic emissions
July 30, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (6-7 a.m.)	volcanic emissions
July 29, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.113 ppm (9-10 a.m.)	volcanic emissions
July 29, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.337 ppm (7-8 a.m.)	volcanic emissions
July 28, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (7-8 a.m.)	volcanic emissions
July 27, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.100 ppm (7-8 a.m.)	volcanic emissions
July 26, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.106 ppm (10-11 p.m.)	volcanic emissions
July 26, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.086 ppm (7-8 a.m.)	volcanic emissions
July 25, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.108 ppm (1-2 a.m.)	volcanic emissions
July 24, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.126 ppm (6-7 a.m.)	volcanic emissions
July 22, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.113 ppm (11 a.m.-noon)	volcanic emissions
July 19, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.102 ppm (10-11 p.m.)	volcanic emissions
July 18, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.095 ppm (8-9 p.m.)	volcanic emissions
July 14, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.092 ppm (2-3 a.m.)	volcanic emissions
July 12, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.119 ppm (7-8 a.m.)	volcanic emissions
July 11, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.183 ppm (5-6 a.m.)	volcanic emissions
July 9, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.102 ppm (11 p.m.-midnight)	volcanic emissions
July 8, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.152 ppm (8-9 a.m.)	volcanic emissions
July 6, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.246 ppm (9-10 a.m.)	volcanic emissions
July 5, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.162 ppm (7-8 a.m.)	volcanic emissions
July 4, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.255 ppm (5-6 a.m.)	volcanic emissions
July 3, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.433 ppm (5-6 a.m.)	volcanic emissions
July 2, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.243 ppm (7-8 a.m.)	volcanic emissions
July 1, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.166 ppm (11 a.m.-noon)	volcanic emissions
July 1, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (9-10 a.m.)	volcanic emissions
June 30, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.319 ppm (4-5 a.m.)	volcanic emissions
June 28, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.219 ppm (6-7 a.m.)	volcanic emissions
June 27, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.162 ppm (8-9 a.m.)	volcanic emissions
June 26, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.145 ppm (10-11 a.m.)	volcanic emissions
June 23, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.169 ppm (1-2 a.m.)	volcanic emissions

June 22, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.103 ppm (11 p.m.-midnight)	volcanic emissions
June 21, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (5-6 a.m.)	volcanic emissions
June 21, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.161 ppm (4-5 a.m.)	volcanic emissions
June 20, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.162 ppm (9-10 a.m.)	volcanic emissions
June 18, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (7-8 a.m.)	volcanic emissions
June 16, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.090 ppm (8-9 a.m.)	volcanic emissions
June 16, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.168 ppm (8-9 a.m.)	volcanic emissions
June 14, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.146 ppm (8-9 p.m.)	volcanic emissions
June 12, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (8-9 a.m.)	volcanic emissions
June 12, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.112 ppm (8-9 a.m.)	volcanic emissions
June 11, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (8-9 a.m.)	volcanic emissions
June 11, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.102 ppm (8-9 a.m.)	volcanic emissions
June 10, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.118 ppm (7-8 a.m.)	volcanic emissions
June 7, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.106 ppm (8-9 a.m.)	volcanic emissions
June 4, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.103 ppm (7-8 a.m.)	volcanic emissions
June 2, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.105 ppm (8-9 a.m.)	volcanic emissions
May 31, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.131 ppm (7-8 a.m.)	volcanic emissions
May 28, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.229 ppm (9-10 a.m.)	volcanic emissions
May 28, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.083 ppm (7-8 a.m.)	volcanic emissions
May 19, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.083 ppm (6-7 a.m.)	volcanic emissions
May 17, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.132 ppm (11 a.m.-noon)	volcanic emissions
May 16, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (11 p.m.-midnight)	volcanic emissions
May 16, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.157 ppm (3-4 a.m.)	volcanic emissions
May 15, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.148 ppm (1-2 a.m.)	volcanic emissions
May 14, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.282 ppm (6-7 p.m.)	volcanic emissions
May 10, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.090 ppm (9-10 p.m.)	volcanic emissions
May 9, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.143 ppm (6-7 a.m.)	volcanic emissions
May 8, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.169 ppm (9-10 a.m.)	volcanic emissions
May 8, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.201 ppm (8-9 p.m.)	volcanic emissions
May 7, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (9-10 a.m.)	volcanic emissions
May 7, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.098 ppm (6-7 p.m.)	volcanic emissions
May 6, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.100 ppm (9-10 a.m.)	volcanic emissions
May 6, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.200 ppm (8-9 a.m.)	volcanic emissions
May 5, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.112 ppm (5-6 a.m.)	volcanic emissions
May 5, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.219 ppm (5-6 p.m.)	volcanic emissions
May 4, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.089 ppm (8-9 p.m.)	volcanic emissions

May 4, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.116 ppm (5-6 a.m.)	volcanic emissions
May 3, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.088 ppm (10-11 p.m.)	volcanic emissions
May 2, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.108 ppm (7-8 a.m.)	volcanic emissions
May 1, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.093 ppm (9-10 a.m.)	volcanic emissions
May 1, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.122 ppm (7-8 p.m.)	volcanic emissions
Apr. 30, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.080 ppm (9-10 a.m.)	volcanic emissions
Apr. 30, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.100 ppm (8-9 a.m.)	volcanic emissions
Apr. 29, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.111 ppm (10-11 a.m.)	volcanic emissions
Apr. 29, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.216 ppm (5-6 p.m.)	volcanic emissions
Apr. 28, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.119 ppm (7-8 p.m.)	volcanic emissions
Apr. 26, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.113 ppm (2-3 p.m.)	volcanic emissions
Apr. 25, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (7-8 a.m.)	volcanic emissions
Apr. 24, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (11 p.m.-midnight)	volcanic emissions
Apr. 23, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.140 ppm (10-11 a.m.)	volcanic emissions
Apr. 22, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.323 ppm (8-9 a.m.)	volcanic emissions
Apr. 22, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (3-4 a.m.)	volcanic emissions
Apr. 21, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.164 ppm (8-9 p.m.)	volcanic emissions
Apr. 21, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.307 ppm (6-7 a.m.)	volcanic emissions
Apr. 20, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.136 ppm (7-8 p.m.)	volcanic emissions
Apr. 20, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.325 ppm (7-8 p.m.)	volcanic emissions
Apr. 19, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.160 ppm (5-6 a.m.)	volcanic emissions
Apr. 18, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (5-6 a.m.)	volcanic emissions
Apr. 17, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.167 ppm (7-8 p.m.)	volcanic emissions
Apr. 16, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.113 ppm (8-9 a.m.)	volcanic emissions
Apr. 15, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.147 ppm (7-8 a.m.)	volcanic emissions
Apr. 14, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.139 ppm (6-7 a.m.)	volcanic emissions
Apr. 10, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.151 ppm (4-5 a.m.)	volcanic emissions
Apr. 9, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.133 ppm (5-6 a.m.)	volcanic emissions
Apr. 8, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.168 ppm (9-10 a.m.)	volcanic emissions
Apr. 8, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (7-8 p.m.)	volcanic emissions
Apr. 7, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.112 ppm (9-10 a.m.)	volcanic emissions
Apr. 7, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.130 ppm (7-8 p.m.)	volcanic emissions
Apr. 6, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.087 ppm (1-2 a.m.)	volcanic emissions
Apr. 5, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (noon-1 p.m.)	volcanic emissions
Apr. 5, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.254 ppm (10-11 a.m.)	volcanic emissions
Apr. 3, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.214 ppm (10-11 a.m.)	volcanic emissions

Apr. 1, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.102 ppm (6-7 a.m.)	volcanic emissions
Mar. 30, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (10-11 a.m.)	volcanic emissions
Mar. 30, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (6-7 a.m.)	volcanic emissions
Mar. 29, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (9-10 p.m.)	volcanic emissions
Mar. 27, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.113 ppm (10-11 p.m.)	volcanic emissions
Mar. 26, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.089 ppm (7-8 p.m.)	volcanic emissions
Mar. 23, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.187 ppm (6-7 a.m.)	volcanic emissions
Mar. 22, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.231 ppm (9-10 a.m.)	volcanic emissions
Mar. 22, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.146 ppm (8-9 a.m.)	volcanic emissions
Mar. 20, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.106 ppm (4-5 a.m.)	volcanic emissions
Mar. 19, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.175 ppm (5-6 a.m.)	volcanic emissions
Mar. 18, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.132 ppm (10-11 a.m.)	volcanic emissions
Mar. 18, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.124 ppm (6-7 a.m.)	volcanic emissions
Mar. 17, 2015	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.335 ppm (4-5 a.m.)	volcanic emissions
Mar. 17, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.107 ppm (5-6 a.m.)	volcanic emissions
Mar. 17, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.093 ppm (4-5 a.m.)	volcanic emissions
Mar. 17, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.124 ppm (5-6 a.m.)	volcanic emissions
Mar. 16, 2015	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.134 ppm (8-9 a.m.)	volcanic emissions
Mar. 16, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.191 ppm (9-10 a.m.)	volcanic emissions
Mar. 15, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.152 ppm (9-10 a.m.)	volcanic emissions
Mar. 14, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.110 ppm (8-9 a.m.)	volcanic emissions
Mar. 13, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.368 ppm (9-10 a.m.)	volcanic emissions
Mar. 10, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (9-10 a.m.)	volcanic emissions
Mar. 8, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.115 ppm (2-3 a.m.)	volcanic emissions
Mar. 7, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (1-2 p.m.)	volcanic emissions
Mar. 7, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.131 ppm (10-11 p.m.)	volcanic emissions
Mar. 3, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.247 ppm (8-9 a.m.)	volcanic emissions
Mar. 2, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.086 ppm (2-3 a.m.)	volcanic emissions
Mar. 1, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.111 ppm (10-11 p.m.)	volcanic emissions
Mar. 1, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.129 ppm (9-10 p.m.)	volcanic emissions
Feb. 28, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.188 ppm (11 a.m.-noon)	volcanic emissions
Feb. 26, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.218 ppm (6-7 a.m.)	volcanic emissions
Feb. 26, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (7-8 a.m.)	volcanic emissions
Feb. 25, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.115 ppm (3-4 a.m.)	volcanic emissions
Feb. 24, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.156 ppm (midnight-1 a.m.)	volcanic emissions
Feb. 24, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.132 ppm (midnight-1 a.m.)	volcanic emissions

Feb. 23, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.179 ppm (11 p.m.-midnight)	volcanic emissions
Feb. 19, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.276 ppm (2-3 a.m.)	volcanic emissions
Feb. 18, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (1-2 a.m.)	volcanic emissions
Feb. 14, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.206 ppm (5-6 a.m.)	volcanic emissions
Feb. 14, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.147 ppm (9-10 p.m.)	volcanic emissions
Feb. 13, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.176 ppm (1-2 a.m.)	volcanic emissions
Feb. 11, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (8-9 a.m.)	volcanic emissions
Feb. 11, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.214 ppm (8-9 a.m.)	volcanic emissions
Feb. 10, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.126 ppm (3-4 a.m.)	volcanic emissions
Feb. 10, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.087 ppm (7-8 p.m.)	volcanic emissions
Feb. 9, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.242 ppm (7-8 p.m.)	volcanic emissions
Feb. 8, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.197 ppm (6-7 p.m.)	volcanic emissions
Feb. 7, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.122 ppm (10-11 a.m.)	volcanic emissions
Feb. 4, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.152 ppm (2-3 a.m.)	volcanic emissions
Feb. 3, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.305 ppm (6-7 a.m.)	volcanic emissions
Feb. 2, 2015	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.215 ppm (7-8 a.m.)	volcanic emissions
Feb. 2, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.518 ppm (4-5 p.m.)	volcanic emissions
Feb. 2, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.110 ppm (2-3 a.m.)	volcanic emissions
Feb. 1, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.113 ppm (1-2 a.m.)	volcanic emissions
Jan. 29, 2015	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.197 ppm (8-9 a.m.)	volcanic emissions
Jan. 29, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.146 ppm (5-6 a.m.)	volcanic emissions
Jan. 28, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.516 ppm (5-6 a.m.)	volcanic emissions
Jan. 27, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.167 ppm (9-10 a.m.)	volcanic emissions
Jan. 23, 2015	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.124 ppm (9-10 a.m.)	volcanic emissions
Jan. 22, 2015	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.163 ppm (4-5 a.m.)	volcanic emissions
Jan. 22, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.178 ppm (1-2 a.m.)	volcanic emissions
Jan. 22, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (midnight-1 a.m.)	volcanic emissions
Jan. 21, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.342 ppm (8-9 a.m.)	volcanic emissions
Jan. 20, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.261 ppm (4-5 a.m.)	volcanic emissions
Jan. 20, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.143 ppm (9-10 a.m.)	volcanic emissions
Jan. 19, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (7-8 a.m.)	volcanic emissions
Jan. 19, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.143 ppm (7-8 a.m.)	volcanic emissions
Jan. 18, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.105 ppm (4-5 a.m.)	volcanic emissions
Jan. 17, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.382 ppm (8-9 a.m.)	volcanic emissions
Jan. 17, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.237 ppm (3-4 a.m.)	volcanic emissions
Jan. 16, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.086 ppm (11 a.m.-noon)	volcanic emissions

Jan. 16, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.105 ppm (9-10 a.m.)	volcanic emissions
Jan. 15, 2015	Hilo, Hawaii	SO_2	24-hour avg. 1-hour avg.	0.14 ppm 0.075 ppm	0.16 ppm 0.640 ppm (1-2 a.m.)	volcanic emissions
Jan. 15, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.329 ppm (6-7 a.m.)	volcanic emissions
Jan. 14, 2015	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.087 ppm (9-10 a.m.)	volcanic emissions
Jan. 14, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.150 ppm (8-9 a.m.)	volcanic emissions
Jan. 13, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.347 ppm (9-10 a.m.)	volcanic emissions
Jan. 13, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.252 ppm (8-9 a.m.)	volcanic emissions
Jan. 12, 2015	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.500 ppm (5-6 a.m.)	volcanic emissions
Jan. 12, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.310 ppm (5-6 a.m.)	volcanic emissions
Jan. 11, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.487 ppm (9-10 a.m.)	volcanic emissions
Jan. 10, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.121 ppm (11 a.m.-noon)	volcanic emissions
Jan. 10, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.315 ppm (4-5 a.m.)	volcanic emissions
Jan. 9, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.369 ppm (8-9 a.m.)	volcanic emissions
Jan. 8, 2015	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.118 ppm (8-9 a.m.)	volcanic emissions
Jan. 8, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.313 ppm (8-9 a.m.)	volcanic emissions
Jan. 7, 2015	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (10-11 a.m.)	volcanic emissions
Jan. 6, 2015	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.236 ppm (8-9 a.m.)	volcanic emissions
Jan. 6, 2015	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.133 ppm (8-9 a.m.)	volcanic emissions
Jan. 3, 2015	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (1-2 a.m.)	volcanic emissions

ppm = unit of the standard is in parts per million
$\mu g/m^3$ = unit of the standard is in micrograms per cubic meter of air

List of Exceedances of the National Ambient Air Quality Standards

The Hawai'i State Department of Health is required to notify the public whenever the National Ambient Air Quality Standards (NAAQS) are exceeded. The list below shows the most recent exceedances due to an exceptional or natural event. For a listing of previous exceedances through 2015, please see the Department of Health, Clean Air Branch web page at http://health.hawaii.gov/cab/notification-of-exceedance-of-a-national-ambient-air-quality-standard/.

DATE	MONITORING STATION LOCATION & ISLAND	AIR POLLUTANT	STANDARD TYPE	STANDARD LIMIT	ACTUAL	CAUSE
Dec. 31, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.118 ppm (9-10 p.m.)	volcanic emissions
Dec. 30, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.135 ppm (9-10 a.m.)	volcanic emissions
Dec. 30, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.107 ppm (1-2 a.m.)	volcanic emissions
Dec. 29, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.112 ppm (7-8 a.m.)	volcanic emissions
Dec. 28, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (1-2 p.m.)	volcanic emissions
Dec. 28, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (2-3 a.m.)	volcanic emissions
Dec. 27, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.446 ppm (8-9 a.m.)	volcanic emissions
Dec. 25, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.154 ppm (9-10 a.m.)	volcanic emissions
Dec. 25, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.219 ppm (10-11 p.m.)	volcanic emissions
Dec. 24, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (midnight-1 a.m.)	volcanic emissions
Dec. 23, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.214 ppm (5-6 a.m.)	volcanic emissions
Dec. 20, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.287 ppm (8-9 a.m.)	volcanic emissions
Dec. 19, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.107 ppm (7-8 p.m.)	volcanic emissions
Dec. 19, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.172 ppm (1-2 a.m.)	volcanic emissions
Dec. 18, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.203 ppm (11 p.m.-midnight)	volcanic emissions
Dec. 15, 2016	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.103 ppm (9-10 a.m.)	volcanic emissions
Dec. 14, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.228 ppm (1-2 a.m.)	volcanic emissions
Dec. 14, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.154 ppm (noon-1 p.m.)	volcanic emissions
Dec. 9, 2016	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.164 ppm (11 a.m.-noon)	volcanic emissions
Dec. 3, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.084 ppm (1-2 a.m.)	volcanic emissions
Dec. 3, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.120 ppm (2-3 a.m.)	volcanic emissions
Dec. 2, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.408 ppm (8-9 p.m.)	volcanic emissions
Dec. 2, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.284 ppm (8-9 p.m.)	volcanic emissions
Dec. 1, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.240 ppm (1-2 p.m.)	volcanic emissions
Nov. 30, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (2-3 p.m.)	volcanic emissions
Nov. 30, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.297 ppm (2-3 p.m.)	volcanic emissions
Nov. 29, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.203 ppm (11 a.m.-noon)	volcanic emissions

Nov. 29, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.406 ppm (10-11 a.m.)	volcanic emissions
Nov. 28, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.195 ppm (10-11 a.m.)	volcanic emissions
Nov. 28, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.282 ppm (1-2 a.m.)	volcanic emissions
Nov. 27, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.190 ppm (5-6 p.m.)	volcanic emissions
Nov. 27, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.360 ppm (11 p.m.-midnight)	volcanic emissions
Nov. 26, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (midnight-1 a.m.)	volcanic emissions
Nov. 26, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.748 ppm (8-9 a.m.)	volcanic emissions
Nov. 25, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.103 ppm (10-11 a.m.)	volcanic emissions
Nov. 25, 2016	Pahala, Hawaii	SO_2	24-hour avg. 1-hour avg.	0.14 ppm 0.075 ppm	0.17 ppm 0.460 ppm (10-11 a.m.)	volcanic emissions
Nov. 24, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.116 ppm (noon-1 p.m.)	volcanic emissions
Nov. 24, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.347 ppm (noon-1 p.m.)	volcanic emissions
Nov. 23, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.216 ppm (1-2 a.m.)	volcanic emissions
Nov. 22, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.159 ppm (11 a.m.-noon)	volcanic emissions
Nov. 22, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.287 ppm (1-2 a.m.)	volcanic emissions
Nov. 21, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.210 ppm (7-8 p.m.)	volcanic emissions
Nov. 20, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.105 ppm (4-5 a.m.)	volcanic emissions
Nov. 20, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.285 ppm (6-7 p.m.)	volcanic emissions
Nov. 19, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (7-8 p.m.)	volcanic emissions
Nov. 19, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.464 ppm (1-2 a.m.)	volcanic emissions
Nov. 18, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.167 ppm (8-9 a.m.)	volcanic emissions
Nov. 18, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.199 ppm (2-3 a.m.)	volcanic emissions
Nov. 17, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.532 ppm (5-6 a.m.)	volcanic emissions
Nov. 17, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.411 ppm (9-10 a.m.)	volcanic emissions
Nov. 16, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.083 ppm (9-10 a.m.)	volcanic emissions
Nov. 16, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.095 ppm (4-5 a.m.)	volcanic emissions
Nov. 15, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.319 ppm (7-8 p.m.)	volcanic emissions
Nov. 14, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.112 ppm (10-11 p.m.)	volcanic emissions
Nov. 13, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.188 ppm (7-8 a.m.)	volcanic emissions
Nov. 13, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.378 ppm (6-7 a.m.)	volcanic emissions
Nov. 12, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.157 ppm (8-9 a.m.)	volcanic emissions
Nov. 11, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.143 ppm (8-9 a.m.)	volcanic emissions
Nov. 11, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.240 ppm (5-6 a.m.)	volcanic emissions
Nov. 10, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.168 ppm (7-8 a.m.)	volcanic emissions
Nov. 10, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (8-9 a.m.)	volcanic emissions
Nov. 9, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.236 ppm (8-9 a.m.)	volcanic emissions

Nov. 8, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.114 ppm (8-9 a.m.)	volcanic emissions
Nov. 8, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.090 ppm (11 p.m.-midnight)	volcanic emissions
Nov. 7, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.169 ppm (5-6 a.m.)	volcanic emissions
Nov. 6, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.231 ppm (8-9 a.m.)	volcanic emissions
Nov. 5, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.215 ppm (6-7 a.m.)	volcanic emissions
Nov. 4, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.132 ppm (8-9 a.m.)	volcanic emissions
Nov. 3, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.119 ppm (7-8 a.m.)	volcanic emissions
Nov. 2, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.097 ppm (9-10 a.m.)	volcanic emissions
Nov. 1, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.120 ppm (6-7 a.m.)	volcanic emissions
Oct. 31, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (9-10 a.m.)	volcanic emissions
Oct. 31, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.155 ppm (6-7 a.m.)	volcanic emissions
Oct. 30, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.088 ppm (10-11 a.m.)	volcanic emissions
Oct. 30, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.423 ppm (6-7 p.m.)	volcanic emissions
Oct. 29, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.199 ppm (9-10 a.m.)	volcanic emissions
Oct. 29, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.284 ppm (4-5 a.m.)	volcanic emissions
Oct. 28, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.121 ppm (3-4 p.m.)	volcanic emissions
Oct. 28, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.231 ppm (6-7 p.m.)	volcanic emissions
Oct. 26, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (7-8 a.m.)	volcanic emissions
Oct. 26, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.373 ppm (9-10 a.m.)	volcanic emissions
Oct. 25, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.223 ppm (8-9 a.m.)	volcanic emissions
Oct. 25, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.232 ppm (7-8 p.m.)	volcanic emissions
Oct. 23, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (10-11 a.m.)	volcanic emissions
Oct. 23, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.249 ppm (7-8 a.m.)	volcanic emissions
Oct. 22, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.237 ppm (3-4 p.m.)	volcanic emissions
Oct. 21, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.136 ppm (2-3 p.m.)	volcanic emissions
Oct. 20, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (4-5 a.m.)	volcanic emissions
Oct. 19, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.121 ppm (9-10 a.m.)	volcanic emissions
Oct. 19, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.214 ppm (5-6 p.m.)	volcanic emissions
Oct. 18, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.305 ppm (2-3 a.m.)	volcanic emissions
Oct. 18, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.095 ppm (10-11 p.m.)	volcanic emissions
Oct. 17, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.093 ppm (8-9 a.m.)	volcanic emissions
Oct. 17, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.378 ppm (5-6 a.m.)	volcanic emissions
Oct. 16, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.329 ppm (midnight-1 a.m.)	volcanic emissions
Oct. 16, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.190 ppm (8-9 a.m.)	volcanic emissions
Oct. 15, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.131 ppm (3-4 a.m.)	volcanic emissions
Oct. 14, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.117 ppm (1-2 a.m.)	volcanic emissions

Oct. 13, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.122 ppm (9-10 a.m.)	volcanic emissions
Oct. 12, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.098 ppm (5-6 a.m.)	volcanic emissions
Oct. 10, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.155 ppm (8-9 a.m.)	volcanic emissions
Oct. 10, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.080 ppm (4-5 a.m.)	volcanic emissions
Oct. 9, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.171 ppm (8-9 a.m.)	volcanic emissions
Oct. 9, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.119 ppm (3-4 a.m.)	volcanic emissions
Oct. 6, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.262 ppm (2-3 a.m.)	volcanic emissions
Oct. 4, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.124 ppm (midnight-1 a.m.)	volcanic emissions
Oct. 4, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (midnight-1 a.m.)	volcanic emissions
Oct. 3, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.320 ppm (1-2 a.m.)	volcanic emissions
Oct. 3, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.089 ppm (midnight-1 a.m.)	volcanic emissions
Oct. 2, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.138 ppm (9-10 a.m.)	volcanic emissions
Oct. 1, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.090 ppm (11 a.m.-noon)	volcanic emissions
Oct. 1, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.123 ppm (5-6 a.m.)	volcanic emissions
Sep. 30, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (8-9 p.m.)	volcanic emissions
Sep. 28, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.212 ppm (6-7 a.m.)	volcanic emissions
Sep. 27, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (10-11 p.m.)	volcanic emissions
Sep. 26, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.131 ppm (8-9 a.m.)	volcanic emissions
Sep. 25, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.143 ppm (6-7 a.m.)	volcanic emissions
Sep. 23, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.227 ppm (4-5 a.m.)	volcanic emissions
Sep. 23, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.180 ppm (6-7 a.m.)	volcanic emissions
Sep. 22, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.151 ppm (midnight-1 a.m.)	volcanic emissions
Sep. 21, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.182 ppm (9-10 a.m.)	volcanic emissions
Sep. 21, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.102 ppm (11 p.m.-midnight)	volcanic emissions
Sep. 20, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.151 ppm (9-10 a.m.)	volcanic emissions
Sep. 19, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.123 ppm (1-2 a.m.)	volcanic emissions
Sep. 16, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.107 ppm (7-8 p.m.)	volcanic emissions
Sep. 15, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.098 ppm (9-10 a.m.)	volcanic emissions
Sep. 12, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.110 ppm (3-4 a.m.)	volcanic emissions
Sep. 12, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.209 ppm (midnight-1 a.m.)	volcanic emissions
Sep. 11, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.150 ppm (11 p.m.-midnight)	volcanic emissions
Sep. 8, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.108 ppm (8-9 a.m.)	volcanic emissions
Sep. 7, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.098 ppm (3-4 a.m.)	volcanic emissions
Sep. 6, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.164 ppm (3-4 a.m.)	volcanic emissions
Sep. 5, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.152 ppm (7-8 p.m.)	volcanic emissions
Sep. 4, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.083 ppm (4-5 a.m.)	volcanic emissions

Sep. 2, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.152 ppm (7-8 p.m.)	volcanic emissions
Sep. 1, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.150 ppm (6-7 a.m.)	volcanic emissions
August 31, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.081 ppm (noon-1 p.m.)	volcanic emissions
August 30, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.100 ppm (2-3 a.m.)	volcanic emissions
August 26, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.134 ppm (6-7 p.m.)	volcanic emissions
August 25, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.092 ppm (6-7 a.m.)	volcanic emissions
August 22, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.126 ppm (3-4 a.m.)	volcanic emissions
August 21, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.168 ppm (8-9 a.m.)	volcanic emissions
August 21, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.270 ppm (7-8 a.m.)	volcanic emissions
August 20, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (8-9 a.m.)	volcanic emissions
August 20, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (6-7 a.m.)	volcanic emissions
August 18, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.144 ppm (5-6 a.m.)	volcanic emissions
August 16, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.090 ppm (10-11 p.m.)	volcanic emissions
August 15, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.095 ppm (2-3 a.m.)	volcanic emissions
August 14, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (11 p.m.-midnight)	volcanic emissions
August 12, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (5-6 a.m.)	volcanic emissions
August 11, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.116 ppm (8-9 a.m.)	volcanic emissions
August 11, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.167 ppm (5-6 a.m.)	volcanic emissions
August 10, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.189 ppm (8-9 a.m.)	volcanic emissions
August 9, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.112 ppm (7-8 a.m.)	volcanic emissions
August 8, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (4-5 a.m.)	volcanic emissions
August 3, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.107 ppm (7-8 a.m.)	volcanic emissions
August 2, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.137 ppm (midnight-1 a.m.)	volcanic emissions
August 1, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.131 ppm (11 p.m.-midnight)	volcanic emissions
July 31, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.087 ppm (3-4 a.m.)	volcanic emissions
July 31, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.081 ppm (1-2 a.m.)	volcanic emissions
July 30, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.105 ppm (8-9 a.m.)	volcanic emissions
July 30, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.103 ppm (7-8 a.m.)	volcanic emissions
July 29, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.517 ppm (8-9 a.m.)	volcanic emissions
July 28, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.228 ppm (7-8 p.m.)	volcanic emissions
July 27, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.291 ppm (2-3 a.m.)	volcanic emissions
July 26, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.178 ppm (11 p.m.-midnight)	volcanic emissions
July 24, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.282 ppm (7-8 a.m.)	volcanic emissions
July 22, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (4-5 a.m.)	volcanic emissions
July 22, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (2-3 a.m.)	volcanic emissions
July 21, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (8-9 a.m.)	volcanic emissions

July 16, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.089 ppm (8-9 a.m.)	volcanic emissions
July 14, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.102 ppm (8-9 a.m.)	volcanic emissions
July 14, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.120 ppm (6-7 a.m.)	volcanic emissions
July 13, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.134 ppm (4-5 a.m.)	volcanic emissions
July 13, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.093 ppm (3-4 a.m.)	volcanic emissions
July 11, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.110 ppm (8-9 a.m.)	volcanic emissions
July 10, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.120 ppm (4-5 p.m.)	volcanic emissions
July 9, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.158 ppm (11 p.m.-midnight)	volcanic emissions
July 6, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.141 ppm (3-4 a.m.)	volcanic emissions
July 4, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.112 ppm (1-2 a.m.)	volcanic emissions
July 3, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.382 ppm (midnight-1 a.m.)	volcanic emissions
July 2, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.118ppm (6-7 p.m.)	volcanic emissions
July 2, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.406 ppm (5-6 p.m.)	volcanic emissions
July 1, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.260 ppm (6-7 p.m.)	volcanic emissions
June 30, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.197 ppm (7-8 a.m.)	volcanic emissions
June 27, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.087 ppm (9-10 a.m.)	volcanic emissions
June 27, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.226 ppm (3-4 a.m.)	volcanic emissions
June 26, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.093 ppm (3-4 a.m.)	volcanic emissions
June 26, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.239 ppm (3-4 a.m.)	volcanic emissions
June 25, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.193 ppm (2-3 a.m.)	volcanic emissions
June 24, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.087 ppm (9-10 p.m.)	volcanic emissions
June 23, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.142 ppm (7-8 p.m.)	volcanic emissions
June 22, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.157 ppm (7-8 a.m.)	volcanic emissions
June 20, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.102 ppm (1-2 a.m.)	volcanic emissions
June 19, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (7-8 a.m.)	volcanic emissions
June 18, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.109 ppm (11 p.m.-midnight)	volcanic emissions
June 18, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.120 ppm (3-4 a.m.)	volcanic emissions
June 17, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.210 ppm (3-4 a.m.)	volcanic emissions
June 16, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.089 ppm (4-5 a.m.)	volcanic emissions
June 15, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.250 ppm (8-9 a.m.)	volcanic emissions
June 15, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (7-8 a.m.)	volcanic emissions
June 14, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.223 ppm (10-11 a.m.)	volcanic emissions
June 13, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.117 ppm (7-8 p.m.)	volcanic emissions
June 13, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.129 ppm (8-9 p.m.)	volcanic emissions
June 12, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.216 ppm (5-6 a.m.)	volcanic emissions
June 12, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.218 ppm (8-9 p.m.)	volcanic emissions

June 9, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (7-8 a.m.)	volcanic emissions
June 8, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.093 ppm (noon-1 p.m.)	volcanic emissions
June 8, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.225 ppm (8-9 a.m.)	volcanic emissions
June 7, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.095 ppm (9-10 a.m.)	volcanic emissions
June 7, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.086 ppm (9-10 p.m.)	volcanic emissions
June 5, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.080 ppm (9-10 a.m.)	volcanic emissions
June 3, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.098 ppm (midnight-1 a.m.)	volcanic emissions
June 2, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.202 ppm (8-9 a.m.)	volcanic emissions
June 2, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.156 ppm (5-6 p.m.)	volcanic emissions
June 1, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (8-9 a.m.)	volcanic emissions
May 29, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.123 ppm (7-8 a.m.)	volcanic emissions
May 26, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.238 ppm (10-11 a.m.)	volcanic emissions
May 26, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.123 ppm (11 p.m.-midnight)	volcanic emissions
May 24, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (8-9 a.m.)	volcanic emissions
May 23, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.182 ppm (7-8 a.m.)	volcanic emissions
May 23, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.183 ppm (7-8 a.m.)	volcanic emissions
May 22, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.112 ppm (midnight-1 a.m.)	volcanic emissions
May 21, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.105 ppm (9-10 a.m.)	volcanic emissions
May 20, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.171 ppm (10-11 a.m.)	volcanic emissions
May 20, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.140 ppm (9-10 a.m.)	volcanic emissions
May 18, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.137 ppm (8-9 a.m.)	volcanic emissions
May 18, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (6-7 a.m.)	volcanic emissions
May 17, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.177 ppm (4-5 a.m.)	volcanic emissions
May 16, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.196 ppm (11 p.m.-midnight)	volcanic emissions
May 15, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.121 ppm (midnight-1 a.m.)	volcanic emissions
May 14, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.206 ppm (11 p.m.-midnight)	volcanic emissions
May 9, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.120 ppm (1-2 a.m.)	volcanic emissions
May 6, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.131 ppm (2-3 a.m.)	volcanic emissions
May 5, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.214 ppm (10-11 p.m.)	volcanic emissions
May 4, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.364 ppm (8-9 a.m.)	volcanic emissions
May 4, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.237 ppm (6-7 a.m.)	volcanic emissions
May 2, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.183 ppm (7-8 a.m.)	volcanic emissions
May 1, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.108 ppm (7-8 a.m.)	volcanic emissions
April 30, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.132 ppm (9-10 a.m.)	volcanic emissions
April 29, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.299 ppm (10-11 a.m.)	volcanic emissions
April 29, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.329 ppm (1-2 a.m.)	volcanic emissions

April 28, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.177 ppm (11 p.m.-midnight)	volcanic emissions
April 28, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.234 ppm (3-4 a.m.)	volcanic emissions
April 27, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.342 ppm (7-8 p.m.)	volcanic emissions
April 26, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.325 ppm (8-9 a.m.)	volcanic emissions
April 25, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (midnight-1 a.m.)	volcanic emissions
April 23, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.158 ppm (4-5 a.m.)	volcanic emissions
April 22, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.313 ppm (4-5 a.m.)	volcanic emissions
April 22, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.138 ppm (5-6 a.m.)	volcanic emissions
April 21, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (9-10 a.m.)	volcanic emissions
April 21, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.083 ppm (3-4 a.m.)	volcanic emissions
April 20, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.134 ppm (9-10 a.m.)	volcanic emissions
April 18, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.241 ppm (3-4 a.m.)	volcanic emissions
April 17, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.084 ppm (8-9 a.m.)	volcanic emissions
April 17, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.148 ppm (5-6 a.m.)	volcanic emissions
April 16, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.118 ppm (5-6 a.m.)	volcanic emissions
April 14, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.118 ppm (9-10 a.m.)	volcanic emissions
April 14, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.192 ppm (7-8 a.m.)	volcanic emissions
April 13, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.111 ppm (6-7 p.m.)	volcanic emissions
April 13, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.237 ppm (9-10 a.m.)	volcanic emissions
April 12, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (10-11 a.m.)	volcanic emissions
April 12, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.173 ppm (7-8 p.m.)	volcanic emissions
April 11, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.154 ppm (3-4 a.m.)	volcanic emissions
April 10, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.093 ppm (8-9 a.m.)	volcanic emissions
April 9, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.193 ppm (6-7 a.m.)	volcanic emissions
April 8, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.116 ppm (9-10 a.m.)	volcanic emissions
April 8, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.191 ppm (7-8 p.m.)	volcanic emissions
April 7, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (9-10 a.m.)	volcanic emissions
April 6, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.265 ppm (11 a.m.-noon)	volcanic emissions
April 6, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.216 ppm (9-10 a.m.)	volcanic emissions
April 5, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.136 ppm (8-9 a.m.)	volcanic emissions
April 5, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.127 ppm (6-7 a.m.)	volcanic emissions
April 4, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.268 ppm (3-4 a.m.)	volcanic emissions
April 3, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.121 ppm (9-10 a.m.)	volcanic emissions
April 3, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.302 ppm (8-9 a.m.)	volcanic emissions
April 2, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.104 ppm (10-11 p.m.)	volcanic emissions
April 2, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.127 ppm (8-9 p.m.)	volcanic emissions

April 1, 2016	Ocean View, Hawaii	SO_2 $PM_{2.5}$	1-hour avg. 24-hour avg.	0.075 ppm 35 µg/m^3	0.105 ppm (9-10 a.m.) 37 µg/m^3	volcanic emissions
April 1, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.187 ppm (2-3 a.m.)	volcanic emissions
March 31, 2016	Ocean View, Hawaii	SO_2 $PM_{2.5}$	1-hour avg. 24-hour avg.	0.075 ppm 35 µg/m^3	0.190 ppm (6-7 a.m.) 36 µg/m^3	volcanic emissions
March 31, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.158 ppm (5-6 a.m.)	volcanic emissions
March 30, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.102 ppm (8-9 a.m.)	volcanic emissions
March 29, 2016	Pahala, Hawaii	SO_2	1-hour avg. 24-hour avg.	0.075 ppm 0.14 ppm	0.524 ppm (midnight-1 a.m.) 0.16 ppm	volcanic emissions
March 28, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (10-11 a.m.)	volcanic emissions
March 25, 2016	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (5-6 a.m.)	volcanic emissions
March 25, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.336 ppm (2-3 a.m.)	volcanic emissions
March 24, 2016	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.108 ppm (8-9 a.m.)	volcanic emissions
March 24, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.111 ppm (midnight-1 a.m.)	volcanic emissions
March 23, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.103 ppm (9-10 a.m.)	volcanic emissions
March 23, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.093 ppm (9-10 p.m.)	volcanic emissions
March 22, 2016	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.396 ppm (5-6 a.m.)	volcanic emissions
March 22, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (4-5 a.m.)	volcanic emissions
March 22, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.083 ppm (5-6 a.m.)	volcanic emissions
March 22, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.164 ppm (11 p.m.-midnight)	volcanic emissions
March 21, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (8-9 a.m.)	volcanic emissions
March 21, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.344 ppm (9-10 a.m.)	volcanic emissions
March 21, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.265 ppm (10-11 p.m.)	volcanic emissions
March 20, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.104 ppm (10-11 a.m.)	volcanic emissions
March 20, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.460 ppm (8-9 a.m.)	volcanic emissions
March 19, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (9-10 a.m.)	volcanic emissions
March 19, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.114 ppm (10-11 a.m.)	volcanic emissions
March 18, 2016	Ocean View, Hawaii	SO_2 $PM_{2.5}$	1-hour avg. 24-hour avg.	0.075 ppm 35 µg/m^3	0.210 ppm (9-10 a.m.) 42 µg/m^3	volcanic emissions
March 18, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.378 ppm (8-9 a.m.)	volcanic emissions
March 17, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.133 ppm (10-11 a.m.)	volcanic emissions
March 17, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.187 ppm (7-8 p.m.)	volcanic emissions
March 15, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (9-10 a.m.)	volcanic emissions
March 13, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (6-7 a.m.)	volcanic emissions
March 12, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.111 ppm (5-6 p.m.)	volcanic emissions
March 12, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.270 ppm (8-9 a.m.)	volcanic emissions
March 11, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.192 ppm (noon-1 p.m.)	volcanic emissions

March 10, 2016	Kihei, Hawaii	$PM_{2.5}$	24-hour avg.	35 µg/m^3	47 µg/m^3	unable to determine
March 9, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.202 ppm (10-11 a.m.)	volcanic emissions
March 8, 2016	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.403 ppm (3-4 a.m.)	volcanic emissions
March 8, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.081 ppm (11 a.m.-noon)	volcanic emissions
March 8, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.338 ppm (1-2 a.m.)	volcanic emissions
March 8, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.234 ppm (2-3 a.m.)	volcanic emissions
March 7, 2016	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.313 ppm (5-6 a.m.)	volcanic emissions
March 7, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.176 ppm (midnight-1 a.m.)	volcanic emissions
March 7, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.205 ppm (11 p.m.-midnight)	volcanic emissions
March 6, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.109 ppm (11 p.m.-midnight)	volcanic emissions
March 6, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.204 ppm (4-5 a.m.)	volcanic emissions
March 5, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.330 ppm (5-6 a.m.)	volcanic emissions
March 5, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (5-6 a.m.)	volcanic emissions
March 4, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.137 ppm (8-9 a.m.)	volcanic emissions
March 3, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.151 ppm (5-6 a.m.)	volcanic emissions
March 3, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.137 ppm (7-8 a.m.)	volcanic emissions
March 2, 2016	Ocean View, Hawaii	$PM_{2.5}$	24-hour avg.	35 µg/m^3	36 µg/m^3	volcanic emissions
March 2, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.135 ppm (10-11 a.m.)	volcanic emissions
March 1, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.103 ppm (10-11 a.m.)	volcanic emissions
Feb. 29, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.144 ppm (4-5 a.m.)	volcanic emissions
Feb. 29, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.434 ppm (10-11 a.m.)	volcanic emissions
Feb. 29, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.102 ppm (7-8 a.m.)	volcanic emissions
Feb. 28, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.087 ppm (10-11 p.m.)	volcanic emissions
Feb. 28, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.095 ppm (10-11 a.m.)	volcanic emissions
Feb. 28, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.347 ppm (7-8 a.m.)	volcanic emissions
Feb. 27, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (4-5 a.m.)	volcanic emissions
Feb. 27, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.100 ppm (11 p.m.-midnight)	volcanic emissions
Feb. 25, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.121 ppm (10-11 a.m.)	volcanic emissions
Feb. 22, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.287 ppm (8-9 a.m.)	volcanic emissions
Feb. 21, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.156 ppm (9-10 a.m.)	volcanic emissions
Feb. 21, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.228 ppm (7-8 p.m.)	volcanic emissions
Feb. 20, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (noon-1 p.m.)	volcanic emissions
Feb. 19, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.141 ppm (8-9 a.m.)	volcanic emissions
Feb. 18, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.116 ppm (5-6 p.m.)	volcanic emissions
Feb. 17, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.419 ppm (4-5 p.m.)	volcanic emissions
Feb. 16, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (7-8 p.m.)	volcanic emissions

Feb. 15, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.229 ppm (4-5 p.m.)	volcanic emissions
Feb. 14, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.184 ppm (8-9 a.m.)	volcanic emissions
Feb. 13, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.569 ppm (8-9 a.m.)	volcanic emissions
Feb. 13, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.092 ppm (9-10 a.m.)	volcanic emissions
Feb. 12, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.208 ppm (10-11 p.m.)	volcanic emissions
Feb. 12, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.359 ppm (4-5 a.m.)	volcanic emissions
Feb. 11, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.196 ppm (8-9 a.m.)	volcanic emissions
Feb. 11, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.558 ppm (8-9 a.m.)	volcanic emissions
Feb. 10, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.160 ppm (2-3 a.m.)	volcanic emissions
Feb. 10, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.314 ppm (11 p.m.-midnight)	volcanic emissions
Feb. 10, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.261 ppm (7-8 a.m.)	volcanic emissions
Feb. 9, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.222 ppm (10-11 a.m.)	volcanic emissions
Feb. 8, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.482 ppm (10-11 a.m.)	volcanic emissions
Feb. 7, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.136 ppm (11 p.m.-midnight)	volcanic emissions
Feb. 6, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.095 ppm (3-4 p.m.)	volcanic emissions
Feb. 6, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.351 ppm (5-6 a.m.)	volcanic emissions
Feb. 6, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.210 ppm (3-4 a.m.)	volcanic emissions
Feb. 5, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.088 ppm (10-11 p.m.)	volcanic emissions
Feb. 5, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.098 ppm (4-5 a.m.)	volcanic emissions
Feb. 4, 2016	Ocean View, Hawaii	SO_2	1-hour avg. 3-hr avg.	0.075 ppm 0.5 ppm	1.447 ppm (7-8 a.m.) 0.6 ppm (6-9 a.m.)	volcanic emissions
Feb. 4, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.366 ppm (7-8 a.m.)	volcanic emissions
Feb. 2, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.140 ppm (1-2 a.m.)	volcanic emissions
Feb. 1, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.084 ppm (9-10 a.m.)	volcanic emissions
Feb. 1, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.271 ppm (6-7 a.m.)	volcanic emissions
Jan. 31, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.351 ppm (2-3 a.m.)	volcanic emissions
Jan. 31, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.169 ppm (2-3 a.m.)	volcanic emissions
Jan. 30, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.273 ppm (3-4 a.m.)	volcanic emissions
Jan. 29, 2016	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.182 ppm (3-4 a.m.)	volcanic emissions
Jan. 29, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.109 ppm (2-3 a.m.)	volcanic emissions
Jan. 29, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.091 ppm (11 p.m.-midnight)	volcanic emissions
Jan. 29, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.603 ppm (3-4 a.m.)	volcanic emissions
Jan. 28, 2016	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.138 ppm (6-7 a.m.)	volcanic emissions
Jan. 28, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.105 ppm (3-4 a.m.)	volcanic emissions
Jan. 28, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.092 ppm (9-10 a.m.)	volcanic emissions
Jan. 28, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.139 ppm (8-9 a.m.)	volcanic emissions

Jan. 27, 2016	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.397 ppm (8-9 a.m.)	volcanic emissions
Jan. 27, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.251 ppm (1-2 a.m.)	volcanic emissions
Jan. 26, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (10-11 p.m.)	volcanic emissions
Jan. 26, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.093 ppm (9-10 a.m.)	volcanic emissions
Jan. 24, 2016	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.149 ppm (2-3 a.m.)	volcanic emissions
Jan. 24, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.188 ppm (8-9 a.m.)	volcanic emissions
Jan. 24, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.244 ppm (7-8 a.m.)	volcanic emissions
Jan. 24, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.455 ppm (4-5 a.m.)	volcanic emissions
Jan. 23, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.092 ppm (11 p.m.-midnight)	volcanic emissions
Jan. 22, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.306 ppm (9-10 a.m.)	volcanic emissions
Jan. 21, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.404 ppm (8-9 a.m.)	volcanic emissions
Jan. 21, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.484 ppm (4-5 a.m.)	volcanic emissions
Jan. 20, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.102 ppm (noon-1 p.m.)	volcanic emissions
Jan. 20, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.173 ppm (9-10 a.m.)	volcanic emissions
Jan. 19, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.180 ppm (8-9 a.m.)	volcanic emissions
Jan. 19, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.327 ppm (6-7 a.m.)	volcanic emissions
Jan. 18, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.142 ppm (9-10 a.m.)	volcanic emissions
Jan. 18, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.188 ppm (7-8 a.m.)	volcanic emissions
Jan. 17, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.466 ppm (8-9 a.m.)	volcanic emissions
Jan. 17, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.254 ppm (4-5 a.m.)	volcanic emissions
Jan. 16, 2016	Kona, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (8-9 a.m.)	volcanic emissions
Jan. 16, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.189 ppm (1-2 a.m.)	volcanic emissions
Jan. 16, 2016	Pahala, Hawaii	SO_2	1-hour avg. 3-hr avg.	0.075 ppm 0.5 ppm	0.703 ppm (midnight-1 a.m.) 0.6 ppm (midnight-3 a.m.)	volcanic emissions
Jan. 15, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.430 ppm (6-7 a.m.)	volcanic emissions
Jan. 15, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.336 ppm (4-5 a.m.)	volcanic emissions
Jan. 14, 2016	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.140 ppm (8-9 a.m.)	volcanic emissions
Jan. 14, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.482 ppm (1-2 a.m.)	volcanic emissions
Jan. 14, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.170 ppm (2-3 a.m.)	volcanic emissions
Jan. 13, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.557 ppm (8-9 a.m.)	volcanic emissions
Jan. 13, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.261 ppm (6-7 a.m.)	volcanic emissions
Jan. 12, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.098 ppm (8-9 a.m.)	volcanic emissions
Jan. 12, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.091 ppm (7-8 a.m.)	volcanic emissions
Jan. 11, 2016	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.216 ppm (8-9 a.m.)	volcanic emissions
Jan. 11, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.615 ppm (6-7 a.m.)	volcanic emissions
Jan. 11, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.240 ppm (11 p.m.-midnight)	volcanic emissions

Jan. 11, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.492 ppm (6-7 a.m.)	volcanic emissions
Jan. 10, 2016	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.186 ppm (7-8 a.m.)	volcanic emissions
Jan. 10, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.118 ppm (3-4 p.m.)	volcanic emissions
Jan. 10, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (2-3 a.m.)	volcanic emissions
Jan. 10, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.152 ppm (4-5 a.m.)	volcanic emissions
Jan. 9, 2016	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.080 ppm (10-11 a.m.)	volcanic emissions
Jan. 9, 2016	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.175 ppm (6-7 a.m.)	volcanic emissions
Jan. 8, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.240 ppm (2-3 a.m.)	volcanic emissions
Jan. 8, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.090 ppm (3-4 a.m.)	volcanic emissions
Jan. 7, 2016	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.145 ppm (midnight-1 a.m.)	volcanic emissions
Jan. 7, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (10-11 p.m.)	volcanic emissions
Jan. 7, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (midnight-1 a.m.)	volcanic emissions
Jan. 6, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.080 ppm (7-8 a.m.)	volcanic emissions
Jan. 5, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.337 ppm (3-4 a.m.)	volcanic emissions
Jan. 4, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.337 ppm (9-10 a.m.)	volcanic emissions
Jan. 3, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.126 ppm (3-4 a.m.)	volcanic emissions
Jan. 3, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.381 ppm (10-11 a.m.)	volcanic emissions
Jan. 2, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.299 ppm (1-2 a.m.)	volcanic emissions
Jan. 1, 2016	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.117 ppm (9-10 a.m.)	volcanic emissions
Jan. 1, 2016	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.143 ppm (9-10 a.m.)	volcanic emissions

ppm = unit of the standard is in parts per million
$\mu g/m^3$ = unit of the standard is in micrograms per cubic meter of air

List of Exceedances of the National Ambient Air Quality Standards

The Hawai'i State Department of Health is required to notify the public whenever the National Ambient Air Quality Standards (NAAQS) are exceeded. The list below shows the most recent exceedances due to an exceptional or natural event. For a listing of previous exceedances through 2016, please see the Department of Health, Clean Air Branch web page at http://health.hawaii.gov/cab/notification-of-exceedance-of-a-national-ambient-air-quality-standard/.

DATE	MONITORING STATION LOCATION & ISLAND	AIR POLLUTANT	STANDARD TYPE	STANDARD LIMIT	ACTUAL	CAUSE
Dec. 31, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.116 ppm (8-9 a.m.)	volcanic emissions
Dec. 31, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.339 ppm (9-10 a.m.)	volcanic emissions
Dec. 29, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.114 ppm (9-10 a.m.)	volcanic emissions
Dec. 29, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (7-8 a.m.)	volcanic emissions
Dec. 28, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.176 ppm (9-10 a.m.)	volcanic emissions
Dec. 26, 2017	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.103 ppm (10-11 a.m.)	volcanic emissions
Dec. 25, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.316 ppm (6-7 a.m.)	volcanic emissions
Dec. 25, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.264 ppm (7-8 a.m.)	volcanic emissions
Dec. 24, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.121 ppm (10-11 a.m.)	volcanic emissions
Dec. 24, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.183 ppm (7-8 a.m.)	volcanic emissions
Dec. 23, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.161 ppm (10-11 a.m.)	volcanic emissions
Dec. 22, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.081 ppm (8-9 a.m.)	volcanic emissions
Dec. 21, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.139 ppm (10-11 a.m.)	volcanic emissions
Dec. 21, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.102 ppm (10-11 a.m.)	volcanic emissions
Dec. 19, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.120 ppm (noon-1 a.m.)	volcanic emissions
Dec. 14, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.207 ppm (1-2 p.m.)	volcanic emissions
Dec. 12, 2017	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.114 ppm (8-9 a.m.)	volcanic emissions
Dec. 11, 2017	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.131 ppm (9-10 a.m.)	volcanic emissions
Dec. 11, 2017	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.126 ppm (7-8 a.m.)	volcanic emissions
Dec. 11, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.106 ppm (2-3 a.m.)	volcanic emissions
Dec. 10, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.175 ppm (10-11 a.m.)	volcanic emissions
Dec. 10, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.218 ppm (6-7 a.m.)	volcanic emissions
Dec. 9, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (11 p.m.-midnight)	volcanic emissions
Dec. 8, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.251 ppm (5-6 a.m.)	volcanic emissions
Dec. 8, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.182 ppm (9-10 a.m.)	volcanic emissions
Dec. 7, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.175 ppm (9-10 a.m.)	volcanic emissions

Dec. 6, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.158 ppm (10-11 a.m.)	volcanic emissions
Dec. 5, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.100 ppm (midnight-1 a.m.)	volcanic emissions
Dec. 4, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.121 ppm (11 a.m.-noon)	volcanic emissions
Dec. 4, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.321 ppm (10-11 a.m.)	volcanic emissions
Dec. 3, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.115 ppm (3-4 p.m.)	volcanic emissions
Dec. 2, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.109 ppm (2-3 p.m.)	volcanic emissions
Dec. 1, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.193 ppm (3-4 a.m.)	volcanic emissions
Dec. 1, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (1-2 a.m.)	volcanic emissions
Nov. 30, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.138 ppm (7-8 p.m.)	volcanic emissions
Nov. 29, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.095 ppm (8-9 a.m.)	volcanic emissions
Nov. 29, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.086 ppm (3-4 p.m.)	volcanic emissions
Nov. 27, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.181 ppm (4-5 a.m.)	volcanic emissions
Nov. 26, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.674 ppm (4-5 p.m.)	volcanic emissions
Nov. 25, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.215 ppm (5-6 p.m.)	volcanic emissions
Nov. 24, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (5-6 p.m.)	volcanic emissions
Nov. 23, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.088 ppm (9-10 a.m.)	volcanic emissions
Nov. 23, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (9-10 a.m.)	volcanic emissions
Nov. 22, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.151 ppm (8-9 a.m.)	volcanic emissions
Nov. 17, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (9-10 a.m.)	volcanic emissions
Nov. 16, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.648 ppm (6-7 p.m.)	volcanic emissions
Nov. 15, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.155 ppm (2-3 p.m.)	volcanic emissions
Nov. 14, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (11 a.m.-noon)	volcanic emissions
Nov. 14, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (10-11 a.m.)	volcanic emissions
Nov. 12, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.126 ppm (8-9 a.m.)	volcanic emissions
Nov. 10, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.222 ppm (midnight-1 a.m.)	volcanic emissions
Nov. 9, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.142 ppm (9-10 a.m.)	volcanic emissions
Nov. 9, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.514 ppm (10-11 p.m.)	volcanic emissions
Nov. 7, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.170 ppm (1-2 a.m.)	volcanic emissions
Nov. 5, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.113 ppm (5-6 p.m.)	volcanic emissions
Nov. 5, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.103 ppm (8-9 p.m.)	volcanic emissions
Nov. 4, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.145 ppm (8-9 a.m.)	volcanic emissions
Nov. 4, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.274 ppm (5-6 a.m.)	volcanic emissions
Nov. 3, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.155 ppm (3-4 a.m.)	volcanic emissions
Nov. 2, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.195 ppm (7-8 a.m.)	volcanic emissions
Oct. 30, 2017	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.103 ppm (9-10 a.m.)	volcanic emissions
Oct. 25, 2017	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.080 ppm (10-11 a.m.)	volcanic emissions

Oct. 23, 2017	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.282 ppm (7-8 a.m.)	volcanic emissions
Oct. 23, 2017	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.190 ppm (10-11 a.m.)	volcanic emissions
Oct. 22, 2017	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.159 ppm (2-3 a.m.)	volcanic emissions
Oct. 22, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.349 ppm (2-3 a.m.)	volcanic emissions
Oct. 21, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.089 ppm (7-8 a.m.)	volcanic emissions
Oct. 21, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.194 ppm (8-9 a.m.)	volcanic emissions
Oct. 20, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.232 ppm (5-6 a.m.)	volcanic emissions
Oct. 19, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.181 ppm (noon-1 p.m.)	volcanic emissions
Oct. 18, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.196 ppm (6-7 p.m.)	volcanic emissions
Oct. 17, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.263 ppm (9-10 a.m.)	volcanic emissions
Oct. 16, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.444 ppm (11 p.m.-midnight)	volcanic emissions
Oct. 15, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.132 ppm (10-11 a.m.)	volcanic emissions
Oct. 15, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.352 ppm (noon-1 p.m.)	volcanic emissions
Oct. 14, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.573 ppm (3-4 a.m.)	volcanic emissions
Oct. 14, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.173 ppm (9-10 a.m.)	volcanic emissions
Oct. 13, 2017	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.131 ppm (midnight-1 a.m.)	volcanic emissions
Oct. 12, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.112 ppm (8-9 a.m.)	volcanic emissions
Oct. 11, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.159 ppm (midnight-1 a.m.)	volcanic emissions
Oct. 10, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.158 ppm (1-2 a.m.)	volcanic emissions
Oct. 10, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.182 ppm (11 p.m.-midnight)	volcanic emissions
Oct. 7, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.110 ppm (3-4 a.m.)	volcanic emissions
Oct. 6, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.124 ppm (8-9 a.m.)	volcanic emissions
Oct. 5, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.425 ppm (1-2 a.m.)	volcanic emissions
Oct. 4, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.426 ppm (9-10 p.m.)	volcanic emissions
Sep. 28, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.124 ppm (8-9 a.m.)	volcanic emissions
Sep. 28, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.178 ppm (8-9 a.m.)	volcanic emissions
Sep. 27, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.118 ppm (1-2 a.m.)	volcanic emissions
Sep. 26, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.146 ppm (10-11 p.m.)	volcanic emissions
Sep. 24, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.235 ppm (8-9 a.m.)	volcanic emissions
Sep. 23, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.111 ppm (10-11 a.m.)	volcanic emissions
Sep. 23, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.137 ppm (midnight-1 a.m.)	volcanic emissions
Sep. 22, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.178 ppm (4-5 a.m.)	volcanic emissions
Sep. 21, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (8-9 a.m.)	volcanic emissions
Sep. 20, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.259 ppm (1-2 a.m.)	volcanic emissions
Sep. 19, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.143 ppm (1-2 a.m.)	volcanic emissions
Sep. 18, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.142 ppm (9-10 p.m.)	volcanic emissions

Sep. 17, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.089 ppm (2-3 p.m.)	volcanic emissions
Sep. 17, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.515 ppm (9-10 a.m.)	volcanic emissions
Sep. 16, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.380 ppm (8-9 a.m.)	volcanic emissions
Sep. 15, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.156 ppm (1-2 a.m.)	volcanic emissions
Sep. 9, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.104 ppm (midnight-1 a.m.)	volcanic emissions
Sep. 7, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.090 ppm (7-8 p.m.)	volcanic emissions
Sep. 6, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.182 ppm (7-8 a.m.)	volcanic emissions
Sep. 6, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.090 ppm (8-9 a.m.)	volcanic emissions
Sep. 5, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.111 ppm (7-8 a.m.)	volcanic emissions
Sep. 4, 2017	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.098 ppm (3-4 a.m.)	volcanic emissions
Sep. 2, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.247 ppm (7-8 a.m.)	volcanic emissions
Sep. 2, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.166 ppm (9-10 a.m.)	volcanic emissions
Sep. 1, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.152 ppm (6-7 a.m.)	volcanic emissions
Aug. 31, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.119 ppm (7-8 a.m.)	volcanic emissions
Aug. 30, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.198 ppm (7-8 a.m.)	volcanic emissions
Aug. 27, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.333 ppm (7-8 a.m.)	volcanic emissions
Aug. 26, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (11 p.m.-midnight)	volcanic emissions
Aug. 25, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (7-8 a.m.)	volcanic emissions
Aug. 24, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.092 ppm (4-5 a.m.)	volcanic emissions
Aug. 21, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.154 ppm (1-2 a.m.)	volcanic emissions
Aug. 20, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.081 ppm (5-6 a.m.)	volcanic emissions
Aug. 19, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.202 ppm (1-2 a.m.)	volcanic emissions
Aug. 19, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.109 ppm (11 p.m.-midnight)	volcanic emissions
Aug. 18, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.185 ppm (9-10 a.m.)	volcanic emissions
Aug. 18, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.181 ppm (4-5 a.m.)	volcanic emissions
Aug. 17, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.135 ppm (8-9 a.m.)	volcanic emissions
Aug. 17, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.106 ppm (8-9 a.m.)	volcanic emissions
Aug. 15, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.104 ppm (8-9 a.m.)	volcanic emissions
Aug. 14, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.108 ppm (9-10 p.m.)	volcanic emissions
Aug. 14, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.124 ppm (8-9 p.m.)	volcanic emissions
Aug. 13, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.239 ppm (11 p.m.-midnight)	volcanic emissions
Aug. 11, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.083 ppm (7-8 p.m.)	volcanic emissions
Aug. 6, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (8-9 a.m.)	volcanic emissions
Aug. 6, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.201 ppm (4-5 a.m.)	volcanic emissions
Aug. 5, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.106 ppm (7-8 a.m.)	volcanic emissions
Aug. 4, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.105 ppm (11 p.m.-midnight)	volcanic emissions

Aug. 1, 2017	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (4-5 a.m.)	volcanic emissions
Aug. 1, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.145 ppm (midnight-1 a.m.)	volcanic emissions
Aug. 1, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (4-5 a.m.)	volcanic emissions
July 31, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.223 ppm (11 p.m.-midnight)	volcanic emissions
July 31, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.086 ppm (10-11 p.m.)	volcanic emissions
July 30, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.089 ppm (8-9 a.m.)	volcanic emissions
July 28, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.097 ppm (8-9 a.m.)	volcanic emissions
July 28, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.130 ppm (2-3 a.m.)	volcanic emissions
July 27, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (9-10 p.m.)	volcanic emissions
July 27, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.103 ppm (8-9 a.m.)	volcanic emissions
July 26, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.109 ppm (7-8 a.m.)	volcanic emissions
July 26, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.155 ppm (6-7 a.m.)	volcanic emissions
July 23, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.170 ppm (1-2 a.m.)	volcanic emissions
July 21, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.088 ppm (3-4 a.m.)	volcanic emissions
July 20, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.132 ppm (5-6 p.m.)	volcanic emissions
July 19, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.100 ppm (10-11 p.m.)	volcanic emissions
July 17, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.096 ppm (7-8 a.m.)	volcanic emissions
July 16, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.091 ppm (2-3 a.m.)	volcanic emissions
July 15, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (6-7 a.m.)	volcanic emissions
July 15, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.103 ppm (1-2 a.m.)	volcanic emissions
July 13, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.268 ppm (8-9 a.m.)	volcanic emissions
July 11, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.105 ppm (5-6 a.m.)	volcanic emissions
July 10, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.204 ppm (8-9 a.m.)	volcanic emissions
July 8, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.152 ppm (7-8 a.m.)	volcanic emissions
July 7, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.134 ppm (3-4 a.m.)	volcanic emissions
July 6, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.088 ppm (7-8 a.m.)	volcanic emissions
July 5, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.262 ppm (5-6 a.m.)	volcanic emissions
July 5, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.379 ppm (2-3 a.m.)	volcanic emissions
July 4, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.225 ppm (4-5 a.m.)	volcanic emissions
July 3, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.124 ppm (8-9 a.m.)	volcanic emissions
July 2, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.235 ppm (1-2 a.m.)	volcanic emissions
July 2, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.178 ppm (2-3 a.m.)	volcanic emissions
July 1, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.139 ppm (7-8 a.m.)	volcanic emissions
July 1, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.171 ppm (8-9 a.m.)	volcanic emissions
June 30, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.199 ppm (9-10 a.m.)	volcanic emissions
June 29, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (9-10 a.m.)	volcanic emissions

June 28, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.199 ppm (4-5 p.m.)	volcanic emissions
June 27, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.192 ppm (midnight-1 a.m.)	volcanic emissions
June 26, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.268 ppm (8-9 a.m.)	volcanic emissions
June 25, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.118 ppm (4-5 a.m.)	volcanic emissions
June 24, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.281 ppm (9-10 p.m.)	volcanic emissions
June 22, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.170 ppm (7-8 a.m.)	volcanic emissions
June 22, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.157 ppm (2-3 a.m.)	volcanic emissions
June 21, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (7-8 a.m.)	volcanic emissions
June 20, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.097 ppm (10-11 p.m.)	volcanic emissions
June 17, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.104 ppm (3-4 a.m.)	volcanic emissions
June 16, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (6-7 p.m.)	volcanic emissions
June 14, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.096 ppm (4-5 a.m.)	volcanic emissions
June 14, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (1-2 a.m.)	volcanic emissions
June 10, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.096 ppm (9-10 p.m.)	volcanic emissions
June 9, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.234 ppm (8-9 a.m.)	volcanic emissions
June 9, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.279 ppm (5-6 a.m.)	volcanic emissions
June 8, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.266 ppm (1-2 a.m.)	volcanic emissions
June 7, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.135 ppm (9-10 a.m.)	volcanic emissions
June 7, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.181 ppm (11 p.m.-midnight)	volcanic emissions
June 6, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.186 ppm (9-10 a.m.)	volcanic emissions
June 5, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.337 ppm (8-9 a.m.)	volcanic emissions
June 4, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.102 ppm (3-4 a.m.)	volcanic emissions
June 3, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.304 ppm (8-9 p.m.)	volcanic emissions
June 2, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.129 ppm (7-8 p.m.)	volcanic emissions
June 1, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.129 ppm (1-2 a.m.)	volcanic emissions
May 30, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (10-11 a.m.)	volcanic emissions
May 28, 2017	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (7-8 a.m.)	volcanic emissions
May 28, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.169 ppm (8-9 a.m.)	volcanic emissions
May 28, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.108 ppm (6-7 a.m.)	volcanic emissions
May 27, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.276 ppm (7-8 a.m.)	volcanic emissions
May 26, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.152 ppm (3-4 a.m.)	volcanic emissions
May 25, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.134 ppm (8-9 a.m.)	volcanic emissions
May 25, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.103 ppm (4-5 a.m.)	volcanic emissions
May 24, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (midnight-1 a.m.)	volcanic emissions
May 23, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.091 ppm (11 p.m.-midnight)	volcanic emissions
May 22, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.113 ppm (7-8 a.m.)	volcanic emissions

May 22, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.186 ppm (7-8 a.m.)	volcanic emissions
May 21, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.135 ppm (7-8 a.m.)	volcanic emissions
May 20, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.108 ppm (4-5 a.m.)	volcanic emissions
May 19, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (7-8 a.m.)	volcanic emissions
May 18, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.093 ppm (2-3 a.m.)	volcanic emissions
May 17, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.142 ppm (9-10 a.m.)	volcanic emissions
May 16, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.096 ppm (10-11 a.m.)	volcanic emissions
May 16, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.156 ppm (3-4 a.m.)	volcanic emissions
May 15, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.120 ppm (5-6 p.m.)	volcanic emissions
May 15, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.132 ppm (9-10 a.m.)	volcanic emissions
May 14, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.174 ppm (9-10 a.m.)	volcanic emissions
May 14, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.240 ppm (7-8 p.m.)	volcanic emissions
May 13, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (8-9 a.m.)	volcanic emissions
May 13, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.138 ppm (5-6 p.m.)	volcanic emissions
May 12, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.191 ppm (8-9 a.m.)	volcanic emissions
May 12, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.146 ppm (8-9 p.m.)	volcanic emissions
May 10, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.080 ppm (8-9 a.m.)	volcanic emissions
May 9, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.203 ppm (2-3 a.m.)	volcanic emissions
May 9, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.169 ppm (6-7 a.m.)	volcanic emissions
May 8, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (midnight-1 a.m.)	volcanic emissions
May 7, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.117 ppm (8-9 a.m.)	volcanic emissions
May 7, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.095 ppm (5-6 a.m.)	volcanic emissions
May 6, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.135 ppm (1-2 a.m.)	volcanic emissions
May 5, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.340 ppm (8-9 a.m.)	volcanic emissions
May 4, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (6-7 a.m.)	volcanic emissions
May 4, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.109 ppm (midnight-1 a.m.)	volcanic emissions
May 3, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (8-9 a.m.)	volcanic emissions
May 3, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.105 ppm (11 p.m.-midnight)	volcanic emissions
May 2, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.260 ppm (midnight-1 a.m.)	volcanic emissions
May 1, 2017	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.304 ppm (1-2 p.m.)	volcanic emissions
May 1, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.160 ppm (11 a.m.-noon)	volcanic emissions
April 30, 2017	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.281 ppm (2-3 a.m.)	volcanic emissions
April 29, 2017	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.118 ppm (10-11 a.m.)	volcanic emissions
April 29, 2017	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.503 ppm (9-10 a.m.)	volcanic emissions
April 29, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.083 ppm (2-3 a.m.)	volcanic emissions
April 27, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.202 ppm (2-3 a.m.)	volcanic emissions

April 27, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.388 ppm (3-4 a.m.)	volcanic emissions
April 26, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.160 ppm (9-10 p.m.)	volcanic emissions
April 26, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.201 ppm (7-8 a.m.)	volcanic emissions
April 25, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.324 ppm (8-9 p.m.)	volcanic emissions
April 24, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.133 ppm (9-10 a.m.)	volcanic emissions
April 23, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.087 ppm (9-10 p.m.)	volcanic emissions
April 19, 2017	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.123 ppm (10-11 a.m.)	volcanic emissions
April 17, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.114 ppm (8-9 a.m.)	volcanic emissions
April 17, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.114 ppm (1-2 a.m.)	volcanic emissions
April 16, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.102 ppm (8-9 a.m.)	volcanic emissions
April 16, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.155 ppm (11 p.m.-midnight)	volcanic emissions
April 13, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.094 ppm (10-11 p.m.)	volcanic emissions
April 12, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.151 ppm (4-5 a.m.)	volcanic emissions
April 12, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.339 ppm (2-3 a.m.)	volcanic emissions
April 11, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.234 ppm (6-7 a.m.)	volcanic emissions
April 11, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.108 ppm (11 p.m.-midnight)	volcanic emissions
April 9, 2017	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.359 ppm (5-6 a.m.)	volcanic emissions
April 9, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.364 ppm (7-8 a.m.)	volcanic emissions
April 9, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.858 ppm (2-3 a.m.)	volcanic emissions
April 8, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.155 ppm (8-9 a.m.)	volcanic emissions
April 8, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.521 ppm (5-6 a.m.)	volcanic emissions
April 7, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.107 ppm (5-6 a.m.)	volcanic emissions
April 7, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.485 ppm (4-5 a.m.)	volcanic emissions
April 6, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (8-9 a.m.)	volcanic emissions
April 6, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.495 ppm (2-3 a.m.)	volcanic emissions
April 5, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.169 ppm (6-7 a.m.)	volcanic emissions
April 3, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.159 ppm (9-10 p.m.)	volcanic emissions
April 2, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.080 ppm (8-9 a.m.)	volcanic emissions
April 1, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.196 ppm (7-8 a.m.)	volcanic emissions
March 31, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.291 ppm (1-2 a.m.)	volcanic emissions
March 30, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.291 ppm (midnight-1 a.m.)	volcanic emissions
March 30, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.332 ppm (9-10 a.m.)	volcanic emissions
March 29, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.189 ppm (8-9 a.m.)	volcanic emissions
March 29, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.133 ppm (4-5 a.m.)	volcanic emissions
March 28, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.232 ppm (11 p.m.-midnight)	volcanic emissions
March 27, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.179 ppm (9-10 a.m.)	volcanic emissions

March 27, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.179 ppm (3-4 a.m.)	volcanic emissions
March 26, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.333 ppm (4-5 a.m.)	volcanic emissions
March 26, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.409 ppm (3-4 a.m.)	volcanic emissions
March 25, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (6-7 p.m.)	volcanic emissions
March 25, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.137 ppm (7-8 a.m.)	volcanic emissions
March 23, 2017	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.088 ppm (2-3 a.m.)	volcanic emissions
March 23, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.589 ppm (4-5 a.m.)	volcanic emissions
March 22, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.233 ppm (5-6 a.m.)	volcanic emissions
March 21, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.177 ppm (4-5 a.m.)	volcanic emissions
March 20, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.254 ppm (8-9 a.m.)	volcanic emissions
March 20, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.169 ppm (8-9 a.m.)	volcanic emissions
March 18, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.424 ppm (5-6 a.m.)	volcanic emissions
March 18, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.081 ppm (7-8 a.m.)	volcanic emissions
March 17, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (7-8 a.m.)	volcanic emissions
March 17, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.092 ppm (9-10 a.m.)	volcanic emissions
March 15, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.251 ppm (5-6 a.m.)	volcanic emissions
March 15, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (11 p.m.-midnight)	volcanic emissions
March 14, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.209 ppm (8-9 a.m.)	volcanic emissions
March 13, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.111 ppm (10-11 a.m.)	volcanic emissions
March 12, 2017	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.113 ppm (8-9 a.m.)	volcanic emissions
March 12, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.136 ppm (6-7 a.m.)	volcanic emissions
March 12, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.096 ppm (8-9 a.m.)	volcanic emissions
March 10, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (11 p.m.-midnight)	volcanic emissions
March 7, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.208 ppm (10-11 a.m.)	volcanic emissions
March 4, 2017	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.142 ppm (midnight-1 a.m.)	volcanic emissions
March 3, 2017	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.102 ppm (6-7 p.m.)	volcanic emissions
March 1, 2017	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.356 ppm (10-11 a.m.)	volcanic emissions
March 1, 2017	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.464 ppm (3-4 p.m.)	volcanic emissions
Feb. 28, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.480 ppm (6-7 a.m.)	volcanic emissions
Feb. 27, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.296 ppm (7-8 a.m.)	volcanic emissions
Feb. 26, 2017	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.138 ppm (9-10 a.m.)	volcanic emissions
Feb. 26, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.188 ppm (noon-1 a.m.)	volcanic emissions
Feb. 26, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.117 ppm (9-10 a.m.)	volcanic emissions
Feb. 25, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.188 ppm (11 a.m.-noon)	volcanic emissions
Feb. 25, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.096 ppm (midnight-1 a.m.)	volcanic emissions
Feb. 24, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.145 ppm (11 a.m.-noon)	volcanic emissions

Feb. 24, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.270 ppm (9-10 a.m.)	volcanic emissions
Feb. 23, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.111 ppm (2-3 a.m.)	volcanic emissions
Feb. 22, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.080 ppm (6-7 a.m.)	volcanic emissions
Feb. 21, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.498 ppm (10-11 a.m.)	volcanic emissions
Feb. 20, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.101 ppm (9-10 a.m.)	volcanic emissions
Feb. 19, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.126 ppm (8-9 a.m.)	volcanic emissions
Feb. 19, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.112 ppm (8-9 a.m.)	volcanic emissions
Feb. 18, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.546 ppm (5-6 a.m.)	volcanic emissions
Feb. 18, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.448 ppm (8-9 a.m.)	volcanic emissions
Feb. 17, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.143 ppm (midnight-1 a.m.)	volcanic emissions
Feb. 16, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.185 ppm (7-8 a.m.)	volcanic emissions
Feb. 16, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.144 ppm (2-3 a.m.)	volcanic emissions
Feb. 15, 2017	Ocean View, Hawaii	SO_2	1-hour avg. 3-hour avg.	0.075 ppm 0.5 ppm	0.739 ppm (6-7 a.m.) 0.6 ppm (6-9 a.m.)	volcanic emissions
Feb. 15, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.581 ppm (6-7 a.m.)	volcanic emissions
Feb. 14, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.136 ppm (3-4 p.m.)	volcanic emissions
Feb. 13, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.271 ppm (7-8 a.m.)	volcanic emissions
Feb. 12, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.198 ppm (10-11 p.m.)	volcanic emissions
Feb. 9, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.269 ppm (7-8 a.m.)	volcanic emissions
Feb. 7, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.105 ppm (midnight-1 a.m.)	volcanic emissions
Feb. 6, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.275 ppm (6-7 a.m.)	volcanic emissions
Feb. 5, 2017	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.435 ppm (3-4 a.m.)	volcanic emissions
Feb. 4, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (9-10 a.m.)	volcanic emissions
Feb. 4, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.152 ppm (9-10 a.m.)	volcanic emissions
Feb. 3, 2017	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.200 ppm (10-11 a.m.)	volcanic emissions
Feb. 2, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.185 ppm (7-8 a.m.)	volcanic emissions
Feb. 2, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.341 ppm (7-8 a.m.)	volcanic emissions
Feb. 1, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.088 ppm (7-8 a.m.)	volcanic emissions
Feb. 1, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.244 ppm (10-11 a.m.)	volcanic emissions
Jan. 31, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.120 ppm (2-3 p.m.)	volcanic emissions
Jan. 31, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.301 ppm (9-10 a.m.)	volcanic emissions
Jan. 30, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.391 ppm (7-8 p.m.)	volcanic emissions
Jan. 29, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.081 ppm (1-2 a.m.)	volcanic emissions
Jan. 29, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (11 a.m.-noon)	volcanic emissions
Jan. 28, 2017	Pahala, Hawaii	SO_2	1-hour avg. 3-hour avg.	0.075 ppm 0.5 ppm	0.717 ppm (4-5 a.m.) 0.6 ppm (3-6 a.m.)	volcanic emissions

Jan. 27, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.188 ppm (10-11 a.m.)	volcanic emissions
Jan. 27, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.397 ppm (9-10 a.m.)	volcanic emissions
Jan. 26, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.213 ppm (8-9 a.m.)	volcanic emissions
Jan. 26, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.282 ppm (7-8 a.m.)	volcanic emissions
Jan. 25, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.096 ppm (9-10 a.m.)	volcanic emissions
Jan. 22, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.157 ppm (5-6 p.m.)	volcanic emissions
Jan. 22, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.437 ppm (11 a.m.-noon)	volcanic emissions
Jan. 21, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.156 ppm (6-7 a.m.)	volcanic emissions
Jan. 21, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.214 ppm (2-3 a.m.)	volcanic emissions
Jan. 20, 2017	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.167 ppm (8-9 a.m.)	volcanic emissions
Jan. 20, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.586 ppm (9-10 a.m.)	volcanic emissions
Jan. 19, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.184 ppm (11 p.m.-midnight)	volcanic emissions
Jan. 18, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.827 ppm (8-9 a.m.)	volcanic emissions
Jan. 17, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.196 ppm (2-3 a.m.)	volcanic emissions
Jan. 16, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.187 ppm (7-8 a.m.)	volcanic emissions
Jan. 15, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.415 ppm (8-9 a.m.)	volcanic emissions
Jan. 14, 2017	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.130 ppm (7-8 a.m.)	volcanic emissions
Jan. 14, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.225 ppm (midnight-1 a.m.)	volcanic emissions
Jan. 14, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.629 ppm (1-2 a.m.)	volcanic emissions
Jan. 13, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.123 ppm (10-11 a.m.)	volcanic emissions
Jan. 13, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.295 ppm (1-2 a.m.)	volcanic emissions
Jan. 12, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.176 ppm (11 p.m.-midnight)	volcanic emissions
Jan. 11, 2017	Hilo, Hawaii	SO_2	1-hour avg. 3-hour avg.	0.075 ppm 0.5 ppm	0.667 ppm (3-4 a.m.) 0.6 ppm (3-6 a.m.)	volcanic emissions
Jan. 11, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.263 ppm (3-4 a.m.)	volcanic emissions
Jan. 10, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.093 ppm (7-8 a.m.)	volcanic emissions
Jan. 10, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.427 ppm (5-6 a.m.)	volcanic emissions
Jan. 9, 2017	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.456 ppm (4-5 a.m.)	volcanic emissions
Jan. 9, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.319 ppm (9-10 a.m.)	volcanic emissions
Jan. 8, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.394 ppm (3-4 a.m.)	volcanic emissions
Jan. 6, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.135 ppm (10-11 a.m.)	volcanic emissions
Jan. 5, 2017	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (7-8 a.m.)	volcanic emissions
Jan. 4, 2017	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.092 ppm (5-6 a.m.)	volcanic emissions
Jan. 4, 2017	Kona, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.146 ppm (5-6 a.m.)	volcanic emissions
Jan. 4, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.351 ppm (midnight-1 a.m.)	volcanic emissions
Jan. 4, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.298 ppm (midnight-1 a.m.)	volcanic emissions

Jan. 3, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.084 ppm (11 p.m.-midnight)	volcanic emissions
Jan. 3, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.330 ppm (11 p.m.-midnight)	volcanic emissions
Jan. 1, 2017	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.133 ppm (6-7 a.m.)	volcanic emissions
Jan. 1, 2017	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.115 ppm (7-8 a.m.)	volcanic emissions

ppm = unit of the standard is in parts per million
$\mu g/m^3$ = unit of the standard is in micrograms per cubic meter of air

List of Exceedances of the National Ambient Air Quality Standards

The Hawai'i State Department of Health is required to notify the public whenever the National Ambient Air Quality Standards (NAAQS) are exceeded. The list below shows the most recent exceedances due to an exceptional or natural event. For a listing of previous exceedances through 2017, please see the Department of Health, Clean Air Branch web page at http://health.hawaii.gov/cab/notification-of-exceedance-of-a-national-ambient-air-quality-standard/.

DATE	MONITORING STATION LOCATION & ISLAND	AIR POLLUTANT	STANDARD TYPE	STANDARD LIMIT	ACTUAL	CAUSE
Aug. 4, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.106 ppm (3-4 a.m.)	volcanic emissions
Aug. 1, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.355 ppm (7-8 a.m.)	volcanic emissions
Aug. 1, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.175 ppm (4-5 p.m.)	volcanic emissions
July 31, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.087 ppm (11 a.m.-noon)	volcanic emissions
July 31, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.086 ppm (9-10 a.m.)	volcanic emissions
July 30, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.086 ppm (9-10 a.m.)	volcanic emissions
July 30, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.406 ppm (7-8 a.m.)	volcanic emissions
July 29, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.250 ppm (5-6 a.m.)	volcanic emissions
July 29, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.132 ppm (9-10 a.m.)	volcanic emissions
July 28, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.084 ppm (11 a.m.-noon)	volcanic emissions
July 27, 2018	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.111 ppm (4-5 a.m.)	volcanic emissions
July 27, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.150 ppm (10-11 a.m.)	volcanic emissions
July 27, 2018	Pahala, Hawaii	SO_2	1-hour avg. 3-hour avg. 24-hour avg.	0.075 ppm 0.5 ppm 0.14 ppm	0.738 ppm (7-8 a.m.) 0.7 ppm (6-9 a.m.) 0.21 ppm	volcanic emissions
July 26, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.144 ppm (7-8 a.m.)	volcanic emissions
July 25, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (4-5 p.m.)	volcanic emissions
July 25, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.430 ppm (9-10 a.m.)	volcanic emissions
July 24, 2018	Ocean View, Hawaii	SO_2 $PM_{2.5}$	1-hour avg. 24-hour avg.	0.075 ppm 35 µg/m^3	0.093 ppm (9-10 a.m.) 37 µg/m^3	volcanic emissions
July 24, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.128 ppm (9-10 a.m.)	volcanic emissions
July 23, 2018	Kona, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.100 ppm (8-9 a.m.)	volcanic emissions
July 23, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (10-11 a.m.)	volcanic emissions
July 23, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.310 ppm (1-2 a.m.)	volcanic emissions
July 23, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.161 ppm (1-2 a.m.)	volcanic emissions
July 22, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.296 ppm (10-11 p.m.)	volcanic emissions
July 22, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.679 ppm (9-10 a.m.)	volcanic emissions

July 21, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.143 ppm (10-11 a.m.)	volcanic emissions
July 20, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.137 ppm (11 a.m.-noon)	volcanic emissions
July 19, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.100 ppm (8-9 a.m.)	volcanic emissions
July 19, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.309 ppm (8-9 a.m.)	volcanic emissions
July 18, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (2-3 p.m.)	volcanic emissions
July 18, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.093 ppm (9-10 p.m.)	volcanic emissions
July 17, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.227 ppm (5-6 p.m.)	volcanic emissions
July 17, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.109 ppm (7-8 p.m.)	volcanic emissions
July 16, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.086 ppm (9-10 a.m.)	volcanic emissions
July 15, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.145 ppm (11 a.m.-noon)	volcanic emissions
July 15, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.110 ppm (8-9 a.m.)	volcanic emissions
July 14, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.339 ppm (8-9 p.m.)	volcanic emissions
July 14, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.137 ppm (8-9 p.m.)	volcanic emissions
July 13, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.122 ppm (1-2 p.m.)	volcanic emissions
July 13, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.571 ppm (9-10 a.m.)	volcanic emissions
July 11, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.086 ppm (10-11 a.m.)	volcanic emissions
July 11, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.265 ppm (11 a.m.-noon)	volcanic emissions
July 10, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.105 ppm (7-8 a.m.)	volcanic emissions
July 9, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.097 ppm (8-9 p.m.)	volcanic emissions
July 9, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.080 ppm (11 p.m.-midnight)	volcanic emissions
July 8, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (4-5 p.m.)	volcanic emissions
July 8, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.095 ppm (11 a.m.-noon)	volcanic emissions
July 6, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.322 ppm (10-11 p.m.)	volcanic emissions
July 6, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.110 ppm (2-3 p.m.)	volcanic emissions
July 5, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.097 ppm (11 a.m.-noon)	volcanic emissions
July 5, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.274 ppm (3-4 p.m.)	volcanic emissions
July 2, 2018	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.169 ppm (7-8 a.m.)	volcanic emissions
July 2, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.139 ppm (1-2 p.m.)	volcanic emissions
July 2, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.188 ppm (11 a.m.-noon)	volcanic emissions
July 2, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.396 ppm (7-8 a.m.)	volcanic emissions
July 1, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.087 ppm (7-8 a.m.)	volcanic emissions
July 1, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.115 ppm (2-3 p.m.)	volcanic emissions
July 1, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.399 ppm (9-10 a.m.)	volcanic emissions
June 30, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.305 ppm (9-10 a.m.)	volcanic emissions
June 28, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.308 ppm (9-10 a.m.)	volcanic emissions
June 26, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.134 ppm (3-4 p.m.)	volcanic emissions

June 25, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.090 ppm (9-10 p.m.)	volcanic emissions
June 25, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.118 ppm (9-10 p.m.)	volcanic emissions
June 24, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.141 ppm (11 a.m.-noon)	volcanic emissions
June 24, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.470 ppm (9-10 a.m.)	volcanic emissions
June 22, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.387 ppm (4-5 a.m.)	volcanic emissions
June 22, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.538 ppm (9-10 a.m.)	volcanic emissions
June 21, 2018	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.232 ppm (4-5 a.m.)	volcanic emissions
June 21, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.407 ppm (6-7 a.m.)	volcanic emissions
June 21, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.283 ppm (5-6 a.m.)	volcanic emissions
June 20, 2018	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (7-8 a.m.)	volcanic emissions
June 20, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (8-9 a.m.)	volcanic emissions
June 20, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.136 ppm (8-9 a.m.)	volcanic emissions
June 19, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.176 ppm (4-5 p.m.)	volcanic emissions
June 19, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (11 a.m.-noon)	volcanic emissions
June 18, 2018	Kona, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.161 ppm (3-4 p.m.)	volcanic emissions
June 18, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.477 ppm (noon-1 p.m.)	volcanic emissions
June 18, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.126 ppm (9-10 a.m.)	volcanic emissions
June 17, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.121 ppm (11 a.m.-noon)	volcanic emissions
June 16, 2018	Kona, Hawaii	$PM_{2.5}$	24-hour avg.	35 µg/m^3	37 µg/m^3	volcanic emissions
June 16, 2018	Ocean View, Hawaii	SO_2 $PM_{2.5}$	1-hour avg. 24-hour avg.	0.075 ppm 35 µg/m^3	0.261 ppm (3-4 a.m.) 45 µg/m^3	volcanic emissions
June 16, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.253 ppm (6-7 a.m.)	volcanic emissions
June 15, 2018	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.112 ppm (4-5 a.m.)	volcanic emissions
June 15, 2018	Kona, Hawaii	$PM_{2.5}$	24-hour avg.	35 µg/m^3	36 µg/m^3	volcanic emissions
June 15, 2018	Ocean View, Hawaii	SO_2 $PM_{2.5}$	1-hour avg. 24-hour avg.	0.075 ppm 35 µg/m^3	0.887 ppm (5-6 a.m.) 43 µg/m^3	volcanic emissions
June 15, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (6-7 a.m.)	volcanic emissions
June 14, 2018	Ocean View, Hawaii	SO_2 $PM_{2.5}$	1-hour avg. 24-hour avg.	0.075 ppm 35 µg/m^3	0.309 ppm (8-9 a.m.) 41 µg/m^3	volcanic emissions
June 14, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.079 ppm (8-9 a.m.)	volcanic emissions
June 13, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.427 ppm (10-11 a.m.)	volcanic emissions
June 13, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.084 ppm (7-8 a.m.)	volcanic emissions
June 12, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.426 ppm (7-8 a.m.)	volcanic emissions
June 12, 2018	Pahala, Hawaii	SO_2	1-hour avg. 24-hour avg.	0.075 ppm 0.14 ppm	0.686 ppm (6-7 a.m.) 0.15 ppm	volcanic emissions
June 11, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.121 ppm (midnight-1 a.m.)	volcanic emissions

June 9, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.080 ppm (7-8 a.m.)	volcanic emissions
June 8, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.336 ppm (5-6 a.m.)	volcanic emissions
June 8, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.088 ppm (5-6 a.m.)	volcanic emissions
June 7, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.286 ppm (11 p.m.-midnight)	volcanic emissions
June 7, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.280 ppm (10-11 a.m.)	volcanic emissions
June 6, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.090 ppm (noon-1 p.m.)	volcanic emissions
June 4, 2018	Kona, Hawaii	$PM_{2.5}$	24-hour avg.	35 µg/m^3	49 µg/m^3	volcanic emissions
June 4, 2018	Ocean View, Hawaii	SO_2 $PM_{2.5}$	1-hour avg. 24-hour avg.	0.075 ppm 35 µg/m^3	0.126 ppm (5-6 p.m.) 56 µg/m^3	volcanic emissions
June 4, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.210 ppm (5-6 p.m.)	volcanic emissions
June 3, 2018	Kona, Hawaii	$PM_{2.5}$	24-hour avg.	35 µg/m^3	39 µg/m^3	volcanic emissions
June 3, 2018	Ocean View, Hawaii	SO_2 SO_2 $PM_{2.5}$	1-hour avg. 24-hour avg. 24-hour avg.	0.075 ppm 0.14 ppm 35 µg/m^3	0.472 ppm (7-8 a.m.) 0.17 ppm 42 µg/m^3	volcanic emissions
June 3, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.283 ppm (7-8 a.m.)	volcanic emissions
June 2, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.248 ppm (10-11 a.m.)	volcanic emissions
June 2, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.172 ppm (6-7 a.m.)	volcanic emissions
June 1, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.176 ppm (8-9 p.m.)	volcanic emissions
June 1, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.087 ppm (8-9 a.m.)	volcanic emissions
May 31, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (3-4 a.m.)	volcanic emissions
May 31, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (7-8 a.m.)	volcanic emissions
May 30, 2018	Kona, Hawaii	$PM_{2.5}$	24-hour avg.	35 µg/m^3	36 µg/m^3	volcanic emissions
May 30, 2018	Ocean View, Hawaii	SO_2 $PM_{2.5}$	1-hour avg. 24-hour avg.	0.075 ppm 35 µg/m^3	0.141 ppm (1-2 p.m.) 38 µg/m^3	volcanic emissions
May 29, 2018	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.290 ppm (5-6 a.m.)	volcanic emissions
May 29, 2018	Kona, Hawaii	SO_2 $PM_{2.5}$	1-hour avg. 24-hour avg.	0.075 ppm 35 µg/m^3	0.094 ppm (8-9 a.m.) 59 µg/m^3	volcanic emissions
May 29, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.344 ppm (2-3 a.m.)	volcanic emissions
May 29, 2018	Pahala, Hawaii	SO_2	1-hour avg. 3-hour avg. 24-hour avg.	0.075 ppm 0.5 ppm 0.14 ppm	0.659 ppm (1-2 a.m.) 0.6 ppm (midnight-3 a.m.) 0.17 ppm	volcanic emissions
May 28, 2018	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.343 ppm (8-9 a.m.)	volcanic emissions
May 28, 2018	Kona, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.120 ppm (7-8 a.m.)	volcanic emissions
May 28, 2018	Ocean View, Hawaii	SO_2 SO_2 SO_2 $PM_{2.5}$	1-hour avg. 3-hour avg. 24-hour avg. 24-hour avg.	0.075 ppm 0.5 ppm 0.14 ppm 35 µg/m^3	1.114 ppm (5-6 a.m.) 0.9 ppm (3-6 a.m.) 0.27 ppm 46 µg/m^3	volcanic emissions
May 28, 2018	Pahala, Hawaii	SO_2	1-hour avg. 24-hour avg.	0.075 ppm 0.14 ppm	0.634 ppm (5-6 a.m.) 0.16 ppm	volcanic emissions

May 27, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.204 ppm (6-7 a.m.)	volcanic emissions
May 27, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.090 ppm (11 p.m.-midnight)	volcanic emissions
May 26, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.425 ppm (10-11 a.m.)	volcanic emissions
May 26, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.186 ppm (2-3 a.m.)	volcanic emissions
May 25, 2018	Ocean View, Hawaii	SO_2	1-hour avg. 24-hour avg.	0.075 ppm 0.14 ppm	0.771 ppm (8-9 p.m.) 0.16 ppm	volcanic emissions
May 25, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.133 ppm (midnight-1 a.m.)	volcanic emissions
May 24, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.242 ppm (11 a.m.-noon)	volcanic emissions
May 24, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.214 ppm (9-10 a.m.)	volcanic emissions
May 23, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.181 ppm (7-8 a.m.)	volcanic emissions
May 23, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.322 ppm (2-3 a.m.)	volcanic emissions
May 22, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.149 ppm (11 p.m.-midnight)	volcanic emissions
May 21, 2018	Kona, Hawaii	$PM_{2.5}$	24-hour avg.	35 $\mu g/m^3$	37 $\mu g/m^3$	volcanic emissions
May 21, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.151 ppm (8-9 a.m.)	volcanic emissions
May 20, 2018	Kona, Hawaii	$PM_{2.5}$	24-hour avg.	35 $\mu g/m^3$	36 $\mu g/m^3$	volcanic emissions
May 20, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.437 ppm (midnight-1 a.m.)	volcanic emissions
May 20, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.514 ppm (7-8 p.m.)	volcanic emissions
May 19, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.941 ppm (4-5 a.m.)	volcanic emissions
May 19, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.463 ppm (6-7 a.m.)	volcanic emissions
May 18, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (midnight-1 a.m.)	volcanic emissions
May 17, 2018	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.191 ppm (3-4 p.m.)	volcanic emissions
May 17, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.325 ppm (11 a.m.-noon)	volcanic emissions
May 17, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.286 ppm (noon-1 p.m.)	volcanic emissions
May 16, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.106 ppm (9-10 a.m.)	volcanic emissions
May 16, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.187 ppm (10-11 a.m.)	volcanic emissions
May 15, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.273 ppm (11 a.m.-noon)	volcanic emissions
May 14, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.542 ppm (9-10 a.m.)	volcanic emissions
May 13, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.185 ppm (9-10 a.m.)	volcanic emissions
May 13, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.294 ppm (6-7 a.m.)	volcanic emissions
May 12, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.141 ppm (10-11 a.m.)	volcanic emissions
May 12, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.345 ppm (6-7 a.m.)	volcanic emissions
May 10, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.322 ppm (1-2 a.m.)	volcanic emissions
May 10, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.400 ppm (1-2 a.m.)	volcanic emissions
May 9, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.204 ppm (11 p.m.-midnight)	volcanic emissions
May 8, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (6-7 p.m.)	volcanic emissions
Apr. 27, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.087 ppm (11 p.m.-midnight)	volcanic emissions

Apr. 25, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.157 ppm (1-2 a.m.)	volcanic emissions
Apr. 22, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.084 ppm (8-9 p.m.)	volcanic emissions
Apr. 18, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.382 ppm (8-9 a.m.)	volcanic emissions
Apr. 17, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (10-11 p.m.)	volcanic emissions
Apr. 15, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.158 ppm (2-3 a.m.)	volcanic emissions
Apr. 14, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.161 ppm (2-3 a.m.)	volcanic emissions
Apr. 14, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.237 ppm (4-5 a.m.)	volcanic emissions
Apr. 10, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (7-8 p.m.)	volcanic emissions
Apr. 8, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.082 ppm (8-9 a.m.)	volcanic emissions
Apr. 6, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.089 ppm (9-10 a.m.)	volcanic emissions
Apr. 5, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.161 ppm (midnight-1 a.m.)	volcanic emissions
Apr. 4, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.127 ppm (3-4 a.m.)	volcanic emissions
Apr. 3, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.096 ppm (midnight-1 a.m.)	volcanic emissions
Apr. 3, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.184 ppm (6-7 p.m.)	volcanic emissions
Apr. 2, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.081 ppm (11 p.m.-midnight)	volcanic emissions
Apr. 1, 2018	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.095 ppm (2-3 a.m.)	volcanic emissions
Apr. 1, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.141 ppm (midnight-1 a.m.)	volcanic emissions
Mar. 31, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.404 ppm (10-11 p.m.)	volcanic emissions
Mar. 31, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.105 ppm (4-5 a.m.)	volcanic emissions
Mar. 30, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.717 ppm (5-6 a.m.)	volcanic emissions
Mar. 27, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.138 ppm (midnight-1 a.m.)	volcanic emissions
Mar. 27, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.759 ppm (4-5 p.m.)	volcanic emissions
Mar. 26, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.432 ppm (3-4 p.m.)	volcanic emissions
Mar. 23, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.187 ppm (5-6 a.m.)	volcanic emissions
Mar. 17, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.223 ppm (2-3 a.m.)	volcanic emissions
Mar. 14, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.202 ppm (midnight-1 a.m.)	volcanic emissions
Mar. 12, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.298 ppm (1-2 a.m.)	volcanic emissions
Mar. 11, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.099 ppm (8-9 p.m.)	volcanic emissions
Mar. 11, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.103 ppm (10-11 a.m.)	volcanic emissions
Mar. 10, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (10-11 a.m.)	volcanic emissions
Mar. 8, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.182 ppm (9-10 a.m.)	volcanic emissions
Mar. 7, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (2-3 a.m.)	volcanic emissions
Mar. 6, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.111 ppm (4-5 a.m.)	volcanic emissions
Mar. 3, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.161 ppm (4-5 a.m.)	volcanic emissions
Mar. 2, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.127 ppm (8-9 a.m.)	volcanic emissions
Mar. 1, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.174 ppm (7-8 a.m.)	volcanic emissions

Mar. 1, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.288 ppm (6-7 a.m.)	volcanic emissions
Feb. 28, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.137 ppm (10-11 a.m.)	volcanic emissions
Feb. 28, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.124 ppm (8-9 a.m.)	volcanic emissions
Feb. 27, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.115 ppm (3-4 a.m.)	volcanic emissions
Feb. 27, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (10-11 p.m.)	volcanic emissions
Feb. 26, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.091 ppm (8-9 a.m.)	volcanic emissions
Feb. 25, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.117 ppm (1-2 a.m.)	volcanic emissions
Feb. 25, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.218 ppm (6-7 a.m.)	volcanic emissions
Feb. 24, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.164 ppm (9-10 p.m.)	volcanic emissions
Feb. 24, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.281 ppm (3-4 a.m.)	volcanic emissions
Feb. 23, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.219 ppm (9-10 p.m.)	volcanic emissions
Feb. 23, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.152 ppm (2-3 a.m.)	volcanic emissions
Feb. 21, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.123 ppm (11 a.m.-noon)	volcanic emissions
Feb. 20, 2018	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.105 ppm (8-9 a.m.)	volcanic emissions
Feb. 20, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.093 ppm (6-7 a.m.)	volcanic emissions
Feb. 20, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.098 ppm (7-8 a.m.)	volcanic emissions
Feb. 20, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.117 ppm (8-9 a.m.)	volcanic emissions
Feb. 19, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.111 ppm (5-6 a.m.)	volcanic emissions
Feb. 18, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.542 ppm (2-3 a.m.)	volcanic emissions
Feb. 18, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (2-3 a.m.)	volcanic emissions
Feb. 17, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.224 ppm (2-3 p.m.)	volcanic emissions
Feb. 15, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.098 ppm (7-8 a.m.)	volcanic emissions
Feb. 14, 2018	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.110 ppm (9-10 a.m.)	volcanic emissions
Feb. 14, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.268 ppm (6-7 a.m.)	volcanic emissions
Feb. 8, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.253 ppm (5-6 a.m.)	volcanic emissions
Feb. 5, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.283 ppm (1-2 p.m.)	volcanic emissions
Feb. 5, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (9-10 a.m.)	volcanic emissions
Feb. 4, 2018	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.159 ppm (6-7 a.m.)	volcanic emissions
Feb. 4, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.392 ppm (4-5 a.m.)	volcanic emissions
Feb. 4, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.168 ppm (9-10 a.m.)	volcanic emissions
Feb. 3, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.772 ppm (3-4 a.m.)	volcanic emissions
Feb. 1, 2018	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.084 ppm (5-6 a.m.)	volcanic emissions
Jan. 31, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.139 ppm (8-9 a.m.)	volcanic emissions
Jan. 30, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.619 ppm (11 a.m.-noon)	volcanic emissions
Jan. 28, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.102 ppm (9-10 a.m.)	volcanic emissions
Jan. 27, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.087 ppm (3-4 a.m.)	volcanic emissions

Jan. 27, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.165 ppm (10-11 p.m.)	volcanic emissions
Jan. 26, 2018	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (4-5 a.m.)	volcanic emissions
Jan. 26, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.077 ppm (5-6 a.m.)	volcanic emissions
Jan. 25, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.140 ppm (6-7 a.m.)	volcanic emissions
Jan. 24, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.116 ppm (1-2 a.m.)	volcanic emissions
Jan. 23, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.104 ppm (6-7 a.m.)	volcanic emissions
Jan. 22, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.108 ppm (2-3 a.m.)	volcanic emissions
Jan. 22, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.098 ppm (10-11 p.m.)	volcanic emissions
Jan. 21, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (8-9 a.m.)	volcanic emissions
Jan. 20, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.171 ppm (3-4 a.m.)	volcanic emissions
Jan. 19, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.327 ppm (4-5 a.m.)	volcanic emissions
Jan. 18, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (9-10 a.m.)	volcanic emissions
Jan. 18, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.329 ppm (8-9 a.m.)	volcanic emissions
Jan. 17, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.224 ppm (5-6 a.m.)	volcanic emissions
Jan. 17, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.499 ppm (4-5 a.m.)	volcanic emissions
Jan. 16, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.095 ppm (7-8 a.m.)	volcanic emissions
Jan. 16, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.220 ppm (7-8 a.m.)	volcanic emissions
Jan. 15, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.096 ppm (9-10 a.m.)	volcanic emissions
Jan. 14, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.125 ppm (9-10 a.m.)	volcanic emissions
Jan. 12, 2018	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.172 ppm (8-9 a.m.)	volcanic emissions
Jan. 12, 2018	Mountain View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.194 ppm (8-9 a.m.)	volcanic emissions
Jan. 11, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.078 ppm (midnight-1 a.m.)	volcanic emissions
Jan. 10, 2018	Hilo, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.191 ppm (2-3 a.m.)	volcanic emissions
Jan. 10, 2018	Ocean View, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.076 ppm (3-4 a.m.)	volcanic emissions
Jan. 10, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.085 ppm (11 p.m.-midnight)	volcanic emissions
Jan. 9, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.276 ppm (7-8 a.m.)	volcanic emissions
Jan. 8, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.182 ppm (4-5 a.m.)	volcanic emissions
Jan. 6, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.134 ppm (6-7 p.m.)	volcanic emissions
Jan. 5, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.554 ppm (midnight-1 a.m.)	volcanic emissions
Jan. 4, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.624 ppm (11 p.m.-midnight)	volcanic emissions
Jan. 3, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.278 ppm (5-6 a.m.)	volcanic emissions
Jan. 2, 2018	Pahala, Hawaii	SO_2	1-hour avg.	0.075 ppm	0.240 ppm (11 p.m.-midnight)	volcanic emissions

ppm = unit of the standard is in parts per million
$\mu g/m^3$ = unit of the standard is in micrograms per cubic meter of air

List of Exceedances of the National Ambient Air Quality Standards

The Hawai'i State Department of Health is required to notify the public whenever the National Ambient Air Quality Standards (NAAQS) are exceeded. The list below shows the most recent exceedances due to an exceptional or natural event. For a listing of previous exceedances through 2018, please see the Department of Health, Clean Air Branch web page at http://health.hawaii.gov/cab/notification-of-exceedance-of-a-national-ambient-air-quality-standard/.

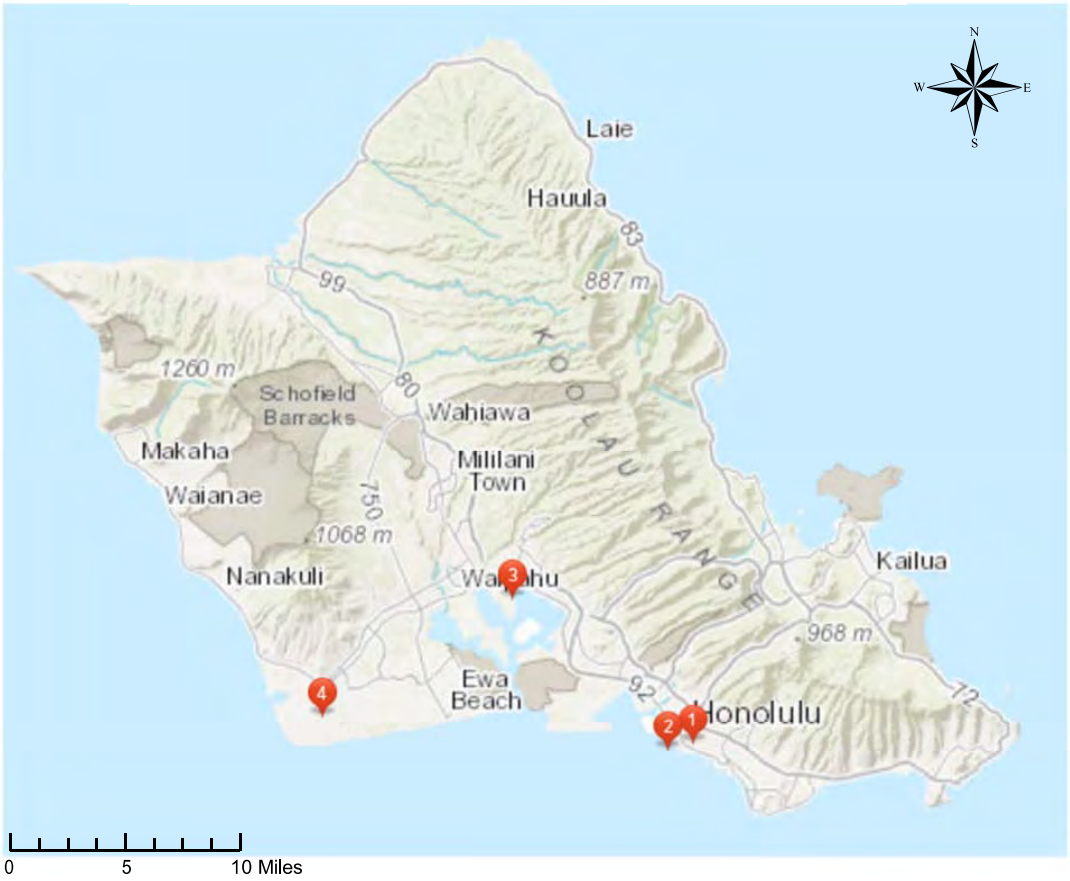
DATE	MONITORING STATION LOCATION & ISLAND	AIR POLLUTANT	STANDARD TYPE	STANDARD LIMIT	ACTUAL	CAUSE
Aug. 1, 2019	Kihei, Hawaii	$PM_{2.5}$	24-hour avg.	35 $\mu g/m^3$	40.5 $\mu g/m^3$	Wild fire

ppm = unit of the standard is in parts per million

$\mu g/m^3$ = unit of the standard is in micrograms per cubic meter of air

Section 3
SITE LOCATIONS AND DESCRIPTIONS

Figure 3-1: Island of Oahu – Air Monitoring Stations



Station	Name	Location	Pollutants/Parameters Monitored
1	Honolulu	1250 Punchbowl St.	CO, SO_2, $PM_{2.5}$, PM_{10}
2	Sand Island	1039 Sand Island Pkwy.	O_3, $PM_{2.5}$
3	Pearl City	860 4th St.	$PM_{2.5}$, PM_{10}
4	Kapolei	2052 Lauwiliwili St.	CO, SO_2, NO_2
	Kapolei NCore	2052 Lauwiliwili St.	CO $_{trace}$, $SO_{2\ trace}$, NO/NO_y , Pb, O_3, $PM_{2.5}$, $PM_{2.5}$ speciation, PM_{10}, $PM_{10-2.5}$, WS/WD

The following station descriptions include latitude and longitude in decimal degrees and altitude in meters above mean sea level.

Section 4
2016 AIR QUALITY DATA

To protect the state's air quality from degradation, the Department of Health's Clean Air Branch is responsible for regulating and monitoring pollution sources to ensure that the levels of criteria pollutants remain well below the state and federal ambient air quality standards. Data collected from the ambient air network is validated by the Air Surveillance and Analysis Section to ensure that the reported data is of good quality and meets all quality control and assurance requirements.

The monitoring stations in communities near the volcano record higher levels of SO_2 and $PM_{2.5}$, with regular exceedances of the NAAQS for SO_2 and occasional exceedances of the NAAQS for $PM_{2.5}$. The EPA considers the volcano a natural, uncontrollable event and therefore the state is requesting exclusion of these NAAQS exceedances from attainment/non-attainment determination.

Excluding the exceedances due to the volcano, in 2016 the State of Hawaii was in attainment of all NAAQS.

Explanation of Summary Tables 4-1 through 4-18:

- Summaries are by pollutant and averaging period, with the number of occurrences exceeding the NAAQS or, in Table 4-17, the number of exceedances of the state H_2S standard (there is no federal H_2S standard);
- The "Maximum" is the highest and second highest valid values recorded in the year for the averaging period. For $PM_{2.5}$, the maximum and 98^{th} percentile concentrations are provided and for O_3, the 4^{th} highest daily maximum value is also displayed;
- The "Annual Mean" is the arithmetic mean of all valid values recorded in the year;
- "Possible Periods" is the total number of possible sampling periods in the year for the averaging period;
- "Valid Periods" is the total number of acceptable sampling periods after data validation;
- "Percent Recovery" represents the amount of quality data reported;
- Attainment with the NAAQS is determined according to 40 CFR 50.

Explanation of Tables 4-19 through 4-29:

- For each pollutant and averaging period, the highest concentration for each month is presented;
- The month with the highest value recorded in the year for each site is highlighted.

Table 4-1. 2016 Summary of the 24-Hour PM_{10} Averages

	Maximum		Annual Mean	No. of 24-hour Averages Greater than 150 µg/m^3													
	1st High	2nd High	All Hours	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Possible Periods	Valid Periods	Percent Recovery
OAHU																		
Honolulu	33	29	13.8	0	0	0	0	0	0	0	0	0	0	0	0	366	335	91.5
Kapolei	35	32	14.0	0	0	0	0	0	0	0	0	0	0	0	0	366	331	95.3
Pearl City	41	39	19.9	0	0	0	0	0	0	0	0	0	0	0	0	366	361	98.6

Table 4-2. Attainment Determination of the 24-Hour PM_{10} NAAQS

Station	Exceedances in 2014	Exceedances in 2015	Exceedances in 2016	Sites in violation of the NAAQS
Honolulu	0	0	0	0
Kapolei	0	0	0	0
Pearl City	0	0	0	0
Attainment: The standard not to be exceeded more than once per year on average over 3 years. **In 2016, Hawaii was in attainment with the 24-hour PM_{10} NAAQS.**				

Table 4-3. 2016 Summary of the 24-Hour $PM_{2.5}$ Averages: SLAMS Stations

	Maximum		Annual Mean	No. of 24-hour Averages Greater than 35 µg/m³														
	1st High	98th %	All Hours	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Possible Periods	Valid Periods	Percent Recovery
OAHU																		
Honolulu	16.2	10.5	2.1	0	0	0	0	0	0	0	0	0	0	0	0	366	335	91.5
Kapolei[1]	15.6	11.0	4.0	0	0	0	0	0	0	0	0	0	0	0	0	366	287	78.4
Pearl City	15.1	11.7	2.6	0	0	0	0	0	0	0	0	0	0	0	0	366	365	99.7
Sand Island	14.7	12.7	4.0	0	0	0	0	0	0	0	0	0	0	0	0	366	358	97.8
MAUI																		
Kihei	47.2	12.1	3.7	0	0	1	0	0	0	0	0	0	0	0	0	366	356	97.3

[1] Does not meet summary criteria, <75% data recovery in one or more quarters

Table 4-4. Attainment Determination of the 24-Hour $PM_{2.5}$ NAAQS: SLAMS Stations

Station	2014 98th value	2015 98th value	2016 98th value	3-Year Average	Sites in violation of the NAAQS
Honolulu	10	10	11	10	0
Kapolei	11	14	11[1]	12	0
Pearl City	10	11	12	11	0
Sand Island	10	12	13	12	0
Kihei	10	13	12	12	0

Attainment: The 3-year average of the 98th percentile values must be less than or equal to 35 µg/m³.
In 2016, Hawaii was in attainment with the 24-hour $PM_{2.5}$ NAAQS.

[1] Does not meet summary criteria, <75% data recovery in one or more quarters.

Table 4-5. Attainment Determination of the Annual $PM_{2.5}$ NAAQS: SLAMS Stations

Station	2014 Ann. Avg.	2015 Ann. Avg.	2016 Ann. Avg.	3-Year Average	Sites in violation of the NAAQS
Honolulu	4.4	3.7	2.1	3.4	0
Kapolei	3.9	4.1	4.0[1]	4.0	0
Pearl City	3.9	5.2	2.6	3.9	0
Sand Island	4.5	5.4	4.0	4.7	0
Kihei	3.9	4.7	3.7	4.1	0

Attainment: The 3-year average of annual mean values must be less than 15 µg/m³.
In 2016, Hawaii was in attainment with the annual $PM_{2.5}$ NAAQS.

[1] Does not meet summary criteria, <75% data recovery in one or more quarters.

Section 6
AMBIENT AIR QUALITY TRENDS

The following graphs illustrate 5-year trends for PM_{10}, $PM_{2.5}$, SO_2, NO_2, O_3, and CO from 2012 to 2016 at all SLAMS stations monitoring for those pollutants.

Figures 6-1 and 6-2 are graphs of the PM_{10} annual and maximum 24-hour averages.

Figure 6-3 is the graph of the $PM_{2.5}$ annual averages. Attainment of the $PM_{2.5}$ 24-hour standard is based on the 98^{th} percentile value at each station, which is depicted in Figure 6-4.

Figures 6-5 and 6-6 are graphs of the SO_2 annual and maximum 24-hour averages.

Figure 6-7 and 6-8 shows the annual and maximum 1-hour averages of NO_2 compared to the federal NAAQS.

Attainment of the 8-hour ozone standard is achieved by averaging 3 years of the fourth highest daily maximum 8-hour average concentrations, which must not exceed 0.070 ppm (standard effective October 1, 2016). Figure 6-9 is a graph of the fourth highest daily maximum values recorded at the Sand Island and Kapolei (since 2011) ozone monitoring stations in the past five years.

The graphs for 1-hour and 8-hour carbon monoxide (figures 6-10 and 6-11, respectively) represent the maximum 1-hour or 8-hour values recorded in the year.

Criteria pollutant levels remain below state and federal ambient air quality standards at all SLAMS stations in the state.

Figure 6-1. PM_{10} Annual Average: 2012-2016

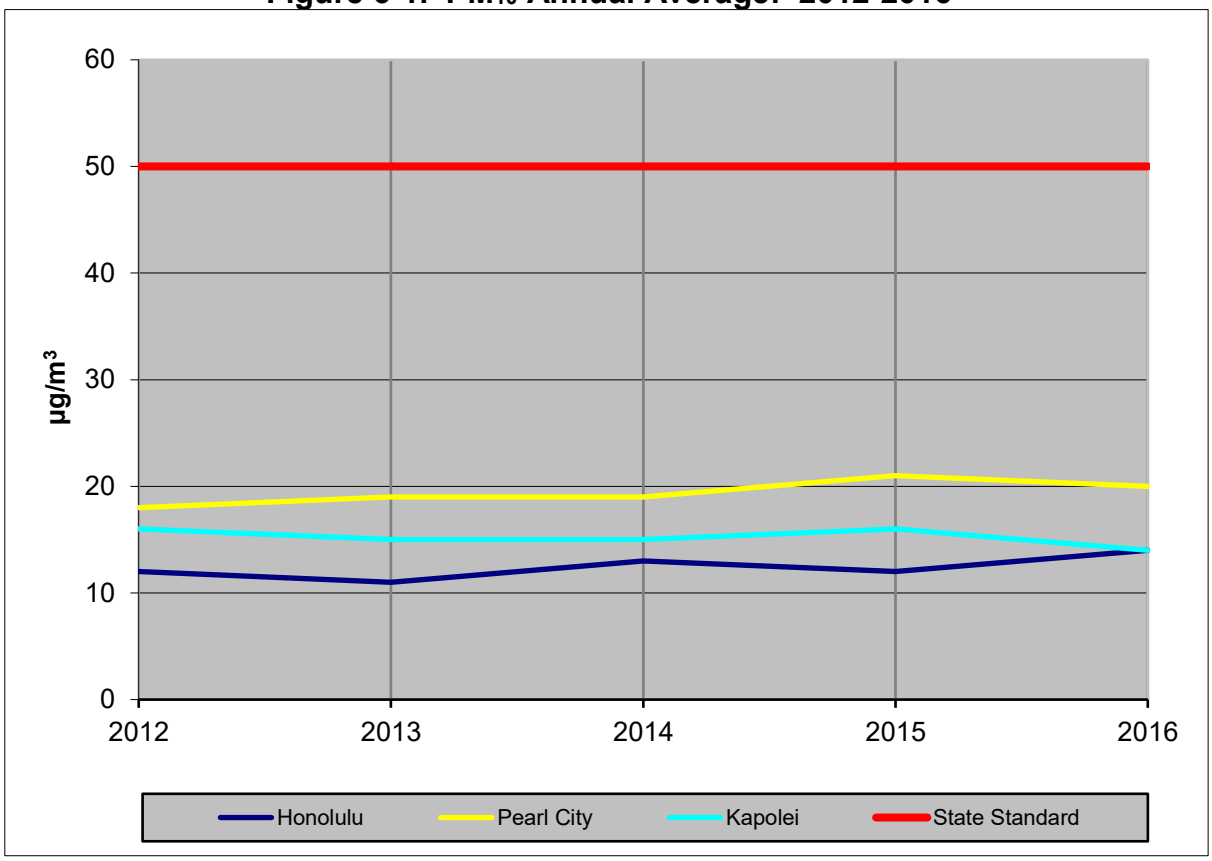


Figure 6-2. PM_{10} Maximum 24-Hour Average: 2012-2016

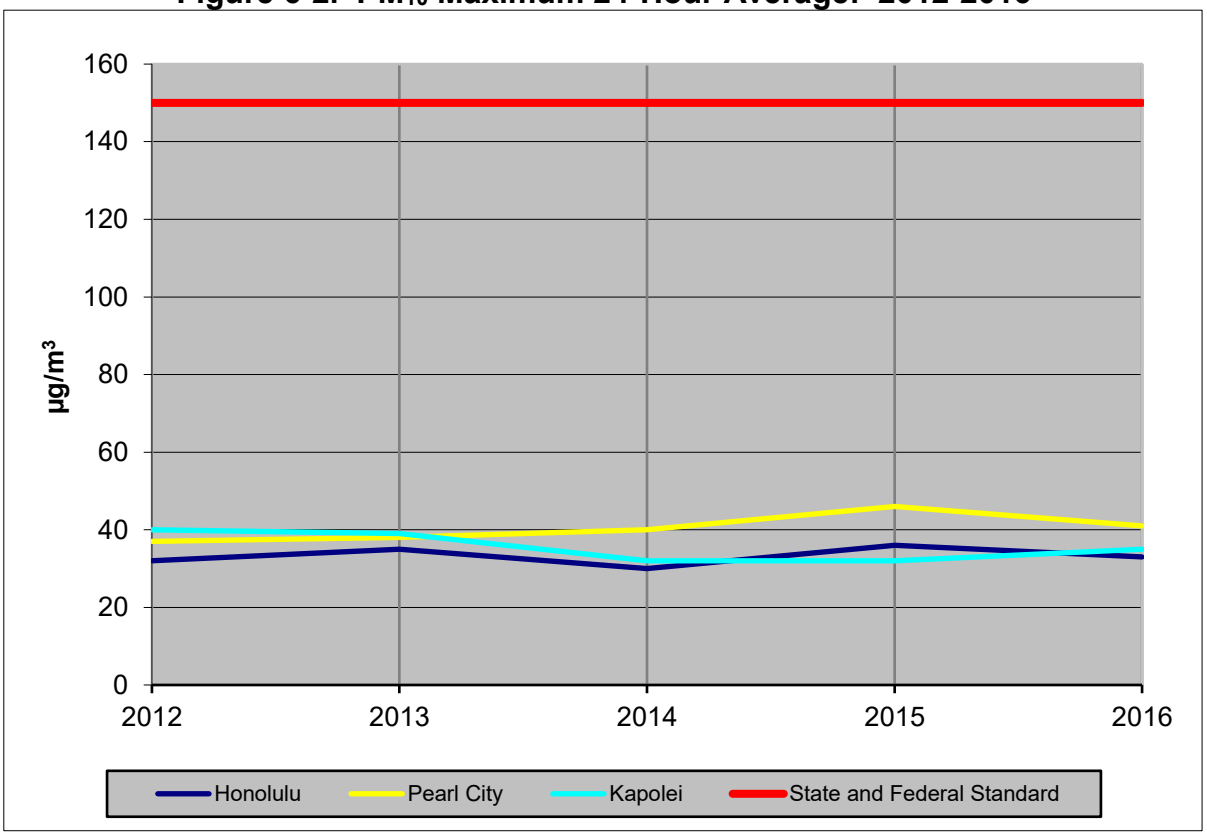


Figure 6-3. $PM_{2.5}$ Annual Average: 2012-2016

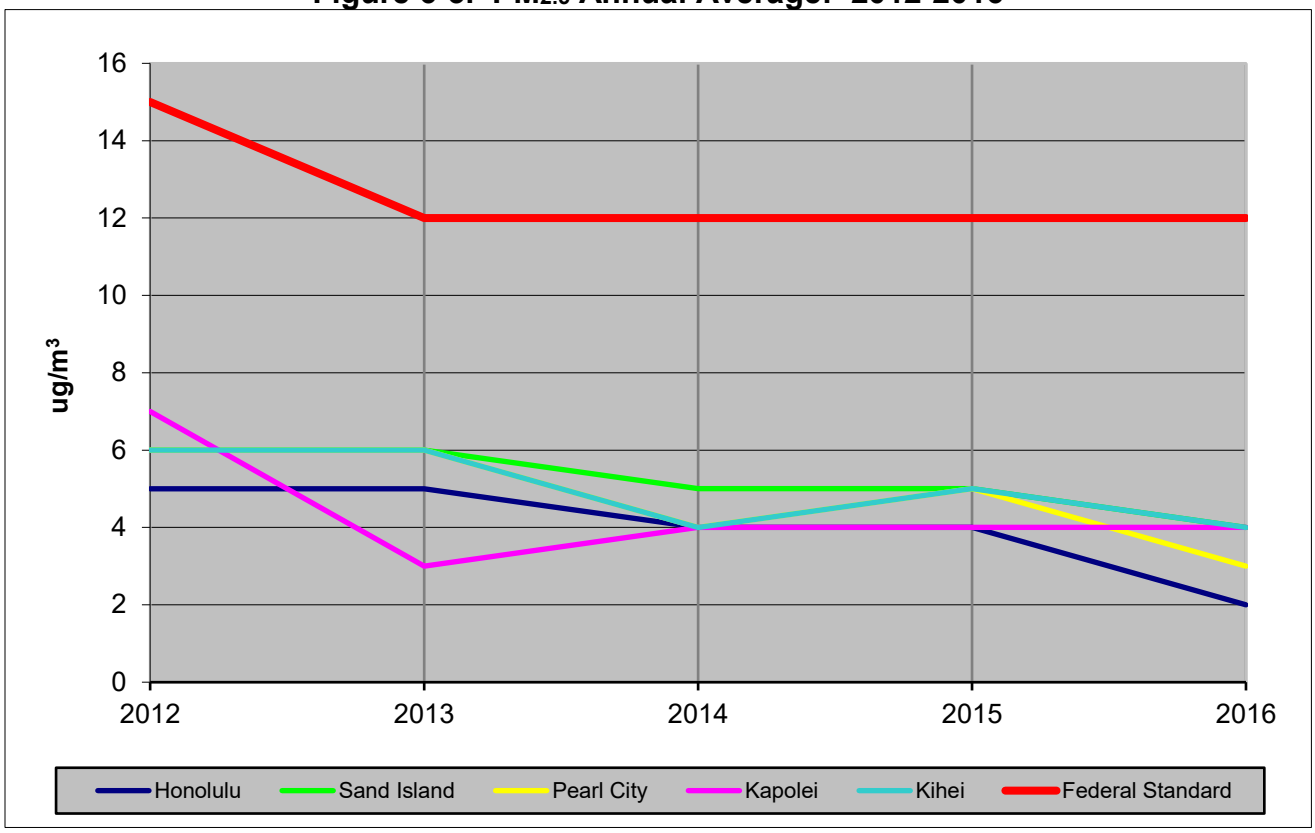


Figure 6-4. $PM_{2.5}$ 98th Percentile 24-Hour Average: 2012-2016

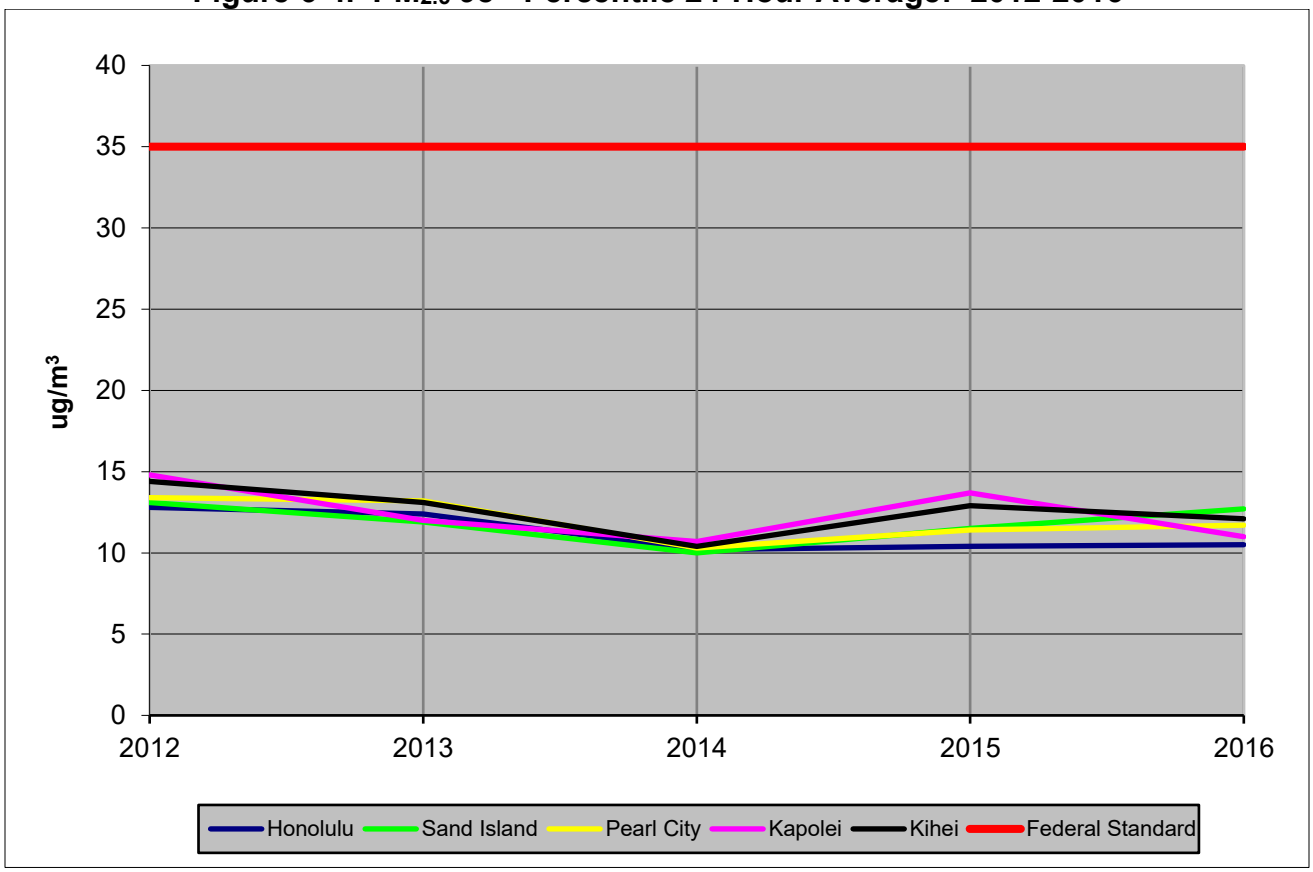


Figure 6-5. SO_2 Annual Average: 2012-2016

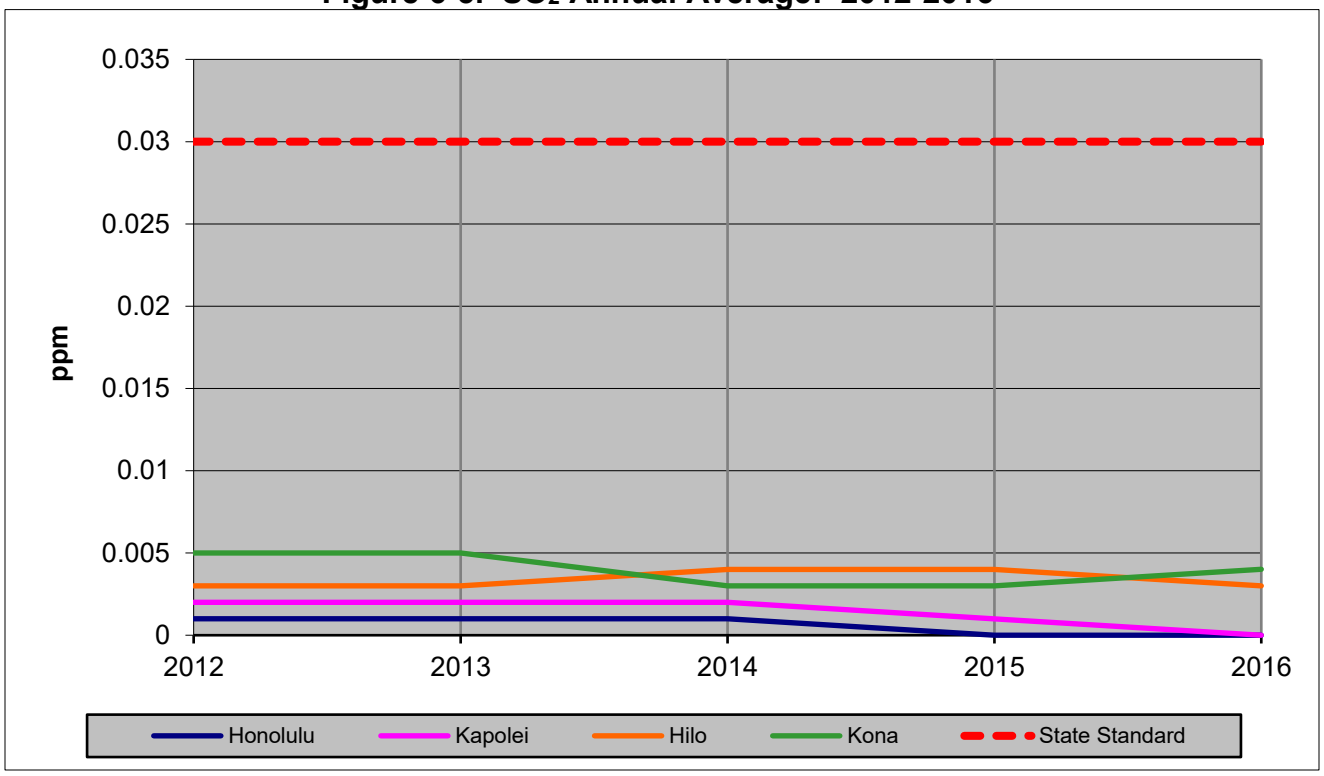


Figure 6-6. SO_2 Maximum 24-Hour Average: 2012-2016

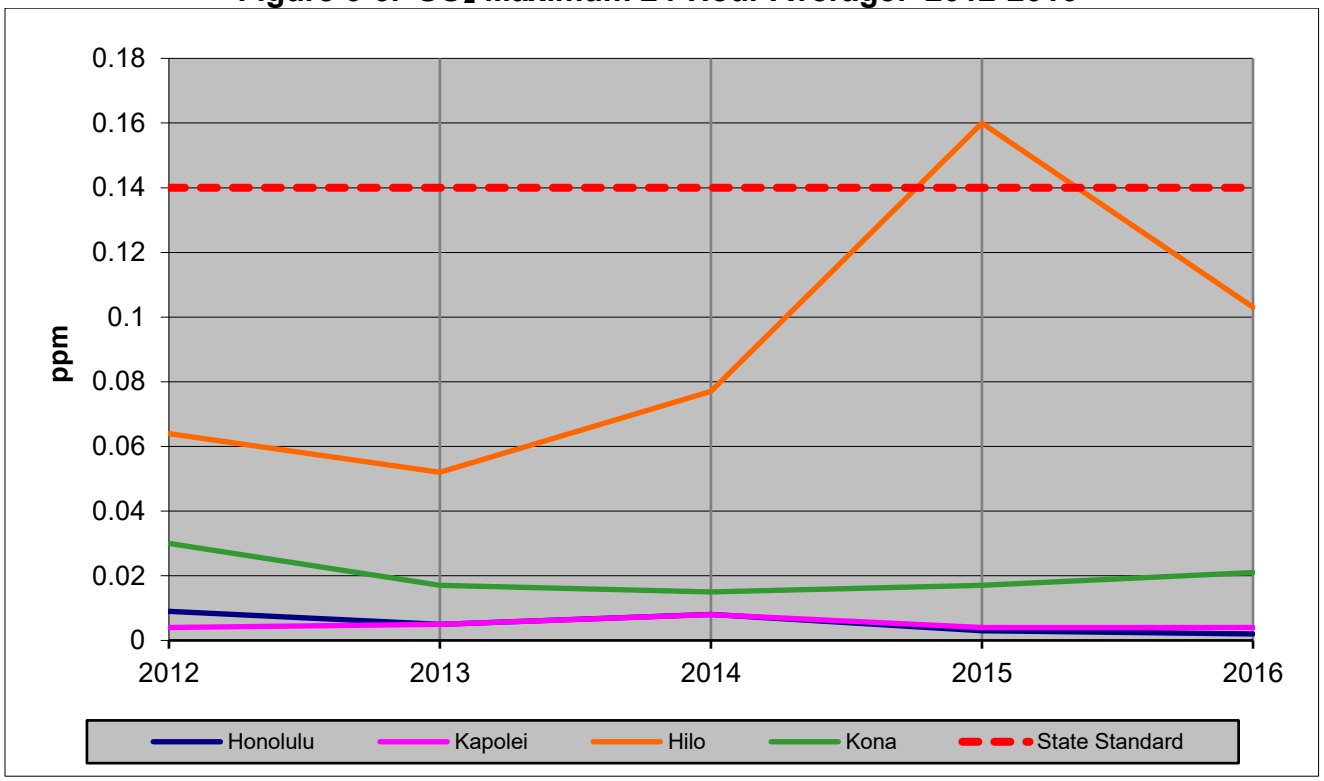


Figure 6-7. NO_2 Annual Average: 2012-2016

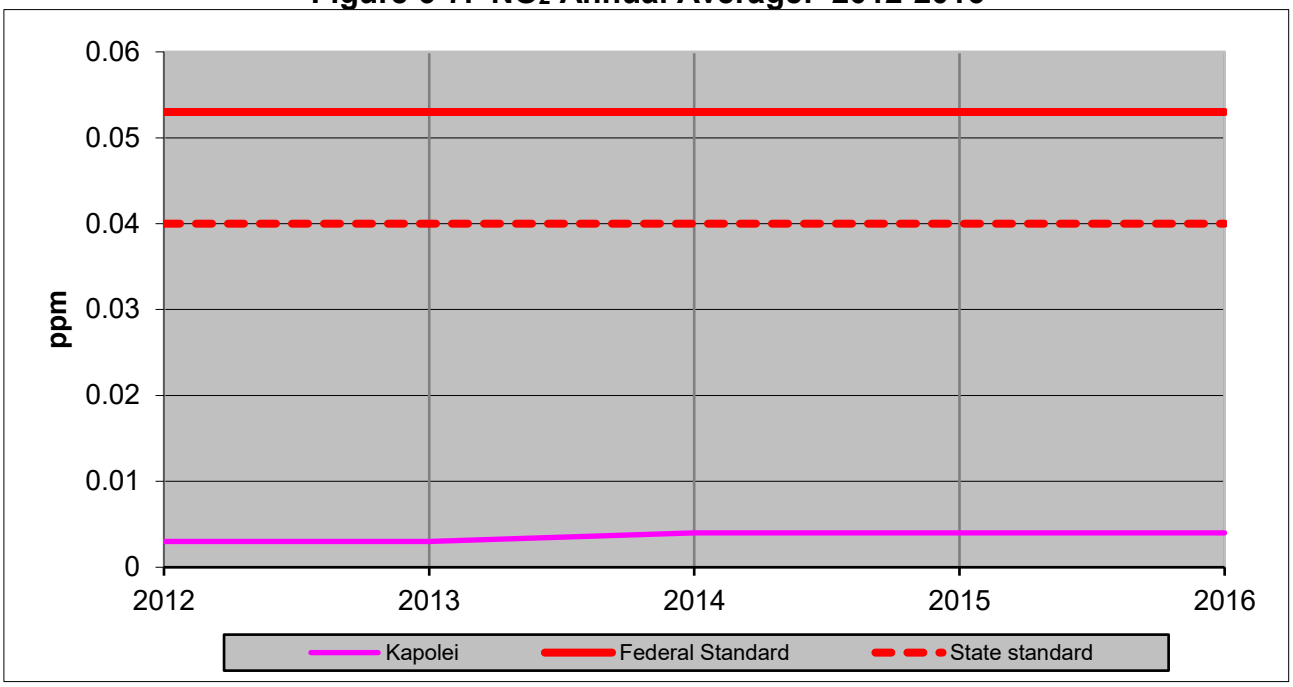


Figure 6-8. NO_2 Maximum 1-Hour Average: 2012-2016

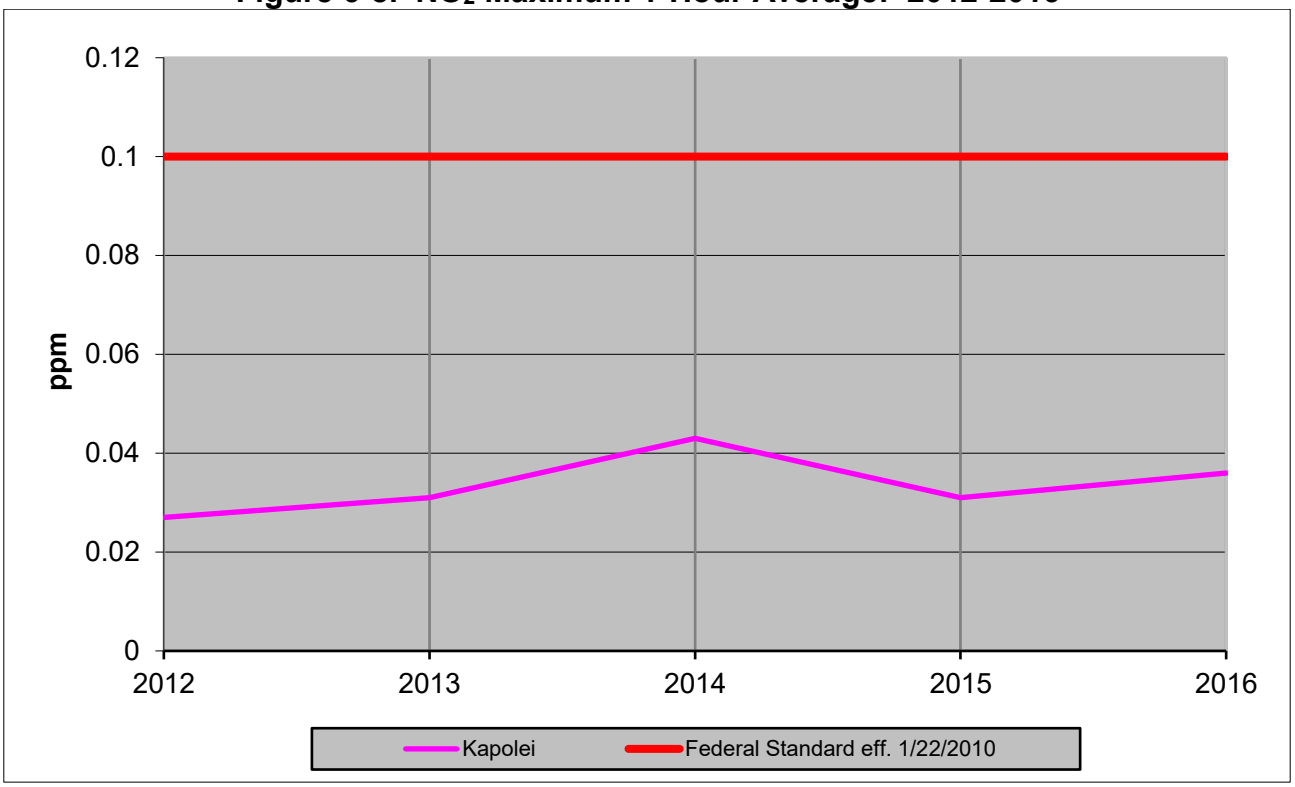


Figure 6-9. O_3 Fourth Highest Daily Maximum 8-Hour Average: 2012-2016

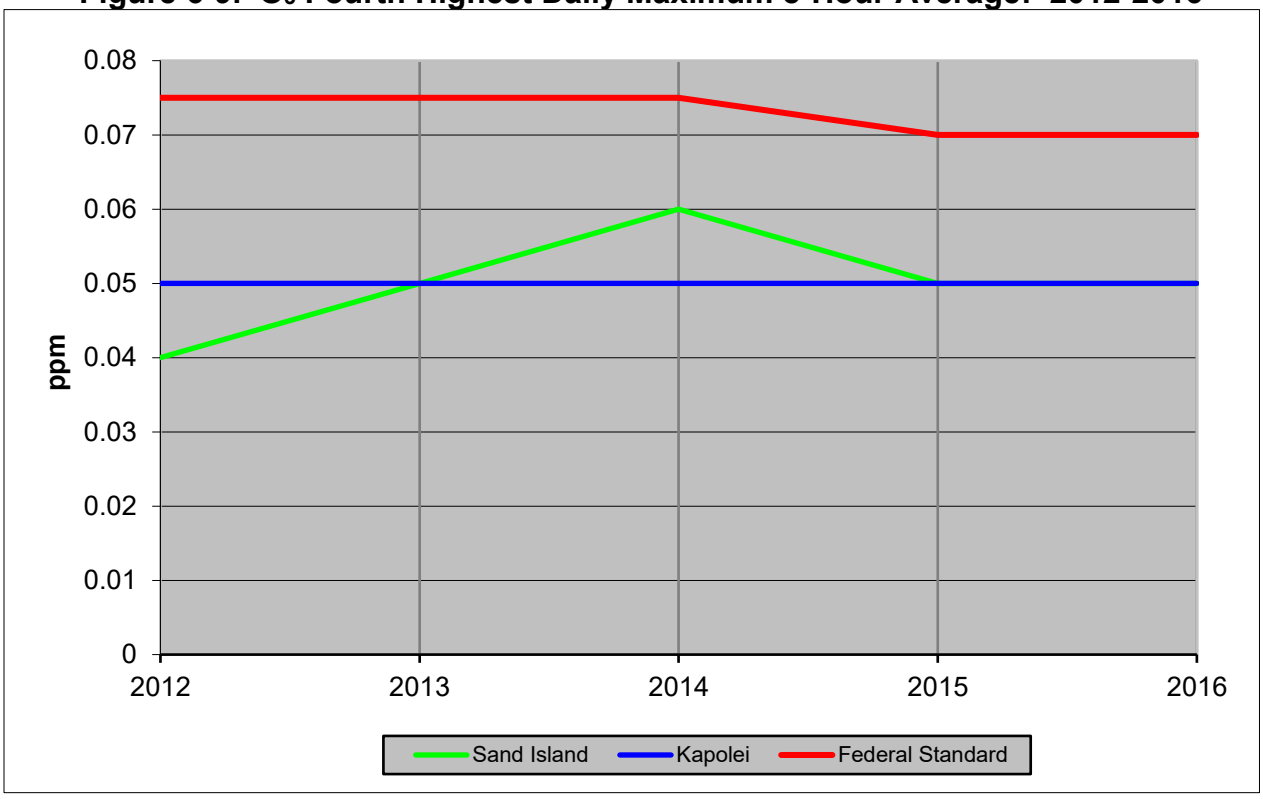


Figure 6-10. CO Maximum 1-Hour Average: 2012-2016

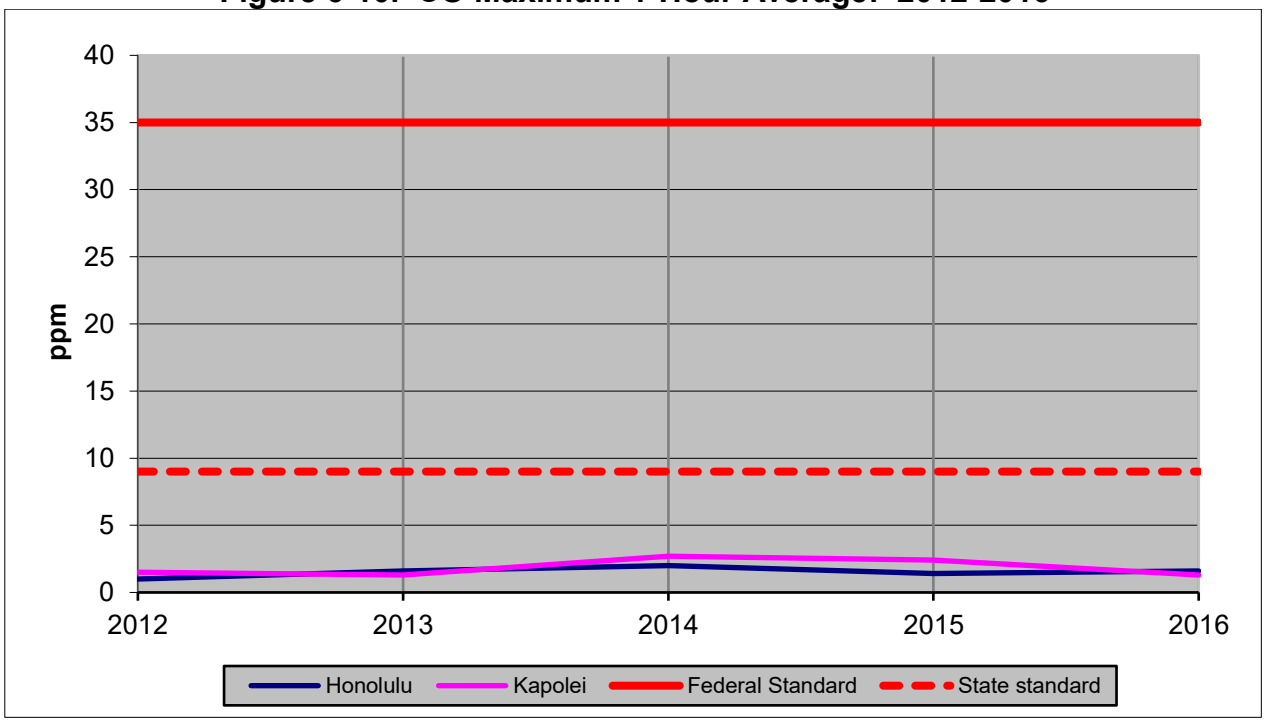
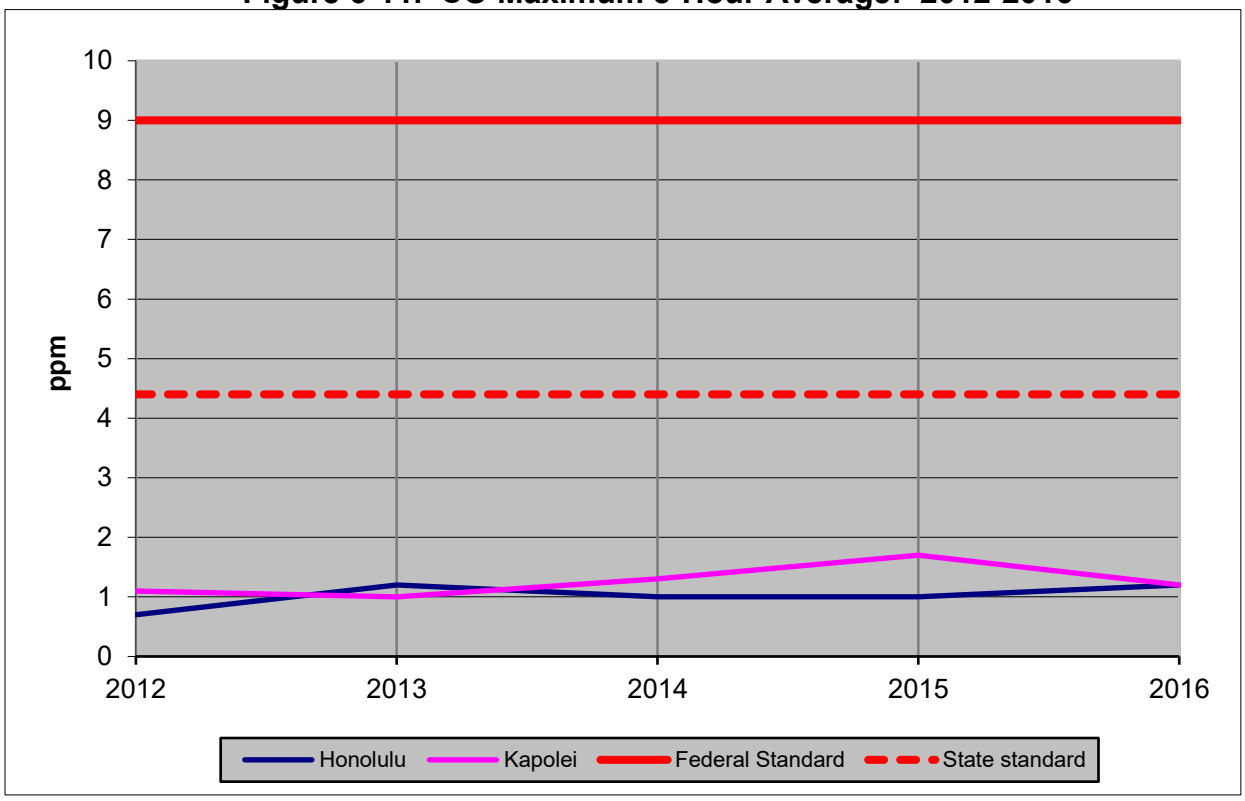


Figure 6-11. CO Maximum 8-Hour Average: 2012-2016



3.0 Detailed Site Descriptions

Following are descriptions and photos of each station in the state's current ambient air monitoring network. The descriptions include area location, traffic, probe siting, monitor information and adherence to quality assurance.

DOH Air Quality Monitoring Section of the State Laboratories Division (AQMS) is the collecting and reporting agency for all stations and monitors operating in the state.

Table 3-1. State of Hawaii Ambient Air Monitoring Network

ID	AQS No.	Site Name	Basic Monitoring Objective(s)[1]	Parameters
DH	150031001	Honolulu	1,2	$PM_{2.5}$, PM_{10}, SO_2
KA SLAMS/NCore	150030010	Kapolei	1,2,3	$PM_{2.5}$, $PM_{2.5}$ co-located, ($PM_{10-2.5}$), PM_{10}, trace SO_2, SO_2, NO_2, NO/NO_y, trace CO, CO, O_3, Pb, Pb co-located, $PM_{2.5}$ speciation, WS, WD, RH, Ambient Temperature
PC	150032004	Pearl City	1,2	$PM_{2.5}$, PM_{10}
SI	150031004	Sand Island	1,2	$PM_{2.5}$, O_3
KH	150090006	Kihei	1,2,3	$PM_{2.5}$
KL	150090025	Kahului	1, 2	$PM_{2.5}$
NI	150070007	Niumalu	1,2,3	$PM_{2.5}$, SO_2, NO_2
HL SLAMS	150011006	Hilo	1,2,3	SO_2
HL SPMS	150011006	Hilo	1,2,3	$PM_{2.5}$
KN SLAMS	150011012	Kona	1,2,3	SO_2
KN SPMS	150011012	Kona	1,2,3	$PM_{2.5}$, $PM_{2.5}$ co-located FEM
MV	150012023	Mt. View	1,2,3	$PM_{2.5}$, SO_2
OV	150012020	Ocean View	1,2,3	$PM_{2.5}$, SO_2
PA	150012016	Pahala	1,2,3	$PM_{2.5}$, SO_2
PE	150012010	Puna E	1,3	H_2S
KE	150034001	Kahe	1,2,3	SO_2
WI	150034100	Waiau	1,2,3	SO_2

[1] Basic Monitoring Objectives:
1) Public information
2) NAAQS compliance
3) Support research

(DH) HONOLULU			
AQS: 150031001	Type: SLAMS	County: Honolulu	MSA: Honolulu
Address: 1250 Punchbowl St., Honolulu, HI 96813			
Latitude: 21.30758 Longitude: -157.85542			Elevation: 20 m MSL
Location Description: This station is located on the roof of the state Department of Health building in downtown Honolulu. The surrounding streets are busy thoroughfares serving the downtown area. The area includes a major hospital (Queen's Medical Center), the state capitol, other state, county, commercial and business buildings as well as residential condominiums. This station has been operating since 1972.			

DH TRAFFIC DESCRIPTION			
Type of Roadway	Punchbowl	S. Beretania	Vineyard
Freeway			
Major Street or Highway	X	X	X
Distance from air intake (m)	30	122	610
Direction from air inlet	E	S	N
Composition of roadway	asphalt	asphalt	asphalt
Number of traffic lanes	5	6	6
Average daily traffic	35,844[1]	53,046[1]	48,445[1]
Average vehicle speed (est. mph)	20	25	25
Traffic one way or two	2	1	2
Street parking?	No	No	No
[1] Source: State of Hawaii Department of Transportation 2006 count			

For "Site Representativeness" in the following table:

[1]Site Types:
1) located to determine the highest concentrations;
2) located to measure typical concentrations in areas of high population density;
3) located to determine the impact of significant sources or source categories on air quality;
4) located to determine general background concentration levels;
5) located to determine extent of regional pollutant transport among populated areas and in support of secondary standards;
6) located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts

[2] Purposes:
1) Provide air pollution data to the general public in a timely manner;
2) Support compliance with ambient air quality standards;
3) Support emissions strategy development and track trends in air pollution abatement control measures;
4) Support for air pollution research

(DH) Honolulu continued

DH MONITOR INFORMATION (N/A = Not Applicable)				
	PM_{10}	**$PM_{2.5}$**	**SO_2**	**CO**
POC/FRM or FEM	1/FEM	3/FEM	6/FEM	1/FRM
Type of Monitor	SLAMS	SLAMS	SLAMS	SLAMS
AQS parameter code	81102	88101	42401	42101
Manufacturer	Met One	Met One	TECO	TECO
Model No.	BAM1020	BAM 1020	43i	48i
AQS method code	122	170	060	054
Monitoring start date	7/1/2009	4/1/2009	10/16/1992	1/1/1972
Monitoring frequency	Continuous	Continuous	Continuous	Continuous
Probe material	N/A	N/A	Glass	Glass
Residence time (sec)	N/A	N/A	17.0	17.0
Distance between co-located monitors	N/A	N/A	N/A	N/A
Analytical laboratory	N/A	N/A	N/A	N/A
Location of probe	building roof	building roof	building roof	building roof
Building dimensions (H) (m)	12	12	12	12
Horizontal distance from supporting structure (m)	9	11	9	9
Vertical distance above supporting structure (m)	1.8	1.8	1.2	1.2
Height of probe above ground (m)	13.8	13.8	13.2	13.2
Distance (m) & direction from drip line of tree(s)	24 E	24 E	27 E	27 E
Horizontal distance from edge of nearest traffic lane (m)	27	27	30	30
Horizontal distance from nearest parking lot (m)	24	24	24	24
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	9 ESE, 2.7	11 ESE, 2.7	9 ESE, 2.7	9 ESE 2.7
Distance (m) & direction from possible obstructions not on roof, vertical height (m)	N/A	N/A	N/A	N/A
Distance (m) & direction from furnace or incineration flues	234 S/SW	234 S/SW	238 S/SW	238 S/SW
Unrestricted airflow	360°	360°	360°	360°
Located in paved (P) or vegetative (V) ground?	P	P	P	P
SITE REPRESENTATIVENESS				
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Middle
Applicable NAAQS averaging time(s)	24-hr	24-hr, annual	1-hr, 3-hr, annual	1-hr, 8-hr
Sampling season	12 months	12 months	12 months	12 months
Site type[1]	2	2	2	1
Purpose of Monitor[2]	1, 2	1, 2	1, 2	1, 2
Suitable for comparison against the annual $PM_{2.5}$ NAAQS?	N/A	Yes	N/A	N/A
DATA QUALITY				
Last PEP	N/A	10/15/17	N/A	N/A
Last NPAP (2017 NPAP done for O_3 only in SI site)	N/A	N/A	12/11/13	12/11/13
Date of last annual independent performance audit (AQMS)	N/A	N/A	6/20/17	6/20/17
Frequency of flow rate verification (automated PM)	Monthly	Monthly	N/A	N/A
Frequency of flow rate verification (manual $PM_{2.5}$)	N/A	N/A	N/A	N/A
Dates of last 2 semi-annual flow rate audits (PM)	4/12/17; 11/7/17	4/12/17; 11/7/17	N/A	N/A
Frequency of 1-point flow rate verification (Pb)	N/A	N/A	N/A	N/A
Dates of last 2 semi-annual flow rate audits (Pb)	N/A	N/A	N/A	N/A
Precision & accuracy submitted to AQS	Quarterly	Quarterly	Quarterly	Quarterly
Frequency of 1-pt. QC check (gases)	N/A	N/A	Weekly	Weekly
Frequency of multi-point gas calibration	N/A	N/A	60 days	60 days
Annual data certification submitted	5/1/18	5/1/18	5/1/18	5/1/18
Changes in the next 18 months?	None	Yes (upgrade to BAM 1022)	None	None

8-Hour Ozone (2015) Designated Areas by State/County/Area

Data is current as of November 30, 2019

Click underlined column heading to change report order

State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
ARIZONA	Gila County	Phoenix-Mesa, AZ	Nonattainment	**Part**	56	04/007
ARIZONA	Maricopa County	Phoenix-Mesa, AZ	Nonattainment	**Part**	3,802,075	04/013
ARIZONA	Pinal County	Phoenix-Mesa, AZ	Nonattainment	**Part**	143,009	04/021
ARIZONA	Yuma County	Yuma, AZ	Nonattainment	**Part**	87,254	04/027
CALIFORNIA	Alameda County	San Francisco Bay Area, CA	Nonattainment	Whole	1,510,271	06/001
CALIFORNIA	Amador County	Amador County, CA	Nonattainment	Whole	38,091	06/005
CALIFORNIA	Butte County	Butte County, CA	Nonattainment	Whole	220,000	06/007
CALIFORNIA	Calaveras County	Calaveras County, CA	Nonattainment	Whole	45,578	06/009
CALIFORNIA	Contra Costa County	San Francisco Bay Area, CA	Nonattainment	Whole	1,049,025	06/013
CALIFORNIA	El Dorado County	Sacramento Metro, CA	Nonattainment	**Part**	150,297	06/017
CALIFORNIA	Fresno County	San Joaquin Valley, CA	Nonattainment	Whole	930,450	06/019
CALIFORNIA	Imperial County	Imperial County, CA	Nonattainment	Whole	174,528	06/025
CALIFORNIA	Kern County	Kern County (Eastern Kern), CA	Nonattainment	**Part**	95,066	06/029
CALIFORNIA	Kern County	San Joaquin Valley, CA	Nonattainment	**Part**	709,869	06/029
CALIFORNIA	Kings County	San Joaquin Valley, CA	Nonattainment	Whole	152,982	06/031
CALIFORNIA	Los Angeles County	Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Nonattainment	**Part**	377,429	06/037
CALIFORNIA	Los Angeles County	Los Angeles-South Coast Air Basin, CA	Nonattainment	**Part**	9,428,411	06/037
CALIFORNIA	Madera County	San Joaquin Valley, CA	Nonattainment	Whole	150,865	06/039
CALIFORNIA	Marin County	San Francisco Bay Area, CA	Nonattainment	Whole	252,409	06/041
CALIFORNIA	Mariposa County	Mariposa County, CA	Nonattainment	Whole	18,251	06/043
CALIFORNIA	Merced County	San Joaquin Valley, CA	Nonattainment	Whole	255,793	06/047

State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
CALIFORNIA	Napa County	San Francisco Bay Area, CA	Nonattainment	Whole	136,484	06/055
CALIFORNIA	Nevada County	Nevada County (Western part), CA	Nonattainment	**Part**	82,042	06/057
CALIFORNIA	Orange County	Los Angeles-South Coast Air Basin, CA	Nonattainment	Whole	3,010,232	06/059
CALIFORNIA	Placer County	Sacramento Metro, CA	Nonattainment	**Part**	337,840	06/061
CALIFORNIA	Riverside County	Los Angeles-South Coast Air Basin, CA	Nonattainment	**Part**	1,737,528	06/065
CALIFORNIA	Riverside County	Morongo Band of Mission Indians, CA	Nonattainment	**Part**	932	06/065
CALIFORNIA	Riverside County	Pechanga Band of Luiseno Mission Indians of the Pechanga Reservation, CA	Nonattainment	**Part**	639	06/065
CALIFORNIA	Riverside County	Riverside County (Coachella Valley), CA	Nonattainment	**Part**	425,029	06/065
CALIFORNIA	Sacramento County	Sacramento Metro, CA	Nonattainment	Whole	1,418,788	06/067
CALIFORNIA	San Bernardino County	Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Nonattainment	**Part**	489,531	06/071
CALIFORNIA	San Bernardino County	Los Angeles-South Coast Air Basin, CA	Nonattainment	**Part**	1,526,600	06/071
CALIFORNIA	San Diego County	Pechanga Band of Luiseno Mission Indians of the Pechanga Reservation, CA	Nonattainment	**Part**	13	06/073
CALIFORNIA	San Diego County	San Diego County, CA	Nonattainment	**Part**	3,077,287	06/073
CALIFORNIA	San Francisco County	San Francisco Bay Area, CA	Nonattainment	Whole	805,235	06/075
CALIFORNIA	San Joaquin County	San Joaquin Valley, CA	Nonattainment	Whole	685,306	06/077
CALIFORNIA	San Luis Obispo County	San Luis Obispo (Eastern part), CA	Nonattainment	**Part**	1,290	06/079
CALIFORNIA	San Mateo County	San Francisco Bay Area, CA	Nonattainment	Whole	718,451	06/081
CALIFORNIA	Santa Clara County	San Francisco Bay Area, CA	Nonattainment	Whole	1,781,642	06/085
CALIFORNIA	Solano County	Sacramento Metro, CA	Nonattainment	**Part**	129,291	06/095
CALIFORNIA	Solano County	San Francisco Bay Area, CA	Nonattainment	**Part**	284,053	06/095
CALIFORNIA	Sonoma County	San Francisco Bay Area, CA	Nonattainment	**Part**	431,795	06/097
CALIFORNIA	Stanislaus County	San Joaquin Valley, CA	Nonattainment	Whole	514,453	06/099
CALIFORNIA	Sutter County	Sacramento Metro, CA	Nonattainment	**Part**	3,383	06/101

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CALIFORNIA	Sutter County	Sutter Buttes, CA	Nonattainment	Part	3	06/101
CALIFORNIA	Tehama County	Tuscan Buttes, CA	Nonattainment	Part	0	06/103
CALIFORNIA	Tulare County	San Joaquin Valley, CA	Nonattainment	Whole	442,179	06/107
CALIFORNIA	Tuolumne County	Tuolumne County, CA	Nonattainment	Whole	55,365	06/109
CALIFORNIA	Ventura County	Ventura County, CA	Nonattainment	Part	820,808	06/111
CALIFORNIA	Yolo County	Sacramento Metro, CA	Nonattainment	Whole	200,849	06/113
COLORADO	Adams County	Denver Metro/North Front Range, CO	Nonattainment	Whole	441,603	08/001
COLORADO	Arapahoe County	Denver Metro/North Front Range, CO	Nonattainment	Whole	572,003	08/005
COLORADO	Boulder County	Denver Metro/North Front Range, CO	Nonattainment	Whole	294,567	08/013
COLORADO	Broomfield County	Denver Metro/North Front Range, CO	Nonattainment	Whole	55,889	08/014
COLORADO	Denver County	Denver Metro/North Front Range, CO	Nonattainment	Whole	600,158	08/031
COLORADO	Douglas County	Denver Metro/North Front Range, CO	Nonattainment	Whole	285,465	08/035
COLORADO	Jefferson County	Denver Metro/North Front Range, CO	Nonattainment	Whole	534,543	08/059
COLORADO	Larimer County	Denver Metro/North Front Range, CO	Nonattainment	**Part**	294,170	08/069
COLORADO	Weld County	Denver Metro/North Front Range, CO	Nonattainment	**Part**	251,375	08/123
CONNECTICUT	Fairfield County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	916,829	09/001
CONNECTICUT	Hartford County	Greater Connecticut, CT	Nonattainment	Whole	894,014	09/003
CONNECTICUT	Litchfield County	Greater Connecticut, CT	Nonattainment	Whole	189,927	09/005
CONNECTICUT	Middlesex County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	165,676	09/007
CONNECTICUT	New Haven County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	862,477	09/009
CONNECTICUT	New London County	Greater Connecticut, CT	Nonattainment	Whole	274,055	09/011
CONNECTICUT	Tolland County	Greater Connecticut, CT	Nonattainment	Whole	152,691	09/013
CONNECTICUT	Windham County	Greater Connecticut, CT	Nonattainment	Whole	118,428	09/015
DELAWARE	New Castle County	Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Nonattainment	Whole	538,479	10/003
DISTRICT OF COLUMBIA	District of Columbia	Washington, DC-MD-VA	Nonattainment	Whole	601,723	11/001

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GEORGIA	Bartow County	Atlanta, GA	Nonattainment	Whole	100,157	13/015
GEORGIA	Clayton County	Atlanta, GA	Nonattainment	Whole	259,424	13/063
GEORGIA	Cobb County	Atlanta, GA	Nonattainment	Whole	688,078	13/067
GEORGIA	DeKalb County	Atlanta, GA	Nonattainment	Whole	691,893	13/089
GEORGIA	Fulton County	Atlanta, GA	Nonattainment	Whole	920,581	13/121
GEORGIA	Gwinnett County	Atlanta, GA	Nonattainment	Whole	805,321	13/135
GEORGIA	Henry County	Atlanta, GA	Nonattainment	Whole	203,922	13/151
ILLINOIS	Cook County	Chicago, IL-IN-WI	Nonattainment	Whole	5,194,675	17/031
ILLINOIS	DuPage County	Chicago, IL-IN-WI	Nonattainment	Whole	916,924	17/043
ILLINOIS	Grundy County	Chicago, IL-IN-WI	Nonattainment	Part	19,251	17/063
ILLINOIS	Kane County	Chicago, IL-IN-WI	Nonattainment	Whole	515,269	17/089
ILLINOIS	Kendall County	Chicago, IL-IN-WI	Nonattainment	Part	49,334	17/093
ILLINOIS	Lake County	Chicago, IL-IN-WI	Nonattainment	Whole	703,462	17/097
ILLINOIS	Madison County	St. Louis, MO-IL	Nonattainment	Whole	269,282	17/119
ILLINOIS	St. Clair County	St. Louis, MO-IL	Nonattainment	Whole	270,056	17/163
ILLINOIS	Will County	Chicago, IL-IN-WI	Nonattainment	Whole	677,560	17/197
INDIANA	Clark County	Louisville, KY-IN	Nonattainment	Whole	110,232	18/019
INDIANA	Floyd County	Louisville, KY-IN	Nonattainment	Whole	74,578	18/043
INDIANA	Lake County	Chicago, IL-IN-WI	Nonattainment	**Part**	421,162	18/089
KENTUCKY	Boone County	Cincinnati, OH-KY	Nonattainment	Part	113,158	21/015
KENTUCKY	Bullitt County	Louisville, KY-IN	Nonattainment	Whole	74,319	21/029
KENTUCKY	Campbell County	Cincinnati, OH-KY	Nonattainment	Part	82,634	21/037
KENTUCKY	Jefferson County	Louisville, KY-IN	Nonattainment	Whole	741,096	21/111
KENTUCKY	Kenton County	Cincinnati, OH-KY	Nonattainment	Part	152,176	21/117
KENTUCKY	Oldham County	Louisville, KY-IN	Nonattainment	Whole	60,316	21/185
MARYLAND	Anne Arundel County	Baltimore, MD	Nonattainment	Whole	537,656	24/003
MARYLAND	Baltimore County	Baltimore, MD	Nonattainment	Whole	805,029	24/005

State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
MARYLAND	Baltimore city	Baltimore, MD	Nonattainment	Whole	620,961	24/510
MARYLAND	Calvert County	Washington, DC-MD-VA	Nonattainment	Whole	88,737	24/009
MARYLAND	Carroll County	Baltimore, MD	Nonattainment	Whole	167,134	24/013
MARYLAND	Cecil County	Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Nonattainment	Whole	101,108	24/015
MARYLAND	Charles County	Washington, DC-MD-VA	Nonattainment	Whole	146,551	24/017
MARYLAND	Frederick County	Washington, DC-MD-VA	Nonattainment	Whole	233,385	24/021
MARYLAND	Harford County	Baltimore, MD	Nonattainment	Whole	244,826	24/025
MARYLAND	Howard County	Baltimore, MD	Nonattainment	Whole	287,085	24/027
MARYLAND	Montgomery County	Washington, DC-MD-VA	Nonattainment	Whole	971,777	24/031
MARYLAND	Prince George's County	Washington, DC-MD-VA	Nonattainment	Whole	863,420	24/033
MICHIGAN	Allegan County	Allegan County, MI	Nonattainment	**Part**	46,615	26/005
MICHIGAN	Berrien County	Berrien County, MI	Nonattainment	Whole	156,813	26/021
MICHIGAN	Livingston County	Detroit, MI	Nonattainment	Whole	180,967	26/093
MICHIGAN	Macomb County	Detroit, MI	Nonattainment	Whole	840,978	26/099
MICHIGAN	Monroe County	Detroit, MI	Nonattainment	Whole	152,021	26/115
MICHIGAN	Muskegon County	Muskegon County, MI	Nonattainment	**Part**	146,852	26/121
MICHIGAN	Oakland County	Detroit, MI	Nonattainment	Whole	1,202,362	26/125
MICHIGAN	St. Clair County	Detroit, MI	Nonattainment	Whole	163,040	26/147
MICHIGAN	Washtenaw County	Detroit, MI	Nonattainment	Whole	344,791	26/161
MICHIGAN	Wayne County	Detroit, MI	Nonattainment	Whole	1,820,584	26/163
MISSOURI	Franklin County	St. Louis, MO-IL	Nonattainment	Part	18,108	29/071
MISSOURI	St. Charles County	St. Louis, MO-IL	Nonattainment	Whole	360,485	29/183
MISSOURI	St. Louis County	St. Louis, MO-IL	Nonattainment	Whole	998,954	29/189
MISSOURI	St. Louis city	St. Louis, MO-IL	Nonattainment	Whole	319,294	29/510
NEVADA	Clark County	Las Vegas, NV	Nonattainment	Part	1,892,250	32/003

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NEW JERSEY	Atlantic County	Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Nonattainment	Whole	274,549	34/001
NEW JERSEY	Bergen County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	905,116	34/003
NEW JERSEY	Burlington County	Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Nonattainment	Whole	448,734	34/005
NEW JERSEY	Camden County	Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Nonattainment	Whole	513,657	34/007
NEW JERSEY	Cape May County	Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Nonattainment	Whole	97,265	34/009
NEW JERSEY	Cumberland County	Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Nonattainment	Whole	156,898	34/011
NEW JERSEY	Essex County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	783,969	34/013
NEW JERSEY	Gloucester County	Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Nonattainment	Whole	288,288	34/015
NEW JERSEY	Hudson County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	634,266	34/017
NEW JERSEY	Hunterdon County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	128,349	34/019
NEW JERSEY	Mercer County	Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Nonattainment	Whole	366,513	34/021
NEW JERSEY	Middlesex County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	809,858	34/023
NEW JERSEY	Monmouth County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	630,380	34/025
NEW JERSEY	Morris County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	492,276	34/027
NEW JERSEY	Ocean County	Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Nonattainment	Whole	576,567	34/029
NEW JERSEY	Passaic County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	501,226	34/031
NEW JERSEY	Salem County	Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Nonattainment	Whole	66,083	34/033

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NEW JERSEY	Somerset County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	323,444	34/035
NEW JERSEY	Sussex County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	149,265	34/037
NEW JERSEY	Union County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	536,499	34/039
NEW JERSEY	Warren County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	108,692	34/041
NEW MEXICO	Dona Ana County	Dona Ana County (Sunland Park Area), NM	Nonattainment	**Part**	12,675	35/013
NEW YORK	Bronx County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	1,385,108	36/005
NEW YORK	Kings County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	2,504,700	36/047
NEW YORK	Nassau County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	1,339,532	36/059
NEW YORK	New York County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	1,585,873	36/061
NEW YORK	Queens County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	2,230,722	36/081
NEW YORK	Richmond County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	468,730	36/085
NEW YORK	Rockland County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	311,687	36/087
NEW YORK	Suffolk County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	1,493,350	36/103
NEW YORK	Westchester County	New York-Northern New Jersey-Long Island, NY-NJ-CT	Nonattainment	Whole	949,113	36/119
OHIO	Butler County	Cincinnati, OH-KY	Nonattainment	Whole	368,130	39/017
OHIO	Clermont County	Cincinnati, OH-KY	Nonattainment	Whole	197,363	39/025
OHIO	Cuyahoga County	Cleveland, OH	Nonattainment	Whole	1,280,122	39/035
OHIO	Delaware County	Columbus, OH	Maintenance	Whole	174,214	39/041
OHIO	Fairfield County	Columbus, OH	Maintenance	Whole	146,156	39/045
OHIO	Franklin County	Columbus, OH	Maintenance	Whole	1,163,414	39/049

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OHIO	Geauga County	Cleveland, OH	Nonattainment	Whole	93,389	39/055
OHIO	Hamilton County	Cincinnati, OH-KY	Nonattainment	Whole	802,374	39/061
OHIO	Lake County	Cleveland, OH	Nonattainment	Whole	230,041	39/085
OHIO	Licking County	Columbus, OH	Maintenance	Whole	166,492	39/089
OHIO	Lorain County	Cleveland, OH	Nonattainment	Whole	301,356	39/093
OHIO	Medina County	Cleveland, OH	Nonattainment	Whole	172,332	39/103
OHIO	Portage County	Cleveland, OH	Nonattainment	Whole	161,419	39/133
OHIO	Summit County	Cleveland, OH	Nonattainment	Whole	541,781	39/153
OHIO	Warren County	Cincinnati, OH-KY	Nonattainment	Whole	212,693	39/165
PENNSYLVANIA	Bucks County	Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Nonattainment	Whole	625,249	42/017
PENNSYLVANIA	Chester County	Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Nonattainment	Whole	498,886	42/029
PENNSYLVANIA	Delaware County	Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Nonattainment	Whole	558,979	42/045
PENNSYLVANIA	Montgomery County	Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Nonattainment	Whole	799,874	42/091
PENNSYLVANIA	Philadelphia County	Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Nonattainment	Whole	1,526,006	42/101
TEXAS	Bexar County	San Antonio, TX	Nonattainment	Whole	1,714,773	48/029
TEXAS	Brazoria County	Houston-Galveston-Brazoria, TX	Nonattainment	Whole	313,166	48/039
TEXAS	Chambers County	Houston-Galveston-Brazoria, TX	Nonattainment	Whole	35,096	48/071
TEXAS	Collin County	Dallas-Fort Worth, TX	Nonattainment	Whole	782,341	48/085
TEXAS	Dallas County	Dallas-Fort Worth, TX	Nonattainment	Whole	2,368,139	48/113
TEXAS	Denton County	Dallas-Fort Worth, TX	Nonattainment	Whole	662,614	48/121
TEXAS	Ellis County	Dallas-Fort Worth, TX	Nonattainment	Whole	149,610	48/139
TEXAS	Fort Bend County	Houston-Galveston-Brazoria, TX	Nonattainment	Whole	585,375	48/157
TEXAS	Galveston County	Houston-Galveston-Brazoria, TX	Nonattainment	Whole	291,309	48/167
TEXAS	Harris County	Houston-Galveston-Brazoria, TX	Nonattainment	Whole	4,092,459	48/201
TEXAS	Johnson County	Dallas-Fort Worth, TX	Nonattainment	Whole	150,934	48/251

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TEXAS	Kaufman County	Dallas-Fort Worth, TX	Nonattainment	Whole	103,350	48/257
TEXAS	Montgomery County	Houston-Galveston-Brazoria, TX	Nonattainment	Whole	455,746	48/339
TEXAS	Parker County	Dallas-Fort Worth, TX	Nonattainment	Whole	116,927	48/367
TEXAS	Tarrant County	Dallas-Fort Worth, TX	Nonattainment	Whole	1,809,034	48/439
TEXAS	Wise County	Dallas-Fort Worth, TX	Nonattainment	Whole	59,127	48/497
UTAH	Davis County	Northern Wasatch Front, UT	Nonattainment	Whole	306,479	49/011
UTAH	Duchesne County	Uinta Basin, UT	Nonattainment	**Part**	15,338	49/013
UTAH	Salt Lake County	Northern Wasatch Front, UT	Nonattainment	Whole	1,029,655	49/035
UTAH	Tooele County	Northern Wasatch Front, UT	Nonattainment	**Part**	54,857	49/045
UTAH	Uintah County	Uinta Basin, UT	Nonattainment	**Part**	31,979	49/047
UTAH	Utah County	Southern Wasatch Front, UT	Nonattainment	**Part**	515,895	49/049
UTAH	Weber County	Northern Wasatch Front, UT	Nonattainment	**Part**	224,583	49/057
VIRGINIA	Alexandria city	Washington, DC-MD-VA	Nonattainment	Whole	139,966	51/510
VIRGINIA	Arlington County	Washington, DC-MD-VA	Nonattainment	Whole	207,627	51/013
VIRGINIA	Fairfax County	Washington, DC-MD-VA	Nonattainment	Whole	1,081,726	51/059
VIRGINIA	Fairfax city	Washington, DC-MD-VA	Nonattainment	Whole	22,565	51/600
VIRGINIA	Falls Church city	Washington, DC-MD-VA	Nonattainment	Whole	12,332	51/610
VIRGINIA	Loudoun County	Washington, DC-MD-VA	Nonattainment	Whole	312,311	51/107
VIRGINIA	Manassas Park city	Washington, DC-MD-VA	Nonattainment	Whole	14,273	51/685
VIRGINIA	Manassas city	Washington, DC-MD-VA	Nonattainment	Whole	37,821	51/683
VIRGINIA	Prince William County	Washington, DC-MD-VA	Nonattainment	Whole	402,002	51/153
WISCONSIN	Door County	Door County, WI	Nonattainment	Part	31	55/029
WISCONSIN	Kenosha County	Chicago, IL-IN-WI	Nonattainment	**Part**	116,383	55/059
WISCONSIN	Manitowoc County	Manitowoc County, WI	Nonattainment	**Part**	48,956	55/071
WISCONSIN	Milwaukee County	Northern Milwaukee/Ozaukee Shoreline, WI	Nonattainment	**Part**	27,564	55/079
WISCONSIN	Ozaukee County	Northern Milwaukee/Ozaukee Shoreline, WI	Nonattainment	**Part**	42,253	55/089

State	County	Area Name	Current Status	County NA Whole/Part	2010 Population	State/ County FIPS
				click link for partial county description	whole or partial county population	
WISCONSIN	Sheboygan County	Sheboygan County, WI	Nonattainment	**Part**	61,656	55/117

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Carbon Monoxide (1971) Designated Areas by State/County/Area

Data is current as of November 30, 2019

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State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
ALASKA	Anchorage Municipality	Anchorage, AK	Maintenance	**Part**	286,227	02/020
ALASKA	Fairbanks North Star Borough	Fairbanks, AK	Maintenance	**Part**	46,211	02/090
ARIZONA	Maricopa County	Phoenix, AZ	Maintenance	**Part**	3,763,324	04/013
ARIZONA	Pima County	Tucson, AZ	Maintenance	**Part**	595,314	04/019
CALIFORNIA	Alameda County	San Francisco-Oakland-San Jose, CA	Maintenance	**Part**	715,578	06/001
CALIFORNIA	Butte County	Chico, CA	Maintenance	**Part**	86,963	06/007
CALIFORNIA	Contra Costa County	San Francisco-Oakland-San Jose, CA	Maintenance	**Part**	848,335	06/013
CALIFORNIA	El Dorado County	Lake Tahoe South Shore, CA	Maintenance	**Part**	43,110	06/017
CALIFORNIA	Fresno County	Fresno, CA	Maintenance	Part	631,483	06/019
CALIFORNIA	Kern County	Bakersfield, CA	Maintenance	**Part**	468,092	06/029
CALIFORNIA	Los Angeles County	Los Angeles-South Coast Air Basin, CA	Maintenance	**Part**	9,512,219	06/037
CALIFORNIA	Marin County	San Francisco-Oakland-San Jose, CA	Maintenance	**Part**	219,393	06/041
CALIFORNIA	Napa County	San Francisco-Oakland-San Jose, CA	Maintenance	Part	123,217	06/055
CALIFORNIA	Orange County	Los Angeles-South Coast Air Basin, CA	Maintenance	Whole	3,010,232	06/059
CALIFORNIA	Placer County	Lake Tahoe North Shore, CA	Maintenance	**Part**	16,132	06/061
CALIFORNIA	Placer County	Sacramento, CA	Maintenance	Part	102,822	06/061
CALIFORNIA	Riverside County	Los Angeles-South Coast Air Basin, CA	Maintenance	**Part**	1,692,996	06/065
CALIFORNIA	Sacramento County	Sacramento, CA	Maintenance	Part	1,381,740	06/067
CALIFORNIA	San Bernardino County	Los Angeles-South Coast Air Basin, CA	Maintenance	**Part**	1,583,687	06/071
CALIFORNIA	San Diego County	San Diego, CA	Maintenance	**Part**	2,909,194	06/073
CALIFORNIA	San Francisco County	San Francisco-Oakland-San Jose, CA	Maintenance	Whole	805,235	06/075
CALIFORNIA	San Joaquin County	Stockton, CA	Maintenance	**Part**	373,545	06/077

State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
CALIFORNIA	San Mateo County	San Francisco-Oakland-San Jose, CA	Maintenance	**Part**	497,688	06/081
CALIFORNIA	Santa Clara County	San Francisco-Oakland-San Jose, CA	Maintenance	**Part**	594,906	06/085
CALIFORNIA	Solano County	San Francisco-Oakland-San Jose, CA	Maintenance	**Part**	242,850	06/095
CALIFORNIA	Sonoma County	San Francisco-Oakland-San Jose, CA	Maintenance	**Part**	249,297	06/097
CALIFORNIA	Stanislaus County	Modesto, CA	Maintenance	**Part**	320,707	06/099
CALIFORNIA	Yolo County	Sacramento, CA	Maintenance	Part	45,554	06/113
COLORADO	Adams County	Denver-Boulder, CO	Maintenance	**Part**	432,838	08/001
COLORADO	Arapahoe County	Denver-Boulder, CO	Maintenance	**Part**	567,075	08/005
COLORADO	Boulder County	Denver-Boulder, CO	Maintenance	**Part**	203,419	08/013
COLORADO	Boulder County	Longmont, CO	Maintenance	**Part**	36,697	08/013
COLORADO	Broomfield County	Denver-Boulder, CO	Maintenance	Whole	55,889	08/014
COLORADO	Denver County	Denver-Boulder, CO	Maintenance	Whole	600,158	08/031
COLORADO	Douglas County	Denver-Boulder, CO	Maintenance	**Part**	236,334	08/035
COLORADO	El Paso County	Colorado Springs, CO	Maintenance	**Part**	540,760	08/041
COLORADO	Jefferson County	Denver-Boulder, CO	Maintenance	**Part**	514,924	08/059
COLORADO	Larimer County	Fort Collins, CO	Maintenance	**Part**	170,639	08/069
COLORADO	Teller County	Colorado Springs, CO	Maintenance	**Part**	14,982	08/119
COLORADO	Weld County	Greeley, CO	Maintenance	**Part**	138,101	08/123
COLORADO	Weld County	Longmont, CO	Maintenance	**Part**	49,861	08/123
CONNECTICUT	Fairfield County	New Haven-Meriden-Waterbury, CT	Maintenance	Part	39,579	09/001
CONNECTICUT	Fairfield County	New York-N. New Jersey-Long Island, NY-NJ-CT	Maintenance	Part	877,270	09/001
CONNECTICUT	Hartford County	Hartford-New Britain-Middletown, CT	Maintenance	**Part**	891,900	09/003
CONNECTICUT	Litchfield County	Hartford-New Britain-Middletown, CT	Maintenance	Part	12,127	09/005
CONNECTICUT	Litchfield County	New Haven-Meriden-Waterbury, CT	Maintenance	Part	43,556	09/005
CONNECTICUT	Litchfield County	New York-N. New Jersey-Long Island, NY-NJ-CT	Maintenance	Part	30,172	09/005
CONNECTICUT	Middlesex County	Hartford-New Britain-Middletown, CT	Maintenance	**Part**	113,405	09/007
CONNECTICUT	New Haven County	New Haven-Meriden-Waterbury, CT	Maintenance	Whole	862,477	09/009
CONNECTICUT	Tolland County	Hartford-New Britain-Middletown, CT	Maintenance	**Part**	89,246	09/013
DISTRICT OF COLUMBIA	District of Columbia	Washington, DC-MD-VA	Maintenance	Whole	601,723	11/001

State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
IDAHO	Ada County	Boise-Northern Ada County, ID	Maintenance	**Part**	257,440	16/001
INDIANA	Lake County	East Chicago, IN	Maintenance	**Part**	5,208	18/089
INDIANA	Marion County	Indianapolis, IN	Maintenance	**Part**	61,160	18/097
MARYLAND	Baltimore city	Baltimore, MD	Maintenance	**Part**	15,455	24/510
MARYLAND	Montgomery County	Washington, DC-MD-VA	Maintenance	Part	474,416	24/031
MARYLAND	Prince George's County	Washington, DC-MD-VA	Maintenance	Part	369,359	24/033
MASSACHUSETTS	Hampden County	Springfield, MA	Maintenance	Part	153,060	25/013
MASSACHUSETTS	Middlesex County	Boston, MA	Maintenance	Part	338,206	25/017
MASSACHUSETTS	Middlesex County	Lowell, MA	Maintenance	Part	106,519	25/017
MASSACHUSETTS	Middlesex County	Waltham, MA	Maintenance	Part	60,632	25/017
MASSACHUSETTS	Norfolk County	Boston, MA	Maintenance	Part	92,271	25/021
MASSACHUSETTS	Suffolk County	Boston, MA	Maintenance	Part	704,526	25/025
MASSACHUSETTS	Worcester County	Worcester, MA	Maintenance	Part	181,045	25/027
MICHIGAN	Macomb County	Detroit, MI	Maintenance	**Part**	295,428	26/099
MICHIGAN	Oakland County	Detroit, MI	Maintenance	**Part**	435,027	26/125
MICHIGAN	Wayne County	Detroit, MI	Maintenance	**Part**	651,784	26/163
MINNESOTA	Anoka County	Minneapolis-St. Paul, MN	Maintenance	Whole	330,844	27/003
MINNESOTA	Carver County	Minneapolis-St. Paul, MN	Maintenance	**Part**	77,969	27/019
MINNESOTA	Dakota County	Minneapolis-St. Paul, MN	Maintenance	**Part**	380,675	27/037
MINNESOTA	Hennepin County	Minneapolis-St. Paul, MN	Maintenance	Whole	1,152,425	27/053
MINNESOTA	Ramsey County	Minneapolis-St. Paul, MN	Maintenance	Whole	508,640	27/123
MINNESOTA	Scott County	Minneapolis-St. Paul, MN	Maintenance	**Part**	119,772	27/139
MINNESOTA	St. Louis County	Duluth, MN	Maintenance	Part	85,857	27/137
MINNESOTA	Washington County	Minneapolis-St. Paul, MN	Maintenance	Part	236,399	27/163
MINNESOTA	Wright County	Minneapolis-St. Paul, MN	Maintenance	**Part**	113,454	27/171
MISSOURI	St. Louis County	St. Louis, MO	Maintenance	Part	908,233	29/189
MISSOURI	St. Louis city	St. Louis, MO	Maintenance	Whole	319,294	29/510
MONTANA	Cascade County	Great Falls, MT	Maintenance	**Part**	57,573	30/013
MONTANA	Missoula County	Missoula, MT	Maintenance	**Part**	59,733	30/063

State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
MONTANA	Yellowstone County	Billings, MT	Maintenance	**Part**	104,360	30/111
NEVADA	Carson City	Lake Tahoe, NV	Maintenance	Part	10,342	32/510
NEVADA	Clark County	Las Vegas, NV	Maintenance	Part	679,034	32/003
NEVADA	Douglas County	Lake Tahoe, NV	Maintenance	Part	10,401	32/005
NEVADA	Washoe County	Lake Tahoe, NV	Maintenance	Part	12,516	32/031
NEVADA	Washoe County	Reno, NV	Maintenance	Part	221,743	32/031
NEW HAMPSHIRE	Hillsborough County	Manchester, NH	Maintenance	Part	109,565	33/011
NEW HAMPSHIRE	Hillsborough County	Nashua, NH	Maintenance	Part	86,494	33/011
NEW JERSEY	Atlantic County	Atlantic City, NJ	Maintenance	Part	44,944	34/001
NEW JERSEY	Bergen County	New York-N. New Jersey-Long Island, NY-NJ-CT	Maintenance	Whole	905,116	34/003
NEW JERSEY	Burlington County	Burlington, NJ	Maintenance	Part	10,993	34/005
NEW JERSEY	Camden County	Philadelphia-Camden Co, PA-NJ	Maintenance	Whole	513,657	34/007
NEW JERSEY	Essex County	New York-N. New Jersey-Long Island, NY-NJ-CT	Maintenance	Whole	783,969	34/013
NEW JERSEY	Hudson County	New York-N. New Jersey-Long Island, NY-NJ-CT	Maintenance	Whole	634,266	34/017
NEW JERSEY	Mercer County	Trenton, NJ	Maintenance	Part	97,712	34/021
NEW JERSEY	Middlesex County	Perth Amboy, NJ	Maintenance	Part	49,645	34/023
NEW JERSEY	Monmouth County	Freehold, NJ	Maintenance	Part	12,734	34/025
NEW JERSEY	Morris County	Morristown, NJ	Maintenance	Part	21,955	34/027
NEW JERSEY	Ocean County	Toms River, NJ	Maintenance	Part	10,667	34/029
NEW JERSEY	Passaic County	New York-N. New Jersey-Long Island, NY-NJ-CT	Maintenance	Part	300,116	34/031
NEW JERSEY	Salem County	Penns Grove, NJ	Maintenance	**Part**	5,201	34/033
NEW JERSEY	Somerset County	Somerville, NJ	Maintenance	Part	15,557	34/035
NEW JERSEY	Union County	New York-N. New Jersey-Long Island, NY-NJ-CT	Maintenance	Whole	536,499	34/039
NEW MEXICO	Bernalillo County	Albuquerque, NM	Maintenance	Whole	662,564	35/001
NEW YORK	Bronx County	New York-N. New Jersey-Long Island, NY-NJ-CT	Maintenance	Whole	1,385,108	36/005
NEW YORK	Kings County	New York-N. New Jersey-Long Island, NY-NJ-CT	Maintenance	Whole	2,504,700	36/047

State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
NEW YORK	Nassau County	New York-N. New Jersey-Long Island, NY-NJ-CT	Maintenance	Whole	1,339,532	36/059
NEW YORK	New York County	New York-N. New Jersey-Long Island, NY-NJ-CT	Maintenance	Whole	1,585,873	36/061
NEW YORK	Onondaga County	Syracuse, NY	Maintenance	Whole	467,026	36/067
NEW YORK	Queens County	New York-N. New Jersey-Long Island, NY-NJ-CT	Maintenance	Whole	2,230,722	36/081
NEW YORK	Richmond County	New York-N. New Jersey-Long Island, NY-NJ-CT	Maintenance	Whole	468,730	36/085
NEW YORK	Westchester County	New York-N. New Jersey-Long Island, NY-NJ-CT	Maintenance	Whole	949,113	36/119
NORTH CAROLINA	Durham County	Raleigh-Durham, NC	Maintenance	Whole	267,587	37/063
NORTH CAROLINA	Forsyth County	Winston-Salem, NC	Maintenance	Whole	350,670	37/067
NORTH CAROLINA	Mecklenburg County	Charlotte, NC	Maintenance	Whole	919,628	37/119
NORTH CAROLINA	Wake County	Raleigh-Durham, NC	Maintenance	Whole	900,993	37/183
OHIO	Cuyahoga County	Cleveland, OH	Maintenance	Whole	1,280,122	39/035
OREGON	Clackamas County	Portland, OR	Maintenance	Part	233,262	41/005
OREGON	Jackson County	Medford, OR	Maintenance	Part	86,056	41/029
OREGON	Josephine County	Grants Pass, OR	Maintenance	Part	22,449	41/033
OREGON	Klamath County	Klamath Falls, OR	Maintenance	Part	20,703	41/035
OREGON	Lane County	Eugene-Springfield, OR	Maintenance	**Part**	234,972	41/039
OREGON	Marion County	Salem, OR	Maintenance	Part	80,695	41/047
OREGON	Multnomah County	Portland, OR	Maintenance	Part	629,654	41/051
OREGON	Polk County	Salem, OR	Maintenance	Part	75,405	41/053
OREGON	Washington County	Portland, OR	Maintenance	Part	467,557	41/067
PENNSYLVANIA	Allegheny County	Pittsburgh, PA	Maintenance	**Part**	320,395	42/003
PENNSYLVANIA	Philadelphia County	Philadelphia-Camden Co, PA-NJ	Maintenance	**Part**	673,750	42/101
TENNESSEE	Shelby County	Memphis, TN	Maintenance	Whole	927,644	47/157
TEXAS	El Paso County	El Paso, TX	Maintenance	**Part**	73,100	48/141
UTAH	Salt Lake County	Salt Lake City, UT	Maintenance	Part	186,440	49/035
UTAH	Utah County	Provo, UT	Maintenance	Part	166,596	49/049
UTAH	Weber County	Ogden, UT	Maintenance	Part	82,825	49/057

State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
VIRGINIA	Alexandria city	Washington, DC-MD-VA	Maintenance	Whole	139,966	51/510
VIRGINIA	Arlington County	Washington, DC-MD-VA	Maintenance	Whole	207,627	51/013
WASHINGTON	Clark County	Vancouver, WA	Maintenance	Part	400,271	53/011
WASHINGTON	King County	Seattle-Tacoma, WA	Maintenance	**Part**	1,693,693	53/033
WASHINGTON	Pierce County	Seattle-Tacoma, WA	Maintenance	**Part**	697,408	53/053
WASHINGTON	Snohomish County	Seattle-Tacoma, WA	Maintenance	**Part**	625,609	53/061
WASHINGTON	Spokane County	Spokane, WA	Maintenance	**Part**	363,834	53/063
WASHINGTON	Yakima County	Yakima, WA	Maintenance	**Part**	69,565	53/077

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Lead (2008) Designated Areas by State/County/Area

Data is current as of November 30, 2019

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State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
ALABAMA	Pike County	Troy, AL	Maintenance	**Part**	2,275	01/109
ARIZONA	Gila County	Hayden, AZ	Nonattainment	**Part**	1,284	04/007
ARIZONA	Pinal County	Hayden, AZ	Nonattainment	**Part**	3,346	04/021
CALIFORNIA	Los Angeles County	Los Angeles County-South Coast Air Basin, CA	Nonattainment	**Part**	9,436,927	06/037
FLORIDA	Hillsborough County	Tampa, FL	Maintenance	**Part**	4,128	12/057
ILLINOIS	Cook County	Chicago, IL	Maintenance	**Part**	35,696	17/031
ILLINOIS	Madison County	Granite City, IL	Maintenance	**Part**	38,901	17/119
INDIANA	Delaware County	Muncie, IN	Nonattainment	**Part**	854	18/035
IOWA	Pottawattamie County	Pottawattamie County, IA	Maintenance	**Part**	12,845	19/155
KANSAS	Saline County	Saline County, KS	Nonattainment	**Part**	9	20/169
MICHIGAN	Ionia County	Belding, MI	Maintenance	**Part**	1,890	26/067
MINNESOTA	Dakota County	Eagan, MN	Nonattainment	**Part**	8,997	27/037
MISSOURI	Dent County	Iron, Dent, and Reynolds Counties, MO	Nonattainment	**Part**	106	29/065
MISSOURI	Iron County	Iron, Dent, and Reynolds Counties, MO	Nonattainment	**Part**	253	29/093
MISSOURI	Jefferson County	Jefferson County, MO	Nonattainment	Part	4,814	29/099
MISSOURI	Reynolds County	Iron, Dent, and Reynolds Counties, MO	Nonattainment	**Part**	101	29/179
OHIO	Cuyahoga County	Cleveland, OH	Maintenance	**Part**	7,816	39/035
OHIO	Fulton County	Delta, OH	Maintenance	**Part**	3,243	39/051
OHIO	Logan County	Bellefontaine, OH	Maintenance	**Part**	6,220	39/091
PENNSYLVANIA	Beaver County	Lower Beaver Valley, PA	Nonattainment	**Part**	17,654	42/007
PENNSYLVANIA	Berks County	Lyons, PA	Nonattainment	**Part**	19,480	42/011
PENNSYLVANIA	Berks County	North Reading, PA	Nonattainment	**Part**	29,334	42/011
PUERTO RICO	Arecibo Municipio	Arecibo, PR	Nonattainment	**Part**	32,185	72/013
TENNESSEE	Sullivan County	Bristol, TN	Maintenance	**Part**	1,611	47/163
TEXAS	Collin County	Frisco, TX	Maintenance	**Part**	3,670	48/085

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PM-2.5 (2012) Designated Areas by State/County/Area

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State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
CALIFORNIA	Fresno County	San Joaquin Valley, CA	Nonattainment	Whole	930,450	06/019
CALIFORNIA	Imperial County	Imperial County, CA	Nonattainment	**Part**	154,061	06/025
CALIFORNIA	Kern County	San Joaquin Valley, CA	Nonattainment	**Part**	710,137	06/029
CALIFORNIA	Kings County	San Joaquin Valley, CA	Nonattainment	Whole	152,982	06/031
CALIFORNIA	Los Angeles County	Los Angeles-South Coast Air Basin, CA	Nonattainment	**Part**	9,438,565	06/037
CALIFORNIA	Madera County	San Joaquin Valley, CA	Nonattainment	Whole	150,865	06/039
CALIFORNIA	Merced County	San Joaquin Valley, CA	Nonattainment	Whole	255,793	06/047
CALIFORNIA	Orange County	Los Angeles-South Coast Air Basin, CA	Nonattainment	Whole	3,010,232	06/059
CALIFORNIA	Plumas County	Plumas County, CA	Nonattainment	**Part**	5,843	06/063
CALIFORNIA	Riverside County	Los Angeles-South Coast Air Basin, CA	Nonattainment	**Part**	1,740,819	06/065
CALIFORNIA	San Bernardino County	Los Angeles-South Coast Air Basin, CA	Nonattainment	**Part**	1,526,626	06/071
CALIFORNIA	San Joaquin County	San Joaquin Valley, CA	Nonattainment	Whole	685,306	06/077
CALIFORNIA	Stanislaus County	San Joaquin Valley, CA	Nonattainment	Whole	514,453	06/099
CALIFORNIA	Tulare County	San Joaquin Valley, CA	Nonattainment	Whole	442,179	06/107
IDAHO	Shoshone County	West Silver Valley, ID	Nonattainment	**Part**	7,497	16/079
OHIO	Cuyahoga County	Cleveland, OH	Maintenance	Whole	1,280,122	39/035
OHIO	Lorain County	Cleveland, OH	Maintenance	Whole	301,356	39/093
PENNSYLVANIA	Allegheny County	Allegheny County, PA	Nonattainment	Whole	1,223,348	42/003
PENNSYLVANIA	Delaware County	Delaware County, PA	Maintenance	Whole	558,979	42/045
PENNSYLVANIA	Lebanon County	Lebanon County, PA	Maintenance	Whole	133,568	42/075

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PM-10 (1987) Designated Areas by State/County/Area

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State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
ALASKA	Anchorage Municipality	Eagle River, AK	Maintenance	Part	219,193	02/020
ALASKA	Juneau City and Borough	Juneau, AK	Maintenance	Part	14,030	02/110
ARIZONA	Cochise County	Paul Spur/Douglas (Cochise County), AZ	Nonattainment	**Part**	17,495	04/003
ARIZONA	Gila County	Hayden, AZ	Nonattainment	**Part**	1,587	04/007
ARIZONA	Gila County	Miami, AZ	Nonattainment	**Part**	15,218	04/007
ARIZONA	Gila County	Payson, AZ	Maintenance	**Part**	5,333	04/007
ARIZONA	Maricopa County	Phoenix, AZ	Nonattainment	**Part**	3,817,145	04/013
ARIZONA	Mohave County	Mohave Co, AZ	Maintenance	**Part**	10,710	04/015
ARIZONA	Pima County	Ajo (Pima County), AZ	Nonattainment	**Part**	8,823	04/019
ARIZONA	Pima County	Rillito, AZ	Nonattainment	**Part**	588	04/019
ARIZONA	Pinal County	Hayden, AZ	Nonattainment	**Part**	9,461	04/021
ARIZONA	Pinal County	Miami, AZ	Nonattainment	Part	0	04/021
ARIZONA	Pinal County	Phoenix, AZ	Nonattainment	**Part**	35,840	04/021
ARIZONA	Pinal County	West Pinal, AZ	Nonattainment	**Part**	283,032	04/021
ARIZONA	Santa Cruz County	Nogales, AZ	Nonattainment	**Part**	30,359	04/023
ARIZONA	Yuma County	Yuma, AZ	Nonattainment	**Part**	100,710	04/027
CALIFORNIA	Fresno County	San Joaquin Valley Air Basin, CA	Maintenance	Whole	930,450	06/019
CALIFORNIA	Imperial County	Imperial Valley, CA	Nonattainment	**Part**	146,905	06/025
CALIFORNIA	Inyo County	Coso Junction, CA	Maintenance	Part	7,333	06/027
CALIFORNIA	Inyo County	Owens Valley, CA	Nonattainment	Part	7,333	06/027
CALIFORNIA	Kern County	East Kern Co, CA	Nonattainment	**Part**	125,950	06/029
CALIFORNIA	Kern County	Indian Wells, CA	Maintenance	Part	15,449	06/029
CALIFORNIA	Kern County	San Joaquin Valley Air Basin, CA	Maintenance	**Part**	698,229	06/029
CALIFORNIA	Kings County	San Joaquin Valley Air Basin, CA	Maintenance	Whole	152,982	06/031
CALIFORNIA	Los Angeles County	Los Angeles South Coast Air Basin, CA	Maintenance	**Part**	9,512,219	06/037
CALIFORNIA	Madera County	San Joaquin Valley Air Basin, CA	Maintenance	Whole	150,865	06/039
CALIFORNIA	Merced County	San Joaquin Valley Air Basin, CA	Maintenance	Whole	255,793	06/047

State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
CALIFORNIA	Mono County	Mammoth Lake, CA	Maintenance	**Part**	7,133	06/051
CALIFORNIA	Mono County	Mono Basin, CA	Nonattainment	Part	285	06/051
CALIFORNIA	Orange County	Los Angeles South Coast Air Basin, CA	Maintenance	Whole	3,010,232	06/059
CALIFORNIA	Riverside County	Coachella Valley, CA	Nonattainment	Part	257,794	06/065
CALIFORNIA	Riverside County	Los Angeles South Coast Air Basin, CA	Maintenance	**Part**	1,692,996	06/065
CALIFORNIA	Sacramento County	Sacramento Co, CA	Maintenance	Whole	1,418,788	06/067
CALIFORNIA	San Bernardino County	Los Angeles South Coast Air Basin, CA	Maintenance	**Part**	1,583,687	06/071
CALIFORNIA	San Bernardino County	San Bernardino Co, CA	Nonattainment	**Part**	237,418	06/071
CALIFORNIA	San Bernardino County	Trona, CA	Nonattainment	Part	4,167	06/071
CALIFORNIA	San Joaquin County	San Joaquin Valley Air Basin, CA	Maintenance	Whole	685,306	06/077
CALIFORNIA	Stanislaus County	San Joaquin Valley Air Basin, CA	Maintenance	Whole	514,453	06/099
CALIFORNIA	Tulare County	San Joaquin Valley Air Basin, CA	Maintenance	Whole	442,179	06/107
COLORADO	Adams County	Denver Metro, CO	Maintenance	**Part**	432,838	08/001
COLORADO	Arapahoe County	Denver Metro, CO	Maintenance	**Part**	567,075	08/005
COLORADO	Archuleta County	Pagosa Springs, CO	Maintenance	**Part**	2,261	08/007
COLORADO	Boulder County	Denver Metro, CO	Maintenance	**Part**	294,556	08/013
COLORADO	Broomfield County	Denver Metro, CO	Maintenance	Whole	55,889	08/014
COLORADO	Denver County	Denver Metro, CO	Maintenance	Whole	600,158	08/031
COLORADO	Douglas County	Denver Metro, CO	Maintenance	Whole	285,465	08/035
COLORADO	Fremont County	Canon City, CO	Maintenance	**Part**	18,860	08/043
COLORADO	Jefferson County	Denver Metro, CO	Maintenance	Whole	534,543	08/059
COLORADO	Pitkin County	Aspen, CO	Maintenance	**Part**	6,772	08/097
COLORADO	Prowers County	Lamar, CO	Maintenance	Part	7,523	08/099
COLORADO	Routt County	Steamboat Springs, CO	Maintenance	**Part**	12,088	08/107
COLORADO	San Miguel County	Telluride, CO	Maintenance	**Part**	2,014	08/113

State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
CONNECTICUT	New Haven County	New Haven Co, CT	Maintenance	Part	129,779	09/009
IDAHO	Ada County	Boise-Northern Ada County, ID	Maintenance	**Part**	240,254	16/001
IDAHO	Bannock County	Fort Hall Indian Reservation	Nonattainment	**Part**	315	16/005
IDAHO	Bannock County	Portneuf Valley, ID	Maintenance	**Part**	65,778	16/005
IDAHO	Bonner County	Bonner Co (Sandpoint), ID	Maintenance	**Part**	40,876	16/017
IDAHO	Power County	Fort Hall Indian Reservation	Nonattainment	**Part**	276	16/077
IDAHO	Power County	Portneuf Valley, ID	Maintenance	**Part**	6,618	16/077
IDAHO	Shoshone County	Pinehurst, ID	Maintenance	Part	1,578	16/079
IDAHO	Shoshone County	Shoshone Co, ID	Maintenance	**Part**	9,691	16/079
ILLINOIS	Cook County	Lyons Twsp., IL	Maintenance	Part	111,688	17/031
ILLINOIS	Cook County	Southeast Chicago, IL	Maintenance	**Part**	3,117	17/031
ILLINOIS	LaSalle County	Oglesby, IL	Maintenance	**Part**	3,862	17/099
ILLINOIS	Madison County	Granite City, Nameoki Twsp, IL	Maintenance	Part	35,652	17/119
INDIANA	Lake County	East Chicago, IN	Maintenance	Part	214,867	18/089
INDIANA	Vermillion County	Vermillion Co, IN	Maintenance	**Part**	9,119	18/165
MAINE	Aroostook County	Presque Isle, ME	Maintenance	Part	972	23/003
MICHIGAN	Wayne County	Wayne Co, MI	Maintenance	**Part**	713,777	26/163
MINNESOTA	Olmsted County	Olmsted Co, MN	Maintenance	**Part**	96,199	27/109
MINNESOTA	Ramsey County	Ramsey Co, MN	Maintenance	**Part**	284,783	27/123
MONTANA	Flathead County	Columbia Falls, MT	Nonattainment	**Part**	4,610	30/029
MONTANA	Flathead County	Flathead County; Whitefish and vicinity, MT	Nonattainment	**Part**	6,138	30/029
MONTANA	Flathead County	Kalispell, MT	Nonattainment	**Part**	18,422	30/029
MONTANA	Lake County	Polson, MT	Nonattainment	Part	4,099	30/047
MONTANA	Lake County	Ronan, MT	Nonattainment	Part	2,734	30/047
MONTANA	Lincoln County	Libby, MT	Nonattainment	**Part**	3,378	30/053
MONTANA	Missoula County	Missoula, MT	Maintenance	**Part**	59,733	30/063
MONTANA	Rosebud County	Lame Deer, MT	Nonattainment	Part	527	30/087
MONTANA	Sanders County	Sanders County (part); Thompson Falls and vicinity, MT	Nonattainment	**Part**	1,317	30/089

State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
MONTANA	Silver Bow County	Butte, MT	Nonattainment	**Part**	34,201	30/093
NEVADA	Clark County	Clark Co, NV	Maintenance	Part	1,951,248	32/003
NEVADA	Washoe County	Washoe Co, NV	Maintenance	Part	421,404	32/031
NEW MEXICO	Dona Ana County	Anthony, NM	Nonattainment	**Part**	3,096	35/013
NEW YORK	New York County	New York Co, NY	Nonattainment	Whole	1,585,873	36/061
OHIO	Cuyahoga County	Cuyahoga Co, OH	Maintenance	Whole	1,280,122	39/035
OHIO	Jefferson County	Jefferson Co, OH	Maintenance	**Part**	3,472	39/081
OREGON	Jackson County	Medford-Ashland, OR	Maintenance	**Part**	87,458	41/029
OREGON	Josephine County	Grants Pass, OR	Maintenance	Part	22,449	41/033
OREGON	Klamath County	Klamath Falls, OR	Maintenance	Part	20,703	41/035
OREGON	Lake County	Lake Co, OR	Maintenance	Part	3,296	41/037
OREGON	Lane County	Eugene-Springfield, OR	Maintenance	Part	195,160	41/039
OREGON	Lane County	Lane Co, OR	Nonattainment	Part	3,728	41/039
OREGON	Union County	LaGrande, OR	Maintenance	Part	13,094	41/061
PENNSYLVANIA	Allegheny County	Clairton & 4 Boroughs, PA	Maintenance	**Part**	18,700	42/003
PUERTO RICO	Guaynabo Municipio	Mun. of Guaynabo, PR	Maintenance	Part	90,470	72/061
TEXAS	El Paso County	El Paso Co, TX	Nonattainment	Part	649,121	48/141
UTAH	Salt Lake County	Salt Lake Co, UT	Nonattainment	Whole	1,029,655	49/035
UTAH	Utah County	Utah Co, UT	Nonattainment	Whole	516,564	49/049
UTAH	Weber County	Ogden, UT	Nonattainment	Part	82,825	49/057
WASHINGTON	King County	Kent, WA	Maintenance	**Part**	47,315	53/033
WASHINGTON	King County	King Co, WA	Maintenance	**Part**	661,062	53/033
WASHINGTON	Pierce County	Pierce Co, WA	Maintenance	**Part**	238,725	53/053
WASHINGTON	Spokane County	Spokane Co, WA	Maintenance	**Part**	230,807	53/063
WASHINGTON	Thurston County	Olympia, Tumwater, Lacey, WA	Maintenance	Part	98,562	53/067
WASHINGTON	Walla Walla County	Wallula, WA	Maintenance	Part	426	53/071
WASHINGTON	Yakima County	Yakima Co, WA	Maintenance	**Part**	69,565	53/077
WEST VIRGINIA	Brooke County	Follansbee, WV	Maintenance	**Part**	2,674	54/009
WEST VIRGINIA	Brooke County	Weirton, WV	Maintenance	Part	4,621	54/009
WEST VIRGINIA	Hancock County	Weirton, WV	Maintenance	Part	9,578	54/029

State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
WYOMING	Sheridan County	Sheridan, WY	Maintenance	Part	17,300	56/033

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Sulfur Dioxide (2010) Designated Areas by State/County/Area

Data is current as of November 30, 2019

Click underlined column heading to change report order

State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
ARIZONA	Gila County	Hayden, AZ	Nonattainment	**Part**	1,284	04/007
ARIZONA	Gila County	Miami, AZ	Nonattainment	**Part**	14,995	04/007
ARIZONA	Pinal County	Hayden, AZ	Nonattainment	**Part**	3,346	04/021
FLORIDA	Hillsborough County	Hillsborough County, FL	Nonattainment	**Part**	17,477	12/057
FLORIDA	Hillsborough County	Hillsborough-Polk County, FL	Nonattainment	Part	2,054	12/057
FLORIDA	Nassau County	Nassau County, FL	Maintenance	**Part**	6,217	12/089
FLORIDA	Polk County	Hillsborough-Polk County, FL	Nonattainment	**Part**	137	12/105
GUAM	Guam	Piti-Cabras, GU	Nonattainment	**Part**	6,116	66/010
ILLINOIS	Cook County	Lemont, IL	Nonattainment	Part	21,113	17/031
ILLINOIS	Madison County	Alton Township, IL	Nonattainment	**Part**	0	17/119
ILLINOIS	Peoria County	Pekin, IL	Nonattainment	Part	1,881	17/143
ILLINOIS	Tazewell County	Pekin, IL	Nonattainment	Part	39,313	17/179
ILLINOIS	Will County	Lemont, IL	Nonattainment	Part	147,803	17/197
INDIANA	Daviess County	Southwest Indiana, IN	Nonattainment	Part	1,095	18/027
INDIANA	Huntington County	Huntington, IN	Nonattainment	Part	20,838	18/069
INDIANA	Marion County	Indianapolis, IN	Nonattainment	Part	388,587	18/097
INDIANA	Morgan County	Morgan County, IN	Nonattainment	Part	21,365	18/109
INDIANA	Pike County	Southwest Indiana, IN	Nonattainment	Part	4,460	18/125
INDIANA	Vigo County	Terre Haute, IN	Maintenance	Part	53,902	18/167
IOWA	Muscatine County	Muscatine, IA	Nonattainment	**Part**	30,329	19/139
KENTUCKY	Campbell County	Campbell-Clermont Counties, KY-OH	Maintenance	**Part**	17,571	21/037
KENTUCKY	Jefferson County	Jefferson County, KY	Nonattainment	**Part**	3,185	21/111
LOUISIANA	Evangeline Parish	Evangeline Parish (Partial), LA	Nonattainment	**Part**	124	22/039
LOUISIANA	St. Bernard Parish	St. Bernard Parish, LA	Nonattainment	Whole	35,897	22/087

State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
MARYLAND	Anne Arundel County	Anne Arundel County and Baltimore County, MD	Nonattainment	**Part**	479,620	24/003
MARYLAND	Baltimore County	Anne Arundel County and Baltimore County, MD	Nonattainment	**Part**	510,713	24/005
MICHIGAN	St. Clair County	St. Clair, MI	Nonattainment	**Part**	52,102	26/147
MICHIGAN	Wayne County	Detroit, MI	Nonattainment	**Part**	254,079	26/163
MISSOURI	Jackson County	Jackson County, MO	Nonattainment	**Part**	57,293	29/095
MISSOURI	Jefferson County	Jefferson County, MO	Nonattainment	**Part**	61,933	29/099
MONTANA	Yellowstone County	Billings, MT	Maintenance	**Part**	2,621	30/111
NEW HAMPSHIRE	Hillsborough County	Central New Hampshire, NH	Maintenance	Part	17,651	33/011
NEW HAMPSHIRE	Merrimack County	Central New Hampshire, NH	Maintenance	**Part**	94,372	33/013
NEW HAMPSHIRE	Rockingham County	Central New Hampshire, NH	Maintenance	Part	12,430	33/015
OHIO	Clermont County	Campbell-Clermont Counties, KY-OH	Maintenance	**Part**	14,349	39/025
OHIO	Jefferson County	Steubenville, OH-WV	Maintenance	**Part**	38,854	39/081
OHIO	Lake County	Lake County, OH	Maintenance	Whole	230,041	39/085
OHIO	Morgan County	Muskingum River, OH	Nonattainment	Part	743	39/115
OHIO	Washington County	Muskingum River, OH	Nonattainment	Part	3,713	39/167
PENNSYLVANIA	Allegheny County	Allegheny, PA	Nonattainment	**Part**	126,934	42/003
PENNSYLVANIA	Armstrong County	Indiana, PA	Nonattainment	**Part**	3,898	42/005
PENNSYLVANIA	Beaver County	Beaver, PA	Nonattainment	**Part**	14,780	42/007
PENNSYLVANIA	Indiana County	Indiana, PA	Nonattainment	Whole	88,880	42/063
PENNSYLVANIA	Warren County	Warren, PA	Nonattainment	**Part**	18,056	42/123
PUERTO RICO	Bayamon Municipio	San Juan, PR	Nonattainment	Part	22,921	72/021
PUERTO RICO	Catano Municipio	San Juan, PR	Nonattainment	Whole	28,140	72/033
PUERTO RICO	Guaynabo Municipio	San Juan, PR	Nonattainment	Part	23,802	72/061
PUERTO RICO	Salinas Municipio	Guayama-Salinas, PR	Nonattainment	Part	23,401	72/123
PUERTO RICO	San Juan Municipio	San Juan, PR	Nonattainment	Part	147,963	72/127
PUERTO RICO	Toa Baja Municipio	San Juan, PR	Nonattainment	Part	52,441	72/137

State	County	Area Name	Current Status	County NA Whole/Part click link for partial county description	2010 Population whole or partial county population	State/ County FIPS
TENNESSEE	Sullivan County	Sullivan County, TN	Nonattainment	**Part**	15,289	47/163
TEXAS	Anderson County	Freestone and Anderson Counties, TX	Nonattainment	**Part**	7	48/001
TEXAS	Freestone County	Freestone and Anderson Counties, TX	Nonattainment	**Part**	4,087	48/161
TEXAS	Panola County	Rusk and Panola Counties, TX	Nonattainment	**Part**	24	48/365
TEXAS	Rusk County	Rusk and Panola Counties, TX	Nonattainment	**Part**	1,656	48/401
TEXAS	Titus County	Titus County, TX	Nonattainment	**Part**	211	48/449
WEST VIRGINIA	Brooke County	Steubenville, OH-WV	Nonattainment	**Part**	19,413	54/009
WEST VIRGINIA	Marshall County	Marshall, WV	Nonattainment	**Part**	20,365	54/051
WISCONSIN	Oneida County	Rhinelander, WI	Nonattainment	**Part**	18,054	55/085

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Nitrogen Dioxide (1971) Designated Area/State Information

Data is current as of November 30, 2019

Display: ◉ Nonattainment and Maintenance Areas ○ Nonattainment Areas ○ Maintenance Areas

Area Name	State	Current Status	Current Classification or at Redesignation	No. Counties	2010 Population	EPA Region
Click underlined column heading to change report order. click area name for state/county list			click for Classification history			
Los Angeles-South Coast Air Basin, CA	CA	Maintenance	Primary	4	15,799,134	09

	Total Areas	Total Counties	Total Population (2010)
Nonattainment	0	0	0
Maintenance	1	4	15,799,134
Nonattainment and Maintenance	1	4	15,799,134

County subtotals and grand totals may not equal sum of the counties. Part counties are only counted one time within groupings. Multi-state areas are counted only once in area totals, and are counted in maintenance totals when all states in the area have been redesignated.

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EXHIBIT 4

PBR HAWAII
& ASSOCIATES, INC.

CORRESPONDENCE RECORD

THOMAS S. WITTEN, FASLA
Chairman / Principal

R. STAN DUNCAN, ASLA
President / Principal

RUSSELL Y. J. CHUNG, FASLA, LEED® AP BD+C
Executive Vice-President / Principal

VINCENT SHIGEKUNI
Senior Vice-President / Principal

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Vice-President / Principal

TOM SCHNELL, AICP
Principal

KIMI MIKAMI YUEN, LEED® AP BD+C
Principal

W. FRANK BRANDT, FASLA
Chairman Emeritus

ANN MIKIKO BOUSLOG, PhD
Project Director

RAMSAY R. M. TAUM
Cultural Sustainability Planner

RAYMOND T. HIGA, ASLA
Senior Associate

CATIE CULLISON, AICP
Senior Associate

MARC SHIMATSU, ASLA
Senior Associate

DACHENG DONG, LEED® AP
Senior Associate

MICAH McMILLEN, ASLA, LEED® AP
Associate

NATHALIE RAZO
Associate

GRACE ZHENG, ASLA, LEED® GA, SITES® AP
Associate

BRIAN WOLF, ASLA, LEED® AP
Associate

DATE: February 5, 2019

WITH: John Nakagawa /Hawai'i State Office of Planning, Coastal Zone Management Program

WHEN: February 5, 2019

DISTRIBUTION: File

BY: Jeff Seastrom / PBR HAWAII

SUBJECT: Federal Consistency Review of HUD-Funded Projects

1. The purpose of the phone call was to confirm the Hawai'i Coastal Zone Management Program does not review HUD-Funded Projects for Federal Consistency, as described in the attached letter from the Office of Planning dated June 24, 2004.

2. I confirmed with John Nakagawa, CZM staff that the policy stands. He also referred me to the National Oceanic and Atmospheric Administration (NOAA) website to review State Federal Consistency Lists for the types of federal funding the CZM staff does review at the link below:
https://coast.noaa.gov/czm/consistency/states/

This is our understanding of the topics discussed and the conclusions reached. Please give PBR HAWAII written notification of any errors or omissions within seven calendar days. Otherwise, this report will be deemed an accurate record and directive.

O:\Job20\2023.06 Mayor Wright Homes NEPA EIS\Correspondence\CZM\20190205_OP_CZM_CORRESPONDENCE RECORD.docx

HONOLULU OFFICE
1001 Bishop Street, Suite 650
Honolulu, Hawai'i 96813-3484
Tel: (808) 521-5631
Fax: (808) 523-1402
E-mail: sysadmin@pbrhawaii.com

printed on recycled paper

LINDA LINGLE
GOVERNOR
THEODORE E. LIU
DIRECTOR
STEVE BRETSCHNEIDER
DEPUTY DIRECTOR
MARY LOU KOBAYASHI
ADMINISTRATOR
OFFICE OF PLANNING

DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

OFFICE OF PLANNING

235 South Beretania Street, 6th Floor, Honolulu, Hawaii 96813
Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804

Telephone: (808) 587-2846
Fax: (808) 587-2824

Ref. No. P-10520

June 24, 2004

Mr. Gordan Y. Furutani, Field Office Director
U.S. Department of Housing and Urban Development
Hawaii State Field Office
500 Ala Moana Boulevard, Suite 3A
Honolulu, Hawaii 96813

Dear Mr. Furutani:

Subject: Hawaii Coastal Zone Management (CZM) Program Federal Consistency Requirements for U.S. Department of Housing and Urban Development (HUD) Grant Programs

We have recently revised the Hawaii CZM Program list of federal assistance programs that require CZM federal consistency review by our office. We no longer review any HUD assistance programs, including Community Development Block Grants, and housing programs such as the Public Housing Capital Fund. Applicants for HUD assistance are no longer required to obtain CZM federal consistency approval for HUD assisted activities. Other CZM regulations such as the Special Management Area and Shoreline Setback provisions which are administered by the Counties, are still valid and may apply to HUD assisted projects. Each County Planning Department should be consulted for the applicability of Special Management Area and Shoreline Setback Area requirements. We suggest that the environmental checklist that applicants for HUD assistance must complete be modified to reflect the change in CZM requirements.

Thank you for your cooperation in ensuring compliance with Hawaii's CZM Program. If you have any questions, please contact John Nakagawa at 587-2878 or Debra Tom at 587-2840, of our CZM Program.

Sincerely,

Mary Lou Kobayashi

Mary Lou Kobayashi
Administrator

EXHIBIT 5

PHASE I ENVIRONMENTAL SITE ASSESSMENT
1020 LILIHA STREET
HONOLULU, HAWAII 96817

Prepared for

HUNT COMPANIES
737 Bishop Street, Suite 2750
Honolulu, HI 96813

Prepared by

WESTON SOLUTIONS, INC.
841 Bishop Street Suite 2301
Honolulu, Hawaii 96813
808-275-2900 • Fax 808-585-7378

Lisa Waskom
Senior Project Manager

Pamela B. Marshall
Senior Technical Reviewer
Environmental Professional

July 2016

W.O. No. 15350.002.016.1000

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SUMMARY

Weston Solutions, Inc. (WESTON®) conducted a Phase I Environmental Site Assessment (ESA) of the property located at 1020 Liliha Street Honolulu, Hawaii. The ESA was conducted in general accordance with the approved proposal dated 23 May 2016, *40 Code of Federal Regulations (CFR) Part 312 – Standards and Practices for All Appropriate Inquiries (AAI)*, and American Society for Testing and Materials (ASTM) International – *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process E1527-13* (ASTM, 2013). Any exceptions to, or deletions from, this practice are described in **Section 5** of this report.

The Phase I ESA site visit was performed on 15 June 2016, by Lisa Waskom and Stacey Gray (WESTON). The subject property is located at 1020 Liliha Street and measures approximately 14.8 acres in size. The owner of the property is Hawaii Public Housing Authority (HPHA).

The property is developed with 35 multi-story buildings containing multi-family housing. The current housing units have been located the subject property since the early 1950s. A review of the Sanborn maps indicates the subject property has been developed since at least 1914. On the 1914 Sanborn map, the property was primarily developed with residential and tenement housing. Other notable historical uses for portions of the property include:

- 1914 - Auto painting, Hawaiian Soy Company, candy factory, mattress factory
- 1927, 1950 - Auto storage
- 1950 - Auto repair

No records were available to identify when the property was first developed.

FINDINGS AND OPINIONS

- An auto painting facility is identified on-site on the 1914 Sanborn Map in the southwest corner. A soy manufacturing facility is also present along the northern boundary of the subject property. Due to a lack of information regarding the auto painting operations, this is considered a recognized environmental condition (REC).
- An auto repair facility is identified on-site on the 1950 Sanborn Map along the eastern boundary of the subject property. Due to a lack of operational regarding the auto repair operations, this is considered a REC.

- Aim King Street Shell, a gas station, is located at 666 North King Street, directly adjacent to the west of the subject property. This is located downgradient of the subject property. The site is listed Environmental Data Resources, Inc. (EDR) *The Radius Report* on the Underground Storage Tank (UST), Leaking UST, and Conditionally Exempt Small Quantity Generator (CESQG) databases. This property is also labeled as an auto service and oil and gas storage from 1963 to 1993 on the Sanborn maps. Due to the close proximity and identification as a LUST site, there is a potential for contamination. Therefore, this is considered a REC.
- Auto storage is identified in the central portion of the subject property on the 1927 Sanborn Map and along the northern boundary on the 1927 and 1950 Sanborn Map. Due to a lack of information regarding the auto storage operations, this is considered a REC.
- A dry cleaner, auto repair facility, and oil and gas storage facilities are identified to the west and south of the subject property from 1950 to 1993. This is located down gradient of the subject property. Based on the topographic gradient, this is not considered a REC.
- A large garden was identified on the 1914 Sanborn Map on the eastern portion of the subject property. No information was available about the historic use of pesticide usage for this garden or any other landscaping that has occurred since development in 1914. This is not considered a REC but should be noted as a de minimis condition.
- Staining was identified throughout the parking lots on-site. This is not considered a REC but should be noted as a de minimis condition.

CONCLUSIONS

This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the property except for the following:

- Historical property usage including auto painting, auto repair, and auto storage identified on-site. Lack of information about the above listed operations are considered RECs.
- A gas station is currently located on the western adjacent property. Historically, the property was also used as an auto service facility and had oil and gas storage on-site. This property is identified as a LUST site because of this the property is considered a REC.

The following *de minimis* conditions were noted based on current property use and/or surrounding property uses:

- Potential current and historic pesticide usage on the property since development in 1914.
- Staining identified throughout the parking lots on-site.

This Summary is intended to be a general description of the RECs identified as a result of the Phase I ESA of the subject property conducted by WESTON. However, this section is not

intended to be a "stand alone" document or to include the basis of all conclusions presented. The report should be read and used in its entirety. Information included in this section is subject to the scope of services and limitations noted in the original proposal and the complete report.

1 INTRODUCTION

1.1 SCOPE OF WORK AND PURPOSE

Weston Solutions, Inc. (WESTON®) conducted a Phase I Environmental Site Assessment (ESA) of the property located at 1020 Liliha Street Honolulu, Hawaii. The ESA was conducted in general accordance with the approved proposal dated 23 May 2016, *40 Code of Federal Regulations (CFR) Part 312 – Standards and Practices for All Appropriate Inquiries (AAI)*, and American Society for Testing and Materials (ASTM) International – *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process E1527-13*. The purpose of an ESA is to identify recognized environmental conditions (RECs). *ASTM E1527-13* defines RECs as follows:

> *[…] the presence or likely presence of any hazardous substances or petroleum products in, on or at a property:(1) due to release to the environment (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions.*

A Phase I ESA consists of four general components: (1) a records review, (2) a site reconnaissance, (3) interviews, and (4) a report. The first three are conducted to identify environmental conditions related to the subject property. This Phase I ESA report provides the results of the first three components and fulfills the fourth.

This assessment report contains the results of reconnaissance of the subject property and surrounding properties (dates provided in each section) and a review of property, government, and historical records. Information used to complete this ESA was reasonably ascertainable, and visually and physically observable. This ESA did not include any testing or sampling of materials (e.g., soil, water, sediment, building materials, etc.).

1.2 SPECIAL TERMS AND CONDITIONS

This document has been prepared by WESTON solely for the use and benefit of Hunt Companies and is subject to WESTON Site Assessment Terms and Conditions, which were attached to the proposal dated 23 May 2016. Any use of this document or information herein by persons or entities

other than Hunt Companies, without the express written consent of WESTON, will be at the sole risk and liability of said person or entity, and WESTON will not be liable to Hunt Companies, or such persons or entities, for any damages resulting therefrom. It is understood that this document may not include all information pertaining to the described site.

1.3 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT

ASTM E1527-13 (Section 4.5.1) acknowledges that "No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property." The ESA " [...] is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property, and this practice recognizes reasonable limits of time and cost." Furthermore, the *ASTM E1527-13* (Section 4.5.2) states that "There is a point at which the cost of information obtained or the time required to gather it outweighs the usefulness of the information and, in fact, may be a material detriment to the orderly completion of transactions."

1.4 PERSONNEL PERFORMING ESAS AND QUALIFICATIONS

This ESA was completed by the following team of WESTON personnel, whose qualifications are provided at the end of the report:

- Pamela B. Marshall – Senior Technical Reviewer and Environmental Professional.
- Lisa Waskom, P.G –Project Manager and site reconnaissance.
- Vanessa Trevino. –Research and Report Preparation,

Ms. Marshall, is considered an Environmental Professional as defined by 40 CFR Part 312.10, has undertaken the inquiry as defined in 40 CFR part 312.21 (b), and has supervised the others above during the inquiry. The following is the Environmental Professional certification:

> *I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR Part 312.10 of this part. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquires in conformance with the standards and practices set forth in 40 CFR part 312.*

Pamela B. Marshall
Certifying Environmental Professional (Print)

Senior Technical Reviewer
Title

Signature

7/1/2016
Date

1.5 USER RESPONSIBILITIES

Section 6 of *ASTM E1527-13* outlines the following responsibilities of the user of a Phase I ESA to assist in the identification of potential RECs:

- Communication to the environmental professional, by the user, of information relative to any environmental cleanup liens filed or recorded under federal, tribal, state or local law of which the user is aware. (Section 6.1 and 6.4) *As part of this ESA, WESTON has not been notified of any such liens. WESTON's scope of work did not include a complete review of title information and no chain-of-title information was provided for review.*

- Communication to the environmental professional, by the user, of information relative to any activity and land use limitations (AULs) such as engineering controls, land use restrictions or deed restrictions, etc., that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law of which the user is aware. (Section 6.2) *As part of this ESA, WESTON has not been notified of any such restrictions. WESTON's scope of work did not include a complete review of title information, and no chain-of-title information was provided for review.*

- Communication to the environmental professional, by the user, of any specialized knowledge or experience, or other information that might be material to the identification of RECs. (Section 6.3) *No specialized knowledge or experience was communicated to WESTON with respect to these ESAs.*

- Communication to the environmental professional, by the user, if the user believes the purchase price of the property is lower than the fair market due to contamination. (Section 6.5) *No information regarding the purchase price or fair market value was provided to WESTON.*

- Communication to the environmental professional, by the user, of any commonly known or reasonably ascertainable information within the local community about the property, that is

material to the identification of RECs. (Section 6.6) *No information was communicated to WESTON with respect to these ESAs.*

- Communication to the environmental professional, by the user, of the obviousness of the presence or likely presence or threatened releases at the property of which the user is aware, that might be material to the identification of RECs. (Section 6.7) *No information was communicated to WESTON with respect to these ESAs.*

1.6 DISCLAIMERS

WESTON has performed this Phase I ESA in general conformance with the scope and limitations of the ASTM Standard and subject to the conditions and limitations noted herein and in WESTON's Site Assessment Terms and Conditions, which were included with WESTON'S proposal dated 23 May 2016. The information from the site reconnaissance is based on the conditions existing on the date of WESTON's visit to the property. The findings and conclusions presented herein are professional opinions based solely on visual observations of the facility and vicinity, and interpretation of information provided or reasonably available to WESTON. Past conditions were considered on the basis of observations, readily available records, interviews, and recollections.

WESTON does not warrant or guarantee the correctness, completeness, and/or currentness of the information obtained from third parties contained in the environmental record sources and recollections used for this assessment. Such information is the product of independent investigation by parties other than WESTON and/or information maintained by government agencies.

WESTON did not collect samples or perform any testing during the property visit. It is possible that past contamination remains undiscovered or that property conditions will change in the future. WESTON does not warrant or guarantee the property suitable for any particular purpose or certify the property as "clean."

Detailed asbestos, indoor air quality, lead-based paint, vapor intrusion, occupational health and safety, radon, and wetland surveys were not requested, nor included, as part of this project.

Information, limitations, and disclaimers provided in this general section apply to all of the sections included in the remaining report.

2 PROPERTY DESCRIPTION

2.1 PROPERTY DESCRIPTION, LOCATION, AND PROPERTY HISTORY

Facility Name	Mayor Wright Homes
Address	1020 Liliha Street Honolulu HI
Size of property (acres)	14.845
Latitude/Longitude	21.3200880° 157.8639560°
Site and Vicinity General Characteristics	The subject property is located in a well-developed area.(See **Figure 1**, Property Location Map
Property Description	Site photographs are provided in **Appendix A**.
Size of building(s) (sq ft)	There are 35 buildings present on-site. Specific sizes of the buildings were not provided.
Construction date of building(s)	The buildings were constructed in early 1950.
Renovation dates and description (if applicable)	None provided.
Building(s) description	The multi-story buildings are constructed of concrete and wood siding.
No. of employees	20 full time
Owned or leased	Owned by the HPHA (EDR, 2016f)
Current property operations	The property is a multi-family residential property. (See **Figure 3**, Property Layout Map)
Date current operations commenced at facility	In early 1950s
Legal description	Unavailable

Summary of current and previous property uses, and dates of operation		
Based on a review of available records including Sanborn Maps, topographic maps, aerial photos, the current and previous uses and owners (if known) of the subject property are as follows:		
Start	**End**	**Description**
1952 - present		The subject property is identified as Mayor Wright Homes which is multi-family residential housing.
1914 – 1950		The subject property is developed with mostly residential properties. Some commercial stores are identified along the southern boundary (N King St.).

2.2 SURROUNDING PROPERTIES

Surrounding properties are shown on **Figure 2**. Site photographs are provided in **Appendix A**. A summary of the surrounding properties as observed during the 15 June 2016 site reconnaissance is provided in the table below.

Direction	Description
North	Pualane St. borders the property on the north with residential properties beyond.
East	Aldersgate Methodist Church and Agamata Building (retail businesses) at the corner of Wineyard Blvd and Lilha St Mechanic Shop, Restaurant, and Apartments Waena Housing is located east and south across Liliha St.
South	Residential
West	Along N. King Street are gas stations, Apartments, a used car lot, and Jiffy Lube

3 RECORDS REVIEW

3.1 PREVIOUSLY PREPARED ENVIRONMENTAL REPORTS

No previously prepared environmental reports for the subject property were provided for review.

3.2 STANDARD ENVIRONMENTAL RECORD SOURCES

For the subject property, WESTON relied on the following reports provided by Environmental Data Resources, Inc. (EDR) for information:

- *The EDR Radius Map™ Report with GeoCheck® (The Radius Report)* – An electronic search of the standard environmental record sources. This report contains certain information obtained from a variety of public and other sources reasonable available to EDR. The Orphan Summary contains a those sites that could not be mapped due to insufficient addresses. The *GeoCheck* portion of *The Radius Report* provides general soil, groundwater and geology information for the subject property and surrounding properties. A copy of the report is provided as **Appendix B**.
- *The EDR Aerial Photo Decade Package* – Aerial photographs are provided for the subject property and are included in **Appendix C**.
- *EDR Historical Topo Map Report* – Topographic maps are provided for the subject property and are included in **Appendix D**.
- *The EDR-City Directory Image Report* – The report is generally a summary of information from city directories reviewed at approximately 5-year intervals. A copy of the city directory report is provided as **Appendix E**.
- *Certified Sanborn® Map Report* – Sanborn maps were provided for the subject property and are provided as **Appendix F**.
- *Chain of Ownership Report* – A chain of ownership report was not obtained as part of the scope of work for this ESA.
- *EDR Environmental Lien and AUL Search* – As part of the records search, EDR provides a search for environmental liens. A copy of the lien search report is provided as **Appendix G**.
- *The EDR Property Tax Map Report* – As part of the records search, EDR provides a search for property taxes. A copy of the property tax map report is provided in **Appendix H**.
- *EDR Building Permit Report* – As part of the records search, EDR provides a search for building permits. A copy of the building permit report is provided in **Appendix H.**

3.2.1 The Radius Report

The Radius Report did not identify the subject property on the databases searched.

The Radius Report identified the following sites near the subject property:

- Four Superfund Enterprise Management System (SEMS) sites within 1/2-mile radius.
- Two SEMS-Archive sites within 1/2-mile radius.
- One Corrective Action Report (CORRACTS) site within 1-mile radius.
- Seven Resource Conservation and Recovery Act (RCRA) Conditionally Exempt Small Quantity Generator (CESQG) within 1/4-mile radius.
- Seventy four Hawaii (HI) SHWS sites within 1-mile radius.
- Thirty eight HI Leaking Underground Storage Tank (LUST) sites within 1/2-mile radius.
- Twenty four HI Underground Storage Tank (UST) sites withing 1/4-mile radius.
- Twelve HI Engineering (ENG) Controls sites within 1/2-mile radius.
- Four HI Voluntary Cleanup Program (VCP) sites within 1/2-mile radius.
- Six RCRA NonGen/NLR sites within 1/4-mile radius.
- One Formerly Used Defense Sites (FUDS) within 1-mile radius.
- One Department of Defense (DOD) site within 1/2-mile radius.
- One Fuels Program site within 1/4-mile radius.
- Two EDR Manufactured Gas Plants (MGP) sites within 1-mile radius.
- Eight EDR Hist Auto sites within 1/8-mile radius.
- One EDR Hist Cleaner site within 1/8-mile radius.

Included below are details for the nearby sites that WESTON believes could have potential environmental impacts to the subject property. A figure showing the locations of the sites is provided in **Appendix B**.

Property	Map ID	Address	Approx. Distance (Miles)	Relative Elevation	Database	Summary of Information from EDR Report (Appendix B)
Showroom Industrial Cleaning	B3	607 N King St	< 1/8 WSW	Higher	EDR Hist Cleaner	Showroom Industrial Cleaning 2008-2009
Pats Auto Electric	4	574 N Vineyard Blvd	<1/8 ENE	Higher	EDR Hist Auto	Pats Auto Electric 2010 – 2012

Property	Map ID	Address	Approx. Distance (Miles)	Relative Elevation	Database	Summary of Information from EDR Report (Appendix B)
Aim King Street Shell	B5	666 N King St	<1/8 W	Higher	CESQG HI LUST HI UST HI Financial Assurance	CESQG: Wastes identified as ignitable waste and benzene. No violations are identified. LUST: Facility ID: 9-101026 – Site Cleanup Completed (NFA) for Release ID 080030 on 7/8/2011, Release ID 030030 on 11/7/2003, and Release ID 020033 on 11/1/2002. UST: Facility ID: 9-101026 Two 10,000-gallon gasohol tanks installed 4/18/1984 that are listed as currently in use. One 10,000-gallon diesel tank installed 4/18/1984 that is listed as currently in use.
Kingsgate Plaza	A7	516 Dillingham Blvd	<1/8 SW	Lower	HI LUST HI UST	LUST: Facility ID: 9-102172 – Site Cleanup Completed (NFA) for Release ID 900030 on 3/15/1995. UST: Facility ID 9-102172 Three 1,000-gallon tanks listed as permanently out of use. One 2,000-gallon tank listed as permanently out of use. One 6,000-gallon tank listed as permanently out of use. One 10,000-gallon tank listed as permanently out of use.
--	C8	999 Robello Ln	<1/8 WNW	Higher	EDR Hist Auto	Aloha Auto Air Condtnng Spclist – 2001
--	C14	743 N King St	<1/8 WNW	Higher	EDR Hist Auto	JP Chevron – 2001 – 2009 Toms Chevron 2010 – 2012
Chevron 99080	C15	743 N King St	<1/8 WNW	Higher	RCRA-CESQG	EPA ID HIR000137000 Facility is listed as a conditionally exempt small quantity generator for benzene. No violations were found in association with the property.
--	D21	580 Dillingham Blvd	<1/8 SW	Higher	EDR Hist Auto	Auto Deatai Shop – 2006

Property	Map ID	Address	Approx. Distance (Miles)	Relative Elevation	Database	Summary of Information from EDR Report (Appendix B)
Yick Lung Co., Inc.	D22	580 Dillingham Blvd	<1/8 SW	Higher	HI LUST HI UST	Facility ID 9-101500 LUST: Site cleanup completed as of 11/17/1993.
--	F23	963 Robello LN	<1/8 W	Higher	EDR Hist Auto	Zaks Auto & Repair – 2001, 2007 – 2008 DG Auto Repair – 2002 Mr. Motor Service – 2003 – 2005, and 2009

3.2.2 Orphan Sites Summary

The Orphan Sites summary included in *The Radius Report* is a listing of sites that could not be mapped by EDR due to insufficient addresses. WESTON attempted to locate the orphan sites using internet-based mapping programs. WESTON has not identified any sites that appear to be located within an approximately 1/2-mile radius of the subject property.

3.2.3 Water and Oil/Gas Well Summary

Information regarding area water wells, which includes water supply wells, groundwater monitoring wells, as well as oil and natural gas wells, is provided in *The Radius Report* and shown on the Physical Setting Source Map, included as **Appendix B**. No wells were identified on the subject property. The wells reported within 1/4-mile of the subject property were listed as irrigation wells or abandoned wells.

3.2.4 Physical Setting

Setting	Description
Topography	The subject property is generally flat. According to *The Radius Report*, the elevation of the subject property is approximately 10 feet above mean sea level, and the general topographic gradient is to the general west-southwest direction (EDR 2016a).
Soil	According to *The Radius Report*, the dominant surficial soil component in the vicinity of the subject property is Ewa. Ewa soil is characterized by a silty clay loam texture with moderate infiltration rates. The soils are moderately well to well drained with a moderately coarse texture.

Setting	Description
Geology	The Honolulu Harbor complex is located within the narrow coastal plain of Oahu's south central coast, geologically referred to as the Honolulu Plain. The Honolulu Plain and much of the rest of the southern edge of Oahu is underlain by a broad elevated coral reef, covered by alluvium carried out from the mountains. The coral reef rocks were deposited during prehistoric time when the sea level was higher.
Groundwater and Vapor Migration Potential	No site specific groundwater data was available.
Wetlands	No potential wetland areas were observed on the subject property during the site reconnaissance. *The Radius Report* identified wetland areas within approximately 1/2-mile south of the subject property.
Surface Water	According to *The Radius Report*, the subject property is not located within a floodplain. A 100-year floodplain is identified approximately 1/2-mile east of the subject property (EDR, 2016a). No surface water bodies are present on the subject property.

3.2.5 Aerial Photograph Review

Aerial photographs were provided by EDR (EDR, 2016b). Copies of the aerial photographs are included in **Appendix C**. The review is summarized below:

Year	Source	Description
1952	USGS	Subject Property: The subject property is developed with numerous buildings. The development appears to be a multi-family development. Surrounding Properties: The area surrounding the property is densely developed. The buildings appear to be mostly residential with some commercial/industrial buildings. Streets are present to the west, east, and south of the subject property. A canal is present a few blocks to the north.
1968	USGS	Subject Property: No significant changes have occurred since the previous aerial photograph. Surrounding Properties: The property to the south that was previously developed is now cleared. A large roadway now present a block to the east. Commercial/industrial type buildings are visible west and southwest.

Year	Source	Description
1976	USGS	Subject Property: No significant changes have occurred since the previous aerial photograph. Surrounding Properties: The property to the south is now developed with what appears to be a multi-family development.
1978	USGS	Subject Property: No significant changes have occurred since the previous aerial photograph. Surrounding Properties: No significant changes have occurred since the previous aerial photograph.
1985	USGS	Subject Property: No significant changes have occurred since the previous aerial photograph. Surrounding Properties: The areas southwest and west (west of N. King St.) are densely developed with industrial buildings.
2004	USGS	Subject Property: No significant changes have occurred since the previous aerial photograph. Surrounding Properties: No significant changes have occurred since the previous aerial photograph.
2008	USGS	Subject Property: No significant changes have occurred since the previous aerial photograph. Surrounding Properties: No significant changes have occurred since the previous aerial photograph.

3.2.6 Topographic Map Review

Topographic maps were provided by EDR (EDR, 2016c). Copies of the topographic maps are included in **Appendix D**. The topographic maps were reviewed to evaluate development on the subject property and adjacent properties. The review is summarized below:

Year	Description
1953	Subject Property: A road runs northwest to southeast through the center of the subject property. Two additional short roads or driveways are shown on the property also. The shading of the property and surrounding properties on the map indicate that the area is densely developed. No specific structure are identified on the subject property. Surrounding Properties: The surrounding areas are densely developed. A number of churches and schools are identified surrounding the property.
1959	Subject Property: No significant changes have occurred since the previous

Year	Description
	topographic map. Surrounding Properties: No significant changes have occurred since the previous topographic map.
1969	Subject Property: No significant changes have occurred since the previous topographic map. Surrounding Properties: The property to the south is no longer colored as being developed.
1983	Subject Property: No significant changes have occurred since the previous aerial photograph. Surrounding Properties: No significant changes have occurred since the previous aerial photograph.
1998	Subject Property: Additional roads are present on the subject property. Surrounding Properties: No significant changes have occurred since the previous aerial photograph.
2013	Subject Property: Additional roads are present on the subject property. The area is now identified as Mayor Wright Homes. Surrounding Properties: No significant changes have occurred since the previous aerial photograph.

3.2.7 City Directory

The EDR-City Directory Image Report (EDR, 2016d) was reviewed for 1020 Liliha Street, as well as surrounding properties for which listed names indicate a potential source of environmental impacts. Business directories including city cross reference and telephone directories were reviewed, if available, at approximately 5-year intervals for the years spanning 1992 through 2013. Based on a review of the Sanborn maps and development of the property since at least 1914, numerous historical addresses have been associated with the subject property. The majority of the historical property addresses listed are residential or businesses that have been determined to not be of significance with the exception of the below service station. A copy of the full *The EDR-City Directory Image Report* is included in **Appendix E**.

Surrounding Properties – N. Vineyard Blvd	
Year	**Name/Use**

Surrounding Properties – N. Vineyard Blvd	
Year	**Name/Use**
1995	Tow Guchi Service Station LTD (825)
2013	Pats Auto Electric (574) – Identified in *The Radius Report* as historical gas station

3.2.8 Sanborn Map Review

Sanborn Maps provided by EDR (EDR, 2016e) were reviewed in order to help identify potential environmental conditions on the subject property due to historic property use and adjacent and surrounding properties. Copies of the Sanborn Maps are included in **Appendix F**.

Year	Description
1914	Subject Property: De Sha Lane and Dwight Lane are present running west to east on the western portion of the subject property. Kauhaukoi Lane is present running north to south. The majority of the subject property is identified as dwellings/tenements. A hotel and candy factory are identified along the southern border along with an auto painting facility. Hawaiian Soy Company Ltd. Facility is identified on the north side of the property. A large part of the eastern portion is labeled as a vegetable garden. Adjacent Properties: Pua borders the property on the northwest. Liliha borders the property on the south. The majority of the surrounding properties are identified as dwellings.
1927	Subject Property: The auto painting facility is no longer present. The property is still occupied by dwellings for the majority of the developments. Stores are identified along the southern border. Auto storage facilities are identified on the northern side in the location of the soy company facility shown on the 1914 map and also in the center of the property. Adjacent Properties: A church is present to the southeast and a Chinese laundry facility is identified to the west.
1950	Subject Property: An auto repair facility is identified along the eastern boundary. The auto storage facility on the northern side of the property is still present. A large portion of the property is depicted as being vacant. Adjacent Properties: Two auto repair facilities are identified to the south of the subject property. Two areas are labeled gas & oil one to the south and one to the west. A laundry facility is identified to the east.

Year	Description
1955	Subject Property: The subject property is now identified as Mayor Wright Homes. De Sha Lane, Dwight Lane, and Kauhaukoi Lane are no longer present. North Kukui is now present running north to south through the center of the property. Adjacent Properties: The laundry facility is no longer present to the east. There are no significant changes in the remaining surrounding properties
1963	Subject Property: No significant changes have occurred since the previous Sanborn Map. Adjacent Properties: The gas and oil storage to the south is no longer identified. A dry cleaning facility is identified to the west. An additional gas and oil storage area is identified on the adjacent property near the northwest corner of the subject property.
1974	Subject Property: No significant changes have occurred since the previous Sanborn Map. Adjacent Properties: The property to the south is no longer developed with an auto repair facility or gas and oil storage. The area is developed with what is potentially a multi-family complex. The area to the north across Pua Lane is now cleared/vacant.
1975	Subject Property: No significant changes have occurred since the previous Sanborn Map. Adjacent Properties: The gas and oil storage area is now also identified as an auto service area.
1976	Subject Property: No significant changes have occurred since the previous Sanborn Map. Adjacent Properties: No significant changes have occurred since the previous Sanborn Map.
1978	Subject Property: No significant changes have occurred since the previous Sanborn Map. Adjacent Properties: No significant changes have occurred since the previous Sanborn Map.
1985	Subject Property: No significant changes have occurred since the previous Sanborn Map. Adjacent Properties: No significant changes have occurred since the previous Sanborn Map.
1991	Subject Property: No significant changes have occurred since the previous Sanborn Map. Adjacent Properties: The gas and oil storage are to the west is no longer present.

Year	Description
1993	Subject Property: No significant changes have occurred since the previous Sanborn Map. Adjacent Properties: No significant changes have occurred since the previous Sanborn Map.

3.2.9 Chain-Of-Title

A chain-of-title report was not included in the scope of work for this ESA, and no chain-of-title information was reviewed.

3.2.10 Environmental Liens and Activity and Use Limitations

A search for environmental liens and activity and use limitations (AULs) was conducted by EDR. No environmental liens or AULs were identified for the parcel searched. A copy of *The EDR Environmental LienSearch™ Report* (EDR, 2016f) is included in **Appendix H**.

3.2.11 Tax Map Report and/or Building Permit Report

Tax map reports reported no coverage and building permit reports reported no permits for the target property. A copy of *The EDR Property Tax Map Report* and/or *EDR Building Permit Report* is included in **Appendix I**.

3.3 REGULATORY AGENCY FILES AND RECORDS REVIEW

Based on the listings in *The Radius Report*, a review of pertinent regulatory files and or records associated with the listing should be conducted. Information regarding the subject property was requested from the following agencies:

3.3.1 Federal

- EPA Envirofacts Online Search – No records for the subject property were identified. However, King Street Shell was identified at 666 N. King Street which is the adjacent western property.
- EPA Enforcement & Compliance History Online (ECHO) Searchable Database – No facilities were identified.

3.3.2 **State**

- Hawaii Department of Health – WESTON contacted the Department of Health on 8 June 2016 electronically. WESTON received notice that no records were available for review.

4 SITE RECONNAISSANCE AND INTERVIEWS

4.1 SITE VISIT

Site Assessor	Lisa Waskom and Stacey Gray
Date of Reconnaissance	15 June 2016
Methodology Used	Visual inspection/walk-through of the subject property and adjacent properties from publicly accessible areas.
Limiting Conditions	Per Hunt's instruction, the interiors of residential buildings were not inspected. Asbestos and lead based paint surveys were previously completed by Hunt in 2015 from building interiors.

4.2 INTERVIEWS RECORDS

Name	Cynthia Yoshida
Employer	HPHA
Position	Public Housing Supervisor
Time with Company	15 years
Time at this Facility	12 Years
Date & Method of Interview	An on-site Interview was conducted with the Public Housing Supervisor to obtain information about the property and current and past uses. No interior inspections were conducted for any of the housing units. Asbestos and lead based paint surveys were previously completed by Hunt in 2015 from building interiors.

4.3 WASTE GENERATION, PERMITTING AND UTILITIES

Water Supply	City of Honolulu
Electricity	Hawaiian Electric Company (HECO)
Natural Gas	Hawaii Gas
Wastewater	No industrial wastewater is generated at the facility. Sanitary wastewater discharges to the city sewer system. No evidence of septic systems was observed during the site inspection of the facility.
Stormwater	Stormwater drains via sheet flow to storm drains located around the property before discharging to the City sewer system.
Air	No potential sources of air emissions were observed. No air emissions are generated at the site, and the facility does not have an air permit.
Cooling Towers	No cooling towers were noted during the site reconnaissance.

Solid Wastes	No industrial solid waste is generated at the facility. Household trash is disposed of in dumpsters at various locations throughout the subject property.
Hazardous Wastes	No hazardous waste is currently generated on-site.
Waste Disposal Areas	There are no waste disposal areas on the subject property with the exception of the municipal dumpsters.

4.4 HAZARDOUS/DANGEROUS MATERIALS

Products and Chemicals Used / Managed / Stored	Two flammable lockers are located in the southwest portion of the site behind the main office which are used to store gasoline for lawn maintenance equipment. A number of paint buckets and other materials were stored under a staircase on-site. No other chemical were reported used on-site or observed during the site walk.
Products and Chemicals Storage Location	Flammable storage lockers are located outside the maintenance shop located behind the Main Office.
Storage Tanks	No USTs are present on-site. Water tanks are located on the roofs of some of the buildings on-site. These tanks were reportedly used for water storage to distribute to each apartment unit, but are no longer in use.
Chlorinated Solvents Used	According to the site contact, no chlorinated solvents are currently used on-site.

4.5 ADDITIONAL OBSERVATIONS AND INFORMATION

Vapor Migration	Due to the close proximity of operational and historical gas stations and dry cleaners, potential for vapor migration cannot be ruled out.
PCB-Containing Equipment	Transformers are located throughout the property. The transformers are located on power poles. Non-PCB stickers could not be located on the transformers.
Radon	No known testing has been performed at subject property. An EPA map of radon zones indicates Honolulu County, Hawaii is considered a Zone 3 area. Average radon levels for Zone 3 are less than (<) 2 picocuries per liter (pCi/L) (EDR, 2016a). Air sampling was not performed at the subject property to evaluate actual radon levels.
Asbestos-Containing Materials (ACM)	The buildings on-site were not entered. A separate asbestos and lead based paint/hazardous materials survey will being conducted under separate contract outside of WESTON's scope of work.
Lead-Based Paint (LBP)	No testing for LBP. Given age of building, LBP may be present.
Lead and Drinking Water	No known water testing has been completed.
Fluorescent Lights	The buildings were not entered.
Sumps, Oil/Water Separators	None observed during site reconnaissance.

Monitoring Wells, Vent Pipes, Manhole Covers, etc.	None observed during site reconnaissance.
Staining	Oil staining was observed in the parking lots at various locations from cars.
Stressed Vegetation	None observed during site reconnaissance.
Ponds, Pits, Lagoons, and Debris Piles	One covered area was observed but was not opened. Upon further questioning of the Maintenance Foreman, Wade Kau, it was determined this area is a partially covered storm water drain.
Water Staining or Mold Within Building	The buildings on-site were not entered.
Indoor Air Quality Issues (complaints and/or testing)	No issues were observed or reported during site reconnaissance. No testing was conducted.
Odors	No strong, pungent, or noxious odors were detected during the property visit.
Pools of Liquid	None observed during site reconnaissance.
Unidentified Substance Containers	None observed during site reconnaissance.

5 EXCEPTIONS, DELETIONS, AND DATA GAPS

WESTON has performed this Phase I ESA in general conformance with the scope and limitations of *ASTM E1527-13* for the property located in Honolulu, Hawaii. Exceptions to, or deletions from, this practice or data gaps include the following:

- The interiors of the residential buildings were not inspected at the direction of Hunt, as asbestos and lead based paint surveys were previously completed in 2015 from building interiors.
- A chain-of-title report was not obtained, and no chain-of-title information was reviewed.

These exceptions are not thought to have a material impact on the findings and conclusions of the ESA.

6 FINDINGS, OPINIONS AND CONCLUSIONS

WESTON has performed a Phase I ESA in conformance with the scope and limitations of *ASTM Practice E1527-13* of 1020 Liliha Street, the property. Any exceptions to, or deletions from, this practice are described in **Section 5** of this report.

- An auto painting facility is identified on-site on the 1914 Sanborn Map in the southwest corner. A soy manufacturing facility is also present along the northern boundary of the subject property. Due to a lack of information regarding the auto painting operations, this is considered a REC.
- An auto repair facility is identified on-site on the 1950 Sanborn Map along the eastern boundary of the subject property. Due to a lack of operational regarding the auto repair operations, this is considered a REC.
- Aim King Street Shell, a gas station, is located at 666 North King Street, directly adjacent to the west of the subject property. This is located downgradient of the subject property. The site is listed EDR *The Radius Report* on the UST, LUST, and CESQG databases. This property is also labeled as an auto service and oil and gas storage from 1963 to 1993 on the Sanborn maps. Due to the close proximity and identification as a LUST site, there is a potential for contamination. Therefore, this is considered a REC.
- Auto storage is identified in the central portion of the subject property on the 1927 Sanborn Map and along the northern boundary on the 1927 and 1950 Sanborn Map. Due to a lack of information regarding the auto storage operations, this is considered a REC.
- A dry cleaner, auto repair facility, and oil and gas storage facilities are identified to the west and south of the subject property from 1950 to 1993. This is located down gradient of the subject property. Based on the topographic gradient, this is not considered a REC.
- A large garden was identified on the 1914 Sanborn Map on the eastern portion of the subject property. No information was available about the historic use of pesticide usage for this garden or any other landscaping that has occurred since development in 1914. This is not considered a REC but should be noted as a de minimis condition.
- Staining was identified throughout the parking lots on-site. This is not considered a REC but should be noted as a de minimis condition.

6.1 CONCLUSIONS

This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the property except for the following:

- Historical property usage including auto painting, auto repair, and auto storage identified on-site. Lack of information about the above listed operations are considered RECs.

- A gas station is currently located on the western adjacent property. Historically, the property was also used as an auto service facility and had oil and gas storage on-site. This property is identified as a LUST site because of this the property is considered a REC.

The following *de minimis* conditions were noted based on current property use and/or surrounding property uses:

- Potential current and historic pesticide usage on the property since development in 1914.

- Staining identified throughout the parking lots on-site.

7 REFERENCES

ASTM (American Society for Testing and Materials). 2005. E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.* West Conshohocken, Pennsylvania.

EDR (Environmental Data Resources, Inc.). 2016a. *The EDR Radius Map™ Report with GeoCheck®. Mayor Wright Honolulu, Honolulu, HI 96817. 31 May 2016.* Milford, CT.

EDR. 2016b. *The EDR Aerial Photo Decade Package. Mayor Wright Honolulu, Honolulu, HI 96817. 31 May 2016.* Milford, CT.

EDR. 2016c. *EDR Historical Topographic Map Report. Mayor Wright Honolulu, Honolulu, HI 96817. 31 May 2016.* Milford, CT.

EDR. 2016d. The *EDR-City Directory Image Report. Mayor Wright Honolulu, Honolulu, HI 96817. 1 June 2016.* Milford, CT

EDR. 2016e. *Certified Sanborn® Map Report. Mayor Wright Honolulu, Honolulu, HI 96817. 31 May 2016.* Milford, CT.

EDR. 2016f. *The EDR Environmental LienSearch™ Report. Mayor Wright Honolulu, Honolulu, HI 96817. 1 June 2016.* Milford, CT.

EDR. 2016g. *The EDR Property Tax Map Report. Mayor Wright Honolulu, Honolulu, HI 96817. 31 May 2016.* Milford, CT.

EDR. 2016h. *EDR Building Permit Report. Mayor Wright Honolulu, Honolulu, HI 96817. 31 May 2016.*Milford, CT.

Yoshida, Cynthia. Interview with Mr. Cynthia Yoshida, conducted by Lisa Waskom and Stacey Gray of Weston Solutions, Inc., 15 June 2016.

8 QUALIFICATIONS

WESTON utilized qualified professional staff trained in performing the scope of work required for this Phase I ESA. This team included a senior technical reviewer, project manager, and technical support team. Their roles are described in more detail as follows:

- Technical Manager and Environmental Professional – Pamela Marshall has more than 17 years of experience performing environmental consulting on projects, with most of that experience on Phase I and II ESAs. As technical manager, Ms. Marshall is responsible for implementing the technical work for any ESAs assigned to WESTON and utilizing other staff, as required, to assist her in completing the work on schedule
- Project Manager and Site Assessor - Lisa Waskom is a Senior Project Manager/Environmental Professional with over 19 years of environmental site assessment experience, including Phase 1 and Phase 2 assessment work. Ms. Waskom coordinated all site activities including inspection, reporting, and helped conduct the site interview.
- Senior Project Scientist and Site Assessor - Stacey Gray is an Environmental Professional with more than seven years of environmental site assessment experience, including Phase I and Phase II ESAs. Ms. Gray conducted the site inspection and assisted with the report preparation and records review.
- Report Preparation and Records Review – Vanessa Trevino is a Project Scientist with more than eight years of experience in preparing Phase I ESAs. Ms. Trevino completed the ASTM Training on Phase I and Phase II Environmental Site Assessments for Commercial Real Estate in May of 2010.

Weston Solutions, Inc. – Phase I Environmental Site Assessment – 1020 Liliha Street, Honolulu, HI

LIST OF ACRONYMS

AAI	All Appropriate Inquiries
ACM	asbestos-containing material
ASTM	American Society for Testing and Materials
AUL	Activity and land use limitations
CESQG	conditionally exempt small quantity generator (RCRA)
CFR	Code of Federal Regulations
CORRACTS	Corrective Action Report
DOD	Department of Defense
ECHO	Enforcement & Compliance History Online
EDR	Environmental Data Resources
EPA	Environmental Protection Agency
ENG	Engineering
ESA	Environmental Site Assessment
FUDS	formerly used defense sites
HECO	Hawaiian Electric Company
HI	Hawaii
HPHA	Hawaii Public Housing Authority
LBP	lead-based paint
LUST	leaking underground storage tank
MPG	manufactured gas plants
pCi/L	picocuries per liter
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
SEMS	Superfund Enterprise Management System
USGS	U. S. Geological Survey
UST	Underground Storage Tank
VCP	Voluntary Cleanup Program
WESTON	Weston Solutions, Inc.

0 1,500 3,000 4,500 6,000 7,500

Feet

LEGEND

Site Location

Oahu

Hawaii

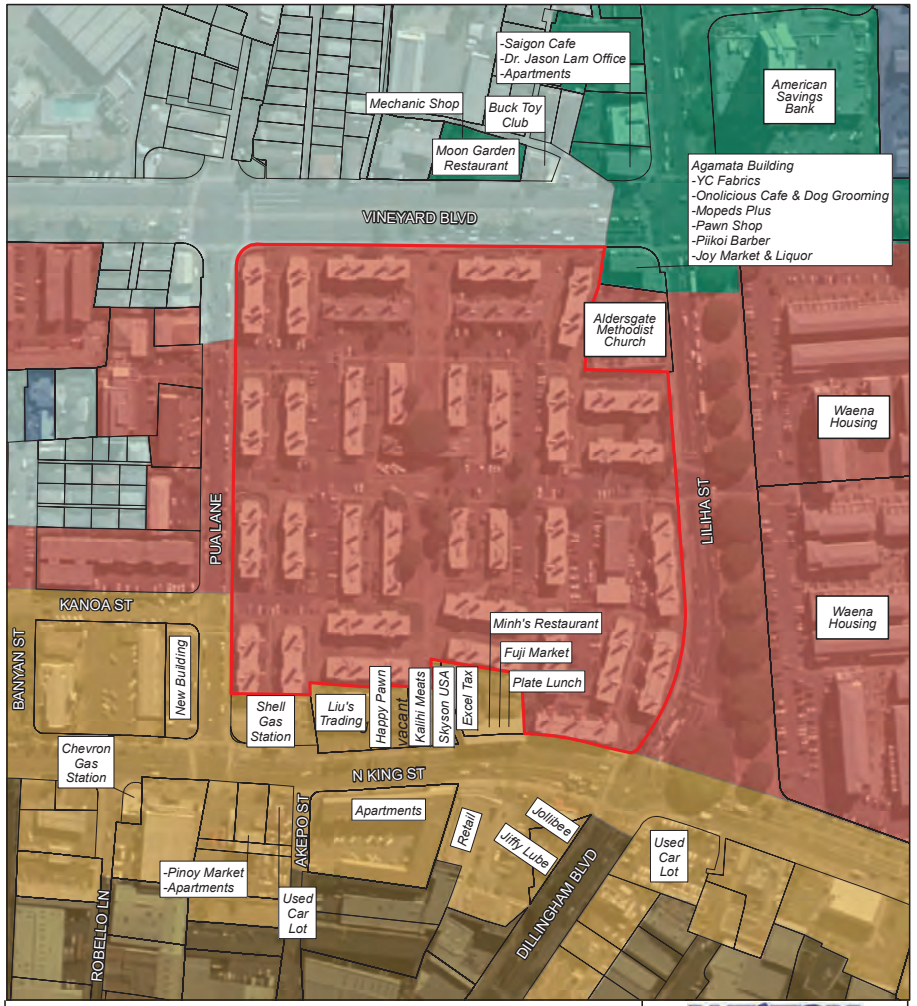
N

SOURCE: Esri, HoLIS

FIGURE 1
PROPERTY LOCATION MAP
MAYOR WRIGHT HOUSING
HUNT DEVELOPMENT
1020 LILIHA STREET
HONOLULU, HAWAII

DATE	PROJECT NO	SCALE
JUN 2016	15350.002.016.1000	1 : 48000

FILE: Q:\15350_Hunt\Phase1\mxd\Figure 1 - Property Location Map.mxd 1:28:25 PM 6/23/2016 paynel



0 490

Feet

LEGEND

Low-density Apartment District

Medium-density Apartment District

Community Business District

Community Business Mixed Use District

Industrial Mixed Use District

General Preservation District

Site Location

Tax Lot

N

SOURCE: Esri, HoLIS

FIGURE 2
PROPERTY VICINITY MAP
MAYOR WRIGHT HOUSING
HUNT DEVELOPMENT
1020 LILIHA STREET
HONOLULU, HAWAII

DATE	PROJECT NO	SCALE
JUN 2016	15350.002.016.1000	1 : 2800

FILE: Q:\15350_Hunt\Phase1\mxd\Figure 2 - Property Vicinity Map.mxd 2:03:26 PM 6/23/2016 paynel

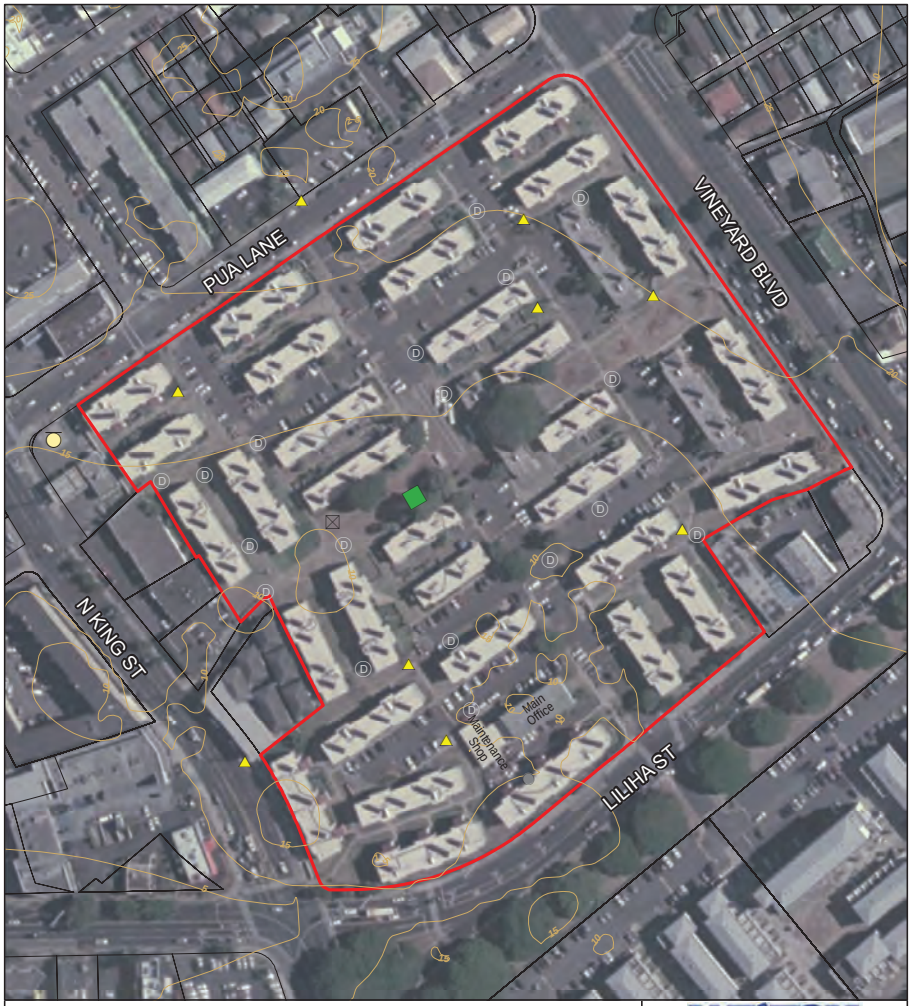


FIGURE 3
PROPERTY LAYOUT MAP
MAYOR WRIGHT HOUSING
HUNT DEVELOPMENT
1020 LILHA STREET
HONOLULU, HAWAII

DATE	PROJECT NO	SCALE
JUN 2016	15350.002.016.1000	1 : 2100

APPENDIX A
SITE PHOTOGRAPHS

PHOTOGRAPH NO. 1

Date: 6/15/2016
Direction: NW

Description:

Entrance to the Mayor Wright Homes complex, looking northwest down North Kukui Street.

PHOTOGRAPH NO. 2

Date: 6/15/2016
Direction: N

Description:

Exterior of the living spaces.

Appendix A – Site Photographs 1020 Liliha Street Honolulu, HI

PHOTOGRAPH NO. 3

Date: 6/15/2016
Direction: N

Description:

Exterior of the living spaces. An asphlat repaving of north parking lot was occurring at the time of the site visit.

PHOTOGRAPH NO. 4

Date: 6/15/2016
Direction: N

Description:

Water storage tanks on top of each roof were previously used for water distribution to each apartment.

PHOTOGRAPH NO. 5

Date: 6/15/2016
Direction: S

Description:

Dumpster and miscellaneous small appliances stored at the maintenance area behind main office.

PHOTOGRAPH NO. 6

Date: 6/15/2016
Direction: NW

Description:

Flammable cabinets located on the southwestern portion of the property, behind the main office.

Appendix A – Site Photographs 1020 Liliha Street Honolulu, HI

PHOTOGRAPH NO. 7

Date: 6/15/2016
Direction: W

Description:

Paint cans and bottles stored on the southwest portion of the property, behind the main office and maintenance area.

PHOTOGRAPH NO. 8

Date: 6/15/2016
Direction: W

Description:

Concrete cover on a stormwater drain. Garbage and debris was noted in the drain.

PHOTOGRAPH NO. 9

Date: 6/15/2016
Direction: N

Description:

Storage area used to stage small appliances from within the apartment units located behind the main office.

PHOTOGRAPH NO. 10

Date: 6/15/2016
Direction: S

Description:

Steel covered vault located on the western portion of the property adjacent to Desha Lane. Maintenance Foreman Wade Kau identified this as a gas meter access area.

APPENDIX B
THE EDR RADIUS MAP REPORT WITH GEOCHECK

Mayor Wright Honolulu
1020 Liliha Street
Honolulu, HI 96817

Inquiry Number: 4632621.2s
May 31, 2016

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

FORM-LBB-GON

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1020 LILIHA STREET
HONOLULU, HI 96817

COORDINATES

Latitude (North):	21.3200880 - 21° 19' 12.31''
Longitude (West):	157.8639560 - 157° 51' 50.24''
Universal Tranverse Mercator:	Zone 4
UTM X (Meters):	617821.8
UTM Y (Meters):	2357859.2
Elevation:	10 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5941635 HONOLULU, HI
Version Date:	2013

MAPPED SITES SUMMARY

Target Property Address:
1020 LILIHA STREET
HONOLULU, HI 96817

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	SAND ISLAND MILITARY		DOD	Same	2002, 0.379, SSW
1	KUKUI GARDENS MAKAI	1103 LILIHA ST	RCRA-CESQG	Lower	57, 0.011, SSE
A2		555 N KING ST	EDR Hist Auto	Lower	86, 0.016, SSW
B3		607 N KING ST	EDR Hist Cleaner	Higher	104, 0.020, WSW
4		574 N VINEYARD BLVD	EDR Hist Auto	Higher	122, 0.023, ENE
B5	AIM KING STREET SHEL	666 N KING ST	HI LUST, HI UST, HI Financial Assurance	Higher	122, 0.023, West
B6	KING STREET SHELL	666 N KING ST	RCRA-CESQG	Higher	122, 0.023, West
A7	KINGSGATE PLAZA	516 DILLINGHAM BLVD	HI LUST, HI UST	Lower	169, 0.032, SW
C8		999 ROBELLO LN	EDR Hist Auto	Higher	262, 0.050, WNW
C9	PIONEER VENTURES INC	999 ROBELLO LN	RCRA NonGen / NLR, FINDS, ECHO	Higher	262, 0.050, WNW
10	TOGUCHI SVC STATION	825 N VINEYARD BLVD	RCRA-CESQG, FINDS, ECHO	Higher	323, 0.061, North
C11	GENNESART CHEVRON -	743 N KING ST	HI UST, HI Financial Assurance	Higher	353, 0.067, WNW
A12	NAKAOKA PAINTING INC	922 KAAMAHU PL	HI UST	Lower	384, 0.073, SSW
A13		922 KAAMAHU PL	EDR Hist Auto	Lower	384, 0.073, SSW
C14		743 N KING ST	EDR Hist Auto	Higher	412, 0.078, WNW
C15	CHEVRON 99080	743 N KING ST	RCRA-CESQG	Higher	412, 0.078, WNW
16	BANYAN STREET MANOR	1122 BANYAN ST	RCRA-CESQG	Higher	420, 0.080, NW
C17	NAKAMURA INVESTMENT	979 ROBELLO LN	HI UST, HI Financial Assurance	Higher	424, 0.080, West
D18	TONY'S LIQUOR AND DE	581 DILLINGHAM BLVD	HI UST, HI Financial Assurance	Lower	444, 0.084, SW
E19	HALL-MARK CLEANERS	1470 LILIHA ST	HI UST	Higher	540, 0.102, ENE
E20	HALL MARK DRY CLEANE	1470 LILIHA ST	HI SHWS	Higher	540, 0.102, ENE
D21		580 DILLINGHAM BLVD	EDR Hist Auto	Higher	543, 0.103, SW
D22	YICK LUNG CO., INC.	580 DILLINGHAM BLVD	HI LUST, HI UST	Higher	543, 0.103, SW
F23		963 ROBELLO LN	EDR Hist Auto	Higher	575, 0.109, West
F24	RICHARD TOM	963 ROBELLO LN	HI LUST, HI UST, HI Financial Assurance	Higher	575, 0.109, West
D25	VON HAMM TEXTILES	546 KAAAHI ST	HI SHWS, HI ENG CONTROLS, HI INST CONTROL, HI...	Lower	610, 0.116, SW
D26	YICK LUNG CO., INC.	602 DILLINGHAM BLVD	HI LUST, HI UST	Higher	628, 0.119, WSW
D27		545 KAAAHI ST	EDR Hist Auto	Lower	644, 0.122, SW
D28	NUUANU AUTO COMPANY	545 KAAAHI ST	HI SHWS	Lower	644, 0.122, SW
G29	MAUNAWILI PRODUCE, I	914 KAAAHI PL	HI LUST, HI UST	Lower	688, 0.130, SSW
G30	MAUNAWILI PRODUCE, I	914 KAAAHI PL	RCRA NonGen / NLR, FINDS, ECHO	Lower	688, 0.130, SSW
G31	R & G TRUCKING	906 KAAAHI PLACE	RCRA NonGen / NLR, FINDS, ECHO	Lower	699, 0.132, SSW
G32	MAUNAWILI PRODUCE	906 KAAAHI PL	HI LUST, HI UST	Lower	699, 0.132, SSW
G33	ALOHA FENDER INC	915 KAAAHI PL	RCRA-CESQG, FINDS, ECHO	Lower	711, 0.135, SSW
34	TESORO 2GO #61022	1311 PALAMA ST	HI LUST, HI UST, HI Financial Assurance	Higher	761, 0.144, NNW
H35	HONOLULU COMMUNITY A	337 & 357 N KING ST	HI LUST, HI UST	Lower	883, 0.167, South
I36	CUTTER DODGE AUTO SE	735 DILLINGHAM BLVD	HI LUST, HI UST	Higher	900, 0.170, WSW
I37	CUTTER DODGE INC	735 DILLINGHAM BLVD	RCRA-CESQG, FINDS, ECHO	Higher	900, 0.170, WSW
H38	LILIHA CIVIC CENTER	337 N KING ST	HI SHWS	Lower	1020, 0.193, South

MAPPED SITES SUMMARY

Target Property Address:
1020 LILIHA STREET
HONOLULU, HI 96817

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
39	LANCE GOYA CHEVRON	504 N SCHOOL ST	HI SHWS, HI LUST, HI UST, HI ENG CONTROLS, HI INST...	Higher	1035, 0.196, ENE
J40	HAWAIIAN GAS PRODUCT	516-520 KUWILI ST	EDR MGP	Lower	1054, 0.200, SW
K41	CLEE LTD ASSOCIATE C	930 AUSTIN LANE	RCRA NonGen / NLR, FINDS, ECHO	Higher	1067, 0.202, WNW
L42	ISLAND MOVERS, INC.	414 KUWILI STHONOLUL	HI LUST, HI UST, HI Financial Assurance	Lower	1095, 0.207, SSW
L43	KAPOLEI TERMINAL	431 KUWILI ST	FUELS PROGRAM	Lower	1103, 0.209, SW
M44	DOLE PACKAGED FOODS	801 DILLINGHAM BLVD.	SEMS-ARCHIVE, RCRA NonGen / NLR	Higher	1108, 0.210, West
M45	DOLE IWILEI	801 DILLINGHAM BLVD	HI SHWS, HI INST CONTROL, HI SPILLS	Higher	1108, 0.210, West
M46	DOLE IWILEI CANNERY	801 DILLINGHAM BLVD	HI LUST, HI UST	Higher	1108, 0.210, West
L47	SENIOR RESIDENCES AT	888 IWILEI RD	HI SHWS, HI INST CONTROL	Lower	1140, 0.216, SSW
N48	IWILEI FRUIT AND VEG	920 IWILEI ROAD	HI SHWS, HI LUST, HI UST	Lower	1152, 0.218, SSW
L49	C&CH IWILEI FIRE STA	840 IWILEI RD	HI UST	Lower	1205, 0.228, SSW
K50	KAPALAMA WAREHOUSE	922 AUSTIN LN	HI UST	Higher	1220, 0.231, WNW
51	SNAPPY SERVICE	719 N SCHOOL ST	HI LUST, HI UST, HI SPILLS	Higher	1224, 0.232, NNE
N52	373 NORTH NIMITZ HIG	373 N NIMITZ HWY	HI SHWS, HI SPILLS	Lower	1289, 0.244, SSW
N53	STEELTECH INC	373 N NIMITZ HWY	HI LUST, HI UST	Lower	1289, 0.244, SSW
L54	CYCLE SPORTS HWAII	818 IWILEI ROAD	HI UST	Lower	1302, 0.247, SW
L55	SONNYS AUTO REPAIR	818 IWILEI RD	RCRA NonGen / NLR, FINDS, ECHO	Lower	1302, 0.247, SW
O56	IWILEI PROJECT SITE	IWILEI RD & N KING S	HI SHWS	Lower	1320, 0.250, South
J57	TRAVEL PLAZA TRANSPO	818 PINE ST	HI SHWS, HI LUST, HI UST, HI Financial Assurance	Lower	1324, 0.251, SW
58	TOWN INN	248-258 N BERETANIA	HI SHWS, HI INST CONTROL, HI VCP	Lower	1383, 0.262, SSE
59	MAHALO NORTH KING AU	1010 N KING ST	HI LUST, HI UST, HI Financial Assurance	Higher	1511, 0.286, NW
O60	215 NORTH KING STREE	215 N KING ST	HI SHWS	Lower	1517, 0.287, South
P61	OWNED BY CCI, LEASED	925 DILLINGHAM BLVD	HI SHWS, HI ENG CONTROLS, HI INST CONTROL, HI VCP,...	Lower	1530, 0.290, West
P62	SPRINT LOT	925 DILLINGHAM BLVD	HI LUST, HI UST	Lower	1530, 0.290, West
63	HONOLULU COMMUNITY C	DILLINGHAM BLVD	HI LUST, HI UST	Lower	1571, 0.298, WNW
64	PALAMA ELDERLY HOUSI	851 N SCHOOL ST	HI LUST, HI UST	Higher	1580, 0.299, NNE
P65	THEO DAVIES CATERPIL	935 DILLINGHAM BLVD	HI SHWS, HI ENG CONTROLS, HI INST CONTROL	Lower	1582, 0.300, West
P66	HONOLULU COMMUNITY C	874 DILLINGHAM BLVD	HI SHWS	Lower	1658, 0.314, West
67	IWILEI BUSINESS CENT	501 SUMNER ST	HI SHWS, HI INST CONTROL, HI SPILLS	Lower	1668, 0.316, WSW
Q68	420 N. NIMITS HWY DE	420 N. NIMITZ HWY	HI LUST, HI UST	Lower	1772, 0.336, SSW
Q69	420-470 NORTH NIMITZ	420-470 N NIMITZ HWY	HI SHWS, HI ENG CONTROLS	Lower	1772, 0.336, SSW
70	KING'S SERVICE	1070 N KING ST	HI LUST, HI UST	Lower	1846, 0.350, NW
R71	JBL HAWAII, LTD	905 KOKEA ST	HI SHWS, HI ENG CONTROLS, HI INST CONTROL	Lower	1913, 0.362, NW
R72	JBL HAWAII LTD	905 KOKEA ST	HI LUST, HI UST	Lower	1913, 0.362, NW
S73	PEARL HARBOR NAVY PU	NAVAL STATION AREA	SEMS, EPA WATCH LIST, DOCKET HWC	Higher	1940, 0.367, South
S74	USNAVY SUBASE PEARL	USNAVY SUBASE PEARL	SEMS, RCRA NonGen / NLR	Higher	1940, 0.367, South
S75	KAALA AFS	TAXIWAY 5 & KAMAKAHI	SEMS-ARCHIVE, FINDS	Higher	1940, 0.367, South
S76	USNAVY NAVY EXCHANGE	MOANALUA RD KAIMAKAN	SEMS, RCRA-SQG	Higher	1940, 0.367, South
S77	KEKAULIKE DIAMOND HE	163 N HOTEL ST	HI SHWS, HI SPILLS	Higher	1979, 0.375, South

MAPPED SITES SUMMARY

Target Property Address:
1020 LILIHA STREET
HONOLULU, HI 96817

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
T78	LILIHA CHEVRON	1748 LILIHA ST	HI LUST, HI UST	Higher	1980, 0.375, ENE
T79	B & A AUTOMOTIVE	1739 LILIHA ST	HI LUST, HI UST	Higher	1987, 0.376, ENE
U80	KAPALAMA INCINERATOR	757 KOKEA ST	RCRA-SQG, HI SHWS, HI INST CONTROL, HI SPILLS	Lower	2054, 0.389, WNW
U81	KAPALAMA INCINERATOR	757 KOKEA STREET	SEMS	Lower	2054, 0.389, WNW
82	AWA WASTEWATER PUMP	190 N NIMITZ HWY	HI SHWS, HI SPILLS	Lower	2060, 0.390, South
V83	MID PAC PETROLEUM LL	540 N NIMITZ HWY	HI SHWS, HI LUST, HI UST, HI ENG CONTROLS, HI INST...	Lower	2126, 0.403, SW
W84	7-11 KAPALAMA	1136 N KING ST.	HI LUST, HI UST, HI Financial Assurance	Lower	2178, 0.412, NW
85	HAWAII HOUSING AUTHO	1002 N SCHOOL ST	HI LUST, HI UST	Higher	2213, 0.419, North
X86	AA ELECTRIC, LTD.	500 ALA KAWA ST, APT	HI LUST, HI UST	Lower	2215, 0.420, West
R87	OAHU PLUMBING & SHEE	926 KOHOU ST	HI LUST, HI UST, HI Financial Assurance	Lower	2224, 0.421, NW
88	KUAKINI MEDICAL CENT	347 N KUAKINI ST	RCRA-SQG, HI SHWS, HI LUST, HI UST, HI SPILLS,...	Higher	2243, 0.425, ENE
W89	GTE-HAWAIIAN TEL EMP	1138 N KING ST	HI SHWS, HI ENG CONTROLS, HI INST CONTROL	Lower	2261, 0.428, NW
X90	COSTCO WAREHOUSE	525 ALAKAWA ST	HI SHWS, HI ENG CONTROLS, HI INST CONTROL, HI VCP	Lower	2281, 0.432, West
X91	COSTCO GAS STATION	520 ALAKAWA ST	HI SHWS, HI ENG CONTROLS, HI INST CONTROL, HI VCP	Lower	2322, 0.440, West
U92	SHIMAYA SHOTEN, LTD.	710 KOHOU ST	HI LUST, HI UST	Lower	2334, 0.442, WNW
93	JOHIRO BROTHERS, INC	1240 MOOKAULA ST	HI LUST, HI UST	Lower	2383, 0.451, NW
V94	HARRY & JEANETTE WEI	580 N NIMITZ HWY	HI LUST, HI UST	Lower	2393, 0.453, SW
V95	580 NORTH NIMITZ HIG	580 N NIMITZ HWY	HI SHWS, HI ENG CONTROLS	Lower	2393, 0.453, SW
Y96	CITY MILL	660 N NIMITZ HWY	HI SHWS, HI LUST, HI UST, HI INST CONTROL	Lower	2457, 0.465, SW
Z97	BHP GASCO BENZENE SI	616 IWILEI RD	HI SHWS, HI INST CONTROL, HI SPILLS, HI AIRS	Lower	2527, 0.479, WSW
98	COSTCO GAS STATION 6	520 ALA KAWA ST	HI LUST, HI UST, HI Financial Assurance	Lower	2531, 0.479, West
99	YEE HOP BUILDING MAU	950 MAUNAKEA ST	HI SHWS	Higher	2553, 0.484, South
Y100	ZIPPY'S 634 N NIMITZ	634 N NIMITZ HWY	HI SHWS, HI ENG CONTROLS, HI INST CONTROL, HI...	Lower	2560, 0.485, SW
101	7-ELEVEN NUUANU PALI	1602 NUUANU AVE	HI LUST, HI UST, HI Financial Assurance	Higher	2627, 0.498, ESE
Z102	BHP GASCO	432 PACIFIC STREET	EDR MGP	Lower	2657, 0.503, WSW
AA103	POLYNESIAN HOSPITALI	330 PACIFIC ST	RCRA-CESQG, HI SHWS, HI LUST, HI UST, HI SPILLS,...	Lower	2661, 0.504, SW
AA104	356 PACIFIC STREET B	356 PACIFIC ST	HI SHWS, HI SPILLS	Lower	2683, 0.508, WSW
AA105	BREWER ENVIRONMENTAL	311 PACIFIC ST	HI SHWS, HI VCP, HI SPILLS	Lower	2696, 0.511, SW
AA106	HONOLULU TERMINAL TA	411 PACIFIC STREET	HI SHWS, HI UST, HI ENG CONTROLS, HI INST CONTROL,...	Lower	2696, 0.511, WSW
AB107	TAKAMIYA PROPERTY	850 MOOWAA ST	HI SHWS, HI SPILLS	Lower	2855, 0.541, NW
AB108	ROSS TRUSTS	819 MOOWAA ST	HI SHWS, HI VCP	Lower	2866, 0.543, NW
109	HOME DEPOT	421 ALAKAWA ST	HI SHWS, HI ENG CONTROLS, HI INST CONTROL	Lower	2881, 0.546, WSW
AC110	HAWAIIAN GRAIN CORPO	701 N NIMITZ HWY	HI SHWS, HI LUST, HI UST	Lower	2886, 0.547, SW
111	CLASSIC BOWL	1190 DILLINGHAM BLVD	HI SHWS	Lower	2893, 0.548, WNW
AC112	HAWAIIAN FLOUR MILL	703 N NIMITZ HWY	HI SHWS	Lower	2963, 0.561, SW
AC113	MOANA PAA KAI	705 N NIMITZ HWY	HI SHWS, HI SPILLS, RCRA NonGen / NLR	Lower	2978, 0.564, SW
AC114	SAUSE BROTHERS	ALAKEA ST	HI SHWS, HI SPILLS	Lower	2985, 0.565, SW
AD115	700 N NIMITZ IDPP RE	700 N NIMITZ HWY	HI SHWS, HI ENG CONTROLS, HI INST CONTROL, HI...	Lower	2998, 0.568, SW
AD116	BHP PIER 29	739 N NIMITZ HWY	HI SHWS	Lower	3163, 0.599, SW

MAPPED SITES SUMMARY

Target Property Address:
1020 LILIHA STREET
HONOLULU, HI 96817

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
AD117	755 N NIMITZ HWY	755 N NIMITZ HWY	HI SHWS, HI ENG CONTROLS, HI INST CONTROL, HI...	Lower	3250, 0.616, SW
AE118	775 NORTH NIMITZ HIG	775 N NIMITZ HWY	HI SHWS, HI ENG CONTROLS, HI INST CONTROL	Lower	3360, 0.636, SW
119	KAMEHAMEHA SCHOOLS -	1336 DILLINGHAM BLVD	HI SHWS, HI SPILLS	Lower	3373, 0.639, WNW
AE120	EQUILON ENTERPRISES	789 N NIMITZ HWY	HI SHWS	Lower	3431, 0.650, SW
AE121	PAULEY PETROLEUM	795 N NIMITZ HWY	HI SHWS, HI ENG CONTROLS, HI INST CONTROL, HI...	Lower	3444, 0.652, SW
AF122	WEYERHAEUSER	900 N NIMITZ HWY	HI SHWS, HI SPILLS	Lower	3470, 0.657, WSW
AG123	MCCABE, HAMILTON, &	1130 N NIMITZ HWY	HI SHWS, HI SPILLS	Lower	3493, 0.662, West
AH124	GTE HAWAIIAN TEL - C	ALAKAWA ST & NIMITZ	HI SHWS, HI ENG CONTROLS, HI INST CONTROL, HI...	Lower	3496, 0.662, WSW
AF125	CHEVRON HONOLULU TRA	933 N NIMITZ HWY	HI SHWS, HI ENG CONTROLS	Lower	3505, 0.664, WSW
AI126	HAWAIIAN ELECTRIC CO	855 N NIMITZ HWY	HI SHWS, HI ENG CONTROLS, HI INST CONTROL, HI...	Lower	3516, 0.666, WSW
AH127	HAWAII STEVEDORES	965 N NIMITZ HWY	HI SHWS, HI ENG CONTROLS, HI SPILLS	Lower	3519, 0.666, WSW
AI128	861-869 NORTH NIMITZ	861-869 N NIMITZ HWY	HI SHWS, HI ENG CONTROLS, HI INST CONTROL	Lower	3525, 0.668, WSW
AH129	HART STREET WASTEWAT	1031 N. NIMITZ HWY.	HI SHWS, HI UIC	Lower	3562, 0.675, WSW
AG130	CHEVRON KAPALAMA TER	1105 N NIMITZ HWY	HI SHWS, HI INST CONTROL, HI SPILLS	Lower	3580, 0.678, WSW
131	RICHARD'S CHEVRON	1909 NUUANU AVE	HI SHWS, HI INST CONTROL, HI SPILLS	Higher	3588, 0.680, East
132	HARBOR COURT	66 QUEEN ST	HI SHWS	Lower	3593, 0.680, South
AG133	DOMESTIC COMMERCIAL	1133 N NIMITZ HWY	HI SHWS, HI ENG CONTROLS, HI INST CONTROL, HI...	Lower	3598, 0.681, West
134	CHEVRON HONOLULU TER	777 N NIMITZ HWY	HI SHWS, HI SPILLS	Lower	3677, 0.696, SW
135	CAPITOL PLACE DEVELO	1212 QUEEN EMMA ST	HI SHWS	Higher	3715, 0.704, SSE
AJ136	1385 COLBURN STREET	1385 COLBURN ST	HI SHWS	Higher	3734, 0.707, WNW
AJ137	GENERAL TIRE	505 WAIAKAMILO RD	HI SHWS, HI SPILLS	Higher	3906, 0.740, WNW
138	1305 HART STREET	1305 HART ST	HI SHWS, HI INST CONTROL, HI SPILLS	Lower	4113, 0.779, West
139	YOUNG BROTHERS, LTD.	1331 N NIMITZ HWY	HI SHWS, HI SPILLS	Lower	4461, 0.845, West
140	FARRINGTON HIGH SCHO	1564 N KING ST	HI SHWS, HI SPILLS, FTTS, HIST FTTS	Higher	4472, 0.847, NW
141	SAINT FRANCIS HOSPIT	2230 LILIHA ST	HI SHWS, HI LUST, HI UST, HI SPILLS	Higher	4645, 0.880, NE
142	HAWAIIAN ELECTRIC -	170 ALA MOANA BOULEV	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-CESQG, HI	Lower	4689, 0.888, South
143	SAKE BREWERY & ICE C		FUDS	Higher	4718, 0.894, ENE
144	QUEEN'S MEDICAL CENT	1301 PUNCHBOWL ST	HI SHWS, HI LUST, HI UST, HI AIRS, HI Financial...	Higher	4871, 0.923, SE
145	HONOLULU SAKE BREWER	2150 BOOTH RD	HI SHWS, HI LUST, HI UST, HI SPILLS	Higher	5168, 0.979, East

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ..... National Priority List
Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ..... Federal Facility Site Information listing

Federal RCRA generators list

RCRA-LQG ..... RCRA - Large Quantity Generators

Federal institutional controls / engineering controls registries

LUCIS ..... Land Use Control Information System
US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls

Federal ERNS list

ERNS ..... Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

HI SWF/LF ..... Permitted Landfills in the State of Hawaii

State and tribal leaking storage tank lists

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ..... Underground Storage Tank Listing

INDIAN UST - Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP - Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

HI BROWNFIELDS - Brownfields Sites

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS - A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI - Report on the Status of Open Dumps on Indian Lands
ODI - Open Dump Inventory
DEBRIS REGION 9 - Torres Martinez Reservation Illegal Dump Site Locations

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL - Delisted National Clandestine Laboratory Register
HI CDL - Clandestine Drug Lab Listing
US CDL - National Clandestine Laboratory Register

Local Land Records

LIENS 2 - CERCLA Lien Information

Records of Emergency Release Reports

HMIRS - Hazardous Materials Information Reporting System
HI SPILLS 90 - SPILLS 90 data from FirstSearch

Other Ascertainable Records

SCRD DRYCLEANERS - State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR - Financial Assurance Information
TSCA - Toxic Substances Control Act
TRIS - Toxic Chemical Release Inventory System
SSTS - Section 7 Tracking Systems
ROD - Records Of Decision
RMP - Risk Management Plans
RAATS - RCRA Administrative Action Tracking System
PRP - Potentially Responsible Parties
PADS - PCB Activity Database System
ICIS - Integrated Compliance Information System
MLTS - Material Licensing Tracking System
COAL ASH DOE - Steam-Electric Plant Operation Data
COAL ASH EPA - Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER - PCB Transformer Registration Database

RADINFO - Radiation Information Database
DOT OPS - Incident and Accident Data
CONSENT - Superfund (CERCLA) Consent Decrees
INDIAN RESERV - Indian Reservations
FUSRAP - Formerly Utilized Sites Remedial Action Program
UMTRA - Uranium Mill Tailings Sites
LEAD SMELTERS - Lead Smelter Sites
US AIRS - Aerometric Information Retrieval System Facility Subsystem
US MINES - Mines Master Index File
UXO - Unexploded Ordnance Sites
HI DRYCLEANERS - Permitted Drycleaner Facility Listing

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

HI RGA HWS - Recovered Government Archive State Hazardous Waste Facilities List
HI RGA LF - Recovered Government Archive Solid Waste Facilities List
HI RGA LUST - Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 03/07/2016 has revealed that there are 4 SEMS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PEARL HARBOR NAVY PU	***NAVAL STATION AREA***	***S 1/4 - 1/2 (0.367 mi.)***	***S73***	***99***
USNAVY SUBASE PEARL	***USNAVY SUBASE PEARL***	***S 1/4 - 1/2 (0.367 mi.)***	***S74***	***101***
USNAVY NAVY EXCHANGE	***MOANALUA RD KAIMAKAN***	***S 1/4 - 1/2 (0.367 mi.)***	***S76***	***106***

Lower Elevation	Address	Direction / Distance	Map ID	Page
KAPALAMA INCINERATOR	757 KOKEA STREET	WNW 1/4 - 1/2 (0.389 mi.)	U81	115

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 03/07/2016 has revealed that there are 2 SEMS-ARCHIVE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DOLE PACKAGED FOODS	***801 DILLINGHAM BLVD.***	***W 1/8 - 1/4 (0.210 mi.)***	***M44***	***63***
KAALA AFS	***TAXIWAY 5 & KAMAKAHI***	***S 1/4 - 1/2 (0.367 mi.)***	***S75***	***105***

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 12/09/2015 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
HAWAIIAN ELECTRIC -	***170 ALA MOANA BOULEV***	***S 1/2 - 1 (0.888 mi.)***	***142***	***223***

Federal RCRA generators list

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 12/09/2015 has revealed that there are

7 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KING STREET SHELL	666 N KING ST	W 0 - 1/8 (0.023 mi.)	B6	12
TOGUCHI SVC STATION	***825 N VINEYARD BLVD***	***N 0 - 1/8 (0.061 mi.)***	***10***	***17***
CHEVRON 99080	743 N KING ST	WNW 0 - 1/8 (0.078 mi.)	C15	23
BANYAN STREET MANOR	1122 BANYAN ST	NW 0 - 1/8 (0.080 mi.)	16	25
CUTTER DODGE INC	***735 DILLINGHAM BLVD***	***WSW 1/8 - 1/4 (0.170 mi.)***	***I37***	***50***

Lower Elevation	Address	Direction / Distance	Map ID	Page
KUKUI GARDENS MAKAI	1103 LILIHA ST	SSE 0 - 1/8 (0.011 mi.)	1	8
ALOHA FENDER INC	***915 KAAAHI PL***	***SSW 1/8 - 1/4 (0.135 mi.)***	***G33***	***43***

State- and tribal - equivalent CERCLIS

HI SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Health.

A review of the HI SHWS list, as provided by EDR, and dated 01/22/2016 has revealed that there are 74 HI SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HALL MARK DRY CLEANE	1470 LILIHA ST	ENE 0 - 1/8 (0.102 mi.)	E20	30
LANCE GOYA CHEVRON	***504 N SCHOOL ST***	***ENE 1/8 - 1/4 (0.196 mi.)***	***39***	***53***
DOLE IWILEI	***801 DILLINGHAM BLVD***	***W 1/8 - 1/4 (0.210 mi.)***	***M45***	***65***
KEKAULIKE DIAMOND HE	***163 N HOTEL ST***	***S 1/4 - 1/2 (0.375 mi.)***	***S77***	***110***
KUAKINI MEDICAL CENT	***347 N KUAKINI ST***	***ENE 1/4 - 1/2 (0.425 mi.)***	***88***	***129***
YEE HOP BUILDING MAU	950 MAUNAKEA ST	S 1/4 - 1/2 (0.484 mi.)	99	144
RICHARD'S CHEVRON	***1909 NUUANU AVE***	***E 1/2 - 1 (0.680 mi.)***	***131***	***204***
CAPITOL PLACE DEVELO	1212 QUEEN EMMA ST	SSE 1/2 - 1 (0.704 mi.)	135	211
1385 COLBURN STREET	1385 COLBURN ST	WNW 1/2 - 1 (0.707 mi.)	AJ136	212
GENERAL TIRE	***505 WAIAKAMILO RD***	***WNW 1/2 - 1 (0.740 mi.)***	***AJ137***	***213***
FARRINGTON HIGH SCHO	***1564 N KING ST***	***NW 1/2 - 1 (0.847 mi.)***	***140***	***217***
SAINT FRANCIS HOSPIT	***2230 LILIHA ST***	***NE 1/2 - 1 (0.880 mi.)***	***141***	***220***
QUEEN'S MEDICAL CENT	***1301 PUNCHBOWL ST***	***SE 1/2 - 1 (0.923 mi.)***	***144***	***237***
HONOLULU SAKE BREWER	***2150 BOOTH RD***	***E 1/2 - 1 (0.979 mi.)***	***145***	***240***

Lower Elevation	Address	Direction / Distance	Map ID	Page
VON HAMM TEXTILES	***546 KAAAHI ST***	***SW 0 - 1/8 (0.116 mi.)***	***D25***	***33***
NUUANU AUTO COMPANY	545 KAAAHI ST	SW 0 - 1/8 (0.122 mi.)	D28	36
LILIHA CIVIC CENTER	337 N KING ST	S 1/8 - 1/4 (0.193 mi.)	H38	52
SENIOR RESIDENCES AT	***888 IWILEI RD***	***SSW 1/8 - 1/4 (0.216 mi.)***	***L47***	***69***
IWILEI FRUIT AND VEG	***920 IWILEI ROAD***	***SSW 1/8 - 1/4 (0.218 mi.)***	***N48***	***69***
373 NORTH NIMITZ HIG	***373 N NIMITZ HWY***	***SSW 1/8 - 1/4 (0.244 mi.)***	***N52***	***73***
IWILEI PROJECT SITE	IWILEI RD & N KING S	S 1/8 - 1/4 (0.250 mi.)	O56	78
TRAVEL PLAZA TRANSPO	***818 PINE ST***	***SW 1/4 - 1/2 (0.251 mi.)***	***J57***	***78***
TOWN INN	***248-258 N BERETANIA***	***SSE 1/4 - 1/2 (0.262 mi.)***	***58***	***82***
215 NORTH KING STREE	215 N KING ST	S 1/4 - 1/2 (0.287 mi.)	O60	87
OWNED BY CCI, LEASED	***925 DILLINGHAM BLVD***	***W 1/4 - 1/2 (0.290 mi.)***	***P61***	***87***
THEO DAVIES CATERPIL	***935 DILLINGHAM BLVD***	***W 1/4 - 1/2 (0.300 mi.)***	***P65***	***91***
HONOLULU COMMUNITY C	874 DILLINGHAM BLVD	W 1/4 - 1/2 (0.314 mi.)	P66	92

Lower Elevation	Address	Direction / Distance	Map ID	Page
IWILEI BUSINESS CENT	*501 SUMNER ST*	*WSW 1/4 - 1/2 (0.316 mi.)*	*67*	*93*
420-470 NORTH NIMITZ	*420-470 N NIMITZ HWY*	*SSW 1/4 - 1/2 (0.336 mi.)*	*Q69*	*95*
JBL HAWAII, LTD	*905 KOKEA ST*	*NW 1/4 - 1/2 (0.362 mi.)*	*R71*	*97*
KAPALAMA INCINERATOR	*757 KOKEA ST*	*WNW 1/4 - 1/2 (0.389 mi.)*	*U80*	*112*
AWA WASTEWATER PUMP	*190 N NIMITZ HWY*	*S 1/4 - 1/2 (0.390 mi.)*	*82*	*117*
MID PAC PETROLEUM LL	*540 N NIMITZ HWY*	*SW 1/4 - 1/2 (0.403 mi.)*	*V83*	*118*
GTE-HAWAIIAN TEL EMP	*1138 N KING ST*	*NW 1/4 - 1/2 (0.428 mi.)*	*W89*	*133*
COSTCO WAREHOUSE	*525 ALAKAWA ST*	*W 1/4 - 1/2 (0.432 mi.)*	*X90*	*134*
COSTCO GAS STATION	*520 ALAKAWA ST*	*W 1/4 - 1/2 (0.440 mi.)*	*X91*	*135*
580 NORTH NIMITZ HIG	*580 N NIMITZ HWY*	*SW 1/4 - 1/2 (0.453 mi.)*	*V95*	*138*
CITY MILL	*660 N NIMITZ HWY*	*SW 1/4 - 1/2 (0.465 mi.)*	*Y96*	*139*
BHP GASCO BENZENE SI	*616 IWILEI RD*	*WSW 1/4 - 1/2 (0.479 mi.)*	*Z97*	*141*
ZIPPY'S 634 N NIMITZ	*634 N NIMITZ HWY*	*SW 1/4 - 1/2 (0.485 mi.)*	*Y100*	*145*
POLYNESIAN HOSPITALI	*330 PACIFIC ST*	*SW 1/2 - 1 (0.504 mi.)*	*AA103*	*149*
356 PACIFIC STREET B	*356 PACIFIC ST*	*WSW 1/2 - 1 (0.508 mi.)*	*AA104*	*155*
BREWER ENVIRONMENTAL	*311 PACIFIC ST*	*SW 1/2 - 1 (0.511 mi.)*	*AA105*	*156*
HONOLULU TERMINAL TA	*411 PACIFIC STREET*	*WSW 1/2 - 1 (0.511 mi.)*	*AA106*	*159*
TAKAMIYA PROPERTY	*850 MOOWAA ST*	*NW 1/2 - 1 (0.541 mi.)*	*AB107*	*166*
ROSS TRUSTS	*819 MOOWAA ST*	*NW 1/2 - 1 (0.543 mi.)*	*AB108*	*167*
HOME DEPOT	*421 ALAKAWA ST*	*WSW 1/2 - 1 (0.546 mi.)*	*109*	*168*
HAWAIIAN GRAIN CORPO	*701 N NIMITZ HWY*	*SW 1/2 - 1 (0.547 mi.)*	*AC110*	*169*
CLASSIC BOWL	1190 DILLINGHAM BLVD	WNW 1/2 - 1 (0.548 mi.)	111	170
HAWAIIAN FLOUR MILL	703 N NIMITZ HWY	SW 1/2 - 1 (0.561 mi.)	AC112	171
MOANA PAA KAI	*705 N NIMITZ HWY*	*SW 1/2 - 1 (0.564 mi.)*	*AC113*	*172*
SAUSE BROTHERS	*ALAKEA ST*	*SW 1/2 - 1 (0.565 mi.)*	*AC114*	*178*
700 N NIMITZ IDPP RE	*700 N NIMITZ HWY*	*SW 1/2 - 1 (0.568 mi.)*	*AD115*	*181*
BHP PIER 29	739 N NIMITZ HWY	SW 1/2 - 1 (0.599 mi.)	AD116	182
755 N NIMITZ HWY	*755 N NIMITZ HWY*	*SW 1/2 - 1 (0.616 mi.)*	*AD117*	*183*
775 NORTH NIMITZ HIG	*775 N NIMITZ HWY*	*SW 1/2 - 1 (0.636 mi.)*	*AE118*	*184*
KAMEHAMEHA SCHOOLS -	*1336 DILLINGHAM BLVD*	*WNW 1/2 - 1 (0.639 mi.)*	*119*	*185*
EQUILON ENTERPRISES	789 N NIMITZ HWY	SW 1/2 - 1 (0.650 mi.)	AE120	186
PAULEY PETROLEUM	*795 N NIMITZ HWY*	*SW 1/2 - 1 (0.652 mi.)*	*AE121*	*187*
WEYERHAEUSER	*900 N NIMITZ HWY*	*WSW 1/2 - 1 (0.657 mi.)*	*AF122*	*189*
MCCABE, HAMILTON, &	*1130 N NIMITZ HWY*	*W 1/2 - 1 (0.662 mi.)*	*AG123*	*191*
GTE HAWAIIAN TEL - C	*ALAKAWA ST & NIMITZ*	*WSW 1/2 - 1 (0.662 mi.)*	*AH124*	*192*
CHEVRON HONOLULU TRA	*933 N NIMITZ HWY*	*WSW 1/2 - 1 (0.664 mi.)*	*AF125*	*193*
HAWAIIAN ELECTRIC CO	*855 N NIMITZ HWY*	*WSW 1/2 - 1 (0.666 mi.)*	*AI126*	*194*
HAWAII STEVEDORES	*965 N NIMITZ HWY*	*WSW 1/2 - 1 (0.666 mi.)*	*AH127*	*196*
861-869 NORTH NIMITZ	*861-869 N NIMITZ HWY*	*WSW 1/2 - 1 (0.668 mi.)*	*AI128*	*198*
HART STREET WASTEWAT	*1031 N. NIMITZ HWY.*	*WSW 1/2 - 1 (0.675 mi.)*	*AH129*	*199*
CHEVRON KAPALAMA TER	*1105 N NIMITZ HWY*	*WSW 1/2 - 1 (0.678 mi.)*	*AG130*	*200*
HARBOR COURT	66 QUEEN ST	S 1/2 - 1 (0.680 mi.)	132	205
DOMESTIC COMMERCIAL	*1133 N NIMITZ HWY*	*W 1/2 - 1 (0.681 mi.)*	*AG133*	*206*
CHEVRON HONOLULU TER	*777 N NIMITZ HWY*	*SW 1/2 - 1 (0.696 mi.)*	*134*	*209*
1305 HART STREET	*1305 HART ST*	*W 1/2 - 1 (0.779 mi.)*	*138*	*214*
YOUNG BROTHERS, LTD.	*1331 N NIMITZ HWY*	*W 1/2 - 1 (0.845 mi.)*	*139*	*215*
HAWAIIAN ELECTRIC -	*170 ALA MOANA BOULEV*	*S 1/2 - 1 (0.888 mi.)*	*142*	*223*

State and tribal leaking storage tank lists

HI LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Health's Active Leaking Underground Storage Tank Log Listing.

A review of the HI LUST list, as provided by EDR, and dated 01/13/2016 has revealed that there are 38 HI LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AIM KING STREET SHEL	*666 N KING ST*	*W 0 - 1/8 (0.023 mi.)*	*B5*	*11*
Release ID: 080030				
Release ID: 030030				
Release ID: 020033				
Facility Id: 9-101026				
Facility Status: Site Cleanup Completed (NFA)				
YICK LUNG CO., INC.	*580 DILLINGHAM BLVD*	*SW 0 - 1/8 (0.103 mi.)*	*D22*	*31*
Release ID: 910068				
Facility Id: 9-101500				
Facility Status: Site Cleanup Completed (NFA)				
RICHARD TOM	*963 ROBELLO LN*	*W 0 - 1/8 (0.109 mi.)*	*F24*	*32*
Release ID: 990055				
Facility Id: 9-101574				
Facility Status: Site Cleanup Completed (NFA)				
YICK LUNG CO., INC.	*602 DILLINGHAM BLVD*	*WSW 0 - 1/8 (0.119 mi.)*	*D26*	*34*
Release ID: 940084				
Facility Id: 9-101499				
Facility Status: Site Cleanup Completed (NFA)				
TESORO 2GO #61022	*1311 PALAMA ST*	*NNW 1/8 - 1/4 (0.144 mi.)*	*34*	*44*
Release ID: 980039				
Facility Id: 9-100348				
Facility Status: Site Cleanup Completed (NFA)				
CUTTER DODGE AUTO SE	*735 DILLINGHAM BLVD*	*WSW 1/8 - 1/4 (0.170 mi.)*	*I36*	*49*
Release ID: 950111				
Facility Id: 9-101718				
Facility Status: Site Cleanup Completed (NFA)				
LANCE GOYA CHEVRON	*504 N SCHOOL ST*	*ENE 1/8 - 1/4 (0.196 mi.)*	*39*	*53*
Release ID: 030004				
Release ID: 980240				
Release ID: 030003				
Facility Id: 9-101259				
Facility Status: Site Cleanup Completed with EHMP				
Facility Status: Site Cleanup Completed (NFA)				
DOLE IWILEI CANNERY	*801 DILLINGHAM BLVD*	*W 1/8 - 1/4 (0.210 mi.)*	*M46*	*67*
Release ID: 940172				
Facility Id: 9-100746				
Facility Status: Site Cleanup Completed (NFA)				
SNAPPY SERVICE	*719 N SCHOOL ST*	*NNE 1/8 - 1/4 (0.232 mi.)*	*51*	*72*
Release ID: 900093				
Facility Id: 9-100858				
Facility Status: Site Cleanup Completed with EHE/EHMP				
MAHALO NORTH KING AU	*1010 N KING ST*	*NW 1/4 - 1/2 (0.286 mi.)*	*59*	*83*

Release ID: 080009
Release ID: 980145
Facility Id: 9-100339
Facility Status: Site Cleanup Completed with EHMP
Facility Status: Site Cleanup Completed (NFA)

PALAMA ELDERLY HOUSI — ***851 N SCHOOL ST*** — ***NNE 1/4 - 1/2 (0.299 mi.)*** — ***64*** — ***90***
Release ID: 950012
Facility Id: 9-102887
Facility Status: Site Cleanup Completed (NFA)

LILIHA CHEVRON — ***1748 LILIHA ST*** — ***ENE 1/4 - 1/2 (0.375 mi.)*** — ***T78*** — ***111***
Release ID: 920133
Facility Id: 9-102069
Facility Status: Site Cleanup Completed (NFA)

B & A AUTOMOTIVE — ***1739 LILIHA ST*** — ***ENE 1/4 - 1/2 (0.376 mi.)*** — ***T79*** — ***112***
Release ID: 940056
Facility Id: 9-101426
Facility Status: Site Cleanup Completed (NFA)

HAWAII HOUSING AUTHO — ***1002 N SCHOOL ST*** — ***N 1/4 - 1/2 (0.419 mi.)*** — ***85*** — ***127***
Release ID: 940197
Facility Id: 9-101036
Facility Status: Site Cleanup Completed (NFA)

KUAKINI MEDICAL CENT — ***347 N KUAKINI ST*** — ***ENE 1/4 - 1/2 (0.425 mi.)*** — ***88*** — ***129***
Release ID: 100019
Release ID: 910061
Release ID: 980098
Facility Id: 9-100264
Facility Status: Site Cleanup Completed with EHE/EHMP
Facility Status: Site Cleanup Completed (NFA)

7-ELEVEN NUUANU PALI — ***1602 NUUANU AVE*** — ***ESE 1/4 - 1/2 (0.498 mi.)*** — ***101*** — ***146***
Release ID: 980151
Release ID: 050030
Facility Id: 9-101725
Facility Status: Site Cleanup Completed (NFA)

Lower Elevation	Address	Direction / Distance	Map ID	Page

KINGSGATE PLAZA — ***516 DILLINGHAM BLVD*** — ***SW 0 - 1/8 (0.032 mi.)*** — ***A7*** — ***14***
Release ID: 900030
Facility Id: 9-102172
Facility Status: Site Cleanup Completed (NFA)

MAUNAWILI PRODUCE, I — ***914 KAAAHI PL*** — ***SSW 1/8 - 1/4 (0.130 mi.)*** — ***G29*** — ***37***
Release ID: 930022
Facility Id: 9-100272
Facility Status: Site Cleanup Completed (NFA)

MAUNAWILI PRODUCE — ***906 KAAAHI PL*** — ***SSW 1/8 - 1/4 (0.132 mi.)*** — ***G32*** — ***42***
Release ID: 990177
Facility Id: 9-101518
Facility Status: Site Cleanup Completed (NFA)

HONOLULU COMMUNITY A — ***337 & 357 N KING ST*** — ***S 1/8 - 1/4 (0.167 mi.)*** — ***H35*** — ***48***
Release ID: 940111
Facility Id: 9-101814
Facility Status: Site Cleanup Completed (NFA)

ISLAND MOVERS, INC. — ***414 KUWILI STHONOLUL*** — ***SSW 1/8 - 1/4 (0.207 mi.)*** — ***L42*** — ***61***

Release ID: 010005
Facility Id: 9-100936
Facility Status: Site Cleanup Completed (NFA)

IWILEI FRUIT AND VEG — ***920 IWILEI ROAD*** — ***SSW 1/8 - 1/4 (0.218 mi.)*** — ***N48*** — ***69***
Release ID: 020031
Facility Id: 9-103747
Facility Status: Site Cleanup Completed (NFA)

STEELTECH INC — ***373 N NIMITZ HWY*** — ***SSW 1/8 - 1/4 (0.244 mi.)*** — ***N53*** — ***75***
Release ID: 060004
Release ID: 940156
Facility Id: 9-102947
Facility Status: Site Cleanup Completed (NFA)

TRAVEL PLAZA TRANSPO — ***818 PINE ST*** — ***SW 1/4 - 1/2 (0.251 mi.)*** — ***J57*** — ***78***
Release ID: 960094
Release ID: 950040
Facility Id: 9-102991
Facility Status: Site Cleanup Completed (NFA)

SPRINT LOT — ***925 DILLINGHAM BLVD*** — ***W 1/4 - 1/2 (0.290 mi.)*** — ***P62*** — ***89***
Release ID: 030041
Facility Id: 9-103769
Facility Status: Site Cleanup Completed (NFA)

HONOLULU COMMUNITY C — ***DILLINGHAM BLVD*** — ***WNW 1/4 - 1/2 (0.298 mi.)*** — ***63*** — ***89***
Release ID: 970108
Facility Id: 9-103285
Facility Status: Site Cleanup Completed (NFA)

420 N. NIMITS HWY DE — ***420 N. NIMITZ HWY*** — ***SSW 1/4 - 1/2 (0.336 mi.)*** — ***Q68*** — ***94***
Release ID: 100031
Facility Id: 9-103898
Facility Status: Site Cleanup Completed (NFA)

KING'S SERVICE — ***1070 N KING ST*** — ***NW 1/4 - 1/2 (0.350 mi.)*** — ***70*** — ***96***
Release ID: 870007
Facility Id: 9-101111
Facility Status: Site Cleanup Completed (NFA)

JBL HAWAII LTD — ***905 KOKEA ST*** — ***NW 1/4 - 1/2 (0.362 mi.)*** — ***R72*** — ***98***
Release ID: 920012
Facility Id: 9-102462
Facility Status: Site Cleanup Completed (NFA)

MID PAC PETROLEUM LL — ***540 N NIMITZ HWY*** — ***SW 1/4 - 1/2 (0.403 mi.)*** — ***V83*** — ***118***
Release ID: 080018
Release ID: 070010
Release ID: 920166
Release ID: 970015
Facility Id: 9-100017
Facility Status: Site Cleanup Completed (NFA)

7-11 KAPALAMA — ***1136 N KING ST.*** — ***NW 1/4 - 1/2 (0.412 mi.)*** — ***W84*** — ***123***
Release ID: 930033
Facility Id: 9-100028
Facility Status: Site Cleanup Completed (NFA)

AA ELECTRIC, LTD. — ***500 ALA KAWA ST, APT*** — ***W 1/4 - 1/2 (0.420 mi.)*** — ***X86*** — ***128***
Release ID: 940080
Facility Id: 9-101711

Facility Status: Site Cleanup Completed (NFA)

OAHU PLUMBING & SHEE — ***926 KOHOU ST*** — ***NW 1/4 - 1/2 (0.421 mi.)*** — ***R87*** — ***128***
Release ID: 990119
Facility Id: 9-101367
Facility Status: Site Cleanup Completed (NFA)

SHIMAYA SHOTEN, LTD. — ***710 KOHOU ST*** — ***WNW 1/4 - 1/2 (0.442 mi.)*** — ***U92*** — ***136***
Release ID: 900044
Facility Id: 9-101425
Facility Status: Site Cleanup Completed (NFA)

JOHIRO BROTHERS, INC — ***1240 MOOKAULA ST*** — ***NW 1/4 - 1/2 (0.451 mi.)*** — ***93*** — ***137***
Release ID: 930050
Facility Id: 9-100258
Facility Status: Site Cleanup Completed (NFA)

HARRY & JEANETTE WEI — ***580 N NIMITZ HWY*** — ***SW 1/4 - 1/2 (0.453 mi.)*** — ***V94*** — ***137***
Release ID: 950031
Facility Id: 9-102995
Facility Status: Case Transferred to HEER (regulated)

CITY MILL — ***660 N NIMITZ HWY*** — ***SW 1/4 - 1/2 (0.465 mi.)*** — ***Y96*** — ***139***
Release ID: 930073
Facility Id: 9-101398
Facility Status: Site Cleanup Completed (NFA)

COSTCO GAS STATION 6 — ***520 ALA KAWA ST*** — ***W 1/4 - 1/2 (0.479 mi.)*** — ***98*** — ***143***
Release ID: 020010
Facility Id: 9-103315
Facility Status: Site Cleanup Completed (NFA)

State and tribal registered storage tank lists

HI UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Health's Listing of Underground Storage Tanks.

A review of the HI UST list, as provided by EDR, and dated 01/13/2016 has revealed that there are 24 HI UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AIM KING STREET SHEL	***666 N KING ST***	***W 0 - 1/8 (0.023 mi.)***	***B5***	***11***
Tank Status: Currently In Use Facility Id: 9-101026				
GENNESART CHEVRON -	***743 N KING ST***	***WNW 0 - 1/8 (0.067 mi.)***	***C11***	***18***
Tank Status: Permanently Out of Use Tank Status: Currently In Use Facility Id: 9-101113 Date Closed: 12/17/1990 Date Closed: 12/18/1990				
NAKAMURA INVESTMENT	***979 ROBELLO LN***	***W 0 - 1/8 (0.080 mi.)***	***C17***	***26***
Tank Status: Permanently Out of Use Facility Id: 9-102798 Date Closed: 04/22/1992				
HALL-MARK CLEANERS	1470 LILIHA ST	ENE 0 - 1/8 (0.102 mi.)	E19	29

Tank Status: Permanently Out of Use
Facility Id: 9-101378
Date Closed: 07/11/1990
Date Closed: 10/25/1989

YICK LUNG CO., INC. — ***580 DILLINGHAM BLVD*** — ***SW 0 - 1/8 (0.103 mi.)*** — ***D22*** — ***31***
Tank Status: Permanently Out of Use
Facility Id: 9-101500

RICHARD TOM — ***963 ROBELLO LN*** — ***W 0 - 1/8 (0.109 mi.)*** — ***F24*** — ***32***
Tank Status: Permanently Out of Use
Facility Id: 9-101574
Date Closed: 05/21/1998
Date Closed: 06/01/1998

YICK LUNG CO., INC. — ***602 DILLINGHAM BLVD*** — ***WSW 0 - 1/8 (0.119 mi.)*** — ***D26*** — ***34***
Tank Status: Permanently Out of Use
Facility Id: 9-101499
Date Closed: 06/27/1991
Date Closed: 06/28/1991

TESORO 2GO #61022 — ***1311 PALAMA ST*** — ***NNW 1/8 - 1/4 (0.144 mi.)*** — ***34*** — ***44***
Tank Status: Permanently Out of Use
Tank Status: Currently In Use
Facility Id: 9-100348
Date Closed: 02/21/1990
Date Closed: 12/03/1997

CUTTER DODGE AUTO SE — ***735 DILLINGHAM BLVD*** — ***WSW 1/8 - 1/4 (0.170 mi.)*** — ***I36*** — ***49***
Tank Status: Permanently Out of Use
Facility Id: 9-101718
Date Closed: 07/01/1995

LANCE GOYA CHEVRON — ***504 N SCHOOL ST*** — ***ENE 1/8 - 1/4 (0.196 mi.)*** — ***39*** — ***53***
Tank Status: Permanently Out of Use
Facility Id: 9-101259
Date Closed: 10/06/2002
Date Closed: 01/01/1982
Date Closed: 07/01/1997

DOLE IWILEI CANNERY — ***801 DILLINGHAM BLVD*** — ***W 1/8 - 1/4 (0.210 mi.)*** — ***M46*** — ***67***
Tank Status: Permanently Out of Use
Facility Id: 9-100746
Date Closed: 01/01/1977
Date Closed: 12/30/1975
Date Closed: 03/13/1992
Date Closed: 04/29/1993
Date Closed: 01/01/1975

KAPALAMA WAREHOUSE — 922 AUSTIN LN — WNW 1/8 - 1/4 (0.231 mi.) — K50 — 71
Tank Status: Permanently Out of Use
Facility Id: 9-103250
Date Closed: 12/23/1996

SNAPPY SERVICE — ***719 N SCHOOL ST*** — ***NNE 1/8 - 1/4 (0.232 mi.)*** — ***51*** — ***72***
Tank Status: Permanently Out of Use
Facility Id: 9-100858
Date Closed: 01/25/1993
Date Closed: 07/29/1991
Date Closed: 10/25/1993

Lower Elevation	Address	Direction / Distance	Map ID	Page
KINGSGATE PLAZA	***516 DILLINGHAM BLVD***	***SW 0 - 1/8 (0.032 mi.)***	***A7***	***14***

Tank Status: Permanently Out of Use Facility Id: 9-102172				
NAKAOKA PAINTING INC Tank Status: Permanently Out of Use Facility Id: 9-100280	922 KAAMAHU PL	SSW 0 - 1/8 (0.073 mi.)	A12	22
TONY'S LIQUOR AND DE Tank Status: Currently In Use Tank Status: Permanently Out of Use Facility Id: 9-101873 Date Closed: 08/01/1986	***581 DILLINGHAM BLVD***	***SW 0 - 1/8 (0.084 mi.)***	***D18***	***27***
MAUNAWILI PRODUCE, I Tank Status: Permanently Out of Use Facility Id: 9-100272 Date Closed: 11/09/1992	***914 KAAAHI PL***	***SSW 1/8 - 1/4 (0.130 mi.)***	***G29***	***37***
MAUNAWILI PRODUCE Tank Status: Permanently Out of Use Facility Id: 9-101518 Date Closed: 07/17/1989	***906 KAAAHI PL***	***SSW 1/8 - 1/4 (0.132 mi.)***	***G32***	***42***
HONOLULU COMMUNITY A Tank Status: Permanently Out of Use Facility Id: 9-101814 Date Closed: 10/04/1993 Date Closed: 10/01/1993 Date Closed: 09/30/1993	***337 & 357 N KING ST***	***S 1/8 - 1/4 (0.167 mi.)***	***H35***	***48***
ISLAND MOVERS, INC. Tank Status: Permanently Out of Use Facility Id: 9-100936 Date Closed: 10/26/2000 Date Closed: 10/26/2001	***414 KUWILI STHONOLUL***	***SSW 1/8 - 1/4 (0.207 mi.)***	***L42***	***61***
IWILEI FRUIT AND VEG Tank Status: Permanently Out of Use Facility Id: 9-103747 Date Closed: 05/20/2002	***920 IWILEI ROAD***	***SSW 1/8 - 1/4 (0.218 mi.)***	***N48***	***69***
C&CH IWILEI FIRE STA Tank Status: Permanently Out of Use Facility Id: 9-100067 Date Closed: 03/15/1991	840 IWILEI RD	SSW 1/8 - 1/4 (0.228 mi.)	L49	71
STEELTECH INC Tank Status: Permanently Out of Use Facility Id: 9-102947 Date Closed: 06/08/1994	***373 N NIMITZ HWY***	***SSW 1/8 - 1/4 (0.244 mi.)***	***N53***	***75***
CYCLE SPORTS HWAII Tank Status: Permanently Out of Use Facility Id: 9-103801 Date Closed: 10/11/2005 Date Closed: 10/10/2005	818 IWILEI ROAD	SW 1/8 - 1/4 (0.247 mi.)	L54	75

State and tribal institutional control / engineering control registries

HI ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the HI ENG CONTROLS list, as provided by EDR, and dated 01/22/2016 has revealed that there are 12 HI ENG CONTROLS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LANCE GOYA CHEVRON	***504 N SCHOOL ST***	***ENE 1/8 - 1/4 (0.196 mi.)***	***39***	***53***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
VON HAMM TEXTILES	***546 KAAAHI ST***	***SW 0 - 1/8 (0.116 mi.)***	***D25***	***33***
OWNED BY CCI, LEASED	***925 DILLINGHAM BLVD***	***W 1/4 - 1/2 (0.290 mi.)***	***P61***	***87***
THEO DAVIES CATERPIL	***935 DILLINGHAM BLVD***	***W 1/4 - 1/2 (0.300 mi.)***	***P65***	***91***
420-470 NORTH NIMITZ	***420-470 N NIMITZ HWY***	***SSW 1/4 - 1/2 (0.336 mi.)***	***Q69***	***95***
JBL HAWAII, LTD	***905 KOKEA ST***	***NW 1/4 - 1/2 (0.362 mi.)***	***R71***	***97***
MID PAC PETROLEUM LL	***540 N NIMITZ HWY***	***SW 1/4 - 1/2 (0.403 mi.)***	***V83***	***118***
GTE-HAWAIIAN TEL EMP	***1138 N KING ST***	***NW 1/4 - 1/2 (0.428 mi.)***	***W89***	***133***
COSTCO WAREHOUSE	***525 ALAKAWA ST***	***W 1/4 - 1/2 (0.432 mi.)***	***X90***	***134***
COSTCO GAS STATION	***520 ALAKAWA ST***	***W 1/4 - 1/2 (0.440 mi.)***	***X91***	***135***
580 NORTH NIMITZ HIG	***580 N NIMITZ HWY***	***SW 1/4 - 1/2 (0.453 mi.)***	***V95***	***138***
ZIPPY'S 634 N NIMITZ	***634 N NIMITZ HWY***	***SW 1/4 - 1/2 (0.485 mi.)***	***Y100***	***145***

Voluntary Remediation Program and Brownfields sites with institutional controls in place.

A review of the HI INST CONTROL list, as provided by EDR, and dated 01/22/2016 has revealed that there are 17 HI INST CONTROL sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LANCE GOYA CHEVRON	***504 N SCHOOL ST***	***ENE 1/8 - 1/4 (0.196 mi.)***	***39***	***53***
DOLE IWILEI	***801 DILLINGHAM BLVD***	***W 1/8 - 1/4 (0.210 mi.)***	***M45***	***65***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
VON HAMM TEXTILES	***546 KAAAHI ST***	***SW 0 - 1/8 (0.116 mi.)***	***D25***	***33***
SENIOR RESIDENCES AT	***888 IWILEI RD***	***SSW 1/8 - 1/4 (0.216 mi.)***	***L47***	***69***
TOWN INN	***248-258 N BERETANIA***	***SSE 1/4 - 1/2 (0.262 mi.)***	***58***	***82***
OWNED BY CCI, LEASED	***925 DILLINGHAM BLVD***	***W 1/4 - 1/2 (0.290 mi.)***	***P61***	***87***
THEO DAVIES CATERPIL	***935 DILLINGHAM BLVD***	***W 1/4 - 1/2 (0.300 mi.)***	***P65***	***91***
IWILEI BUSINESS CENT	***501 SUMNER ST***	***WSW 1/4 - 1/2 (0.316 mi.)***	***67***	***93***
JBL HAWAII, LTD	***905 KOKEA ST***	***NW 1/4 - 1/2 (0.362 mi.)***	***R71***	***97***
KAPALAMA INCINERATOR	***757 KOKEA ST***	***WNW 1/4 - 1/2 (0.389 mi.)***	***U80***	***112***
MID PAC PETROLEUM LL	***540 N NIMITZ HWY***	***SW 1/4 - 1/2 (0.403 mi.)***	***V83***	***118***
GTE-HAWAIIAN TEL EMP	***1138 N KING ST***	***NW 1/4 - 1/2 (0.428 mi.)***	***W89***	***133***
COSTCO WAREHOUSE	***525 ALAKAWA ST***	***W 1/4 - 1/2 (0.432 mi.)***	***X90***	***134***
COSTCO GAS STATION	***520 ALAKAWA ST***	***W 1/4 - 1/2 (0.440 mi.)***	***X91***	***135***
CITY MILL	***660 N NIMITZ HWY***	***SW 1/4 - 1/2 (0.465 mi.)***	***Y96***	***139***
BHP GASCO BENZENE SI	***616 IWILEI RD***	***WSW 1/4 - 1/2 (0.479 mi.)***	***Z97***	***141***
ZIPPY'S 634 N NIMITZ	***634 N NIMITZ HWY***	***SW 1/4 - 1/2 (0.485 mi.)***	***Y100***	***145***

State and tribal voluntary cleanup sites

HI VCP: Voluntary Response Program Sites.

A review of the HI VCP list, as provided by EDR, and dated 01/22/2016 has revealed that there are 4 HI VCP sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TOWN INN	*248-258 N BERETANIA*	*SSE 1/4 - 1/2 (0.262 mi.)*	*58*	*82*
OWNED BY CCI, LEASED	*925 DILLINGHAM BLVD*	*W 1/4 - 1/2 (0.290 mi.)*	*P61*	*87*
COSTCO WAREHOUSE	*525 ALAKAWA ST*	*W 1/4 - 1/2 (0.432 mi.)*	*X90*	*134*
COSTCO GAS STATION	*520 ALAKAWA ST*	*W 1/4 - 1/2 (0.440 mi.)*	*X91*	*135*

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/09/2015 has revealed that there are 6 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PIONEER VENTURES INC	*999 ROBELLO LN*	*WNW 0 - 1/8 (0.050 mi.)*	*C9*	*15*
CLEE LTD ASSOCIATE C	*930 AUSTIN LANE*	*WNW 1/8 - 1/4 (0.202 mi.)*	*K41*	*58*
DOLE PACKAGED FOODS	*801 DILLINGHAM BLVD.*	*W 1/8 - 1/4 (0.210 mi.)*	*M44*	*63*

Lower Elevation	Address	Direction / Distance	Map ID	Page
MAUNAWILI PRODUCE, I	*914 KAAAHI PL*	*SSW 1/8 - 1/4 (0.130 mi.)*	*G30*	*38*
R & G TRUCKING	*906 KAAAHI PLACE*	*SSW 1/8 - 1/4 (0.132 mi.)*	*G31*	*39*
SONNYS AUTO REPAIR	*818 IWILEI RD*	*SW 1/8 - 1/4 (0.247 mi.)*	*L55*	*76*

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 01/31/2015 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAKE BREWERY & ICE C		ENE 1/2 - 1 (0.894 mi.)	143	236

DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAND ISLAND MILITARY		SSW 1/4 - 1/2 (0.379 mi.)	0	8

FUELS PROGRAM: This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

A review of the FUELS PROGRAM list, as provided by EDR, and dated 02/22/2016 has revealed that there is 1 FUELS PROGRAM site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
KAPOLEI TERMINAL	431 KUWILI ST	SW 1/8 - 1/4 (0.209 mi.)	L43	62

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the EDR MGP list, as provided by EDR, has revealed that there are 2 EDR MGP sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
HAWAIIAN GAS PRODUCT	516-520 KUWILI ST	SW 1/8 - 1/4 (0.200 mi.)	J40	58
BHP GASCO	432 PACIFIC STREET	WSW 1/2 - 1 (0.503 mi.)	Z102	148

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 8 EDR Hist Auto

sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	574 N VINEYARD BLVD	ENE 0 - 1/8 (0.023 mi.)	4	10
Not reported	999 ROBELLO LN	WNW 0 - 1/8 (0.050 mi.)	C8	15
Not reported	743 N KING ST	WNW 0 - 1/8 (0.078 mi.)	C14	22
Not reported	580 DILLINGHAM BLVD	SW 0 - 1/8 (0.103 mi.)	D21	30
Not reported	963 ROBELLO LN	W 0 - 1/8 (0.109 mi.)	F23	31

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	555 N KING ST	SSW 0 - 1/8 (0.016 mi.)	A2	9
Not reported	922 KAAMAHU PL	SSW 0 - 1/8 (0.073 mi.)	A13	22
Not reported	545 KAAAHI ST	SW 0 - 1/8 (0.122 mi.)	D27	35

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

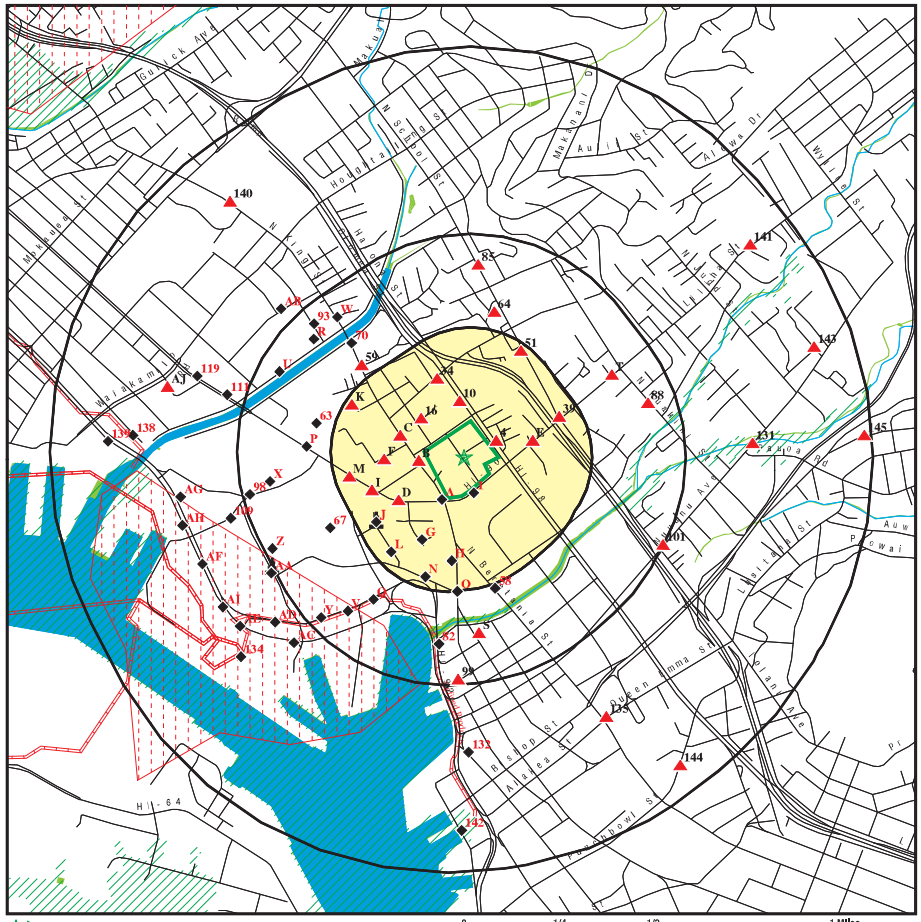
A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	607 N KING ST	WSW 0 - 1/8 (0.020 mi.)	B3	10

Due to poor or inadequate address information, the following sites were not mapped. Count: 11 records.

Site Name	Database(s)
1339 SCHOOL STREET	HI SHWS, HI ENG CONTROLS, HI INST CONTROL
CITIZENS ENERGY SERVICES PIER 38	HI SHWS, HI ENG CONTROLS, HI INST CONTROL, HI SPILLS
ALA WAI HARBOR BOAT REPAIR YARD	HI SHWS
BEST BUY	HI SHWS, HI SPILLS
CANNON CLUB	HI SHWS, HI BROWNFIELDS
KALANI, HART, MOKUAEA STREET, HONO	HI SHWS
ABC DISPOSAL COMPANY	HI SHWS
FORMER KAPALAMA MILITARY RESERVATI	HI SHWS
NIMITZ HIGHWAY WATER IMPROVEMENT P	HI SHWS
KOKUA KALIHI VALLEY ACTIVE LIVING	HI SHWS, HI BROWNFIELDS
PACIFIC RESOURCES, INCORPORATED (G	SEMS-ARCHIVE

OVERVIEW MAP - 4632621.2S



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Mayor Wright Honolulu ADDRESS: 1020 Liliha Street Honolulu HI 96817 LAT/LONG: 21.320088 / 157.863956	CLIENT: Weston Solutions, Inc. CONTACT: Lisa Waskom INQUIRY #: 4632621.2s DATE: May 31, 2016 11:20 am

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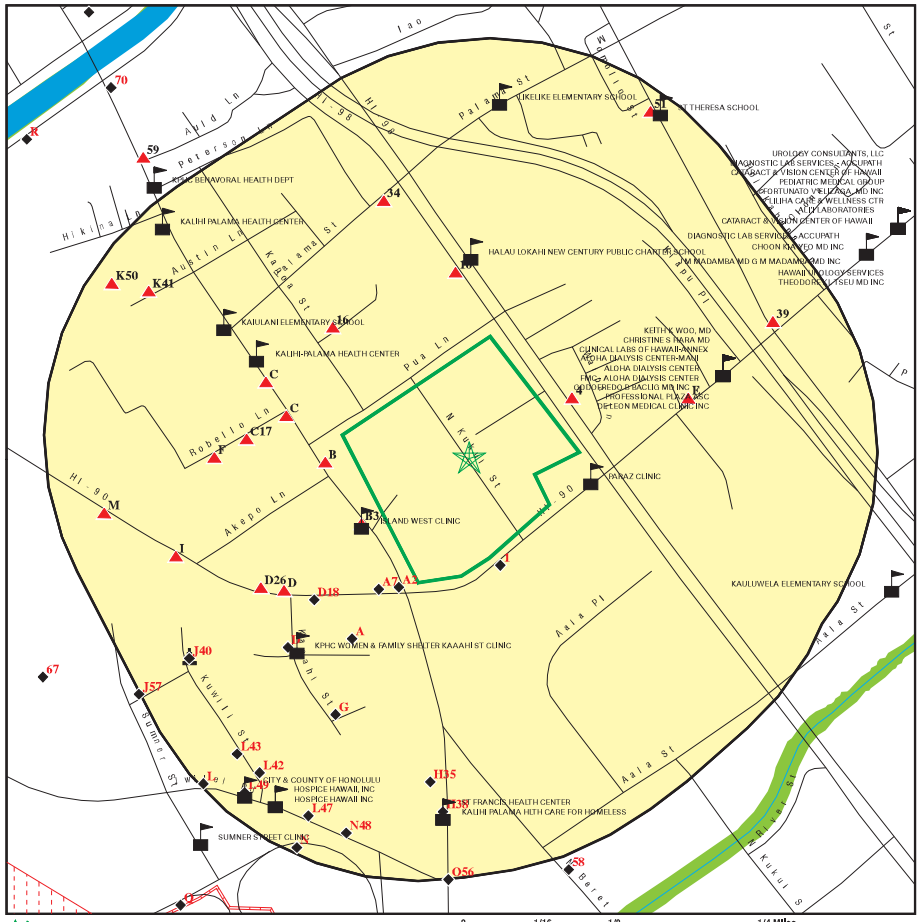
DETAIL MAP - 4632621.2S



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Mayor Wright Honolulu ADDRESS: 1020 Liliha Street Honolulu HI 96817 LAT/LONG: 21.320088 / 157.863956	CLIENT: Weston Solutions, Inc. CONTACT: Lisa Waskom INQUIRY #: 4632621.2s DATE: May 31, 2016 11:22 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	4	NR	NR	4
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	1	1	NR	NR	2
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	1	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		5	2	NR	NR	NR	7
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
HI SHWS	1.000		3	7	22	42	NR	74
State and tribal landfill and/or solid waste disposal site lists								
HI SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
HI LUST	0.500		5	11	22	NR	NR	38
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
HI UST	0.250		10	14	NR	NR	NR	24
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
HI ENG CONTROLS	0.500		1	1	10	NR	NR	12
HI INST CONTROL	0.500		1	3	13	NR	NR	17
State and tribal voluntary cleanup sites								
HI VCP	0.500		0	0	4	NR	NR	4
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
HI BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HI CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
HI SPILLS	TP		NR	NR	NR	NR	NR	0
HI SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	5	NR	NR	NR	6
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		0	0	1	0	NR	1
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
HI AIRS	TP		NR	NR	NR	NR	NR	0
HI DRYCLEANERS	0.250		0	0	NR	NR	NR	0
HI Financial Assurance	TP		NR	NR	NR	NR	NR	0
CA HAZNET	TP		NR	NR	NR	NR	NR	0
HI UIC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	1	NR	NR	NR	1
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	1	0	1	NR	2
EDR Hist Auto	0.125		8	NR	NR	NR	NR	8
EDR Hist Cleaner	0.125		1	NR	NR	NR	NR	1
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
HI RGA HWS	TP		NR	NR	NR	NR	NR	0
HI RGA LF	TP		NR	NR	NR	NR	NR	0
HI RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	35	46	77	45	0	203

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

DOD
Region
SSW
1/4-1/2
2002 ft.

SAND ISLAND MILITARY RESERVATION — DOD — **CUSA147757** / **N/A**

SAND ISLAND MILITARY RESE (County), HI

DOD:
- Feature 1: Army DOD
- Feature 2: Not reported
- Feature 3: Not reported
- URL: Not reported
- Name 1: Sand Island Military Reservation
- Name 2: Not reported
- Name 3: Not reported
- State: HI
- DOD Site: Yes
- Tile name: HIHONOLULU

1
SSE
< 1/8
0.011 mi.
57 ft.

Relative:
Lower

Actual:
9 ft.

KUKUI GARDENS MAKAI — RCRA-CESQG — **1012178249** / **HIR000139048**
1103 LILIHA ST
HONOLULU, HI 96817

RCRA-CESQG:
- Date form received by agency: 01/23/2009
- Facility name: KUKUI GARDENS MAKAI
- Facility address: 1103 LILIHA ST
  #102
  HONOLULU, HI 96817
- EPA ID: HIR000139048
- Contact: ABE M KIA
- Contact address: 1103 LILIHA ST #102
  HONOLULU, HI 96817
- Contact country: US
- Contact telephone: (808) 532-0033
- Contact email: KGM-MANAGER@EAHHOUSING.ORG
- EPA Region: 09
- Classification: Conditionally Exempt Small Quantity Generator
- Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
- Owner/operator name: KUKUI EAH/DGI ASSOCIATES LP
- Owner/operator address: 841 BISHOP ST. #2208
  HONOLULU, HI 96813
- Owner/operator country: Not reported

KUKUI GARDENS MAKAI (Continued) — **1012178249**

- Owner/operator telephone: Not reported
- Legal status: Private
- Owner/Operator Type: Owner
- Owner/Op start date: 12/17/2007
- Owner/Op end date: Not reported

- Owner/operator name: EAH, INC.
- Owner/operator address: 2169 E FRANCISCO BLVD SUITE B
  SAN RAFAEL, CA 94901
- Owner/operator country: Not reported
- Owner/operator telephone: Not reported
- Legal status: Private
- Owner/Operator Type: Operator
- Owner/Op start date: 12/17/2007
- Owner/Op end date: Not reported

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

. Waste code: D009
. Waste name: MERCURY

Violation Status: No violations found

A2
SSW
< 1/8
0.016 mi.
86 ft.

Relative:
Lower

Actual:
7 ft.

555 N KING ST — EDR Hist Auto — **1015552125** / **N/A**
HONOLULU, HI 96817

Site 1 of 4 in cluster A

EDR Historical Auto Stations:
- Name: XPRESS LUBE
- Year: 1999
- Address: 555 N KING ST

- Name: TEXACO XPRESS LUBE
- Year: 2002
- Address: 555 N KING ST

- Name: JIFFY LUBE
- Year: 2007
- Address: 555 N KING ST

- Name: JIFFY LUBE

(Continued) **1015552125**

Year: 2008
Address: 555 N KING ST

Name: JIFFY LUBE
Year: 2010
Address: 555 N KING ST

Name: JIFFY LUBE
Year: 2011
Address: 555 N KING ST

Name: JIFFY LUBE
Year: 2012
Address: 555 N KING ST

B3 **EDR Hist Cleaner** **1015080184**
WSW **607 N KING ST** **N/A**
< 1/8 **HONOLULU, HI 96817**
0.020 mi.
104 ft. **Site 1 of 3 in cluster B**

Relative:
Higher

Actual:
10 ft.

EDR Historical Cleaners:
Name: SHOWROOM INDUSTRIAL CLEANING
Year: 2008
Address: 607 N KING ST

Name: SHOWROOM INDUSTRIAL CLEANING
Year: 2009
Address: 607 N KING ST

---

4 **EDR Hist Auto** **1015558450**
ENE **574 N VINEYARD BLVD** **N/A**
< 1/8 **HONOLULU, HI 96817**
0.023 mi.
122 ft.

Relative:
Higher

Actual:
30 ft.

EDR Historical Auto Stations:
Name: PATS AUTO ELECTRIC
Year: 2010
Address: 574 N VINEYARD BLVD

Name: PATS AUTO ELECTRIC
Year: 2011
Address: 574 N VINEYARD BLVD

Name: PATS AUTO ELECTRIC
Year: 2012
Address: 574 N VINEYARD BLVD

B5 **AIM KING STREET SHELL** **HI LUST** **U001235340**
West **666 N KING ST** **HI UST** **N/A**
< 1/8 **HONOLULU, HI 96817** **HI Financial Assurance**
0.023 mi.
122 ft. **Site 2 of 3 in cluster B**

Relative:
Higher

Actual:
13 ft.

LUST:
Facility ID: 9-101026
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 07/08/2011
Release ID: 080030
Project Officer: Shaobin Li

Facility ID: 9-101026
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 11/07/2003
Release ID: 030030
Project Officer: Shaobin Li

Facility ID: 9-101026
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 11/01/2002
Release ID: 020033
Project Officer: Shaobin Li

UST:
Facility ID: 9-101026
Owner: ALOHA PETROLEUM, LTD.
Owner Address: 1132 BISHOP STREET, SUITE 1700
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.320274
Longitude: -157.865711
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: GPS

Tank ID: 1
Date Installed: 04/18/1984
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 10000
Substance: Gasohol

Tank ID: 2
Date Installed: 04/18/1984
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 10000
Substance: Gasohol

Tank ID: 3
Date Installed: 04/18/1984
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 10000
Substance: Diesel

AIM KING STREET SHELL (Continued) **U001235340**

HI Financial Assurance:
- Alt Facility ID: 9-101026
- Tank Id: 3
- Tank Status: Currently In Use
- FRTYPE: Other
- Expiration Date: Not reported

- Alt Facility ID: 9-101026
- Tank Id: 2
- Tank Status: Currently In Use
- FRTYPE: Other
- Expiration Date: Not reported

- Alt Facility ID: 9-101026
- Tank Id: 1
- Tank Status: Currently In Use
- FRTYPE: Other
- Expiration Date: Not reported

- Alt Facility ID: 9-101026
- Tank Id: 2
- Tank Status: Currently In Use
- FRTYPE: Insurance
- Expiration Date: 04/01/2015

- Alt Facility ID: 9-101026
- Tank Id: 3
- Tank Status: Currently In Use
- FRTYPE: Insurance
- Expiration Date: 04/01/2015

- Alt Facility ID: 9-101026
- Tank Id: 1
- Tank Status: Currently In Use
- FRTYPE: Insurance
- Expiration Date: 04/01/2015

B6 **KING STREET SHELL** **RCRA-CESQG** **1009398532**
West **666 N KING ST** **HIR000137398**
< 1/8 **HONOLULU, HI 96817**
0.023 mi.
122 ft. **Site 3 of 3 in cluster B**

Relative:
Higher

Actual:
13 ft.

RCRA-CESQG:
- Date form received by agency: 03/01/2012
- Facility name: KING STREET SHELL
- Facility address: 666 N KING ST
  HONOLULU, HI 96817
- EPA ID: HIR000137398
- Contact: RICHARD L CONNER
- Contact address: 1132 BISHOP ST, SUITE 1700
  HONOLULU, HI 96813
- Contact country: US
- Contact telephone: (808) 522-9704
- Contact email: RCONNER@ALOHAGAS.COM
- EPA Region: 09
- Classification: Conditionally Exempt Small Quantity Generator

KING STREET SHELL (Continued) **1009398532**

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
- Owner/operator name: ALOHA PETROLEUM LTD
- Owner/operator address: 1132 BISHOP ST, SUITE 1700
  HONOLULU, HI 96813
- Owner/operator country: US
- Owner/operator telephone: (808) 522-9700
- Legal status: Private
- Owner/Operator Type: Owner
- Owner/Op start date: 03/01/1999
- Owner/Op end date: Not reported

- Owner/operator name: ALOHA PETROLEUM LTD
- Owner/operator address: 1132 BISHOP ST, SUITE 1700
  HONOLULU, HI 96813
- Owner/operator country: US
- Owner/operator telephone: (808) 522-9700
- Legal status: Private
- Owner/Operator Type: Operator
- Owner/Op start date: 03/01/1999
- Owner/Op end date: Not reported

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

KING STREET SHELL (Continued) **1009398532**

. Waste code: D018
. Waste name: BENZENE

Historical Generators:
Date form received by agency: 02/27/2006
Site name: SHELL OIL PRODUCTS SAP 139546
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

A7 **KINGSGATE PLAZA** **HI LUST U001235760**
SW **516 DILLINGHAM BLVD** **HI UST N/A**
< 1/8 **HONOLULU, HI 96817**
0.032 mi.
169 ft. **Site 2 of 4 in cluster A**

Relative:
Lower

Actual:
7 ft.

LUST:
Facility ID: 9-102172
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 03/15/1995
Release ID: 900030
Project Officer: Roger Brewer

UST:
Facility ID: 9-102172
Owner: MERTIN LAU
Owner Address: 195 S KING ST 7 TH FLR
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.318560
Longitude: -157.865048
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: R-1
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: Not reported
Tank Capacity: 1000
Substance: Not Listed

Tank ID: R-2
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: Not reported
Tank Capacity: 1000
Substance: Not Listed

Tank ID: R-3
Date Installed: Not reported
Tank Status: **Permanently Out of Use**

KINGSGATE PLAZA (Continued) **U001235760**

Date Closed: Not reported
Tank Capacity: 1000
Substance: Not Listed

Tank ID: R-4
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: Not reported
Tank Capacity: 2000
Substance: Not Listed

Tank ID: R-5
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: Not reported
Tank Capacity: 6000
Substance: Not Listed

Tank ID: R-6
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: Not reported
Tank Capacity: 10000
Substance: Not Listed

C8 **EDR Hist Auto** **1015690957**
WNW **999 ROBELLO LN** **N/A**
< 1/8 **HONOLULU, HI 96817**
0.050 mi.
262 ft. **Site 1 of 6 in cluster C**

Relative:
Higher

Actual:
19 ft.

EDR Historical Auto Stations:
Name: ALOHA AUTO AIR CNDTNNG SPCLST
Year: 2001
Address: 999 ROBELLO LN

C9 **PIONEER VENTURES INC** **RCRA NonGen / NLR 1000688451**
WNW **999 ROBELLO LN** **FINDS HID984468330**
< 1/8 **HONOLULU, HI 96817** **ECHO**
0.050 mi.
262 ft. **Site 2 of 6 in cluster C**

Relative:
Higher

Actual:
19 ft.

RCRA NonGen / NLR:
Date form received by agency: 04/30/1992
Facility name: PIONEER VENTURES INC
Facility address: 999 ROBELLO LN
HONOLULU, HI 96817
EPA ID: HID984468330
Contact: ARII DARRELL
Contact address: 999 ROBELLO LN
HONOLULU, HI 96817
Contact country: US
Contact telephone: (808) 847-6521

PIONEER VENTURES INC (Continued) **1000688451**

Contact email: Not reported
EPA Region: 09
Land type: Other land type
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: PIONEER VENTURES INC
Owner/operator address: 999 ROBELLO LN
HONOLULU, HI 96817
Owner/operator country: Not reported
Owner/operator telephone: (808) 847-6521
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 05/23/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110005727936

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

PIONEER VENTURES INC (Continued) **1000688451**

ECHO:
Envid: 1000688451
Registry ID: 110005727936
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110005727936

10
North
< 1/8
0.061 mi.
323 ft.

Relative:
Higher

Actual:
23 ft.

TOGUCHI SVC STATION LTD **RCRA-CESQG** **1004688810**
825 N VINEYARD BLVD **FINDS** **HID981665466**
HONOLULU, HI 96817 **ECHO**

RCRA-CESQG:
Date form received by agency: 12/17/1993
Facility name: TOGUCHI SVC STATION LTD
Facility address: 825 N VINEYARD BLVD
HONOLULU, HI 96817
EPA ID: HID981665466
Mailing address: N VINEYARD BLVD
HONOLULU, HI 96817
Contact: WAYNE OKUBO
Contact address: 825 N VINEYARD BLVD
HONOLULU, HI 96817
Contact country: US
Contact telephone: (808) 845-6422
Contact email: Not reported
EPA Region: 09
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: TOGUCHI SVC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported

TOGUCHI SVC STATION LTD (Continued) **1004688810**

Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110005725297

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

ECHO:
Envid: 1004688810
Registry ID: 110005725297
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110005725297

C11 WNW < 1/8 0.067 mi. 353 ft. **GENNESART CHEVRON - KING** **HI UST** **U004228166**
743 N KING ST **HI Financial Assurance** **N/A**
HONOLULU, HI 96817

Site 3 of 6 in cluster C

Relative: Higher

Actual: 20 ft.

UST:
Facility ID: 9-101113
Owner: CHEVRON PRODUCTS COMPANY
Owner Address: 91-480 Malakole St
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.320830

GENNESART CHEVRON - KING (Continued) **U004228166**

Longitude: -157.866670
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: GPS

Tank ID: 2
Date Installed: 01/31/1991
Tank Status: Currently In Use
Date Closed: Not reported
Tank Capacity: 10000
Substance: Gasoline

Tank ID: 2
Date Installed: 01/31/1991
Tank Status: Currently In Use
Date Closed: Not reported
Tank Capacity: 10000
Substance: Gasoline

Tank ID: 3
Date Installed: 01/31/1991
Tank Status: Currently In Use
Date Closed: Not reported
Tank Capacity: 10000
Substance: Gasoline

Tank ID: 3
Date Installed: 01/31/1991
Tank Status: Currently In Use
Date Closed: Not reported
Tank Capacity: 10000
Substance: Gasoline

Tank ID: R-4
Date Installed: 03/30/1983
Tank Status: Permanently Out of Use
Date Closed: 12/17/1990
Tank Capacity: 10000
Substance: Gasoline

Tank ID: R-4
Date Installed: 03/30/1983
Tank Status: Permanently Out of Use
Date Closed: 12/17/1990
Tank Capacity: 10000
Substance: Gasoline

Tank ID: R-5
Date Installed: 06/30/1983
Tank Status: Permanently Out of Use
Date Closed: 12/18/1990
Tank Capacity: 10000

GENNESART CHEVRON - KING (Continued) **U004228166**

Substance: Gasoline

Tank ID: R-5
Date Installed: 06/30/1983
Tank Status: Permanently Out of Use
Date Closed: 12/18/1990
Tank Capacity: 10000
Substance: Gasoline

Tank ID: R-6
Date Installed: 06/30/1983
Tank Status: Permanently Out of Use
Date Closed: 12/17/1990
Tank Capacity: 10000
Substance: Gasoline

Tank ID: R-6
Date Installed: 06/30/1983
Tank Status: Permanently Out of Use
Date Closed: 12/17/1990
Tank Capacity: 10000
Substance: Gasoline

Tank ID: diesel
Date Installed: 01/31/1991
Tank Status: Currently In Use
Date Closed: Not reported
Tank Capacity: 10000
Substance: Diesel

Tank ID: diesel
Date Installed: 01/31/1991
Tank Status: Currently In Use
Date Closed: Not reported
Tank Capacity: 10000
Substance: Diesel

HI Financial Assurance:
Alt Facility ID: 9-101113
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101113
Tank Id: 1
Tank Status: Currently In Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101113
Tank Id: R-6

Map ID
Direction
Distance
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

GENNESART CHEVRON - KING (Continued) **U004228166**

Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101113
Tank Id: 2
Tank Status: Currently In Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101113
Tank Id: 3
Tank Status: Currently In Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101113
Tank Id: R-5
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101113
Tank Id: R-6
Tank Status: Permanently Out of Use
FRTYPE: Guarantee
Expiration Date: 04/20/2015

Alt Facility ID: 9-101113
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Guarantee
Expiration Date: 04/20/2015

Alt Facility ID: 9-101113
Tank Id: 3
Tank Status: Currently In Use
FRTYPE: Guarantee
Expiration Date: 04/20/2015

Alt Facility ID: 9-101113
Tank Id: 2
Tank Status: Currently In Use
FRTYPE: Guarantee
Expiration Date: 04/20/2015

Alt Facility ID: 9-101113
Tank Id: 1
Tank Status: Currently In Use
FRTYPE: Guarantee
Expiration Date: 04/20/2015

Alt Facility ID: 9-101113
Tank Id: R-5
Tank Status: Permanently Out of Use
FRTYPE: Guarantee
Expiration Date: 04/20/2015

A12 **NAKAOKA PAINTING INC** **HI UST** **U001235134**
SSW **922 KAAMAHU PL** **N/A**
< 1/8 **HONOLULU, HI 96817**
0.073 mi.
384 ft. **Site 3 of 4 in cluster A**

Relative: UST:
Lower
Facility ID: 9-100280
Owner: NAKAOKA PAINTING, INC.
Actual: Owner Address: 922 KAAMAHU PL
7 ft. Owner City,St,Zip: Honolulu, 96817 96817
Latitude: Not reported
Longitude: Not reported
Horizontal Reference Datum Name: Not reported
Horizontal Collection Method Name: Not reported

Tank ID: R-01
Date Installed: 08/24/1969
Tank Status: **Permanently Out of Use**
Date Closed: Not reported
Tank Capacity: 1000
Substance: Other

Tank ID: R-02
Date Installed: 08/24/1969
Tank Status: **Permanently Out of Use**
Date Closed: Not reported
Tank Capacity: 1000
Substance: Gasoline

A13 **EDR Hist Auto** **1015676017**
SSW **922 KAAMAHU PL** **N/A**
< 1/8 **HONOLULU, HI 96817**
0.073 mi.
384 ft. **Site 4 of 4 in cluster A**

Relative: EDR Historical Auto Stations:
Lower
Name: TESORO HAWAII CORP
Year: 2001
Actual: Address: 922 KAAMAHU PL
7 ft.

C14 **EDR Hist Auto** **1015623029**
WNW **743 N KING ST** **N/A**
< 1/8 **HONOLULU, HI 96817**
0.078 mi.
412 ft. **Site 4 of 6 in cluster C**

Relative: EDR Historical Auto Stations:
Higher
Name: JP CHEVRON
Year: 2001
Actual: Address: 743 N KING ST
20 ft.

Name: JP CHEVRON
Year: 2002
Address: 743 N KING ST

Name: JP CHEVRON

(Continued) **1015623029**

Year: 2003
Address: 743 N KING ST

Name: JP CHEVRON
Year: 2004
Address: 743 N KING ST

Name: JP CHEVRON
Year: 2005
Address: 743 N KING ST

Name: JP CHEVRON
Year: 2006
Address: 743 N KING ST

Name: J P CHEVRON
Year: 2007
Address: 743 N KING ST

Name: CHEVRON J P INNOVATORS LTD
Year: 2009
Address: 743 N KING ST

Name: TOMS CHEVRON
Year: 2010
Address: 743 N KING ST

Name: TOMS CHEVRON
Year: 2011
Address: 743 N KING ST

Name: TOMS CHEVRON
Year: 2012
Address: 743 N KING ST

C15 **CHEVRON 99080** **RCRA-CESQG** **1008880423**
WNW **743 N KING ST** **HIR000137000**
< 1/8 **HONOLULU, HI 96817**
0.078 mi.
412 ft. **Site 5 of 6 in cluster C**

Relative: RCRA-CESQG:
Higher
Date form received by agency: 09/16/2005
Facility name: CHEVRON 99080
Actual: Facility address: 743 N KING ST
20 ft. HONOLULU, HI 96817
EPA ID: HIR000137000
Mailing address: PO BOX 6004
SAN RAMON, CA 94583
Contact: KATHY L NORRIS
Contact address: PO BOX 6004
SAN RAMON, CA 94583
Contact country: US
Contact telephone: 925-842-5931
Contact email: KNORRIS@CHEVRON.COM
EPA Region: 09
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar

CHEVRON 99080 (Continued) **1008880423**

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
- Owner/operator name: CHEVRON USA INC
- Owner/operator address: PO BOX 6004
  SAN RAMON, CA 94583
- Owner/operator country: US
- Owner/operator telephone: Not reported
- Legal status: Private
- Owner/Operator Type: Owner
- Owner/Op start date: 08/01/1962
- Owner/Op end date: Not reported

- Owner/operator name: CHEVRON USA INC
- Owner/operator address: Not reported
  Not reported
- Owner/operator country: US
- Owner/operator telephone: Not reported
- Legal status: Private
- Owner/Operator Type: Operator
- Owner/Op start date: 08/01/1962
- Owner/Op end date: Not reported

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

16
NW
< 1/8
0.080 mi.
420 ft.

Relative:
Higher

Actual:
20 ft.

BANYAN STREET MANOR **RCRA-CESQG** **1014389636**
1122 BANYAN ST **HIR000139733**
HONOLULU, HI 96817

RCRA-CESQG:
- Date form received by agency: 07/06/2010
- Facility name: BANYAN STREET MANOR
- Facility address: 1122 BANYAN ST
  HONOLULU, HI 96817
- EPA ID: HIR000139733
- Mailing address: 408 N BERETANIA ST
  HONOLULU, HI 96817
- Contact: LIZ L FERNANDEZ
- Contact address: 408 N BERETANIA ST
  HONOLULU, HI 96817
- Contact country: US
- Contact telephone: (808) 532-0025
- Contact email: BSM-MANAGER@EAHHOUSING.ORG
- EPA Region: 09
- Classification: Conditionally Exempt Small Quantity Generator
- Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
- Owner/operator name: EAH INC.
- Owner/operator address: 408 N BERETANIA ST
  HONOLULU, HI 96817
- Owner/operator country: US
- Owner/operator telephone: Not reported
- Legal status: Private
- Owner/Operator Type: Operator
- Owner/Op start date: 07/06/2010
- Owner/Op end date: Not reported

- Owner/operator name: HAWAII PUBLIC HOUSING AUTHORITY
- Owner/operator address: PO BOX 17907 C/O STEPHANIE FO
  HONOLULU, HI 96817
- Owner/operator country: US
- Owner/operator telephone: (808) 832-4691
- Legal status: State
- Owner/Operator Type: Owner
- Owner/Op start date: 07/06/2010
- Owner/Op end date: Not reported

BANYAN STREET MANOR (Continued) **1014389636**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Universal Waste Summary:
Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: Not reported

. Waste code: D009
. Waste name: MERCURY

Violation Status: No violations found

C17 **NAKAMURA INVESTMENT GROUP** **HI UST** **U003221795**
West **979 ROBELLO LN** **HI Financial Assurance** **N/A**
< 1/8 **HONOLULU, HI 96800**
0.080 mi.
424 ft. **Site 6 of 6 in cluster C**

Relative:
Higher

Actual:
17 ft.

UST:
Facility ID: 9-102798
Owner: NAKAMURA INVESTMENT CORP
Owner Address: 1001 Dillingham Blvd. Suite 208
Owner City,St,Zip: Honolulu, 96800 96800
Latitude: Not reported
Longitude: Not reported
Horizontal Reference Datum Name: Not reported
Horizontal Collection Method Name: Not reported

Tank ID: R-1
Date Installed: 12/30/1960
Tank Status: **Permanently Out of Use**

NAKAMURA INVESTMENT GROUP (Continued) **U003221795**

Date Closed: 04/22/1992
Tank Capacity: 1000
Substance: GASOLINE

HI Financial Assurance:
Alt Facility ID: 9-102798
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

D18 **TONY'S LIQUOR AND DELI** **HI UST** **U001235611**
SW **581 DILLINGHAM BLVD** **HI Financial Assurance** **N/A**
< 1/8 **HONOLULU, HI 96817**
0.084 mi.
444 ft. **Site 1 of 7 in cluster D**

Relative:
Lower

Actual:
7 ft.

UST:
Facility ID: 9-101873
Owner: ALOHA PETROLEUM, LTD.
Owner Address: 1132 BISHOP STREET, SUITE 1700
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.318040
Longitude: -157.866130
Horizontal Reference Datum Name: NAD27
Horizontal Collection Method Name: GPS

Tank ID: 87
Date Installed: 06/29/1989
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 10000
Substance: Gasoline

Tank ID: 92
Date Installed: 06/29/1989
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 10000
Substance: Gasoline

Tank ID: R-1
Date Installed: 09/15/1966
Tank Status: **Permanently Out of Use**
Date Closed: 08/01/1986
Tank Capacity: 7000
Substance: Gasoline

Tank ID: R-2
Date Installed: 09/15/1966
Tank Status: **Permanently Out of Use**
Date Closed: 08/01/1986
Tank Capacity: 6000
Substance: Gasoline

TONY'S LIQUOR AND DELI (Continued) **U001235611**

Tank ID: R-3
Date Installed: 09/15/1966
Tank Status: **Permanently Out of Use**
Date Closed: 08/01/1986
Tank Capacity: 3000
Substance: Gasoline

Tank ID: R-4
Date Installed: 09/15/1966
Tank Status: **Permanently Out of Use**
Date Closed: 08/01/1986
Tank Capacity: 1000
Substance: Used Oil

HI Financial Assurance:
Alt Facility ID: 9-101873
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101873
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101873
Tank Id: 87
Tank Status: Currently In Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101873
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101873
Tank Id: 92
Tank Status: Currently In Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101873
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101873
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 04/01/2014

TONY'S LIQUOR AND DELI (Continued) **U001235611**

Alt Facility ID: 9-101873
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 04/01/2014

Alt Facility ID: 9-101873
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 04/01/2014

Alt Facility ID: 9-101873
Tank Id: 87
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 04/01/2014

Alt Facility ID: 9-101873
Tank Id: 92
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 04/01/2014

Alt Facility ID: 9-101873
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 04/01/2014

E19 **HALL-MARK CLEANERS** **HI UST** **U001235461**
ENE **1470 LILIHA ST** **N/A**
< 1/8 **HONOLULU, HI 96817**
0.102 mi.
540 ft. **Site 1 of 2 in cluster E**

Relative:
Higher

Actual:
38 ft.

UST:
Facility ID: 9-101378
Owner: HALL-MARK CLEANERS
Owner Address: 1470 LILIHA St
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: Not reported
Longitude: Not reported
Horizontal Reference Datum Name: Not reported
Horizontal Collection Method Name: Not reported

Tank ID: R-001
Date Installed: 08/17/1961
Tank Status: **Permanently Out of Use**
Date Closed: 10/25/1989
Tank Capacity: 550
Substance: Diesel

Tank ID: R-002
Date Installed: 08/17/1961
Tank Status: **Permanently Out of Use**
Date Closed: 07/11/1990

HALL-MARK CLEANERS (Continued) **U001235461**

Tank Capacity: 300
Substance: Other

E20 **HALL MARK DRY CLEANERS** **HI SHWS** **S104534167**
ENE **1470 LILIHA ST** **N/A**
< 1/8 **HONOLULU, HI 96814**
0.102 mi.
540 ft. **Site 2 of 2 in cluster E**

Relative:
Higher

Actual:
38 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Hall Mark Dry Cleaners
HID Number: Not reported
Facility Registry Identifier: 110013790503
Lead Agency: HEER
Program: State
Project Manager: Not reported
Hazard Priority: Low
Potential Hazards And Controls: Hazard Undetermined
Island: Oahu
SDAR Environmental Interest Name: Hall Mark Dry Cleaners
HID Number: Not reported
Facility Registry Identifier: 110013790503
Lead Agency: HEER
Potential Hazard And Controls: Hazard Undetermined
Priority: Low
Assessment: Not reported
Response: Not reported
Nature of Contamination: Found: Diesel contamination from heating oil tank.
Nature of Residual Contamination: Not reported
Use Restrictions: Undetermined
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Not reported
Site Closure Type: Closed - Documentation Inadequate to Evaluate Risk
Document Date: 10/08/1998
Document Number: 2009-670-RP
Document Subject: ISST Site Screening Sheet
Project Manager: Not reported
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

D21 **EDR Hist Auto** **1015560067**
SW **580 DILLINGHAM BLVD** **N/A**
< 1/8 **HONOLULU, HI 96817**
0.103 mi.
543 ft. **Site 2 of 7 in cluster D**

Relative:
Higher

Actual:
10 ft.

EDR Historical Auto Stations:
Name: AUTO DEATAI SHOP
Year: 2006
Address: 580 DILLINGHAM BLVD

D22 **YICK LUNG CO., INC.** **HI LUST** **U001235520**
SW **580 DILLINGHAM BLVD** **HI UST** **N/A**
< 1/8 **HONOLULU, HI 96817**
0.103 mi.
543 ft. **Site 3 of 7 in cluster D**

Relative:
Higher

Actual:
10 ft.

LUST:
Facility ID: 9-101500
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 11/17/1993
Release ID: 910068
Project Officer: Raymond Seid

UST:
Facility ID: 9-101500
Owner: YICK LUNG CO., INC.
Owner Address: 580 DILLINGHAM BLVD
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.318526
Longitude: -157.866137
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: R-1
Date Installed: 01/01/1960
Tank Status: **Permanently Out of Use**
Date Closed: Not reported
Tank Capacity: 1000
Substance: Gasoline

F23 **EDR Hist Auto** **1015685260**
West **963 ROBELLO LN** **N/A**
< 1/8 **HONOLULU, HI 96817**
0.109 mi.
575 ft. **Site 1 of 2 in cluster F**

Relative:
Higher

Actual:
15 ft.

EDR Historical Auto Stations:
Name: ZAKS AUTO & REPAIR
Year: 2001
Address: 963 ROBELLO LN

Name: DG AUTO REPAIR
Year: 2002
Address: 963 ROBELLO LN

Name: MR MOTOR SERVICE
Year: 2003
Address: 963 ROBELLO LN

Name: MR MOTOR SERVICE
Year: 2004
Address: 963 ROBELLO LN

Name: MR MOTOR SERVICE
Year: 2005
Address: 963 ROBELLO LN

Name: ZAKS AUTO REPAIR
Year: 2007

(Continued) **1015685260**

Address: 963 ROBELLO LN

Name: ZAKS AUTO & REPAIR
Year: 2008
Address: 963 ROBELLO LN

Name: MR MOTOR SERVICE
Year: 2009
Address: 963 ROBELLO LN

F24 **RICHARD TOM** **HI LUST U003221678**
West **963 ROBELLO LN** **HI UST N/A**
< 1/8 **HONOLULU, HI 96817** **HI Financial Assurance**
0.109 mi.
575 ft. **Site 2 of 2 in cluster F**

Relative:
Higher

Actual:
15 ft.

LUST:
Facility ID: 9-101574
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 12/04/1998
Release ID: 990055
Project Officer: Eric Sadoyama

UST:
Facility ID: 9-101574
Owner: UNOCAL CORPORATION
Owner Address: 3915 Mission Avenue #7416
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.320003
Longitude: -157.867303
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: R-A
Date Installed: 08/20/1969
Tank Status: **Permanently Out of Use**
Date Closed: 05/21/1998
Tank Capacity: 550
Substance: Gasoline

Tank ID: R-B
Date Installed: 08/20/1969
Tank Status: **Permanently Out of Use**
Date Closed: 06/01/1998
Tank Capacity: 550
Substance: Heating Oil

HI Financial Assurance:
Alt Facility ID: 9-101574
Tank Id: R-A
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

Alt Facility ID: 9-101574
Tank Id: R-B

RICHARD TOM (Continued) **U003221678**

Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

D25 **VON HAMM TEXTILES** **HI SHWS S106820929**
SW **546 KAAAHI ST** **HI ENG CONTROLS N/A**
< 1/8 **HONOLULU, HI 96817** **HI INST CONTROL**
0.116 mi. **HI SPILLS**
610 ft. **Site 4 of 7 in cluster D**

Relative:
Lower

Actual:
7 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Von Hamm Textiles
HID Number: Not reported
Facility Registry Identifier: 110013773309
Lead Agency: HEER
Program: State
Project Manager: Eric Sadoyama
Hazard Priority: NFA
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: Von Hamm Textiles
HID Number: Not reported
Facility Registry Identifier: 110013773309
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: NFA
Assessment: Response Necessary
Response: Response Complete
Nature of Contamination: Found: Lead contamination in soil
Nature of Residual Contamination: Lead in soil
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Engineering Control Required
Description of Restrictions: Prohibit Excavation
Institutional Control: Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: No Further Action Letter - Restricted Use
Document Date: 03/10/2006
Document Number: 2006-141-ES
Document Subject: Determination of "No Further Action" for Release ID 19960521-40
Project Manager: Eric Sadoyama
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:
Supplemental Location Text: Not reported
Zip Suffix: Not reported
Island: Oahu
Potential Hazards And Controls: Hazard Managed With Controls
Engineering Control: Engineering Control Required

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: Not reported
Zip Suffix: Not reported
Island: Oahu

VON HAMM TEXTILES (Continued) **S106820929**

Institutional Control: Government - Hawaii Dept. of Health Letter Issued

HI SPILLS:

Island:	Oahu
Supplemental Loc. Text:	Not reported
Case Number:	19901023
HID Number:	Not reported
Facility Registry Id:	110013773309
Lead and Program:	HEER EP&R
ER:	Not reported
Units:	Kaaahi Street and Kaamahu Place, off Dillingham
Substances:	reported as chemicals
Less Or Greater Than:	Not reported
Numerical Quantity:	Not reported
Units:	Not reported
Activity Type:	Response
Activity Lead:	Terry Corpus
Assignment End Date:	Not reported
Result:	Not reported
File Under:	G. Von Hamm Textiles, Inc.
Latitude:	21.317703
Longitude:	-157.866195

Island:	Oahu
Supplemental Loc. Text:	Not reported
Case Number:	19960521-40
HID Number:	Not reported
Facility Registry Id:	110013773309
Lead and Program:	HEER EP&R
ER:	Not reported
Units:	546 Kaaahi St
Substances:	Lead
Less Or Greater Than:	Not reported
Numerical Quantity:	Not reported
Units:	Not reported
Activity Type:	Response
Activity Lead:	Mike Cripps
Assignment End Date:	Not reported
Result:	Not reported
File Under:	G. Von Hamm Textiles, Inc.
Latitude:	21.317703
Longitude:	-157.866195

D26 **YICK LUNG CO., INC.** **HI LUST U001235519**
WSW **602 DILLINGHAM BLVD** **HI UST N/A**
< 1/8 **HONOLULU, HI 96817**
0.119 mi.
628 ft. **Site 5 of 7 in cluster D**

Relative:
Higher

Actual:
10 ft.

LUST:

Facility ID:	9-101499
Facility Status:	Site Cleanup Completed (NFA)
Facility Status Date:	02/08/1994
Release ID:	940084
Project Officer:	Raymond Seid

YICK LUNG CO., INC. (Continued) **U001235519**

UST:

Facility ID:	9-101499
Owner:	YICK LUNG CO., INC.
Owner Address:	580 DILLINGHAM BLVD
Owner City,St,Zip:	Honolulu, 96817 96817
Latitude:	21.318518
Longitude:	-157.866417
Horizontal Reference Datum Name:	NAD83
Horizontal Collection Method Name:	Address Matching
Tank ID:	R-1
Date Installed:	12/30/1958
Tank Status:	**Permanently Out of Use**
Date Closed:	06/27/1991
Tank Capacity:	3000
Substance:	Gasoline
Tank ID:	R-2
Date Installed:	12/30/1958
Tank Status:	**Permanently Out of Use**
Date Closed:	06/28/1991
Tank Capacity:	2000
Substance:	Gasoline
Tank ID:	R-3
Date Installed:	12/30/1958
Tank Status:	**Permanently Out of Use**
Date Closed:	06/28/1991
Tank Capacity:	5000
Substance:	Gasoline
Tank ID:	R-4
Date Installed:	12/30/1958
Tank Status:	**Permanently Out of Use**
Date Closed:	06/28/1991
Tank Capacity:	280
Substance:	Used Oil

D27 **EDR Hist Auto 1015548104**
SW **545 KAAAHI ST** **N/A**
< 1/8 **HONOLULU, HI 96817**
0.122 mi.
644 ft. **Site 6 of 7 in cluster D**

Relative:
Lower

Actual:
7 ft.

EDR Historical Auto Stations:

Name:	NUUANU AUTO COMPANY LIMITED
Year:	1999
Address:	545 KAAAHI ST
Name:	NUUANU AUTO CO
Year:	2001
Address:	545 KAAAHI ST
Name:	NUUANU AUTO CO

(Continued) **1015548104**

Year: 2002
Address: 545 KAAAHI ST

Name: NUUANU AUTO CO
Year: 2003
Address: 545 KAAAHI ST

Name: NUUANU AUTO CO
Year: 2004
Address: 545 KAAAHI ST

Name: NUUANU AUTO CO LTD
Year: 2005
Address: 545 KAAAHI ST

Name: NUUANU AUTO CO LTD
Year: 2007
Address: 545 KAAAHI ST

Name: NUUANU AUTO CO LTD
Year: 2008
Address: 545 KAAAHI ST

Name: NUUANU AUTO CO LTD
Year: 2009
Address: 545 KAAAHI ST

Name: NUUANU AUTO CO LTD
Year: 2010
Address: 545 KAAAHI ST

Name: NUUANU AUTO CO LTD
Year: 2011
Address: 545 KAAAHI ST

Name: NUUANU AUTO CO LTD
Year: 2012
Address: 545 KAAAHI ST

D28 **NUUANU AUTO COMPANY LTD** **HI SHWS** **S111704825**
SW **545 KAAAHI ST** **N/A**
< 1/8 **HONOLULU, HI 96817**
0.122 mi.
644 ft. **Site 7 of 7 in cluster D**

Relative:
Lower

Actual:
7 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Nuuanu Auto Company LTD
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Program: State
Project Manager: Jordan Nakayama
Hazard Priority: Low
Potential Hazards And Controls: Hazard Undetermined
Island: Oahu

NUUANU AUTO COMPANY LTD (Continued) **S111704825**

SDAR Environmental Interest Name: Nuuanu Auto Company LTD
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Potential Hazard And Controls: Hazard Undetermined
Priority: Low
Assessment: Assessment Ongoing
Response: Not reported
Nature of Contamination: Not reported
Nature of Residual Contamination: Not reported
Use Restrictions: Undetermined
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Not reported
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Jordan Nakayama
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

G29 **MAUNAWILI PRODUCE, INC.** **HI LUST** **U001235127**
SSW **914 KAAAHI PL** **HI UST** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.130 mi.
688 ft. **Site 1 of 5 in cluster G**

Relative:
Lower

Actual:
3 ft.

LUST:
Facility ID: 9-100272
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 10/11/1993
Release ID: 930022
Project Officer: Sheila Mackenzie

UST:
Facility ID: 9-100272
Owner: MAUNAWILI PRODUCE, INC.
Owner Address: 914 KAAAHI PL
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.317077
Longitude: -157.865509
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: R-1
Date Installed: 05/06/1983
Tank Status: **Permanently Out of Use**
Date Closed: 11/09/1992
Tank Capacity: 2000
Substance: Gasoline

Tank ID: R-2
Date Installed: 05/06/1983
Tank Status: **Permanently Out of Use**
Date Closed: 11/09/1992

MAUNAWILI PRODUCE, INC. (Continued) **U001235127**

Tank Capacity: 1000
Substance: Diesel

G30 **MAUNAWILI PRODUCE, INC.** **RCRA NonGen / NLR** **1000823298**
SSW **914 KAAAHI PL** **FINDS** **HID984469627**
1/8-1/4 **HONOLULU, HI 96817** **ECHO**
0.130 mi.
688 ft. **Site 2 of 5 in cluster G**

Relative:
Lower

Actual:
3 ft.

RCRA NonGen / NLR:
Date form received by agency: 08/03/1993
Facility name: MAUNAWILI PRODUCE
Facility address: 914 KAAAHI PL
HONOLULU, HI 96817
EPA ID: HID984469627
Mailing address: KAAAHI PL
HONOLULU, HI 96817
Contact: REYNOLD TAMAYE
Contact address: 914 KAAAHI PL
HONOLULU, HI 96817
Contact country: US
Contact telephone: (808) 262-9043
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: MAUNAWILI PRODUCE INC
Owner/operator address: 914 KAAAHI PL
HONOLULU, HI 96817
Owner/operator country: Not reported
Owner/operator telephone: (808) 922-4422
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

MAUNAWILI PRODUCE, INC. (Continued) **1000823298**

FINDS:

Registry ID: 110005728686

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

ECHO:
Envid: 1000823298
Registry ID: 110005728686
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110005728686

G31 **R & G TRUCKING** **RCRA NonGen / NLR** **1000114936**
SSW **906 KAAAHI PLACE** **FINDS** **HID069804755**
1/8-1/4 **HONOLULU, HI 96817** **ECHO**
0.132 mi.
699 ft. **Site 3 of 5 in cluster G**

Relative:
Lower

Actual:
3 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/22/2013
Facility name: R & G TRUCKING
Facility address: 906 KAAAHI PLACE
HONOLULU, HI 96817
EPA ID: HID069804755
Mailing address: PO BOX 1325
KAILUA, HI 96734
Contact: ENVIRONMENTAL MANAGER
Contact address: 906 KAAAHI PLACE
HONOLULU, HI 96817
Contact country: US
Contact telephone: (808) 841-0808
Contact email: Not reported
EPA Region: 09
Land type: Other land type
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: RAYMOND M ARKUS GARY OKADA
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

R & G TRUCKING (Continued) **1000114936**

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 11/01/1983
Site name: R & G TRUCKING
Classification: Not a generator, verified

Facility Has Received Notices of Violations:
Regulation violated: FR - 263
Area of violation: Transporters - General
Date violation determined: 10/14/1991
Date achieved compliance: 10/14/1996
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 01/11/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 44295
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 263
Area of violation: Transporters - General
Date violation determined: 10/14/1991
Date achieved compliance: 07/29/1992
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

R & G TRUCKING (Continued) **1000114936**

Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 08/15/1985
Date achieved compliance: 08/07/1989
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 12/06/2012
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/29/1992
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/14/1991
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/26/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Transporters - General
Date achieved compliance: 10/14/1996
Evaluation lead agency: State

Evaluation date: 09/26/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Transporters - General
Date achieved compliance: 07/29/1992
Evaluation lead agency: State

Evaluation date: 08/07/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/15/1985

R & G TRUCKING (Continued) **1000114936**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/07/1989
Evaluation lead agency: State

FINDS:

Registry ID: 110005723182

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

ECHO:
Envid: 1000114936
Registry ID: 110005723182
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110005723182

G32 **MAUNAWILI PRODUCE** **HI LUST** **U001235527**
SSW **906 KAAAHI PL** **HI UST** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.132 mi.
699 ft. **Site 4 of 5 in cluster G**

Relative:
Lower

Actual:
3 ft.

LUST:
Facility ID: 9-101518
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 05/03/1999
Release ID: 990177
Project Officer: Jeffrey Ung

UST:
Facility ID: 9-101518
Owner: RICHARD Y. SAKIHAMA TRUST
Owner Address: 1051 ALA LILIKOI ST
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.317017
Longitude: -157.865684
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: R-1
Date Installed: 05/07/1971
Tank Status: **Permanently Out of Use**
Date Closed: 07/17/1989
Tank Capacity: 1000
Substance: Gasoline

G33 **ALOHA FENDER INC** **RCRA-CESQG** **1000823317**
SSW **915 KAAAHI PL** **FINDS** **HID984469817**
1/8-1/4 **HONOLULU, HI 96817** **ECHO**
0.135 mi.
711 ft. **Site 5 of 5 in cluster G**

Relative:
Lower

Actual:
3 ft.

RCRA-CESQG:
Date form received by agency: 02/16/1993
Facility name: ALOHA FENDER INC
Facility address: 915 KAAAHI PL
HONOLULU, HI 968174607
EPA ID: HID984469817
Mailing address: KAAAHI PL
HONOLULU, HI 968174607
Contact: RONALD KANETA
Contact address: 915 KAAAHI PL
HONOLULU, HI 968174607
Contact country: US
Contact telephone: (808) 841-5411
Contact email: Not reported
EPA Region: 09
Land type: Private
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: ALOHA FENDER INC
Owner/operator address: 915 KAAAHI PL
HONOLULU, HI 96817
Owner/operator country: Not reported
Owner/operator telephone: (808) 841-5411
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No

ALOHA FENDER INC (Continued) **1000823317**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 03/16/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/21/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110005728837

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

ECHO:
Envid: 1000823317
Registry ID: 110005728837
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110005728837

34
NNW
1/8-1/4
0.144 mi.
761 ft.

Relative:
Higher

Actual:
20 ft.

TESORO 2GO #61022 **HI LUST U003221598**
1311 PALAMA ST **HI UST N/A**
HONOLULU, HI 96817 **HI Financial Assurance**

LUST:
Facility ID: 9-100348
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 01/29/1998
Release ID: 980039
Project Officer: Steven Okoji

TESORO 2GO #61022 (Continued) **U003221598**

UST:
Facility ID: 9-100348
Owner: HIE Retail, LLC
Owner Address: 800 Gessner Road, Suite 875
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.323030
Longitude: -157.865010
Horizontal Reference Datum Name: NAD27
Horizontal Collection Method Name: GPS

Tank ID: 1
Date Installed: 07/01/1999
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 12000
Substance: Gasohol

Tank ID: 2
Date Installed: 07/01/1999
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 12000
Substance: Gasohol

Tank ID: 3
Date Installed: 07/01/1999
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 5000
Substance: Diesel

Tank ID: R-1
Date Installed: 04/16/1961
Tank Status: **Permanently Out of Use**
Date Closed: 02/21/1990
Tank Capacity: 4000
Substance: Gasoline

Tank ID: R-2
Date Installed: 04/16/1961
Tank Status: **Permanently Out of Use**
Date Closed: 02/21/1990
Tank Capacity: 2000
Substance: Gasoline

Tank ID: R-3
Date Installed: 04/16/1961
Tank Status: **Permanently Out of Use**
Date Closed: 12/03/1997
Tank Capacity: 7000
Substance: Gasoline

TESORO 2GO #61022 (Continued) **U003221598**

Tank ID: R-4
Date Installed: 04/16/1977
Tank Status: **Permanently Out of Use**
Date Closed: 12/03/1997
Tank Capacity: 7000
Substance: Gasoline

Tank ID: R-5
Date Installed: 04/16/1961
Tank Status: **Permanently Out of Use**
Date Closed: 12/03/1997
Tank Capacity: 500
Substance: Used Oil

HI Financial Assurance:
Alt Facility ID: 9-100348
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100348
Tank Id: R-5
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100348
Tank Id: 1
Tank Status: Currently In Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100348
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100348
Tank Id: 2
Tank Status: Currently In Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100348
Tank Id: 3
Tank Status: Currently In Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100348
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

TESORO 2GO #61022 (Continued) **U003221598**

Alt Facility ID: 9-100348
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100348
Tank Id: R-5
Tank Status: Permanently Out of Use
FRTYPE: Guarantee
Expiration Date: 03/29/2013

Alt Facility ID: 9-100348
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Guarantee
Expiration Date: 03/29/2013

Alt Facility ID: 9-100348
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Guarantee
Expiration Date: 03/29/2013

Alt Facility ID: 9-100348
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Guarantee
Expiration Date: 03/29/2013

Alt Facility ID: 9-100348
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Guarantee
Expiration Date: 03/29/2013

Alt Facility ID: 9-100348
Tank Id: 1
Tank Status: Currently In Use
FRTYPE: Guarantee
Expiration Date: 03/29/2013

Alt Facility ID: 9-100348
Tank Id: 3
Tank Status: Currently In Use
FRTYPE: Guarantee
Expiration Date: 03/29/2013

Alt Facility ID: 9-100348
Tank Id: 2
Tank Status: Currently In Use
FRTYPE: Guarantee
Expiration Date: 03/29/2013

Alt Facility ID: 9-100348
Tank Id: 1
Tank Status: Currently In Use

TESORO 2GO #61022 (Continued) **U003221598**

FRTYPE: Insurance
Expiration Date: 09/25/2014

Alt Facility ID: 9-100348
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 09/25/2014

Alt Facility ID: 9-100348
Tank Id: 3
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 09/25/2014

Alt Facility ID: 9-100348
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 09/25/2014

Alt Facility ID: 9-100348
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 09/25/2014

Alt Facility ID: 9-100348
Tank Id: 2
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 09/25/2014

Alt Facility ID: 9-100348
Tank Id: R-5
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 09/25/2014

Alt Facility ID: 9-100348
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 09/25/2014

H35 **HONOLULU COMMUNITY ACTION PROGRAM** **HI LUST** **U001235598**
South **337 & 357 N KING ST** **HI UST** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.167 mi.
883 ft. **Site 1 of 2 in cluster H**

Relative: LUST:
Lower Facility ID: 9-101814
Facility Status: Site Cleanup Completed (NFA)
Actual: Facility Status Date: 08/12/2005
3 ft. Release ID: 940111
Project Officer: Chad Pritchard

HONOLULU COMMUNITY ACTION PROGRAM (Continued) **U001235598**

UST:
Facility ID: 9-101814
Owner: STATE DLNR
Owner Address: Not reported
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.316126
Longitude: -157.864462
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: R-01
Date Installed: 09/20/1964
Tank Status: **Permanently Out of Use**
Date Closed: 10/01/1993
Tank Capacity: 4000
Substance: Gasoline

Tank ID: R-02
Date Installed: 09/20/1964
Tank Status: **Permanently Out of Use**
Date Closed: 09/30/1993
Tank Capacity: 4000
Substance: Diesel

Tank ID: R-03
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 10/04/1993
Tank Capacity: 2000
Substance: Not Listed

Tank ID: R-04
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: Not reported
Tank Capacity: 500
Substance: Other

I36 **CUTTER DODGE AUTO SERVICE CENTER** **HI LUST** **U001235565**
WSW **735 DILLINGHAM BLVD** **HI UST** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.170 mi.
900 ft. **Site 1 of 2 in cluster I**

Relative: LUST:
Higher Facility ID: 9-101718
Facility Status: Site Cleanup Completed (NFA)
Actual: Facility Status Date: 10/24/1995
10 ft. Release ID: 950111
Project Officer: Eric Sadoyama

UST:
Facility ID: 9-101718
Owner: ATLAS PACIFIC

CUTTER DODGE AUTO SERVICE CENTER (Continued) **U001235565**

Owner Address: 735 DILLINGHAM BLVD
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.318899
Longitude: -157.868145
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: R-001
Date Installed: 07/17/1985
Tank Status: Permanently Out of Use
Date Closed: 07/01/1995
Tank Capacity: 1000
Substance: Used Oil

I37 **CUTTER DODGE INC** **RCRA-CESQG 1000334051**
WSW **735 DILLINGHAM BLVD** **FINDS HID982354078**
1/8-1/4 **HONOLULU, HI 96817** **ECHO**
0.170 mi.
900 ft. **Site 2 of 2 in cluster I**

Relative:
Higher

Actual:
10 ft.

RCRA-CESQG:
Date form received by agency: 10/20/1992
Facility name: CUTTER DODGE INC
Facility address: 735 DILLINGHAM BLVD
HONOLULU, HI 96817
EPA ID: HID982354078
Contact: DAN KAWAMOTO
Contact address: 735 DILLINGHAM BLVD
HONOLULU, HI 96817
Contact country: US
Contact telephone: (808) 842-6333
Contact email: Not reported
EPA Region: 09
Land type: Private
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: CUTTER DODGE INC
Owner/operator address: 735 DILLINGHAM BLVD
HONOLULU, HI 96817
Owner/operator country: Not reported
Owner/operator telephone: (808) 842-6300
Legal status: Private

CUTTER DODGE INC (Continued) **1000334051**

Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 03/24/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/19/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110064138213

Environmental Interest/Information System
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CUTTER DODGE INC (Continued) **1000334051**

STATE MASTER

ECHO:
Envid: 1000334051
Registry ID: 110064138213
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110064138213

H38 **LILIHA CIVIC CENTER** **HI SHWS** **1006819345**
South **337 N KING ST** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.193 mi.
1020 ft. **Site 2 of 2 in cluster H**

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Liliha Civic Center
HID Number: Not reported
Facility Registry Identifier: 110013771365
Lead Agency: HEER
Program: State
Project Manager: Bryce Hataoka
Hazard Priority: NFA
Potential Hazards And Controls: Hazard Undetermined
Island: Oahu
SDAR Environmental Interest Name: Liliha Civic Center
HID Number: Not reported
Facility Registry Identifier: 110013771365
Lead Agency: HEER
Potential Hazard And Controls: Hazard Undetermined
Priority: NFA
Assessment: Response Necessary
Response: Response Complete
Nature of Contamination: Not reported
Nature of Residual Contamination: Not reported
Use Restrictions: Undetermined
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: No Further Action Letter - Unrestricted Residential Use
Document Date: 04/10/1997
Document Number: 1997-136-01-BH
Document Subject: Liliha Civic Center
Project Manager: Bryce Hataoka
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

39 **LANCE GOYA CHEVRON** **HI SHWS** **U003402822**
ENE **504 N SCHOOL ST** **HI LUST** **N/A**
1/8-1/4 **HONOLULU, HI 96817** **HI UST**
0.196 mi. **HI ENG CONTROLS**
1035 ft. **HI INST CONTROL**
HI Financial Assurance

Relative:
Higher

Actual:
45 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Lance Goya's Chevron Service (Tom Tomita's Chevron)
HID Number: Not reported
Facility Registry Identifier: 110013772541
Lead Agency: HEER
Program: State
Project Manager: John Peard
Hazard Priority: NFA
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: Lance Goya's Chevron Service (Tom Tomita's Chevron)
HID Number: Not reported
Facility Registry Identifier: 110013772541
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: NFA
Assessment: Response Necessary
Response: Response Complete
Nature of Contamination: Found: Lead and TPH in soil and groundwater.
Nature of Residual Contamination: Deeper soils are suspected to be contaminated above unrestricted useenvironmental action levels.
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Engineering Control Required
Description of Restrictions: Not reported
Institutional Control: Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination: Not reported
Site Closure Type: No Further Action Letter - Restricted Use
Document Date: 02/23/2012
Document Number: 2012-135-JP
Document Subject: No Further Action with Institutional Control Determination for Area 1 at the Former Lance Goya's Chevron Service Station, 504 N School St, Honolulu, TMK 1-1-7-034-001
Project Manager: John Peard
Contact Information: (808) 933-9921 Environmental Health Bldg, 1582 Kamehameha Ave, Hilo, HI 96720

LUST:
Facility ID: 9-101259
Facility Status: Site Cleanup Completed with EHMP
Facility Status Date: 03/27/2012
Release ID: 030004
Project Officer: Shunsheng Fu

Facility ID: 9-101259
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 02/15/2002
Release ID: 980240
Project Officer: Shunsheng Fu

LANCE GOYA CHEVRON (Continued) **U003402822**

Facility ID: 9-101259
Facility Status: Site Cleanup Completed with EHMP
Facility Status Date: 03/27/2012
Release ID: 030003
Project Officer: Shunsheng Fu

UST:
Facility ID: 9-101259
Owner: CHEVRON PRODUCTS COMPANY
Owner Address: 91-480 MALAKOLE ST.
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.321804
Longitude: -157.859969
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: GPS

Tank ID: R-1
Date Installed: 05/01/1961
Tank Status: **Permanently Out of Use**
Date Closed: 01/01/1982
Tank Capacity: 7000
Substance: Gasoline

Tank ID: R-2
Date Installed: 05/01/1961
Tank Status: **Permanently Out of Use**
Date Closed: 01/01/1982
Tank Capacity: 5000
Substance: Gasoline

Tank ID: R-3
Date Installed: 05/01/1961
Tank Status: **Permanently Out of Use**
Date Closed: 01/01/1982
Tank Capacity: 2000
Substance: Gasoline

Tank ID: R-4A
Date Installed: 05/01/1961
Tank Status: **Permanently Out of Use**
Date Closed: 01/01/1982
Tank Capacity: 550
Substance: Used Oil

Tank ID: R-4B
Date Installed: 12/01/1981
Tank Status: **Permanently Out of Use**
Date Closed: 07/01/1997
Tank Capacity: 1000
Substance: Used Oil

Tank ID: R-87

LANCE GOYA CHEVRON (Continued) **U003402822**

Date Installed: 12/01/1981
Tank Status: **Permanently Out of Use**
Date Closed: 10/06/2002
Tank Capacity: 10000
Substance: Gasoline

Tank ID: R-89
Date Installed: 12/01/1981
Tank Status: **Permanently Out of Use**
Date Closed: 10/06/2002
Tank Capacity: 10000
Substance: Gasoline

Tank ID: R-92
Date Installed: 12/01/1981
Tank Status: **Permanently Out of Use**
Date Closed: 10/06/2002
Tank Capacity: 10000
Substance: Gasoline

Tank ID: R-T4
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 10/06/2002
Tank Capacity: 1000
Substance: Used Oil

Tank ID: R-T5
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 10/06/2002
Tank Capacity: 550
Substance: Gasoline

Tank ID: R-T6
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 10/06/2002
Tank Capacity: 550
Substance: Gasoline

ENG CONTROLS:
Supplemental Location Text: Not reported
Zip Suffix: Not reported
Island: Oahu
Potential Hazards And Controls: Hazard Managed With Controls
Engineering Control: Engineering Control Required

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: Not reported

LANCE GOYA CHEVRON (Continued) **U003402822**

Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

HI Financial Assurance:
Alt Facility ID: 9-101259
Tank Id: R-T5
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-T6
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-89
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-92
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-92
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-T4
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-T5
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-T6
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-4A
Tank Status: Permanently Out of Use
FRTYPE: Self Insured

LANCE GOYA CHEVRON (Continued) **U003402822**

Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-89
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-T4
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-87
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-4B
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-4A
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101259

LANCE GOYA CHEVRON (Continued) — **U003402822**

Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-4B
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-87
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

J40 **HAWAIIAN GAS PRODUCTS LTD** — **EDR MGP** — **1008409006**
SW **516-520 KUWILI ST** — **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.200 mi.
1054 ft. **Site 1 of 2 in cluster J**

Relative: Lower

Manufactured Gas Plants:
Alternate Name:GASPRO LTD. No additional information available

Actual: 7 ft.

K41 **CLEE LTD ASSOCIATE CHEMICAL** — **RCRA NonGen / NLR** — **1000197419**
WNW **930 AUSTIN LANE** — **FINDS** — **HID982402695**
1/8-1/4 **HONOLULU, HI 96817** — **ECHO**
0.202 mi.
1067 ft. **Site 1 of 2 in cluster K**

Relative: Higher

RCRA NonGen / NLR:
Date form received by agency: 01/22/2013
Facility name: CLEE LTD ASSOCIATE CHEMICAL
Facility address: 930 AUSTIN LANE
HONOLULU, HI 96817
EPA ID: HID982402695
Contact: CLINTON LEE
Contact address: 930 AUSTIN LANE
HONOLULU, HI 96817
Contact country: US
Contact telephone: (808) 841-2423
Contact email: Not reported
EPA Region: 09
Land type: Other land type
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Actual: 17 ft.

CLEE LTD ASSOCIATE CHEMICAL (Continued) — **1000197419**

Owner/Operator Summary:
Owner/operator name: TANAKA SACHIKO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/23/1989
Site name: CLEE LTD ASSOCIATE CHEMICAL
Classification: Not a generator, verified

Facility Has Received Notices of Violations:
Regulation violated: F - 263
Area of violation: Transporters - General
Date violation determined: 05/03/1999
Date achieved compliance: 01/04/2000
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported

CLEE LTD ASSOCIATE CHEMICAL (Continued) **1000197419**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 263
Area of violation: Transporters - General
Date violation determined: 01/26/1999
Date achieved compliance: 01/04/2000
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 12/12/2012
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/12/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/13/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 01/04/2000
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/26/1999
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Transporters - General
Date achieved compliance: 01/04/2000
Evaluation lead agency: State

Evaluation date: 01/26/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Transporters - General
Date achieved compliance: 01/04/2000
Evaluation lead agency: State

FINDS:

Registry ID: 110005726394

CLEE LTD ASSOCIATE CHEMICAL (Continued) **1000197419**

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

ECHO:
Envid: 1000197419
Registry ID: 110005726394
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110005726394

L42 **ISLAND MOVERS, INC.** **HI LUST** **U003221626**
SSW **414 KUWILI STHONOLULU HARBOR PIER 42** **HI UST** **N/A**
1/8-1/4 **HONOLULU, HI 96817** **HI Financial Assurance**
0.207 mi.
1095 ft. **Site 1 of 6 in cluster L**

Relative:
Lower

Actual:
3 ft.

LUST:
Facility ID: 9-100936
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 07/24/2003
Release ID: 010005
Project Officer: Shunsheng Fu

UST:
Facility ID: 9-100936
Owner: ISLAND MOVERS, INC.
Owner Address: P.O. BOX 17865414 KUWILI ST
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.316230
Longitude: -157.866575
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: R-1
Date Installed: 05/28/1971
Tank Status: **Permanently Out of Use**
Date Closed: 10/26/2000
Tank Capacity: 1000
Substance: Not Listed

Tank ID: R-2
Date Installed: 05/28/1971
Tank Status: **Permanently Out of Use**
Date Closed: 10/26/2001
Tank Capacity: 1000
Substance: Gasoline

Tank ID: R-3
Date Installed: 05/28/1971

ISLAND MOVERS, INC. (Continued) **U003221626**

Tank Status: **Permanently Out of Use**
Date Closed: 10/26/2000
Tank Capacity: 1000
Substance: Gasoline

Tank ID: R-4
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 10/26/2001
Tank Capacity: 1000
Substance: Not Listed

HI Financial Assurance:
Alt Facility ID: 9-100936
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: Not reported

Alt Facility ID: 9-100936
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: Not reported

Alt Facility ID: 9-100936
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: Not reported

Alt Facility ID: 9-100936
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: Not reported

L43 **KAPOLEI TERMINAL** **FUELS PROGRAM** **1016679421**
SW **431 KUWILI ST** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.209 mi.
1103 ft. **Site 2 of 6 in cluster L**

Relative: Lower

Actual: 3 ft.

FUELS PROGRAM:
Program Type: Diesel, Gasoline, Renewable Fuel Standard
Company Seq. ID: 6135
Business Activity: ECA Marine Fuel Terminal, Importer - ECA Marine Fuel, Mobile Facility, Non-Renewable Fuels Importer, Non-Renewable Fuels Importer, PADD Importer, PADD Importer, Pipeline/Pass-Through Terminal, RIN Owner Only (Blenders, Marketers, Traders), Refiner, Refiner, Refiner - ECA Marine Fuel, Truck Loading Terminal/Locomotive Marker Facility
Company Name: Hawaii Independent Energy LLC
Company Address: One Memorial City Plaza
Suite 875
Houston, TX 77024
Facility ID: 81538, 81538

KAPOLEI TERMINAL (Continued) **1016679421**

Facility Type: Diesel/Biodiesel
Facility Activity: Mobile Facility, Non Renewable Fuels Importer Facility
Subject to 80.1403: Not reported
Fuel Only For Off Road: Not reported
Fuel Created: Not reported
D Code: Not reported

M44 **DOLE PACKAGED FOODS CO** **SEMS-ARCHIVE** **1000197948**
West **801 DILLINGHAM BLVD.** **RCRA NonGen / NLR** **HID981424385**
1/8-1/4 **HONOLULU, HI 96817**
0.210 mi.
1108 ft. **Site 1 of 3 in cluster M**

Relative: Higher

Actual: 10 ft.

SEMS-ARCHIVE:
Site ID: 903759
EPA ID: HID981424385
Federal Facility: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Following information was gathered from the prior CERCLIS update completed in 10/2013:
Site ID: 0903759
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13037238.00000
Person ID: 9000059.00000

CERCLIS-NFRAP Assessment History:
Action: ARCHIVE SITE
Date Started: / /
Date Completed: 03/01/92
Priority Level: Not reported

Action: SITE INSPECTION
Date Started: / /
Date Completed: 03/01/92
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: DISCOVERY
Date Started: / /
Date Completed: 06/06/90
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 09/18/90
Priority Level: Low priority for further assessment

RCRA NonGen / NLR:
Date form received by agency: 03/30/1990
Facility name: DOLE PACKAGED FOODS CO
Site name: DOLE PACKAGED FOODS COMPANY DOLE IWILEI

DOLE PACKAGED FOODS CO (Continued) **1000197948**

Facility address: 801 DILLINGHAM BLVD.
HONOLULU, HI 968170000
EPA ID: HID981424385
Contact: LYLE WONG
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (808) 544-5292
Contact email: Not reported
EPA Region: 09
Land type: Other land type
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: CASTLE & COOKE INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/25/1986
Site name: DOLE PACKAGED FOODS CO
Classification: Not a generator, verified

DOLE PACKAGED FOODS CO (Continued) **1000197948**

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 01/31/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

M45 **DOLE IWILEI** **HI SHWS** **S106816902**
West **801 DILLINGHAM BLVD** **HI INST CONTROL** **N/A**
1/8-1/4 **HONOLULU, HI 96817** **HI SPILLS**
0.210 mi.
1108 ft. **Site 2 of 3 in cluster M**

Relative:
Higher

Actual:
10 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Dole Cannery
HID Number: HID981424385
Facility Registry Identifier: 110002148729
Lead Agency: HEER
Program: State
Project Manager: Steve Mow
Hazard Priority: High
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: Dole Cannery
HID Number: HID981424385
Facility Registry Identifier: 110002148729
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: High
Assessment: Response Necessary
Response: Not reported
Nature of Contamination: Found: petroleum in soil
Nature of Residual Contamination: Not reported
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Steve Mow
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: Not reported
Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

DOLE IWILEI (Continued) **S106816902**

HI SPILLS:
- Island: Oahu
- Supplemental Loc. Text: Not reported
- Case Number: 19891014
- HID Number: HID981424385
- Facility Registry Id: 110002148729
- Lead and Program: HEER EP&R
- ER: Not reported
- Units: DOLE PINEAPPLE
- Substances: OIL, Bunker fuel
- Less Or Greater Than: Not reported
- Numerical Quantity: Not reported
- Units: Not reported
- Activity Type: Response
- Activity Lead: Not reported
- Assignment End Date: Not reported
- Result: SOSC NFA
- File Under: Dole Food Company Hawaii
- Latitude: 21.338952
- Longitude: -157.843605

- Island: Oahu
- Supplemental Loc. Text: Not reported
- Case Number: 19901218-7
- HID Number: HID981424385
- Facility Registry Id: 110002148729
- Lead and Program: HEER EP&R
- ER: Not reported
- Units: DOLE CANNERY, IWILEI RD. 650 propane gas fumes emmitted
- Substances: PROPANE GAS
- Less Or Greater Than: Not reported
- Numerical Quantity: Not reported
- Units: Not reported
- Activity Type: Response
- Activity Lead: Not reported
- Assignment End Date: Not reported
- Result: SOSC NFA
- File Under: Dole Food Company Hawaii
- Latitude: 21.338952
- Longitude: -157.843605

- Island: Oahu
- Supplemental Loc. Text: Not reported
- Case Number: 19910808-3
- HID Number: HID981424385
- Facility Registry Id: 110002148729
- Lead and Program: HEER EP&R
- ER: Not reported
- Units: Dole Cannery Odor
- Substances: Not reported
- Less Or Greater Than: Not reported
- Numerical Quantity: Not reported
- Units: Not reported
- Activity Type: Response
- Activity Lead: Bill Perry
- Assignment End Date: Not reported
- Result: SOSC NFA

DOLE IWILEI (Continued) **S106816902**

- File Under: Dole Food Company Hawaii
- Latitude: 21.338952
- Longitude: -157.843605

- Island: Oahu
- Supplemental Loc. Text: Not reported
- Case Number: 19880805
- HID Number: HID981424385
- Facility Registry Id: 110002148729
- Lead and Program: HEER EP&R
- ER: Not reported
- Units: IWILEI RD. 650 (DOLE PINEAPPLE) ammonia leak from condenser #3
- Substances: Ammonia
- Less Or Greater Than: Not reported
- Numerical Quantity: 500
- Units: Pounds
- Activity Type: Response
- Activity Lead: Not reported
- Assignment End Date: Not reported
- Result: SOSC NFA
- File Under: Dole Food Company Hawaii
- Latitude: 21.338952
- Longitude: -157.843605

- Island: Oahu
- Supplemental Loc. Text: Not reported
- Case Number: 19880815
- HID Number: HID981424385
- Facility Registry Id: 110002148729
- Lead and Program: HEER EP&R
- ER: Not reported
- Units: DOLE CANNERY, IWILEI RD. 650 accidental release of ammonia found
- Substances: Ammonia
- Less Or Greater Than: Not reported
- Numerical Quantity: 500
- Units: Pounds
- Activity Type: Response
- Activity Lead: Not reported
- Assignment End Date: Not reported
- Result: SOSC NFA
- File Under: Dole Food Company Hawaii
- Latitude: 21.338952
- Longitude: -157.843605

Click this hyperlink while viewing on your computer to access
6 additional HI SPILLS: record(s) in the EDR Site Report.

M46 **DOLE IWILEI CANNERY** **HI LUST U001235209**
West **801 DILLINGHAM BLVD** **HI UST N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.210 mi.
1108 ft. **Site 3 of 3 in cluster M**

Relative:
Higher

Actual:
10 ft.

LUST:
- Facility ID: 9-100746
- Facility Status: Site Cleanup Completed (NFA)
- Facility Status Date: 08/12/1994
- Release ID: 940172

DOLE IWILEI CANNERY (Continued) **U001235209**

Project Officer: Rebecca Sciulli

UST:

Facility ID:	9-100746
Owner:	DOLE FOOD COMPANY HAWAII, INC
Owner Address:	1116 WHITMORE AVE
Owner City,St,Zip:	Honolulu, 96817 96817
Latitude:	21.318257
Longitude:	-157.869263
Horizontal Reference Datum Name:	NAD83
Horizontal Collection Method Name:	Address Matching
Tank ID:	R-C1
Date Installed:	05/07/1984
Tank Status:	**Permanently Out of Use**
Date Closed:	04/29/1993
Tank Capacity:	6380
Substance:	Gasoline
Tank ID:	R-C2
Date Installed:	05/07/1984
Tank Status:	**Permanently Out of Use**
Date Closed:	03/13/1992
Tank Capacity:	550
Substance:	Other
Tank ID:	R-C3A
Date Installed:	Not reported
Tank Status:	**Permanently Out of Use**
Date Closed:	12/30/1975
Tank Capacity:	500
Substance:	Gasoline
Tank ID:	R-C3B
Date Installed:	Not reported
Tank Status:	**Permanently Out of Use**
Date Closed:	01/01/1975
Tank Capacity:	500
Substance:	Gasoline
Tank ID:	R-C4
Date Installed:	08/04/2018
Tank Status:	**Permanently Out of Use**
Date Closed:	01/01/1977
Tank Capacity:	100000
Substance:	Other

L47 **SENIOR RESIDENCES AT IWILEI** **HI SHWS S111704855**
SSW **888 IWILEI RD** **HI INST CONTROL N/A**
1/8-1/4 **HONOLULU, HI 96813**
0.216 mi.
1140 ft. **Site 3 of 6 in cluster L**

Relative:
Lower

Actual:
3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	Senior Residences at Iwilei
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Program:	State
Project Manager:	Melody Calisay
Hazard Priority:	NFA
Potential Hazards And Controls:	Hazard Managed With Controls
Island:	Oahu
SDAR Environmental Interest Name:	Senior Residences at Iwilei
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Managed With Controls
Priority:	NFA
Assessment:	Response Necessary
Response:	Response Complete
Nature of Contamination:	Presumed: Contamination from Honolulu Harbor Iwilei.
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	No Engineering Control Required
Description of Restrictions:	Not reported
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination:	Not reported
Site Closure Type:	No Further Action Letter - Restricted Use
Document Date:	04/11/2012
Document Number:	2012-234-MGC
Document Subject:	No Further Action Determination for the Senior Residence at Iwilei-888 Iwilei Road
Project Manager:	Melody Calisay
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

INST CONTROL:

Potential hazards and controls:	Hazard Managed With Controls
Supplemental Location:	Not reported
Zip Suffix:	Not reported
Island:	Oahu
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued

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N48 **IWILEI FRUIT AND VEGETABLE WAREHOUSE** **HI SHWS U003858603**
SSW **920 IWILEI ROAD** **HI LUST N/A**
1/8-1/4 **HONOLULU, HI 96813** **HI UST**
0.218 mi.
1152 ft. **Site 1 of 3 in cluster N**

Relative:
Lower

Actual:
3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu

IWILEI FRUIT AND VEGETABLE WAREHOUSE (Continued) **U003858603**

Environmental Interest:	Iwilei Fruits and Produce
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Program:	State
Project Manager:	Melody Calisay
Hazard Priority:	Low
Potential Hazards And Controls:	Hazard Undetermined
Island:	Oahu
SDAR Environmental Interest Name:	Iwilei Fruits and Produce
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Undetermined
Priority:	Low
Assessment:	Response Necessary
Response:	Response Complete
Nature of Contamination:	Found: Petroleum in soil.
Nature of Residual Contamination:	Not reported
Use Restrictions:	Undetermined
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Honolulu Harbor Downtown Unit
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Melody Calisay
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

LUST:

Facility ID:	9-103747
Facility Status:	Site Cleanup Completed (NFA)
Facility Status Date:	10/11/2002
Release ID:	020031
Project Officer:	Jose Ruiz

UST:

Facility ID:	9-103747
Owner:	STATE DLNR
Owner Address:	Not reported
Owner City,St,Zip:	Honolulu, 96813 96813
Latitude:	21.315525
Longitude:	-157.865408
Horizontal Reference Datum Name:	NAD83
Horizontal Collection Method Name:	Address Matching
Tank ID:	R-1
Date Installed:	Not reported
Tank Status:	**Permanently Out of Use**
Date Closed:	05/20/2002
Tank Capacity:	2000
Substance:	Not Listed

L49 **C&CH IWILEI FIRE STATION** **HI UST** **U003221561**
SSW **840 IWILEI RD** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.228 mi.
1205 ft. **Site 4 of 6 in cluster L**

Relative:
Lower

Actual:
3 ft.

UST:

Facility ID:	9-100067
Owner:	C&C OF HNL - HONOLULU FIRE DEPARATMENT
Owner Address:	636 South Street
Owner City,St,Zip:	Honolulu, 96817 96817
Latitude:	Not reported
Longitude:	Not reported
Horizontal Reference Datum Name:	Not reported
Horizontal Collection Method Name:	Not reported
Tank ID:	R-1
Date Installed:	01/30/1955
Tank Status:	**Permanently Out of Use**
Date Closed:	03/15/1991
Tank Capacity:	550
Substance:	Gasoline

K50 **KAPALAMA WAREHOUSE** **HI UST** **U003154877**
WNW **922 AUSTIN LN** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.231 mi.
1220 ft. **Site 2 of 2 in cluster K**

Relative:
Higher

Actual:
12 ft.

UST:

Facility ID:	9-103250
Owner:	KAPALAMA WAREHOUSE
Owner Address:	922 AUSTIN LANE
Owner City,St,Zip:	Honolulu, 96817 96817
Latitude:	Not reported
Longitude:	Not reported
Horizontal Reference Datum Name:	Not reported
Horizontal Collection Method Name:	Not reported
Tank ID:	1
Date Installed:	Not reported
Tank Status:	**Permanently Out of Use**
Date Closed:	12/23/1996
Tank Capacity:	500
Substance:	Diesel
Tank ID:	2
Date Installed:	Not reported
Tank Status:	**Permanently Out of Use**
Date Closed:	12/23/1996
Tank Capacity:	1000
Substance:	Gasoline

51
NNE
1/8-1/4
0.232 mi.
1224 ft.

SNAPPY SERVICE
719 N SCHOOL ST
HONOLULU, HI 96817

HI LUST **U001235264**
HI UST **N/A**
HI SPILLS

Relative:
Higher

Actual:
54 ft.

LUST:
Facility ID: 9-100858
Facility Status: Site Cleanup Completed with EHE/EHMP
Facility Status Date: 01/05/2015
Release ID: 900093
Project Officer: Shunsheng Fu

UST:
Facility ID: 9-100858
Owner: ROBERT S. FUJIWARA
Owner Address: 719 N SCHOOL ST
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.324328
Longitude: -157.861529
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: R-5
Date Installed: 04/24/1962
Tank Status: **Permanently Out of Use**
Date Closed: 07/29/1991
Tank Capacity: 300
Substance: Used Oil

Tank ID: r-1
Date Installed: 04/24/1962
Tank Status: **Permanently Out of Use**
Date Closed: 10/25/1993
Tank Capacity: 6000
Substance: Gasoline

Tank ID: r-2
Date Installed: 04/24/1962
Tank Status: **Permanently Out of Use**
Date Closed: 01/25/1993
Tank Capacity: 4000
Substance: Gasoline

Tank ID: r-3
Date Installed: 04/24/1962
Tank Status: **Permanently Out of Use**
Date Closed: 01/25/1993
Tank Capacity: 4000
Substance: Gasoline

Tank ID: r-4
Date Installed: 04/24/1962
Tank Status: **Permanently Out of Use**
Date Closed: 01/25/1993

SNAPPY SERVICE (Continued) **U001235264**

Tank Capacity: 6000
Substance: Gasoline

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19940729-23
HID Number: Not reported
Facility Registry Id: 110013777617
Lead and Program: HEER EP&R
ER: Not reported
Units: Snappy Servied
Substances: SEE INCIDENT REPORT
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Not reported
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Shell Oil Company
Latitude: 21.323998
Longitude: -157.861919

N52
SSW
1/8-1/4
0.244 mi.
1289 ft.

373 NORTH NIMITZ HIGHWAY
373 N NIMITZ HWY
HONOLULU, HI 96817

HI SHWS **S106815507**
HI SPILLS **N/A**

Site 2 of 3 in cluster N

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: 373 North Nimitz Highway
HID Number: Not reported
Facility Registry Identifier: 110014030903
Lead Agency: HEER
Program: State
Project Manager: Anna Fernandez
Hazard Priority: Medium
Potential Hazards And Controls: Hazard Present
Island: Oahu
SDAR Environmental Interest Name: 373 North Nimitz Highway
HID Number: Not reported
Facility Registry Identifier: 110014030903
Lead Agency: HEER
Potential Hazard And Controls: Hazard Present
Priority: Medium
Assessment: Response Necessary
Response: Response Ongoing
Nature of Contamination: Found: Subsurface petroleum contaminationin soil and groundwater.
Nature of Residual Contamination: Not reported
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported

373 NORTH NIMITZ HIGHWAY (Continued) **S106815507**

Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Anna Fernandez
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 20000914-0905
HID Number: Not reported
Facility Registry Id: 110014030903
Lead and Program: HEER EP&R
ER: Site Visit
Units: Abandoned pipeline release
Substances: Not reported
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Mike Cripps
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Harry and Jeanette Weinberg Foundation
Latitude: 21.338952
Longitude: -157.843605

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 20051025-1618
HID Number: Not reported
Facility Registry Id: 110014030903
Lead and Program: HEER EP&R
ER: No
Units: Bunker-C Saturated Sand
Substances: Oil
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Unknown
Activity Type: Response
Activity Lead: Liz Galvez
Assignment End Date: 2005-10-25 00:00:00
Result: SOSC NFA
File Under: Harry and Jeanette Weinberg Foundation
Latitude: 21.338952
Longitude: -157.843605

N53 **STEELTECH INC** **HI LUST U003154735**
SSW **373 N NIMITZ HWY** **HI UST N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.244 mi.
1289 ft. **Site 3 of 3 in cluster N**

Relative:
Lower

Actual:
3 ft.

LUST:
Facility ID: 9-102947
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 03/08/2006
Release ID: 060004
Project Officer: Richard Takaba

Facility ID: 9-102947
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 03/08/2006
Release ID: 940156
Project Officer: Richard Takaba

UST:
Facility ID: 9-102947
Owner: HARRY & JEANETTE WEINBERG FOUNDATION
Owner Address: 3660 WAIALAE AVE, SUITE 400
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.314661
Longitude: -157.866723
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: R-1
Date Installed: Not reported
Tank Status: Permanently Out of Use
Date Closed: 06/08/1994
Tank Capacity: 1000
Substance: Gasoline

L54 **CYCLE SPORTS HWAII** **HI UST U004022798**
SW **818 IWILEI ROAD** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.247 mi.
1302 ft. **Site 5 of 6 in cluster L**

Relative:
Lower

Actual:
3 ft.

UST:
Facility ID: 9-103801
Owner: Montgomery Motors Ltd
Owner Address: 818 Iwilei road
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: Not reported
Longitude: Not reported
Horizontal Reference Datum Name: Not reported
Horizontal Collection Method Name: Not reported

Tank ID: r-1
Date Installed: Not reported
Tank Status: Permanently Out of Use
Date Closed: 10/11/2005
Tank Capacity: 1000
Substance: Gasoline

CYCLE SPORTS HWAII (Continued) **U004022798**

Tank ID: r-2
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 10/10/2005
Tank Capacity: 1000
Substance: Used Oil

L55 **SONNYS AUTO REPAIR** **RCRA NonGen / NLR** **1000323835**
SW **818 IWILEI RD** **FINDS** **HID981629280**
1/8-1/4 **HONOLULU, HI 96817** **ECHO**
0.247 mi.
1302 ft. **Site 6 of 6 in cluster L**

Relative:
Lower

Actual:
3 ft.

RCRA NonGen / NLR:
Date form received by agency: 02/25/1997
Facility name: SONNYS AUTO REPAIR
Facility address: 818 IWILEI RD
HONOLULU, HI 96817
EPA ID: HID981629280
Mailing address: 1212N-1 RICHARD LANE
HONOLULU, HI 96819
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: JUAN S BORJA JR
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No

SONNYS AUTO REPAIR (Continued) **1000323835**

Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 12/08/1986
Site name: SONNYS AUTO REPAIR
Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 01/13/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/08/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110005724065

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Registry ID: 110064235368

Environmental Interest/Information System
STATE MASTER

ECHO:
Envid: 1000323835
Registry ID: 110064235368
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110064235368

SONNYS AUTO REPAIR (Continued) **1000323835**

Envid: 1000323835
Registry ID: 110005724065
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110005724065

O56 **IWILEI PROJECT SITE (IWILEI BROWNFIELDS)** **HI SHWS** **S107022564**
South **IWILEI RD & N KING ST** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.250 mi.
1320 ft. **Site 1 of 2 in cluster O**

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Iwilei Project Site
HID Number: Not reported
Facility Registry Identifier: 110013788516
Lead Agency: HEER
Program: State
Project Manager: Melody Calisay
Hazard Priority: Low
Potential Hazards And Controls: Hazard Present
Island: Oahu
SDAR Environmental Interest Name: Iwilei Project Site
HID Number: Not reported
Facility Registry Identifier: 110013788516
Lead Agency: HEER
Potential Hazard And Controls: Hazard Present
Priority: Low
Assessment: Response Necessary
Response: Response Ongoing
Nature of Contamination: Found: PAHs, VOCs, lead, and other metals in soil.
Nature of Residual Contamination: Not reported
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Not reported
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Melody Calisay
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

J57 **TRAVEL PLAZA TRANSPORTATION, LLC** **HI SHWS** **U003154753**
SW **818 PINE ST** **HI LUST** **N/A**
1/4-1/2 **HONOLULU, HI 96817** **HI UST**
0.251 mi. **HI Financial Assurance**
1324 ft. **Site 2 of 2 in cluster J**

Relative:
Lower

Actual:
7 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Travel Plaza Transportation, LLC

TRAVEL PLAZA TRANSPORTATION, LLC (Continued) **U003154753**

HID Number: Not reported
Facility Registry Identifier: 110005728061
Lead Agency: HEER
Program: State
Project Manager: Richard Palmer
Hazard Priority: NFA
Potential Hazards And Controls: No Hazard
Island: Oahu
SDAR Environmental Interest Name: Travel Plaza Transportation, LLC
HID Number: Not reported
Facility Registry Identifier: 110005728061
Lead Agency: HEER
Potential Hazard And Controls: No Hazard
Priority: NFA
Assessment: Response Necessary
Response: Response Complete
Nature of Contamination: Found: petroleum products from leaking UST
Nature of Residual Contamination: Not reported
Use Restrictions: No Hazard Present For Unrestricted Residential Use
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: No Further Action Letter - Unrestricted Residential Use
Document Date: 05/22/2006
Document Number: 2006-315-CAC
Document Subject: No Further Action letter
Project Manager: Richard Palmer
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

LUST:
Facility ID: 9-102991
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 07/31/1997
Release ID: 960094
Project Officer: Jose Ruiz

Facility ID: 9-102991
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 07/31/1997
Release ID: 950040
Project Officer: Jose Ruiz

UST:
Facility ID: 9-102991
Owner: TRAVEL PLAZA TRANSPORTATION, LLC
Owner Address: 818 PINE ST
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.317262
Longitude: -157.868230
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Map

Tank ID: 1A
Date Installed: 09/01/1996
Tank Status: **Currently In Use**

TRAVEL PLAZA TRANSPORTATION, LLC (Continued) **U003154753**

Date Closed: Not reported
Tank Capacity: 8000
Substance: Diesel

Tank ID: 1B
Date Installed: 09/01/1996
Tank Status: Currently In Use
Date Closed: Not reported
Tank Capacity: 2000
Substance: Gasoline

Tank ID: 2
Date Installed: 09/01/1995
Tank Status: Currently In Use
Date Closed: Not reported
Tank Capacity: 750
Substance: Used Oil

Tank ID: R-1
Date Installed: 02/01/1986
Tank Status: Permanently Out of Use
Date Closed: 12/27/1994
Tank Capacity: 550
Substance: Used Oil

Tank ID: R-2
Date Installed: 02/01/1986
Tank Status: Permanently Out of Use
Date Closed: 09/02/1996
Tank Capacity: 3000
Substance: Gasoline

Tank ID: R-3
Date Installed: 02/01/1986
Tank Status: Permanently Out of Use
Date Closed: 09/02/1996
Tank Capacity: 5000
Substance: Diesel

HI Financial Assurance:
Alt Facility ID: 9-102991
Tank Id: 2
Tank Status: Currently In Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-102991
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

TRAVEL PLAZA TRANSPORTATION, LLC (Continued) **U003154753**

Alt Facility ID: 9-102991
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-102991
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-102991
Tank Id: 1B
Tank Status: Currently In Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-102991
Tank Id: 1A
Tank Status: Currently In Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-102991
Tank Id: 2
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 07/01/2015

Alt Facility ID: 9-102991
Tank Id: 1B
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 07/01/2015

Alt Facility ID: 9-102991
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 07/01/2015

Alt Facility ID: 9-102991
Tank Id: 1A
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 07/01/2015

Alt Facility ID: 9-102991
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 07/01/2015

Alt Facility ID: 9-102991
Tank Id: R-1
Tank Status: Permanently Out of Use

TRAVEL PLAZA TRANSPORTATION, LLC (Continued) **U003154753**

FRTYPE: Insurance
Expiration Date: 07/01/2015

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58 **TOWN INN** **HI SHWS** **1006819555**
SSE **248-258 N BERETANIA ST** **HI INST CONTROL** **N/A**
1/4-1/2 **HONOLULU, HI 96817** **HI VCP**
0.262 mi.
1383 ft.

Relative:
Lower

Actual:
3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	Town Inn
HID Number:	Not reported
Facility Registry Identifier:	110013773755
Lead Agency:	HEER
Program:	Voluntary Response Program
Project Manager:	Mark Sutterfield
Hazard Priority:	NFA
Potential Hazards And Controls:	Hazard Managed With Controls
Island:	Oahu
SDAR Environmental Interest Name:	Town Inn
HID Number:	Not reported
Facility Registry Identifier:	110013773755
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Managed With Controls
Priority:	NFA
Assessment:	Response Necessary
Response:	Response Complete
Nature of Contamination:	Found: TPH-D, BTEX, PAHs, and free product in soil and groundwater.
Nature of Residual Contamination:	No (TPH-D, BTEX, PAHs, and free product in soil and groundwater) contamination left on site is above EALs.
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination:	Not reported
Site Closure Type:	Letter of Completion - Restricted Use
Document Date:	08/18/2004
Document Number:	Not reported
Document Subject:	Letter of Completion, Town Inn/Town Square VRP Project
Project Manager:	Mark Sutterfield
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

INST CONTROL:

Potential hazards and controls:	Hazard Managed With Controls
Supplemental Location:	Not reported
Zip Suffix:	Not reported
Island:	Oahu
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued

VCP:

Program:	Voluntary Response Program
Zip Suffix:	Not reported
Supplemental Location:	Not reported
Island:	Oahu

59 **MAHALO NORTH KING AUTO** **HI LUST** **U001235167**
NW **1010 N KING ST** **HI UST** **N/A**
1/4-1/2 **HONOLULU, HI 96817** **HI Financial Assurance**
0.286 mi.
1511 ft.

Relative:
Higher

Actual:
10 ft.

LUST:

Facility ID:	9-100339
Facility Status:	Site Cleanup Completed with EHMP
Facility Status Date:	09/03/2008
Release ID:	080009
Project Officer:	Shunsheng Fu

Facility ID:	9-100339
Facility Status:	Site Cleanup Completed (NFA)
Facility Status Date:	03/30/1999
Release ID:	980145
Project Officer:	Shunsheng Fu

UST:

Facility ID:	9-100339
Owner:	ALOHA PETROLEUM, LTD.
Owner Address:	1132 Bishop Street, Suite 1700
Owner City,St,Zip:	Honolulu, 96817 96817
Latitude:	21.323885
Longitude:	-157.868091
Horizontal Reference Datum Name:	NAD83
Horizontal Collection Method Name:	GPS

Tank ID:	R-1
Date Installed:	02/07/1964
Tank Status:	**Permanently Out of Use**
Date Closed:	11/30/1987
Tank Capacity:	550
Substance:	Used Oil

Tank ID:	R-2
Date Installed:	02/07/1964
Tank Status:	**Permanently Out of Use**
Date Closed:	11/30/1987
Tank Capacity:	4000
Substance:	Gasoline

Tank ID:	R-3
Date Installed:	02/07/1964
Tank Status:	**Permanently Out of Use**
Date Closed:	11/30/1987
Tank Capacity:	4000
Substance:	Gasoline

Tank ID:	R-4
Date Installed:	02/07/1964
Tank Status:	**Permanently Out of Use**
Date Closed:	11/30/1987
Tank Capacity:	4000
Substance:	Gasoline

MAHALO NORTH KING AUTO (Continued) **U001235167**

Tank ID: R-5
Date Installed: 02/07/1964
Tank Status: **Permanently Out of Use**
Date Closed: 11/30/1987
Tank Capacity: 4000
Substance: Gasoline

Tank ID: R-6
Date Installed: 02/07/1975
Tank Status: **Permanently Out of Use**
Date Closed: 11/30/1987
Tank Capacity: 4000
Substance: Gasoline

Tank ID: r-5
Date Installed: 11/25/1987
Tank Status: **Permanently Out of Use**
Date Closed: 11/07/2005
Tank Capacity: 550
Substance: Used Oil

Tank ID: r-87A
Date Installed: 11/25/1987
Tank Status: **Permanently out of Use**
Date Closed: 12/03/2007
Tank Capacity: 10000
Substance: Gasoline

Tank ID: r-87B
Date Installed: 11/25/1987
Tank Status: **Permanently out of Use**
Date Closed: 12/03/2007
Tank Capacity: 10000
Substance: Gasoline

Tank ID: r-89
Date Installed: 11/25/1987
Tank Status: **Permanently out of Use**
Date Closed: 12/03/2007
Tank Capacity: 10000
Substance: Gasoline

Tank ID: r-92
Date Installed: 11/25/1987
Tank Status: **Permanently out of Use**
Date Closed: 12/03/2007
Tank Capacity: 10000
Substance: Gasoline

HI Financial Assurance:
Alt Facility ID: 9-100339

MAHALO NORTH KING AUTO (Continued) **U001235167**

Tank Id: r-92
Tank Status: Permanently out of Use
FRTYPE: Insurance
Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: r-92
Tank Status: Permanently out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: r-87A
Tank Status: Permanently out of Use
FRTYPE: Insurance
Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: r-87A
Tank Status: Permanently out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: r-87B
Tank Status: Permanently out of Use
FRTYPE: Insurance
Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: r-87B
Tank Status: Permanently out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: r-89
Tank Status: Permanently out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: R-6
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: r-89
Tank Status: Permanently out of Use
FRTYPE: Insurance

MAHALO NORTH KING AUTO (Continued) **U001235167**

Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: R-5
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: R-5
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: Not reported

Alt Facility ID: 9-100339

MAHALO NORTH KING AUTO (Continued) **U001235167**

Tank Id: R-6
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: Not reported

O60 **215 NORTH KING STREET CONSTRUCTION SITE, TANKS 1 & 2** **HI SHWS S106815334**
South **215 N KING ST** **N/A**
1/4-1/2 **HONOLULU, HI 96814**
0.287 mi.
1517 ft. **Site 2 of 2 in cluster O**

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: 215 North King Street Construction Site, Tanks 1 & 2
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Program: State
Project Manager: Ukris Wongse-Ont
Hazard Priority: NFA
Potential Hazards And Controls: No Hazard
Island: Oahu
SDAR Environmental Interest Name: 215 North King Street Construction Site, Tanks 1 & 2
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Potential Hazard And Controls: No Hazard
Priority: NFA
Assessment: Response Necessary
Response: Response Complete
Nature of Contamination: Not reported
Nature of Residual Contamination: Fuel oil contaminated soil
Use Restrictions: No Hazard Present For Unrestricted Residential Use
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Not reported
Site Closure Type: No Further Action Letter - Unrestricted Residential Use
Document Date: 12/10/2004
Document Number: 2004-509-UW
Document Subject: Additional justifications for NFA accepted for Tank No. 1 & 2
Project Manager: Ukris Wongse-Ont
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

P61 **OWNED BY CCI, LEASED SPRINT** **HI SHWS 1006819934**
West **925 DILLINGHAM BLVD** **HI ENG CONTROLS N/A**
1/4-1/2 **HONOLULU, HI 96817** **HI INST CONTROL**
0.290 mi. **HI VCP**
1530 ft. **Site 1 of 4 in cluster P** **FINDS**

Relative:
Lower

Actual:
7 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu

OWNED BY CCI, LEASED SPRINT (Continued) **1006819934**

Environmental Interest: Sprint Lot
HID Number: Not reported
Facility Registry Identifier: 110013778055
Lead Agency: HEER
Program: Voluntary Response Program
Project Manager: Mark Sutterfield
Hazard Priority: NFA
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: Sprint Lot
HID Number: Not reported
Facility Registry Identifier: 110013778055
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: NFA
Assessment: Response Necessary
Response: Response Complete
Nature of Contamination: Found: Diesel, free product in soil groundwater, and soil vapor
Nature of Residual Contamination: Diesel, free product in soil groundwater, and soil vapor.
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Engineering Control Required
Description of Restrictions: Prohibit Any Activity That May Disturb the Integrity of the Capping or Monitoring Systems
Institutional Control: Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Letter of Completion - Restricted Use
Document Date: 12/17/2007
Document Number: 2007-843-MS
Document Subject: LOC and Request for signature
Project Manager: Mark Sutterfield
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:
Supplemental Location Text: Not reported
Zip Suffix: Not reported
Island: Oahu
Potential Hazards And Controls: Hazard Managed With Controls
Engineering Control: Engineering Control Required

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: Not reported
Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

VCP:
Program: Voluntary Response Program
Zip Suffix: Not reported
Supplemental Location: Not reported
Island: Oahu

FINDS:

Registry ID: 110013778055

OWNED BY CCI, LEASED SPRINT (Continued) **1006819934**

Environmental Interest/Information System
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

STATE MASTER

P62 **SPRINT LOT** **HI LUST U003914036**
West **925 DILLINGHAM BLVD** **HI UST N/A**
1/4-1/2 **HONOLULU, HI 96817**
0.290 mi.
1530 ft. **Site 2 of 4 in cluster P**

Relative:
Lower

Actual:
7 ft.

LUST:
Facility ID: 9-103769
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 12/11/2007
Release ID: 030041
Project Officer: To VRP

UST:
Facility ID: 9-103769
Owner: CASTLE & COOKE INC
Owner Address: 680 Iwilei Road
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.319550
Longitude: -157.871198
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Map

Tank ID: R-1
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 01/01/1984
Tank Capacity: Not reported
Substance: Not Listed

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63 **HONOLULU COMMUNITY COLLEGE** **HI LUST U004109517**
WNW **DILLINGHAM BLVD** **HI UST N/A**
1/4-1/2 **HONOLULU, HI 96817**
0.298 mi.
1571 ft.

Relative:
Lower

Actual:
4 ft.

LUST:
Facility ID: 9-103285
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 02/09/1999
Release ID: 970108
Project Officer: David Hodges

HONOLULU COMMUNITY COLLEGE (Continued) **U004109517**

UST:
Facility ID: 9-103285
Owner: STATE U.H. - HONOLULU COMMUNITY COLLEGE
Owner Address: 874 DILLINGHAM BLVD
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.321461
Longitude: -157.870066
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: R-1
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 12/01/1982
Tank Capacity: Not reported
Substance: Gasoline

Tank ID: R-2
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 12/01/1982
Tank Capacity: Not reported
Substance: Gasoline

Tank ID: R-3
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 12/01/1982
Tank Capacity: Not reported
Substance: Gasoline

Tank ID: R-4
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 12/01/1982
Tank Capacity: Not reported
Substance: Used Oil

64
NNE
1/4-1/2
0.299 mi.
1580 ft.

PALAMA ELDERLY HOUSING **HI LUST U003154703**
851 N SCHOOL ST **HI UST N/A**
HONOLULU, HI 96814

Relative:
Higher

Actual:
40 ft.

LUST:
Facility ID: 9-102887
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 10/27/1995
Release ID: 950012
Project Officer: Roger Brewer

UST:
Facility ID: 9-102887
Owner: STATE DB&F - HOUSING FINANCE & DEVELOPMENT CORP

PALAMA ELDERLY HOUSING (Continued) **U003154703**

Owner Address: Not reported
Owner City,St,Zip: Honolulu, 96814 96814
Latitude: 21.325972
Longitude: -157.862590
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: 1
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 12/02/1994
Tank Capacity: 550
Substance: Diesel

P65
West
1/4-1/2
0.300 mi.
1582 ft.

THEO DAVIES CATERPILLAR REPAIR SITE **HI SHWS S109096031**
935 DILLINGHAM BLVD **HI ENG CONTROLS N/A**
HONOLULU, HI 96817 **HI INST CONTROL**

Site 3 of 4 in cluster P

Relative:
Lower

Actual:
5 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Theo Davies Caterpillar Repair Site
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Program: State
Project Manager: Steve Mow
Hazard Priority: NFA
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: Theo Davies Caterpillar Repair Site
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: NFA
Assessment: Response Necessary
Response: Response Complete
Nature of Contamination: Found: gasoline, soil vapor, wind turbines engineering control
Nature of Residual Contamination: Not reported
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Engineering Control Required
Description of Restrictions: Not reported
Institutional Control: Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination: Not reported
Site Closure Type: No Further Action Letter - Restricted Use
Document Date: 05/20/2015
Document Number: 2015-229-SPM
Document Subject: NFA with Engineering and Institutional Controls for Dillingham Blvd Self Storage the former Theo Davies Caterpillar Repair Site
Project Manager: Steve Mow
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:

THEO DAVIES CATERPILLAR REPAIR SITE (Continued) **S109096031**

Supplemental Location Text: Not reported
Zip Suffix: Not reported
Island: Oahu
Potential Hazards And Controls: Hazard Managed With Controls
Engineering Control: Engineering Control Required

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: Not reported
Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

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P66 **HONOLULU COMMUNITY COLLEGE GAS STATION** **HI SHWS** **1006820629**
West **874 DILLINGHAM BLVD** **N/A**
1/4-1/2 **HONOLULU, HI 96817**
0.314 mi.
1658 ft. **Site 4 of 4 in cluster P**

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Honolulu Community College
Island: Oahu
Environmental Interest: Honolulu Community College Gas Station
HID Number: Not reported
Facility Registry Identifier: 110013786224
Lead Agency: HEER
Program: State
Project Manager: Steve Mow
Hazard Priority: NFA
Potential Hazards And Controls: No Hazard
Island: Oahu
SDAR Environmental Interest Name: Honolulu Community College Gas Station
HID Number: Not reported
Facility Registry Identifier: 110013786224
Lead Agency: HEER
Potential Hazard And Controls: No Hazard
Priority: NFA
Assessment: Response Not Necessary
Response: Response Complete
Nature of Contamination: Found: Petroleum in soil
Nature of Residual Contamination: Not reported
Use Restrictions: No Hazard Present For Unrestricted Residential Use
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Not reported
Site Closure Type: No Further Action Letter - Unrestricted Residential Use
Document Date: 02/08/2007
Document Number: 2007-092-SPM
Document Subject: No Further Action Required at Honolulu Community College Gas Station, 874 Dillingham Blvd
Project Manager: Steve Mow
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

67 **IWILEI BUSINESS CENTER** **HI SHWS** **S106817968**
WSW **501 SUMNER ST** **HI INST CONTROL** **N/A**
1/4-1/2 **HONOLULU, HI 96814** **HI SPILLS**
0.316 mi.
1668 ft.

Relative:
Lower

Actual:
7 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Iwilei Business Center
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Program: State
Project Manager: Mark Sutterfield
Hazard Priority: NFA
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: Iwilei Business Center
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: NFA
Assessment: Response Necessary
Response: Response Complete
Nature of Contamination: Found: TPH-D in soil and groundwater. To be characterized and remediated when site is redevelped.
Nature of Residual Contamination: Not reported
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Not reported
Description of Restrictions: Not feasible to assess area under buildings before redevelopment.
Institutional Control: Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: No Further Action Letter - Restricted Use
Document Date: 12/12/2005
Document Number: 2005-647-MS
Document Subject: Review of pipeline report. No further work required until they re-develop. Must submit a Phase I
Project Manager: Mark Sutterfield
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: Not reported
Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 20041223-1230
HID Number: Not reported
Facility Registry Id: Not reported
Lead and Program: HEER EP&R
ER: Referred

IWILEI BUSINESS CENTER (Continued) **S106817968**

Units:	Del Monte/IBC Black Oil Tank
Substances:	Bunker C Oil
Less Or Greater Than:	Not reported
Numerical Quantity:	Not reported
Units:	Unknown
Activity Type:	Response
Activity Lead:	Mike Cripps
Assignment End Date:	2005-10-14 00:00:00
Result:	Refer to ISST
File Under:	California Packing/Del Monte/Iwilei Business Center
Latitude:	21.317005
Longitude:	-157.868889
Island:	Oahu
Supplemental Loc. Text:	Not reported
Case Number:	20050406-1057
HID Number:	Not reported
Facility Registry Id:	Not reported
Lead and Program:	HEER EP&R
ER:	No
Units:	Unknown Substance
Substances:	Unknown
Less Or Greater Than:	Not reported
Numerical Quantity:	Not reported
Units:	Not reported
Activity Type:	Response
Activity Lead:	Curtis Martin
Assignment End Date:	2005-10-28 00:00:00
Result:	SOSC NFA
File Under:	California Packing/Del Monte/Iwilei Business Center
Latitude:	21.317005
Longitude:	-157.868889

Q68 **420 N. NIMITS HWY DEMOLOTION PROJECT** **HI LUST U004155570**
SSW **420 N. NIMITZ HWY** **HI UST N/A**
1/4-1/2 **HONOLULU, HI 96819**
0.336 mi.
1772 ft. **Site 1 of 2 in cluster Q**

Relative:
Lower

Actual:
3 ft.

LUST:

Facility ID:	9-103898
Facility Status:	Site Cleanup Completed (NFA)
Facility Status Date:	02/28/2011
Release ID:	100031
Project Officer:	Thu Perry

UST:

Facility ID:	9-103898
Owner:	The Harry and Jeanette Weinberg Foundation
Owner Address:	3660 Waialae Ave, Suite 400
Owner City,St,Zip:	Honolulu, 96819 96819
Latitude:	21.314473
Longitude:	-157.867622
Horizontal Reference Datum Name:	NAD83
Horizontal Collection Method Name:	Map
Tank ID:	r-1

420 N. NIMITS HWY DEMOLOTION PROJECT (Continued) **U004155570**

Date Installed:	Not reported
Tank Status:	**Permanently out of Use**
Date Closed:	06/22/2010
Tank Capacity:	500
Substance:	Other

Q69 **420-470 NORTH NIMITZ HIGHWAY** **HI SHWS S106815536**
SSW **420-470 N NIMITZ HWY** **HI ENG CONTROLS N/A**
1/4-1/2 **HONOLULU, HI 96817**
0.336 mi.
1772 ft. **Site 2 of 2 in cluster Q**

Relative:
Lower

Actual:
3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	420-470 North Nimitz Highway
HID Number:	Not reported
Facility Registry Identifier:	110013783511
Lead Agency:	HEER
Program:	State
Project Manager:	Steve Mow
Hazard Priority:	Low
Potential Hazards And Controls:	Hazard Managed With Controls
Island:	Oahu
SDAR Environmental Interest Name:	420-470 North Nimitz Highway
HID Number:	Not reported
Facility Registry Identifier:	110013783511
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Managed With Controls
Priority:	Low
Assessment:	Response Necessary
Response:	Response Ongoing
Nature of Contamination:	Found: Subsurface petroleum contamination in soil.
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Engineering Control Required
Description of Restrictions:	Prohibit Any Activity That May Disturb the Integrity of the Capping System and prohibit disturbance of the soil.
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Steve Mow
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:

Supplemental Location Text:	Not reported
Zip Suffix:	Not reported
Island:	Oahu
Potential Hazards And Controls:	Hazard Managed With Controls
Engineering Control:	Engineering Control Required

70
NW
1/4-1/2
0.350 mi.
1846 ft.

KING'S SERVICE
1070 N KING ST
HONOLULU, HI 96817

HI LUST U003541723
HI UST N/A

Relative:
Lower

Actual:
3 ft.

LUST:
Facility ID: 9-101111
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 07/06/1994
Release ID: 870007
Project Officer: Eric Sadoyama

UST:
Facility ID: 9-101111
Owner: CHEVRON PRODUCTS COMPANY
Owner Address: 91-480 MALAKOLE ST.
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.324575
Longitude: -157.868433
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: R-01
Date Installed: 10/15/1986
Tank Status: **Permanently Out of Use**
Date Closed: 07/01/1993
Tank Capacity: 10000
Substance: Gasoline

Tank ID: R-02
Date Installed: 10/15/1986
Tank Status: **Permanently Out of Use**
Date Closed: 07/01/1993
Tank Capacity: 10000
Substance: Gasoline

Tank ID: R-03
Date Installed: 10/15/1986
Tank Status: **Permanently Out of Use**
Date Closed: 07/01/1993
Tank Capacity: 10000
Substance: Gasoline

Tank ID: R-04
Date Installed: 10/15/1986
Tank Status: **Permanently Out of Use**
Date Closed: 07/01/1993
Tank Capacity: 1000
Substance: Used Oil

Tank ID: R-1
Date Installed: 06/18/1970
Tank Status: **Permanently Out of Use**
Date Closed: 09/29/1986

KING'S SERVICE (Continued) **U003541723**

Tank Capacity: 1000
Substance: Gasoline

Tank ID: R-2
Date Installed: 06/18/1970
Tank Status: **Permanently Out of Use**
Date Closed: 09/29/1986
Tank Capacity: 10000
Substance: Gasoline

Tank ID: R-3
Date Installed: 06/18/1970
Tank Status: **Permanently Out of Use**
Date Closed: 09/29/1986
Tank Capacity: 10000
Substance: Gasoline

Tank ID: R-4
Date Installed: 06/18/1970
Tank Status: **Permanently Out of Use**
Date Closed: 09/29/1986
Tank Capacity: 5000
Substance: Gasoline

Tank ID: R-5
Date Installed: 06/18/1970
Tank Status: **Permanently Out of Use**
Date Closed: 09/29/1986
Tank Capacity: 1000
Substance: Used Oil

R71
NW
1/4-1/2
0.362 mi.
1913 ft.

JBL HAWAII, LTD
905 KOKEA ST
HONOLULU, HI 96817

HI SHWS 1006820832
HI ENG CONTROLS N/A
HI INST CONTROL

Site 1 of 3 in cluster R

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: JBL Hawaii, Limited
HID Number: Not reported
Facility Registry Identifier: 110013788473
Lead Agency: HEER
Program: State
Project Manager: Eric Sadoyama
Hazard Priority: Low
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: JBL Hawaii, Limited
HID Number: Not reported
Facility Registry Identifier: 110013788473
Lead Agency: HEER

JBL HAWAII, LTD (Continued) **1006820832**

Potential Hazard And Controls:	Hazard Managed With Controls
Priority:	Low
Assessment:	Response Necessary
Response:	Response Complete
Nature of Contamination:	Not reported
Nature of Residual Contamination:	Petroleum impacted soils, gasoline in gw does not exceed EALs
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Engineering Control Required
Description of Restrictions:	Prohibit Any Activity That May Disturb the Integrity of the Capping System
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination:	Not reported
Site Closure Type:	No Further Action Letter - Restricted Use
Document Date:	08/29/2005
Document Number:	2005-440-ES
Document Subject:	Comments on Aug 12, 2005 "Groundwater Monitoring and Sampling Report"
Project Manager:	Eric Sadoyama
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:

Supplemental Location Text:	Not reported
Zip Suffix:	Not reported
Island:	Oahu
Potential Hazards And Controls:	Hazard Managed With Controls
Engineering Control:	Engineering Control Required

INST CONTROL:

Potential hazards and controls:	Hazard Managed With Controls
Supplemental Location:	Not reported
Zip Suffix:	Not reported
Island:	Oahu
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued

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R72 **JBL HAWAII LTD** **HI LUST U001235921**
NW **905 KOKEA ST** **HI UST N/A**
1/4-1/2 **HONOLULU, HI 96817**
0.362 mi.
1913 ft. **Site 2 of 3 in cluster R**

Relative: **Lower**

Actual: **3 ft.**

LUST:

Facility ID:	9-102462
Facility Status:	Site Cleanup Completed (NFA)
Facility Status Date:	07/28/1993
Release ID:	920012
Project Officer:	To HEER

UST:

Facility ID:	9-102462
Owner:	JBL HAWAII LTD
Owner Address:	531 WAIAKAMILO RD
Owner City,St,Zip:	Honolulu, 96817 96817
Latitude:	21.323864
Longitude:	-157.869670
Horizontal Reference Datum Name:	NAD83
Horizontal Collection Method Name:	Map

JBL HAWAII LTD (Continued) **U001235921**

Tank ID:	R-1
Date Installed:	Not reported
Tank Status:	**Permanently Out of Use**
Date Closed:	10/19/1991
Tank Capacity:	1000
Substance:	Gasoline

S73 **PEARL HARBOR NAVY PUBLIC WORKS CENTER** **SEMS 1015730960**
South **NAVAL STATION AREA** **EPA WATCH LIST HI1170024334**
1/4-1/2 **PEARL HARBOR, HI 96860** **DOCKET HWC**
0.367 mi.
1940 ft. **Site 1 of 5 in cluster S**

Relative: **Higher**

Actual: **10 ft.**

SEMS:

Site ID:	902908
EPA ID:	HI1170024334
Federal Facility:	Y
NPL:	Site is Part of NPL Site
Non NPL Status:	Not reported

Following information was gathered from the prior CERCLIS update completed in 10/2013:

Site ID:	0902908
EPA ID:	HI1170024334
Facility County:	HONOLULU
Short Name:	PEARL HARBOR NAVY PUBLIC
Congressional District:	01
IFMS ID:	Not reported
SMSA Number:	Not reported
USGC Hydro Unit:	Not reported
Federal Facility:	Federal Facility
DMNSN Number:	0.00000
Site Orphan Flag:	N
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	Not reported
NFRAP Flag:	Not reported
Parent ID:	0904481
RST Code:	Not reported
EPA Region:	09
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Site is Part of NPL Site
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	USNV
Non NPL Status:	Not reported
Non NPL Status Date:	/ /
Site Fips Code:	15003
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Contact Name(s):

Contact ID:	9000059.00000
Contact Name:	Eugenia Chow
Contact Tel:	(415) 972-3160

PEARL HARBOR NAVY PUBLIC WORKS CENTER (Continued) **1015730960**

Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

CERCLIS Site Alias Name(s):
Alias ID: 101
Alias Name: PEARL HARBOR NAVAL STATION
Alias Address: Not reported
HI
Alias ID: 9270203
Alias Name: PEARL HARBOR USNV PUBLIC WORKS CENTER
Alias Address: NAVAL STATION AREA
PEARL HARBOR, HI 95971
Alias ID: 101
Alias Comments: PREVIOUS EPA ID# AZD 981 416 977
Site Description: Not reported

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: / /
Date Completed: 07/01/79
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 04/01/86
Priority Level: Addressed as part of an existing NPL site
Operable Unit: SITEWIDE
Primary Responsibility: Federal Facilities
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: SITE INSPECTION
Date Started: / /
Date Completed: 08/21/89
Priority Level: Addressed as part of an existing NPL site
Operable Unit: SITEWIDE
Primary Responsibility: Federal Facilities
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: SITE INSPECTION
Date Started: / /

PEARL HARBOR NAVY PUBLIC WORKS CENTER (Continued) **1015730960**

Date Completed: 07/28/91
Priority Level: Addressed as part of an existing NPL site
Operable Unit: SITEWIDE
Primary Responsibility: Federal Facilities
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

EPA WATCH LIST:
Facility ID: HI1170024334
Program: RCRA Facilities
List date: May 2013 RCRA Watch List

DOCKET HWC:
Agency: NAVY
Facility ID: MDL4487 - 2/12/1988
Reporting Mechanism: RCRA 3005
Status: On MDL

S74 **USNAVY SUBASE PEARL HARBOR** **SEMS** **1015730964**
South **USNAVY SUBASE PEARL HARBOR** **RCRA NonGen / NLR** **HI3170024340**
1/4-1/2 **PEARL HARBOR, HI 96860**
0.367 mi.
1940 ft. **Site 2 of 5 in cluster S**

Relative:
Higher

Actual:
10 ft.

SEMS:
Site ID: 903432
EPA ID: HI3170024340
Federal Facility: Y
NPL: Site is Part of NPL Site
Non NPL Status: Not reported

Following information was gathered from the prior CERCLIS update completed in 10/2013:
Site ID: 0903432
EPA ID: HI3170024340
Facility County: HONOLULU
Short Name: NAVAL SUBMARINE BASE
Congressional District: 01
IFMS ID: Not reported
SMSA Number: Not reported
USGC Hydro Unit: Not reported
Federal Facility: Federal Facility
DMNSN Number: 0.00000
Site Orphan Flag: N
RCRA ID: Not reported
USGS Quadrangle: Not reported
Site Init By Prog: Not reported
NFRAP Flag: Not reported
Parent ID: 0904481
RST Code: Not reported
EPA Region: 09
Classification: Not reported
Site Settings Code: Not reported
NPL Status: Site is Part of NPL Site
DMNSN Unit Code: Not reported
RBRAC Code: Not reported

USNAVY SUBASE PEARL HARBOR (Continued) **1015730964**

RResp Fed Agency Code: USNV
Non NPL Status: Not reported
Non NPL Status Date: / /
Site Fips Code: 15003
CC Concurrence Date: / /
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):
Contact ID: 9000059.00000
Contact Name: Eugenia Chow
Contact Tel: (415) 972-3160
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

CERCLIS Site Alias Name(s):
Alias ID: 101
Alias Name: PEARL HARBOR NAVAL STATION
Alias Address: Not reported
HI
Alias ID: 9270291
Alias Name: NAVAL COMPLEX PEARL HARBOR-SUBMARINE BASE
Alias Address: NAVAL SUBMARINE BASE
PEARL HARBOR, HI 94520
Alias ID: 101
Alias Comments: PREVIOUS EPA ID# AZD 981 416 977
Site Description: Per Philip Armstrong, record for an SI 2 deleted 5-14-03 as there is no documentation of this action in the CERCLA file. Site given active status (archive indicator un-checked) 5-14-03, per Philip Armstrong.

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: / /
Date Completed: 05/01/88
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Facilities
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 08/22/89
Priority Level: Addressed as part of an existing NPL site
Operable Unit: SITEWIDE
Primary Responsibility: Federal Facilities
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

USNAVY SUBASE PEARL HARBOR (Continued) **1015730964**

Action Code: 001
Action: SITE INSPECTION
Date Started: / /
Date Completed: 08/22/89
Priority Level: Addressed as part of an existing NPL site
Operable Unit: SITEWIDE
Primary Responsibility: Federal Facilities
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ARCHIVE SITE
Date Started: / /
Date Completed: 02/06/97
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA In-House
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

RCRA NonGen / NLR:
Date form received by agency: 10/14/1998
Facility name: USNAVY SUBASE PEARL HARBOR
Facility address: USNAVY SUBASE PEARL HARBOR
PEARL HARBOR, HI 96860
EPA ID: HI3170024340
Contact: FRED H. MCKISSACK
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (808) 474-6508
Contact email: Not reported
EPA Region: 09
Land type: Federal
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No

USNAVY SUBASE PEARL HARBOR (Continued) **1015730964**

Used oil transporter: No

Historical Generators:
Date form received by agency: 03/23/1998
Site name: USNAVY SUBASE PEARL HARBOR
Classification: Not a generator, verified

Date form received by agency: 02/21/1996
Site name: USNAVY NAVAL SUBMARINE BASE PEARL HARBOR
Classification: Large Quantity Generator

Date form received by agency: 06/26/1995
Site name: USNAVY SUBASE PEARL HARBOR
Classification: Large Quantity Generator

Date form received by agency: 02/24/1994
Site name: NAVAL SUBMARINE BASE PEARL HARBOR
Classification: Large Quantity Generator

Date form received by agency: 02/29/1992
Site name: US NAVAL SUBMARINE BASE
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 11/30/1994
Date achieved compliance: 01/19/1995
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 11/30/1994
Date achieved compliance: 01/19/1995
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.20-23.B
Area of violation: Generators - General
Date violation determined: 03/21/1986
Date achieved compliance: 09/28/1994

USNAVY SUBASE PEARL HARBOR (Continued) **1015730964**

Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/19/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 03/21/1986
Date achieved compliance: 09/28/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/19/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 09/28/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 01/19/1995
Evaluation lead agency: EPA

Evaluation date: 03/21/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/28/1994
Evaluation lead agency: State

Evaluation date: 06/21/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

S75 **KAALA AFS** **SEMS-ARCHIVE 1015733372**
South **TAXIWAY 5 & KAMAKAHI ST** **FINDS HI2570090066**
1/4-1/2 **HONOLULU, HI 96853**
0.367 mi.
1940 ft. **Site 3 of 5 in cluster S**

Relative:
Higher

Actual:
10 ft.

SEMS-ARCHIVE:
Site ID: 903518
EPA ID: HI2570090066
Federal Facility: Y
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Following information was gathered from the prior CERCLIS update completed in 10/2013:
Site ID: 0903518

KAALA AFS (Continued) **1015733372**

Federal Facility: Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13037334.00000
Person ID: 9000059.00000

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: KAALA USAF STATION
Alias Address: TAXIWAY 5 & KAMAKAHI ST
HONOLULU, HI 96796

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: / /
Date Completed: 10/01/88
Priority Level: Not reported

Action: SITE INSPECTION
Date Started: / /
Date Completed: 07/20/92
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 07/20/92
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 07/20/92
Priority Level: Low priority for further assessment

FINDS:

Registry ID: 110064005972

Environmental Interest/Information System
FEDERAL FACILITY HAZARDOUS WASTE DOCKET

S76 **USNAVY NAVY EXCHANGE AIEA LAUNDRY** **SEMS** **1015730966**
South **MOANALUA RD KAIMAKANI ST** **RCRA-SQG** **HI3170090069**
1/4-1/2 **AIEA, HI 96701**
0.367 mi.
1940 ft. **Site 4 of 5 in cluster S**

Relative:
Higher

Actual:
10 ft.

SEMS:
Site ID: 902914
EPA ID: HI3170090069
Federal Facility: N
NPL: Site is Part of NPL Site
Non NPL Status: Not reported

Following information was gathered from the prior CERCLIS update completed in 10/2013:

USNAVY NAVY EXCHANGE AIEA LAUNDRY (Continued) **1015730966**

Site ID: 0902914
EPA ID: HI3170090069
Facility County: HONOLULU
Short Name: U S NAVY EXCHANGE LAUNDRY
Congressional District: 01
IFMS ID: Not reported
SMSA Number: Not reported
USGC Hydro Unit: Not reported
Federal Facility: Not a Federal Facility
DMNSN Number: 0.00000
Site Orphan Flag: N
RCRA ID: Not reported
USGS Quadrangle: Not reported
Site Init By Prog: Not reported
NFRAP Flag: Not reported
Parent ID: 0904481
RST Code: Not reported
EPA Region: 09
Classification: Not reported
Site Settings Code: Not reported
NPL Status: Site is Part of NPL Site
DMNSN Unit Code: Not reported
RBRAC Code: Not reported
RResp Fed Agency Code: USNV
Non NPL Status: Not reported
Non NPL Status Date: / /
Site Fips Code: 15003
CC Concurrence Date: / /
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):
Contact ID: 9000059.00000
Contact Name: Eugenia Chow
Contact Tel: (415) 972-3160
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

CERCLIS Site Alias Name(s):
Alias ID: 101
Alias Name: PEARL HARBOR NAVAL STATION
Alias Address: US NAVAL STATION
PEARL HARBOR, HI 96860
Alias Comments: Not reported
Site Description: 7/15/05 - This site is being assigned a FAD designation because the decision made at the last completed assessment at the site is that it is being addressed as part of an NPL site.

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: / /
Date Completed: 07/03/90
Priority Level: Not reported
Operable Unit: SITEWIDE

USNAVY NAVY EXCHANGE AIEA LAUNDRY (Continued) **1015730966**

Primary Responsibility: Federal Facilities
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: SITE INSPECTION
Date Started: / /
Date Completed: 08/23/90
Priority Level: Addressed as part of an existing NPL site
Operable Unit: SITEWIDE
Primary Responsibility: Federal Facilities
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 08/23/90
Priority Level: Addressed as part of an existing NPL site
Operable Unit: SITEWIDE
Primary Responsibility: Federal Facilities
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

RCRA-SQG:
Date form received by agency: 08/16/1989
Facility name: USNAVY NAVY EXCHANGE AIEA LAUNDRY
Facility address: MOANALUA RD KAIMAKANI ST
AIEA, HI 96701
EPA ID: HI3170090069
Mailing address: C O PACNAVFACENGCOM
PEARL HARBOR, HI 96860
Contact: CONTACT PERSON
Contact address: MOANALUA RD KAIMAKANI ST
AIERA, HI 96860
Contact country: US
Contact telephone: (808) 471-3948
Contact email: Not reported
EPA Region: 09
Land type: Federal
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED

USNAVY NAVY EXCHANGE AIEA LAUNDRY (Continued) **1015730966**

NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Federal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: UNITED STATES NAVY
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Federal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 12/11/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/13/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/15/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

S77
South
1/4-1/2
0.375 mi.
1979 ft.

KEKAULIKE DIAMOND HEAD BLOCK REVITALIZATION
163 N HOTEL ST
HONOLULU, HI 96817

HI SHWS **1006819184**
HI SPILLS **N/A**

Site 5 of 5 in cluster S

Relative:
Higher

Actual:
10 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Hotel St & Kekaulike St
Island:	Oahu
Environmental Interest:	Kekaulike Diamond Head Block Revitalization
HID Number:	Not reported
Facility Registry Identifier:	110013769564
Lead Agency:	HEER
Program:	State
Project Manager:	Mark Sutterfield
Hazard Priority:	NFA
Potential Hazards And Controls:	No Hazard
Island:	Oahu
SDAR Environmental Interest Name:	Kekaulike Diamond Head Block Revitalization
HID Number:	Not reported
Facility Registry Identifier:	110013769564
Lead Agency:	HEER
Potential Hazard And Controls:	No Hazard
Priority:	NFA
Assessment:	Response Necessary
Response:	Response Complete
Nature of Contamination:	Not reported
Nature of Residual Contamination:	Petroleum contaminated soil
Use Restrictions:	No Hazard Present for Unrestricted Residential Use
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Not reported
Site Closure Type:	Letter of Completion - Unrestricted Residential Use
Document Date:	03/23/2005
Document Number:	2005-150-MS
Document Subject:	NFA of Kekaulike Diamond Head Block
Project Manager:	Mark Sutterfield
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

HI SPILLS:

Island:	Oahu
Supplemental Loc. Text:	Hotel St & Kekaulike St
Case Number:	19941215-0915
HID Number:	Not reported
Facility Registry Id:	110013769564
Lead and Program:	HEER EP&R
ER:	Not reported
Units:	Kekaulike Diamond Head Block
Substances:	oil
Less Or Greater Than:	Not reported
Numerical Quantity:	Not reported
Units:	Not reported
Activity Type:	Response
Activity Lead:	Mike Cripps
Assignment End Date:	Not reported
Result:	SOSC NFA
File Under:	City and County of Honolulu, Department of Housing and Community

KEKAULIKE DIAMOND HEAD BLOCK REVITALIZATION (Continued) **1006819184**

Development
Latitude: 21.312455
Longitude: -157.863491

T78
ENE
1/4-1/2
0.375 mi.
1980 ft.

LILIHA CHEVRON
1748 LILIHA ST
HONOLULU, HI 96817

HI LUST **U001235687**
HI UST **N/A**

Site 1 of 2 in cluster T

Relative:
Higher

Actual:
70 ft.

LUST:

Facility ID:	9-102069
Facility Status:	Site Cleanup Completed (NFA)
Facility Status Date:	02/26/1996
Release ID:	920133
Project Officer:	Eric Sadoyama

UST:

Facility ID:	9-102069
Owner:	TAKEO NAGAMORI
Owner Address:	708 TWIN VIEW DR
Owner City,St,Zip:	Honolulu, 96817 96817
Latitude:	21.323486
Longitude:	-157.857948
Horizontal Reference Datum Name:	NAD83
Horizontal Collection Method Name:	Address Matching
Tank ID:	R-1
Date Installed:	Not reported
Tank Status:	**Permanently Out of Use**
Date Closed:	03/30/1992
Tank Capacity:	3000
Substance:	Gasoline
Tank ID:	R-2
Date Installed:	12/30/1969
Tank Status:	**Permanently Out of Use**
Date Closed:	12/16/1994
Tank Capacity:	7300
Substance:	Gasoline
Tank ID:	R-3
Date Installed:	01/30/1992
Tank Status:	**Permanently Out of Use**
Date Closed:	12/16/1994
Tank Capacity:	2000
Substance:	Gasoline
Tank ID:	R-4
Date Installed:	01/30/1991
Tank Status:	**Permanently Out of Use**
Date Closed:	12/17/1994
Tank Capacity:	3000
Substance:	Gasoline

LILIHA CHEVRON (Continued) **U001235687**

Tank ID: R-5
Date Installed: Not reported
Tank Status: Permanently Out of Use
Date Closed: 12/16/1994
Tank Capacity: 1000
Substance: Gasoline

T79 **B & A AUTOMOTIVE** **HI LUST U001235479**
ENE **1739 LILIHA ST** **HI UST N/A**
1/4-1/2 **HONOLULU, HI 96817**
0.376 mi.
1987 ft. **Site 2 of 2 in cluster T**

Relative: Higher

Actual: 70 ft.

LUST:
Facility ID: 9-101426
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 06/27/2000
Release ID: 940056
Project Officer: Jose Ruiz

UST:
Facility ID: 9-101426
Owner: B & A AUTOMOTIVE
Owner Address: 1739 LILIHA ST
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.323363
Longitude: -157.857479
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: R-1
Date Installed: 03/29/1951
Tank Status: Permanently Out of Use
Date Closed: 01/05/1994
Tank Capacity: 1000
Substance: Gasoline

Tank ID: R-2
Date Installed: 03/29/1951
Tank Status: Permanently Out of Use
Date Closed: 01/05/1994
Tank Capacity: 1000
Substance: Gasoline

U80 **KAPALAMA INCINERATOR** **RCRA-SQG 1001116173**
WNW **757 KOKEA ST** **HI SHWS HIR000001008**
1/4-1/2 **HONOLULU, HI 96817** **HI INST CONTROL**
0.389 mi. **HI SPILLS**
2054 ft. **Site 1 of 3 in cluster U**

Relative: Lower

Actual: 3 ft.

RCRA-SQG:
Date form received by agency: 09/08/2000
Facility name: KAPALAMA INCINERATOR
Facility address: 757 KOKEA ST
HONOLULU, HI 96817

KAPALAMA INCINERATOR (Continued) **1001116173**

EPA ID: HIR000001008
Contact: MARVIN CHAR
Contact address: 650 SO KING ST 11TH FLOOR
HONOLULU, HI 96813
Contact country: US
Contact telephone: (808) 527-6381
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: CITY AND COUNTY OF HONOLULU
Owner/operator address: 650 SO KING ST 11TH FLOOR
HONOLULU, HI 96813
Owner/operator country: Not reported
Owner/operator telephone: (808) 527-6381
Legal status: County
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D000
. Waste name: Not Defined

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Kapalama Incinerator
HID Number: HISFN0905436

KAPALAMA INCINERATOR (Continued) **1001116173**

Facility Registry Identifier:	110005729701
Lead Agency:	HEER
Program:	State
Project Manager:	Eric Sadoyama
Hazard Priority:	NFA
Potential Hazards And Controls:	No Hazard
Island:	Oahu
SDAR Environmental Interest Name:	Kapalama Incinerator
HID Number:	HISFN0905436
Facility Registry Identifier:	110005729701
Lead Agency:	HEER
Potential Hazard And Controls:	No Hazard
Priority:	NFA
Assessment:	Response Necessary
Response:	Response Complete
Nature of Contamination:	Found: Lead in soil
Nature of Residual Contamination:	Not reported
Use Restrictions:	No Hazard Present for Unrestricted Residential Use
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Not reported
Site Closure Type:	No Further Action Letter - Unrestricted Residential Use
Document Date:	10/24/2005
Document Number:	2005-543-ES
Document Subject:	Comments on Aug 2005 Final Closure Report and "No Further Action" determination for Kapalama Incinerator Unit
Project Manager:	Eric Sadoyama
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	Kapalama Incinerator Off-Site Contamination
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Program:	State
Project Manager:	Eric Sadoyama
Hazard Priority:	Medium
Potential Hazards And Controls:	Hazard Managed With Controls
Island:	Oahu
SDAR Environmental Interest Name:	Kapalama Incinerator Off-Site Contamination
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Managed With Controls
Priority:	Medium
Assessment:	Response Necessary
Response:	Response Ongoing
Nature of Contamination:	Presumed: Lead in soil
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination:	Not reported

KAPALAMA INCINERATOR (Continued) **1001116173**

Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Eric Sadoyama
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

INST CONTROL:

Potential hazards and controls:	Hazard Managed With Controls
Supplemental Location:	Not reported
Zip Suffix:	Not reported
Island:	Oahu
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued

HI SPILLS:

Island:	Oahu
Supplemental Loc. Text:	Not reported
Case Number:	19960202-1511
HID Number:	HISFN0905436
Facility Registry Id:	110005729701
Lead and Program:	HEER EP&R
ER:	No
Units:	Kapalama Incinerator
Substances:	Diesel Fuel
Less Or Greater Than:	Not reported
Numerical Quantity:	781
Units:	Gallons
Activity Type:	Response
Activity Lead:	Mike Miyasaka
Assignment End Date:	Not reported
Result:	SOSC NFA
File Under:	City and County of Honolulu, Department of Environmental Services, Refuse Division
Latitude:	21.323179
Longitude:	-157.870128

U81 **KAPALAMA INCINERATOR** **SEMS** **1001475694**
WNW **757 KOKEA STREET** **HISFN0905436**
1/4-1/2 **HONOLULU, HI 96817**
0.389 mi.
2054 ft. **Site 2 of 3 in cluster U**

Relative:
Lower

Actual:
3 ft.

SEMS:

Site ID:	905436
EPA ID:	HISFN0905436
Federal Facility:	N
NPL:	Not on the NPL
Non NPL Status:	Other Cleanup Activity: State-Lead Cleanup

Following information was gathered from the prior CERCLIS update completed in 10/2013:

Site ID:	0905436
EPA ID:	HISFN0905436
Facility County:	HONOLULU
Short Name:	KAPALAMA INCINERATOR
Congressional District:	Not reported
IFMS ID:	Not reported
SMSA Number:	Not reported

KAPALAMA INCINERATOR (Continued) **1001475694**

USGC Hydro Unit: Not reported
Federal Facility: Not a Federal Facility
DMNSN Number: 0.00000
Site Orphan Flag: Not reported
RCRA ID: Not reported
USGS Quadrangle: Not reported
Site Init By Prog: S
NFRAP Flag: Not reported
Parent ID: Not reported
RST Code: Not reported
EPA Region: 09
Classification: Not reported
Site Settings Code: Not reported
NPL Status: Not on the NPL
DMNSN Unit Code: Not reported
RBRAC Code: Not reported
RResp Fed Agency Code: Not reported
Non NPL Status: Other Cleanup Activity: State-Lead Cleanup
Non NPL Status Date: 03/25/13
Site Fips Code: 15003
CC Concurrence Date: / /
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):
Contact ID: 9000059.00000
Contact Name: Eugenia Chow
Contact Tel: (415) 972-3160
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Alias Comments: Not reported
Site Description: Site has overseen site cleanup and follow on investigations for many years.

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: / /
Date Completed: 02/12/99
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: SITE INSPECTION
Date Started: / /
Date Completed: 06/23/99
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported

KAPALAMA INCINERATOR (Continued) **1001475694**

Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 06/23/99
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

82
South
1/4-1/2
0.390 mi.
2060 ft.

Relative:
Lower

Actual:
4 ft.

AWA WASTEWATER PUMP STATION **HI SHWS S105262868**
190 N NIMITZ HWY **HI SPILLS N/A**
HONOLULU, HI 96817

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Awa Street Wastewater Pump Station and Force Main Improvements
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Program: State
Project Manager: Melody Calisay
Hazard Priority: Low
Potential Hazards And Controls: Hazard Undetermined
Island: Oahu
SDAR Environmental Interest Name: Awa Street Wastewater Pump Station and Force Main Improvements
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Potential Hazard And Controls: Hazard Undetermined
Priority: Low
Assessment: Assessment Ongoing
Response: Not reported
Nature of Contamination: Not reported
Nature of Residual Contamination: Not reported
Use Restrictions: Undetermined
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Not reported
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Melody Calisay
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

AWA WASTEWATER PUMP STATION (Continued) **S105262868**

HI SPILLS:
- Island: Oahu
- Supplemental Loc. Text: Not reported
- Case Number: 19930826
- HID Number: Not reported
- Facility Registry Id: Not reported
- Lead and Program: HEER EP&R
- ER: Not reported
- Units: Awa Wastewater Pump Station
- Substances: Oil
- Less Or Greater Than: Not reported
- Numerical Quantity: Not reported
- Units: Not reported
- Activity Type: Response
- Activity Lead: Not reported
- Assignment End Date: Not reported
- Result: SOSC NFA
- File Under: Okahara and Associates, Inc.
- Latitude: 21.313698
- Longitude: -157.865319

V83 **MID PAC PETROLEUM LLC 2705958** **HI SHWS U001235004**
SW **540 N NIMITZ HWY** **HI LUST N/A**
1/4-1/2 **HONOLULU, HI 96817** **HI UST**
0.403 mi. **HI ENG CONTROLS**
2126 ft. **Site 1 of 3 in cluster V** **HI INST CONTROL**
HI Financial Assurance

Relative:
Lower

Actual:
3 ft.

SHWS:
- Organization: Not reported
- Supplemental Location: Omega
- Island: Oahu
- Environmental Interest: Alii #3282
- HID Number: Not reported
- Facility Registry Identifier: 110009360093
- Lead Agency: SHWB/HEER
- Program: State
- Project Manager: Kelton Otsuka
- Hazard Priority: NFA
- Potential Hazards And Controls: Hazard Managed With Controls
- Island: Oahu
- SDAR Environmental Interest Name: Alii #3282
- HID Number: Not reported
- Facility Registry Identifier: 110009360093
- Lead Agency: SHWB/HEER
- Potential Hazard And Controls: Hazard Managed With Controls
- Priority: NFA
- Assessment: Response Necessary
- Response: Response Ongoing
- Nature of Contamination: Found: Subsurface petroleum in soil and groundwater
- Nature of Residual Contamination: Comingled petroleum hydrocarbon plume from underground storage tanks and former Pipeline 304.
- Use Restrictions: Controls Required to Manage Contamination
- Engineering Control: Engineering Control Required
- Description of Restrictions: Not reported
- Institutional Control: Government - Hawaii Dept. of Health Letter Issued
- Within Designated Areawide Contamination: Not reported

MID PAC PETROLEUM LLC 2705958 (Continued) **U001235004**

- Site Closure Type: No Further Action Letter - Restricted Use
- Document Date: 12/03/2014
- Document Number: 2014-603-SPM
- Document Subject: No Further Action with Institutional Controls (ICs) at Alii #3282
- Project Manager: Kelton Otsuka
- Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

LUST:
- Facility ID: 9-100017
- Facility Status: Site Cleanup Completed (NFA)
- Facility Status Date: 02/09/2009
- Release ID: 080018
- Project Officer: Shunsheng Fu

- Facility ID: 9-100017
- Facility Status: Site Cleanup Completed (NFA)
- Facility Status Date: 11/25/2008
- Release ID: 070010
- Project Officer: Shunsheng Fu

- Facility ID: 9-100017
- Facility Status: Site Cleanup Completed (NFA)
- Facility Status Date: 01/12/2011
- Release ID: 920166
- Project Officer: Shunsheng Fu

- Facility ID: 9-100017
- Facility Status: Site Cleanup Completed (NFA)
- Facility Status Date: 07/07/2000
- Release ID: 970015
- Project Officer: Shunsheng Fu

UST:
- Facility ID: 9-100017
- Owner: Mid Pac Petroleum LLC
- Owner Address: 677 Ala Moana Blvd Suite 625
- Owner City,St,Zip: Honolulu, 96817 96817
- Latitude: 21.314051
- Longitude: -157.868452
- Horizontal Reference Datum Name: NAD83
- Horizontal Collection Method Name: GPS

- Tank ID: R-3
- Date Installed: 06/01/1989
- **Tank Status: Permanently Out of Use**
- Date Closed: 06/18/2001
- Tank Capacity: 6000
- Substance: Diesel

- Tank ID: R-3282-1
- Date Installed: 04/15/1969
- **Tank Status: Permanently Out of Use**
- Date Closed: 06/01/1990
- Tank Capacity: 10000
- Substance: Gasoline

MID PAC PETROLEUM LLC 2705958 (Continued) **U001235004**

Tank ID: R-3282-2
Date Installed: 04/15/1969
Tank Status: **Permanently Out of Use**
Date Closed: 06/01/1990
Tank Capacity: 10000
Substance: Gasoline

Tank ID: R-3282-4
Date Installed: 04/01/1969
Tank Status: **Permanently Out of Use**
Date Closed: 06/01/1990
Tank Capacity: 1000
Substance: Used Oil

Tank ID: R-3282-7
Date Installed: 06/18/1990
Tank Status: **Permanently Out of Use**
Date Closed: 10/01/1996
Tank Capacity: 520
Substance: Used Oil

Tank ID: R-4
Date Installed: 06/01/1989
Tank Status: **Permanently Out of Use**
Date Closed: 06/18/2001
Tank Capacity: 6000
Substance: Diesel

Tank ID: r-1
Date Installed: Not reported
Tank Status: **Permanently out of Use**
Date Closed: 04/07/2008
Tank Capacity: 2000
Substance: Gasoline

Tank ID: r-2
Date Installed: Not reported
Tank Status: **Permanently out of Use**
Date Closed: 04/07/2008
Tank Capacity: 2000
Substance: Gasoline

Tank ID: r-3
Date Installed: Not reported
Tank Status: **Permanently out of Use**
Date Closed: 04/07/2008
Tank Capacity: 5000
Substance: Diesel

Tank ID: r-4

MID PAC PETROLEUM LLC 2705958 (Continued) **U001235004**

Date Installed: Not reported
Tank Status: **Permanently out of Use**
Date Closed: 04/07/2008
Tank Capacity: 2000
Substance: Gasoline

Tank ID: r-5
Date Installed: Not reported
Tank Status: **Permanently out of Use**
Date Closed: 04/07/2008
Tank Capacity: 2000
Substance: Gasoline

Tank ID: r-5
Date Installed: Not reported
Tank Status: **Permanently out of Use**
Date Closed: 04/08/2008
Tank Capacity: 2000
Substance: Not reported

Tank ID: r-87
Date Installed: 06/18/1990
Tank Status: **Permanently out of Use**
Date Closed: 01/29/2007
Tank Capacity: 12000
Substance: Gasoline

Tank ID: r-92
Date Installed: 06/18/1990
Tank Status: **Permanently out of Use**
Date Closed: 01/29/2007
Tank Capacity: 12000
Substance: Gasoline

ENG CONTROLS:
Supplemental Location Text: Omega
Zip Suffix: Not reported
Island: Oahu
Potential Hazards And Controls: Hazard Managed With Controls
Engineering Control: Engineering Control Required

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: Omega
Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

HI Financial Assurance:
Alt Facility ID: 9-100017
Tank Id: R-3282-4
Tank Status: Permanently Out of Use

MID PAC PETROLEUM LLC 2705958 (Continued) **U001235004**

FRTYPE: Insurance
Expiration Date: 09/01/2006

Alt Facility ID: 9-100017
Tank Id: r-92
Tank Status: Permanently out of Use
FRTYPE: Insurance
Expiration Date: 09/01/2006

Alt Facility ID: 9-100017
Tank Id: r-87
Tank Status: Permanently out of Use
FRTYPE: Insurance
Expiration Date: 09/01/2006

Alt Facility ID: 9-100017
Tank Id: r-5
Tank Status: Permanently out of Use
FRTYPE: Insurance
Expiration Date: 09/01/2006

Alt Facility ID: 9-100017
Tank Id: R-3282-7
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 09/01/2006

Alt Facility ID: 9-100017
Tank Id: R-3282-2
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 09/01/2006

Alt Facility ID: 9-100017
Tank Id: R-3282-1
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 09/01/2006

Alt Facility ID: 9-100017
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 09/01/2006

Alt Facility ID: 9-100017
Tank Id: r-2
Tank Status: Permanently out of Use
FRTYPE: Insurance
Expiration Date: 09/01/2006

Alt Facility ID: 9-100017
Tank Id: r-1
Tank Status: Permanently out of Use
FRTYPE: Insurance
Expiration Date: 09/01/2006

MID PAC PETROLEUM LLC 2705958 (Continued) **U001235004**

Alt Facility ID: 9-100017
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 09/01/2006

W84 **7-11 KAPALAMA** **HI LUST** **U003154444**
NW **1136 N KING ST.** **HI UST** **N/A**
1/4-1/2 **HONOLULU, HI 96817** **HI Financial Assurance**
0.412 mi.
2178 ft. **Site 1 of 2 in cluster W**

Relative:
Lower

Actual:
6 ft.

LUST:
Facility ID: 9-100028
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 10/02/1995
Release ID: 930033
Project Officer: Roger Brewer

UST:
Facility ID: 9-100028
Owner: Mid Pac Petroleum LLC
Owner Address: 1100 Alakea St., 8th Floor
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.325480
Longitude: -157.868910
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: GPS

Tank ID: 87
Date Installed: 09/01/1996
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 10000
Substance: Gasoline

Tank ID: 87
Date Installed: 09/01/1996
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 10000
Substance: Gasoline

Tank ID: 92
Date Installed: 08/01/1986
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 10000
Substance: Gasoline

Tank ID: 92
Date Installed: 08/01/1986
Tank Status: **Currently In Use**
Date Closed: Not reported

7-11 KAPALAMA (Continued) **U003154444**

Tank Capacity: 10000
Substance: Gasoline

Tank ID: R-0471-1
Date Installed: 04/01/1964
Tank Status: **Permanently Out of Use**
Date Closed: 12/11/1992
Tank Capacity: 6000
Substance: Gasoline

Tank ID: R-0471-1
Date Installed: 04/01/1964
Tank Status: **Permanently Out of Use**
Date Closed: 12/11/1992
Tank Capacity: 6000
Substance: Gasoline

Tank ID: R-0471-2
Date Installed: 04/01/1964
Tank Status: **Permanently Out of Use**
Date Closed: 12/11/1992
Tank Capacity: 5000
Substance: Gasoline

Tank ID: R-0471-2
Date Installed: 04/01/1964
Tank Status: **Permanently Out of Use**
Date Closed: 12/11/1992
Tank Capacity: 5000
Substance: Gasoline

Tank ID: R-0471-4
Date Installed: 04/01/1964
Tank Status: **Permanently Out of Use**
Date Closed: 12/11/1992
Tank Capacity: 550
Substance: Used Oil

Tank ID: R-0471-4
Date Installed: 04/01/1964
Tank Status: **Permanently Out of Use**
Date Closed: 12/11/1992
Tank Capacity: 550
Substance: Used Oil

Tank ID: R-4
Date Installed: 12/01/1952
Tank Status: **Permanently Out of Use**
Date Closed: 12/15/1992
Tank Capacity: 600

7-11 KAPALAMA (Continued) **U003154444**

Substance: Used Oil

Tank ID: R-4
Date Installed: 12/01/1952
Tank Status: **Permanently Out of Use**
Date Closed: 12/15/1992
Tank Capacity: 600
Substance: Used Oil

Tank ID: R-5
Date Installed: 12/01/2039
Tank Status: **Permanently Out of Use**
Date Closed: 12/15/1992
Tank Capacity: 1000
Substance: Gasoline

Tank ID: R-5
Date Installed: 12/01/2039
Tank Status: **Permanently Out of Use**
Date Closed: 12/15/1992
Tank Capacity: 1000
Substance: Gasoline

Tank ID: R-6
Date Installed: 12/01/2048
Tank Status: **Permanently Out of Use**
Date Closed: 12/15/1992
Tank Capacity: 1000
Substance: Gasoline

Tank ID: R-6
Date Installed: 12/01/2048
Tank Status: **Permanently Out of Use**
Date Closed: 12/15/1992
Tank Capacity: 1000
Substance: Gasoline

HI Financial Assurance:
Alt Facility ID: 9-100028
Tank Id: R-0471-4
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100028
Tank Id: 92
Tank Status: Currently In Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100028
Tank Id: 87

7-11 KAPALAMA (Continued) **U003154444**

Tank Status: Currently In Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100028
Tank Id: R-6
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100028
Tank Id: R-5
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100028
Tank Id: R-0471-1
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100028
Tank Id: R-0471-2
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100028
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100028
Tank Id: R-6
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 03/31/2014

Alt Facility ID: 9-100028
Tank Id: R-5
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 03/31/2014

Alt Facility ID: 9-100028
Tank Id: R-0471-4
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 03/31/2014

Alt Facility ID: 9-100028
Tank Id: R-0471-2
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 03/31/2014

7-11 KAPALAMA (Continued) **U003154444**

Alt Facility ID: 9-100028
Tank Id: 92
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 03/31/2014

Alt Facility ID: 9-100028
Tank Id: 87
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 03/31/2014

Alt Facility ID: 9-100028
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 03/31/2014

Alt Facility ID: 9-100028
Tank Id: R-0471-1
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 03/31/2014

85
North
1/4-1/2
0.419 mi.
2213 ft.

Relative:
Higher

Actual:
40 ft.

HAWAII HOUSING AUTHORITY **HI LUST U001235353**
1002 N SCHOOL ST **HI UST N/A**
HONOLULU, HI 96817

LUST:
Facility ID: 9-101036
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 01/06/1995
Release ID: 940197
Project Officer: Jose Ruiz

UST:
Facility ID: 9-101036
Owner: STATE DHS - HAWAII HOUSING AUTHORITY
Owner Address: P.O. BOX 17907
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.327988
Longitude: -157.863469
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: R-1
Date Installed: 05/12/1950
Tank Status: Permanently Out of Use
Date Closed: 06/13/1994
Tank Capacity: 5000
Substance: Gasoline

X86
West
1/4-1/2
0.420 mi.
2215 ft.

AA ELECTRIC, LTD.
500 ALA KAWA ST, APT #100
HONOLULU, HI 96817

HI LUST **U001235563**
HI UST **N/A**

Site 1 of 3 in cluster X

Relative:
Lower

Actual:
3 ft.

LUST:
Facility ID: 9-101711
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 01/30/1995
Release ID: 940080
Project Officer: Raymond Seid

UST:
Facility ID: 9-101711
Owner: AA ELECTRIC, LTD.
Owner Address: 500 ALA KAWA ST., APT. #100
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.318764
Longitude: -157.872884
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: R-1
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: Not reported
Tank Capacity: 1000
Substance: Gasoline

R87
NW
1/4-1/2
0.421 mi.
2224 ft.

OAHU PLUMBING & SHEET METAL, LTD
926 KOHOU ST
HONOLULU, HI 96817

HI LUST **U001235455**
HI UST **N/A**
HI Financial Assurance

Site 3 of 3 in cluster R

Relative:
Lower

Actual:
3 ft.

LUST:
Facility ID: 9-101367
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 05/07/2009
Release ID: 990119
Project Officer: Richard Takaba

UST:
Facility ID: 9-101367
Owner: OAHU PLUMBING & SHEET METAL, LTD
Owner Address: 938 KOHOU St
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.325163
Longitude: -157.870183
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Map

Tank ID: R-1
Date Installed: 03/14/1966
Tank Status: **Permanently Out of Use**
Date Closed: 01/07/1999
Tank Capacity: 1000
Substance: Gasoline

OAHU PLUMBING & SHEET METAL, LTD (Continued) **U001235455**

HI Financial Assurance:
Alt Facility ID: 9-101367
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: Not reported

88
ENE
1/4-1/2
0.425 mi.
2243 ft.

Relative:
Higher

Actual:
74 ft.

KUAKINI MEDICAL CENTER, PHYSICIANS OFFICE TOWER
347 N KUAKINI ST
HONOLULU, HI 96817

RCRA-SQG **1000270690**
HI SHWS **HID077701613**
HI LUST
HI UST
HI SPILLS
FINDS
HI Financial Assurance
ECHO

RCRA-SQG:
Date form received by agency: 08/19/1980
Facility name: KUAKINI MEDICAL CENTER#
Facility address: 347 N KUAKINI ST
HONOLULU, HI 96817
EPA ID: HID077701613
Contact: STEPHEN S THOMAS
Contact address: 347 N KUAKINI ST
HONOLULU, HI 96817
Contact country: US
Contact telephone: (808) 547-9299
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: KUAKINI MEDICAL CENTER CORPORATION
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

KUAKINI MEDICAL CENTER, PHYSICIANS OFFICE TOWER (Continued) **1000270690**

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

Historical Generators:
- Date form received by agency: 08/08/1980
- Site name: KUAKINI MEDICAL CENTER#
- Classification: Small Quantity Generator

Violation Status: No violations found

SHWS:
- Organization: Not reported
- Supplemental Location: Kuakini Medical Center
- Island: Oahu
- Environmental Interest: Kuakini Medical Center
- HID Number: Not reported
- Facility Registry Identifier: 110005723262
- Lead Agency: HEER
- Program: State
- Project Manager: Paul Chong
- Hazard Priority: Low
- Potential Hazards And Controls: Hazard Undetermined
- Island: Oahu
- SDAR Environmental Interest Name: Kuakini Medical Center
- HID Number: Not reported
- Facility Registry Identifier: 110005723262
- Lead Agency: HEER
- Potential Hazard And Controls: Hazard Undetermined
- Priority: Low
- Assessment: Assessment Ongoing
- Response: Response Ongoing
- Nature of Contamination: Not reported
- Nature of Residual Contamination: Not reported
- Use Restrictions: Undetermined
- Engineering Control: Not reported
- Description of Restrictions: Not reported
- Institutional Control: Not reported
- Within Designated Areawide Contamination: Not reported
- Site Closure Type: Not reported
- Document Date: Not reported
- Document Number: Not reported
- Document Subject: Not reported
- Project Manager: Paul Chong

KUAKINI MEDICAL CENTER, PHYSICIANS OFFICE TOWER (Continued) **1000270690**

Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

LUST:
- Facility ID: 9-100264
- Facility Status: Site Cleanup Completed with EHE/EHMP
- Facility Status Date: 03/21/2014
- Release ID: 100019
- Project Officer: Shaobin Li

- Facility ID: 9-100264
- Facility Status: Site Cleanup Completed (NFA)
- Facility Status Date: 07/31/1997
- Release ID: 910061
- Project Officer: Shaobin Li

- Facility ID: 9-100264
- Facility Status: Site Cleanup Completed (NFA)
- Facility Status Date: 09/22/1998
- Release ID: 980098
- Project Officer: Shaobin Li

UST:
- Facility ID: 9-100264
- Owner: KUAKINI MEDICAL CENTER
- Owner Address: 347 NORTH KUAKINI ST
- Owner City,St,Zip: Honolulu, 96817 96817
- Latitude: 21.321500
- Longitude: -157.856950
- Horizontal Reference Datum Name: NAD83
- Horizontal Collection Method Name: GPS

- Tank ID: M-1
- Date Installed: 05/01/1998
- **Tank Status: Currently In Use**
- Date Closed: Not reported
- Tank Capacity: 2500
- Substance: Diesel

- Tank ID: M-2
- Date Installed: 02/21/1999
- **Tank Status: Currently In Use**
- Date Closed: Not reported
- Tank Capacity: 600
- Substance: Diesel

- Tank ID: R-3
- Date Installed: 03/20/1980
- **Tank Status: Permanently Out of Use**
- Date Closed: 03/07/1991
- Tank Capacity: 550
- Substance: Diesel

- Tank ID: R-M-1

KUAKINI MEDICAL CENTER, PHYSICIANS OFFICE TOWER (Continued) **1000270690**

Date Installed: 03/20/1980
Tank Status: **Permanently Out of Use**
Date Closed: Not reported
Tank Capacity: 5000
Substance: Diesel

Tank ID: R-M-2
Date Installed: 03/20/1982
Tank Status: **Permanently Out of Use**
Date Closed: 04/15/1998
Tank Capacity: 1000
Substance: Diesel

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Kuakini Medical Center
Case Number: 20100430-0840
HID Number: Not reported
Facility Registry Id: 110005723262
Lead and Program: HEER EP&R
ER: None
Units: Kuakini Medical Center contaminated soil
Substances: Diesel Fuel
Less Or Greater Than: Not reported
Numerical Quantity: 0
Units: Unknown
Activity Type: Response
Activity Lead: Liz Galvez
Assignment End Date: 2010-05-04 00:00:00
Result: Refer to SHWB
File Under: Kuakini Health System
Latitude: 21.321535
Longitude: -157.855925

FINDS:

Registry ID: 110046154790

Environmental Interest/Information System
STATE MASTER

HI Financial Assurance:
Alt Facility ID: 9-100264
Tank Id: R-M-2
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 10/01/2015

Alt Facility ID: 9-100264
Tank Id: M-1
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 10/01/2015

KUAKINI MEDICAL CENTER, PHYSICIANS OFFICE TOWER (Continued) **1000270690**

Alt Facility ID: 9-100264
Tank Id: M-2
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 10/01/2015

Alt Facility ID: 9-100264
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 10/01/2015

Alt Facility ID: 9-100264
Tank Id: R-M-1
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 10/01/2015

ECHO:
Envid: 1000270690
Registry ID: 110046154790
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110046154790

W89 **GTE-HAWAIIAN TEL EMPLOYEES FEDERAL CREDIT UNION (HTEFCU)** **HI SHWS** **1006820922**
NW **1138 N KING ST** **HI ENG CONTROLS** **N/A**
1/4-1/2 **HONOLULU, HI 96817** **HI INST CONTROL**
0.428 mi.
2261 ft. **Site 2 of 2 in cluster W**

Relative:
Lower

Actual:
8 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: GTE-Hawaiian Tel Employees Federal Credit Union (HTEFCU)
HID Number: Not reported
Facility Registry Identifier: 110013789506
Lead Agency: HEER
Program: State
Project Manager: Richard Palmer
Hazard Priority: NFA
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: GTE-Hawaiian Tel Employees Federal Credit Union (HTEFCU)
HID Number: Not reported
Facility Registry Identifier: 110013789506
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: NFA
Assessment: Response Necessary
Response: Response Complete
Nature of Contamination: Presumed: Low Priority, 1999, lack of data re possible PAHs, chlorinated solvents &/or PCBs. Capped by building.
Nature of Residual Contamination: Not reported
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Engineering Control Required
Description of Restrictions: Prohibit Any Activity That May Disturb the Integrity of the Capping System

GTE-HAWAIIAN TEL EMPLOYEES FEDERAL CREDIT UNION (HTEFCU) (Continued) **1006820922**

Institutional Control: Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination: Not reported
Site Closure Type: No Further Action Letter - Restricted Use
Document Date: 07/11/2008
Document Number: Not reported
Document Subject: Hawaiian Tel Employees Federal Credit Union, Closed EI, LUC IC
Project Manager: Richard Palmer
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:
Supplemental Location Text: Not reported
Zip Suffix: Not reported
Island: Oahu
Potential Hazards And Controls: Hazard Managed With Controls
Engineering Control: Engineering Control Required

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: Not reported
Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

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X90 **COSTCO WAREHOUSE** **HI SHWS** **S108008497**
West **525 ALAKAWA ST** **HI ENG CONTROLS** **N/A**
1/4-1/2 **HONOLULU, HI 96817** **HI INST CONTROL**
0.432 mi. **HI VCP**
2281 ft. **Site 2 of 3 in cluster X**

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Costco Iwilei
HID Number: Not reported
Facility Registry Identifier: 110013780122
Lead Agency: HEER
Program: Voluntary Response Program
Project Manager: Mark Sutterfield
Hazard Priority: NFA
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: Costco Iwilei
HID Number: Not reported
Facility Registry Identifier: 110013780122
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: NFA
Assessment: Response Necessary
Response: Response Complete
Nature of Contamination: Not reported
Nature of Residual Contamination: TPH-D,o BTEX free product in soil and groundwater.
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Engineering Control Required
Description of Restrictions: When any subsurface construction activity, a soil management plan must be submitted for review. Continue groundwater monitoring.
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

COSTCO WAREHOUSE (Continued) **S108008497**

Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Letter of Completion - Restricted Use
Document Date: 03/20/2008
Document Number: 2008-225-MS
Document Subject: LOC for Costco Warehouse and Gas Station Iwilei
Project Manager: Mark Sutterfield
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:
Supplemental Location Text: Not reported
Zip Suffix: Not reported
Island: Oahu
Potential Hazards And Controls: Hazard Managed With Controls
Engineering Control: Engineering Control Required

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: Not reported
Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

VCP:
Program: Voluntary Response Program
Zip Suffix: Not reported
Supplemental Location: Not reported
Island: Oahu

X91 **COSTCO GAS STATION** **HI SHWS** **S108859910**
West **520 ALAKAWA ST** **HI ENG CONTROLS** **N/A**
1/4-1/2 **HONOLULU, HI 96817** **HI INST CONTROL**
0.440 mi. **HI VCP**
2322 ft. **Site 3 of 3 in cluster X**

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Alakawa St & Dillingham Blvd
Island: Oahu
Environmental Interest: Costco Gas Station
HID Number: Not reported
Facility Registry Identifier: 110013779401
Lead Agency: HEER
Program: Voluntary Response Program
Project Manager: Mark Sutterfield
Hazard Priority: NFA
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: Costco Gas Station
HID Number: Not reported
Facility Registry Identifier: 110013779401
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: NFA
Assessment: Response Necessary
Response: Response Complete
Nature of Contamination: Found: TPH-D,o BTEX free product in soil, groundwater and soil vapor

COSTCO GAS STATION (Continued) **S108859910**

Nature of Residual Contamination: BTEX, PAHs, TPH free product in soil and groundwater.
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Engineering Control Required
Description of Restrictions: Submit a soil management plan before subsurface construction. Also evaluate soil vapor intrusion for new above ground construction.
Institutional Control: Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Letter of Completion - Restricted Use
Document Date: 10/23/2006
Document Number: 2006-655-MS
Document Subject: Transmittal Memo for Final RAM Costco
Project Manager: Mark Sutterfield
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:
Supplemental Location Text: Alakawa St & Dillingham Blvd
Zip Suffix: Not reported
Island: Oahu
Potential Hazards And Controls: Hazard Managed With Controls
Engineering Control: Engineering Control Required

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: Alakawa St & Dillingham Blvd
Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

VCP:
Program: Voluntary Response Program
Zip Suffix: Not reported
Supplemental Location: Alakawa St & Dillingham Blvd
Island: Oahu

U92 **SHIMAYA SHOTEN, LTD.** **HI LUST** **U001235478**
WNW **710 KOHOU ST** **HI UST** **N/A**
1/4-1/2 **HONOLULU, HI 96817**
0.442 mi.
2334 ft. **Site 3 of 3 in cluster U**

Relative:
Lower

Actual:
3 ft.

LUST:
Facility ID: 9-101425
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 10/01/2009
Release ID: 900044
Project Officer: Richard Takaba

UST:
Facility ID: 9-101425
Owner: SHIMAYA SHOTEN, LTD.
Owner Address: 710 KOHOU St
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.323515
Longitude: -157.871990
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Map

SHIMAYA SHOTEN, LTD. (Continued) **U001235478**

Tank ID: R-1
Date Installed: 04/10/1966
Tank Status: **Permanently Out of Use**
Date Closed: 01/30/1990
Tank Capacity: 1000
Substance: Gasoline

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93 **JOHIRO BROTHERS, INC.** **HI LUST** **U003154457**
NW **1240 MOOKAULA ST** **HI UST** **N/A**
1/4-1/2 **HONOLULU, HI 96817**
0.451 mi.
2383 ft.

Relative:
Lower

Actual:
5 ft.

LUST:
Facility ID: 9-100258
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 05/11/1999
Release ID: 930050
Project Officer: Richard Takaba

UST:
Facility ID: 9-100258
Owner: JOHIRO BROTHERS, INC.
Owner Address: 1240 MOOKAULA ST
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.325581
Longitude: -157.870213
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: R-1
Date Installed: 04/01/1976
Tank Status: **Permanently Out of Use**
Date Closed: 01/26/1993
Tank Capacity: 1000
Substance: Gasoline

V94 **HARRY & JEANETTE WEINBERG FOUNDATION** **HI LUST** **U003154754**
SW **580 N NIMITZ HWY** **HI UST** **N/A**
1/4-1/2 **HONOLULU, HI 96817**
0.453 mi.
2393 ft. **Site 2 of 3 in cluster V**

Relative:
Lower

Actual:
3 ft.

LUST:
Facility ID: 9-102995
Facility Status: Case Transferred to HEER (regulated)
Facility Status Date: 07/22/2014
Release ID: 950031
Project Officer: Shunsheng Fu

UST:
Facility ID: 9-102995
Owner: HARRY & JEANETTE WEINBERG FOUNDATION
Owner Address: 3660 WAIALAE AVE, SUITE 400
Owner City,St,Zip: Honolulu, 96817 96817

HARRY & JEANETTE WEINBERG FOUNDATION (Continued) **U003154754**

Latitude:	21.314014
Longitude:	-157.869269
Horizontal Reference Datum Name:	NAD83
Horizontal Collection Method Name:	Address Matching
Tank ID:	R-1
Date Installed:	Not reported
Tank Status:	**Permanently Out of Use**
Date Closed:	11/15/1994
Tank Capacity:	1000
Substance:	Gasoline
Tank ID:	R-2
Date Installed:	Not reported
Tank Status:	**Permanently Out of Use**
Date Closed:	11/15/1994
Tank Capacity:	1000
Substance:	Diesel

V95 **580 NORTH NIMITZ HIGHWAY** **HI SHWS** **S109096040**
SW **580 N NIMITZ HWY** **HI ENG CONTROLS** **N/A**
1/4-1/2 **HONOLULU, HI 96817**
0.453 mi.
2393 ft. **Site 3 of 3 in cluster V**

Relative:
Lower

Actual:
3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	550 N Nimitz Hwy Inbound
Island:	Oahu
Environmental Interest:	580 North Nimitz
HID Number:	Not reported
Facility Registry Identifier:	110013768495
Lead Agency:	HEER
Program:	State
Project Manager:	Steve Mow
Hazard Priority:	Low
Potential Hazards And Controls:	Hazard Managed With Controls
Island:	Oahu
SDAR Environmental Interest Name:	580 North Nimitz
HID Number:	Not reported
Facility Registry Identifier:	110013768495
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Managed With Controls
Priority:	Low
Assessment:	Response Necessary
Response:	Response Ongoing
Nature of Contamination:	Found: Subsurface petroleum contamination in soil.
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Engineering Control Required
Description of Restrictions:	Prohibit Any Activity That May Disturb the Integrity of the Capping System and prohibit disturbance of the soil.
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported

580 NORTH NIMITZ HIGHWAY (Continued) **S109096040**

Document Subject:	Not reported
Project Manager:	Steve Mow
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:

Supplemental Location Text:	550 N Nimitz Hwy Inbound
Zip Suffix:	Not reported
Island:	Oahu
Potential Hazards And Controls:	Hazard Managed With Controls
Engineering Control:	Engineering Control Required

Y96 **CITY MILL** **HI SHWS** **U001235472**
SW **660 N NIMITZ HWY** **HI LUST** **N/A**
1/4-1/2 **HONOLULU, HI 96817** **HI UST**
0.465 mi. **HI INST CONTROL**
2457 ft. **Site 1 of 2 in cluster Y**

Relative:
Lower

Actual:
3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	City Mill Company, Ltd.
HID Number:	Not reported
Facility Registry Identifier:	110013779189
Lead Agency:	HEER
Program:	State
Project Manager:	Anna Fernandez
Hazard Priority:	NFA
Potential Hazards And Controls:	Hazard Managed With Controls
Island:	Oahu
SDAR Environmental Interest Name:	City Mill Company, Ltd.
HID Number:	Not reported
Facility Registry Identifier:	110013779189
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Managed With Controls
Priority:	NFA
Assessment:	Response Necessary
Response:	Response Complete
Nature of Contamination:	Found: Subsurface petroleum contamination in soil and groundwater
Nature of Residual Contamination:	This site is adjacent to OU2 of the Iwilei District Project. Data suggest impact to the site from the corridor. There is still contamination left in place and will require soil management.
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	No Further Action Letter - Restricted Use
Document Date:	05/15/2008
Document Number:	2008-332-CAC
Document Subject:	Review and comments on Final Monitoring Well Installation and Environmental Sampling Summary Report, Nov 28, 2007, prepared by Tetra Tech EM Inc
Project Manager:	Anna Fernandez
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

CITY MILL (Continued) **U001235472**

LUST:
Facility ID: 9-101398
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 03/15/2010
Release ID: 930073
Project Officer: Shunsheng Fu

UST:
Facility ID: 9-101398
Owner: UNOCAL CORPORATION
Owner Address: 3915 Mission Avenue #7416
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.314167
Longitude: -157.871014
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Map

Tank ID: R-A
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 03/08/1993
Tank Capacity: 2000
Substance: Diesel

Tank ID: R-B
Date Installed: 08/20/1973
Tank Status: **Permanently Out of Use**
Date Closed: 03/08/1993
Tank Capacity: 1000
Substance: Other

Tank ID: R-C
Date Installed: 08/20/1973
Tank Status: **Permanently Out of Use**
Date Closed: 03/08/1993
Tank Capacity: 500
Substance: Gasoline

Tank ID: R-D
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 03/08/1993
Tank Capacity: 5000
Substance: Diesel

Tank ID: R-E
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 03/08/1993
Tank Capacity: 2000
Substance: Not Listed

CITY MILL (Continued) **U001235472**

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: Not reported
Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

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Z97 **BHP GASCO BENZENE SITE** **HI SHWS** **S110277531**
WSW **616 IWILEI RD** **HI INST CONTROL** **N/A**
1/4-1/2 **HONOLULU, HI 96817** **HI SPILLS**
0.479 mi. **HI AIRS**
2527 ft. **Site 1 of 2 in cluster Z**

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: BHP Gasco Benzene Site
HID Number: HID982392367
Facility Registry Identifier: 110013780499
Lead Agency: HEER
Program: State
Project Manager: Steve Mow
Hazard Priority: High
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: BHP Gasco Benzene Site
HID Number: HID982392367
Facility Registry Identifier: 110013780499
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: High
Assessment: Response Necessary
Response: Response Ongoing
Nature of Contamination: Found: Benzene
Nature of Residual Contamination: Not reported
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Not reported
Description of Restrictions: Prohibit Any Activity That May Disturb the Integrity of the Monitoring System
Institutional Control: Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Steve Mow
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: Not reported
Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

BHP GASCO BENZENE SITE (Continued) **S110277531**

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 20100910-1350
HID Number: HID982392367
Facility Registry Id: 110013780499
Lead and Program: HEER EP&R
ER: None
Units: GasCo hydrogen peroxide explosions
Substances: Hydrogen Peroxide
Less Or Greater Than: Not reported
Numerical Quantity: 0
Units: Not reported
Activity Type: Response
Activity Lead: Curtis Martin
Assignment End Date: Not reported
Result: Not reported
File Under: BHP Hawaii, Inc.
Latitude: 21.315727
Longitude: -157.871846

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19880407
HID Number: HID982392367
Facility Registry Id: 110013780499
Lead and Program: HEER EP&R
ER: Not reported
Units: PACIFIC ST. 432 Methane Leak
Substances: Methane
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Not reported
Assignment End Date: Not reported
Result: Not reported
File Under: BHP Hawaii, Inc.
Latitude: 21.315727
Longitude: -157.871846

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19880407
HID Number: HID982392367
Facility Registry Id: 110013780499
Lead and Program: HEER EP&R
ER: Not reported
Units: PACIFIC ST. 432 Methane Leak
Substances: Methane
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Not reported
Assignment End Date: Not reported
Result: SOSC NFA

BHP GASCO BENZENE SITE (Continued) **S110277531**

File Under: BHP Hawaii, Inc.
Latitude: 21.315727
Longitude: -157.871846

AIRS:
Facility ID: 0551-01-N
Island: Oahu
Mailing Address: 841 Bishop Street, Suite 2301
Locale: Not reported
Business Phone: 808-275-2911
Mailing City,St,Zip: Honolulu, Hawaii 96813
Contact Name: Mark Ambler
Contact Title: Project Engineer
Description: Soil Vapor Extraction and Treatment System1.This permit encompasses the following equipment and associated appurtenances for the soil vapor extraction and treatment system:a.ThermTech Thermal/Catalytic Oxidizer, model no. VAC 50, serial no. 11051100;b.G.L. Environmental Services Thermal/Catalytic Oxidizer, model no. GLE22435-13-65-11, serial no. 120-1150-30-8-97;c.Soil Vapor Extraction (SVE) System with Vacuum Blower;d.Vapor Extraction Wells; ande.In Situ Chemical Oxidation (ISCO).

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98 West 1/4-1/2 0.479 mi. 2531 ft.

Relative: Lower

Actual: 3 ft.

COSTCO GAS STATION 687 **HI LUST** **U004225787**
520 ALA KAWA ST **HI UST** **N/A**
HONOLULU, HI 96817 **HI Financial Assurance**

LUST:
Facility ID: 9-103315
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 03/27/2008
Release ID: 020010
Project Officer: To VRP

UST:
Facility ID: 9-103315
Owner: COSTCO WHOLESALE
Owner Address: 999 LAKE DRIVE
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.319077
Longitude: -157.872510
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Map

Tank ID: 1
Date Installed: 11/01/2003
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 30000
Substance: Gasoline

Tank ID: 2
Date Installed: 11/01/2003
Tank Status: **Currently In Use**
Date Closed: Not reported

COSTCO GAS STATION 687 (Continued) **U004225787**

Tank Capacity: 30000
Substance: Gasoline

Tank ID: 3
Date Installed: 11/01/2003
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 30000
Substance: Gasoline

Tank ID: R-1
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 08/11/1997
Tank Capacity: 1000
Substance: Not Listed

HI Financial Assurance:
Alt Facility ID: 9-103315
Tank Id: 1
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 07/01/2016

Alt Facility ID: 9-103315
Tank Id: 2
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 07/01/2016

Alt Facility ID: 9-103315
Tank Id: 3
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 07/01/2016

Alt Facility ID: 9-103315
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 07/01/2016

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99 **YEE HOP BUILDING MAUNAKEA STREET** **HI SHWS** **S106821168**
South **950 MAUNAKEA ST** **N/A**
1/4-1/2 **HONOLULU, HI**
0.484 mi.
2553 ft.

Relative:
Higher

Actual:
12 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Yee Hop Building Maunakea Street
HID Number: Not reported
Facility Registry Identifier: Not reported

YEE HOP BUILDING MAUNAKEA STREET (Continued) **S106821168**

Lead Agency: HEER
Program: State
Project Manager: Mark Sutterfield
Hazard Priority: Low
Potential Hazards And Controls: Hazard Present
Island: Oahu
SDAR Environmental Interest Name: Yee Hop Building Maunakea Street
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Potential Hazard And Controls: Hazard Present
Priority: Low
Assessment: Response Necessary
Response: Response Ongoing
Nature of Contamination: Found: Diesel in soil
Nature of Residual Contamination: Not reported
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Not reported
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Mark Sutterfield
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

Y100 **ZIPPY'S 634 N NIMITZ HIGHWAY** **HI SHWS** **S110061866**
SW **634 N NIMITZ HWY** **HI ENG CONTROLS** **N/A**
1/4-1/2 **HONOLULU, HI 96781** **HI INST CONTROL**
0.485 mi. **HI SPILLS**
2560 ft. **Site 2 of 2 in cluster Y**

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Zippy's 634 N Nimitz Highway
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Program: State
Project Manager: Steve Mow
Hazard Priority: Low
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: Zippy's 634 N Nimitz Highway
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: Low
Assessment: Response Necessary
Response: Response Ongoing
Nature of Contamination: Presumed: Petroleum.
Nature of Residual Contamination: Not reported
Use Restrictions: Controls Required to Manage Contamination

ZIPPY'S 634 N NIMITZ HIGHWAY (Continued) **S110061866**

Engineering Control: Engineering Control Required
Description of Restrictions: Not reported
Institutional Control: Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Steve Mow
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:
Supplemental Location Text: Not reported
Zip Suffix: Not reported
Island: Oahu
Potential Hazards And Controls: Hazard Managed With Controls
Engineering Control: Engineering Control Required

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: Not reported
Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 20081029-0827
HID Number: Not reported
Facility Registry Id: Not reported
Lead and Program: HEER EP&R
ER: Not reported
Units: Zippys Contamination IDPP led remediation
Substances: Oil
Less Or Greater Than: Not reported
Numerical Quantity: 0
Units: Not reported
Activity Type: Response
Activity Lead: Anna Fernandez
Assignment End Date: Not reported
Result: Refer to SDAR
File Under: Zippy's, Inc.
Latitude: 21.313403
Longitude: -157.870278

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101 ESE 1/4-1/2 0.498 mi. 2627 ft.
Relative: Higher
Actual: 42 ft.

7-ELEVEN NUUANU PALI **HI LUST U001235570**
1602 NUUANU AVE **HI UST N/A**
HONOLULU, HI 96817 **HI Financial Assurance**

LUST:
Facility ID: 9-101725
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 06/30/2000

7-ELEVEN NUUANU PALI (Continued) **U001235570**

Release ID: 980151
Project Officer: Darren Park

Facility ID: 9-101725
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 11/09/2006
Release ID: 050030
Project Officer: Darren Park

UST:
Facility ID: 9-101725
Owner: ALOHA PETROLEUM, LTD.
Owner Address: 1132 Bishop Street, Suite 1700
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.316937
Longitude: -157.855809
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: GPS

Tank ID: 87
Date Installed: 09/30/1988
Tank Status: **Currently in Use**
Date Closed: Not reported
Tank Capacity: 10000
Substance: Gasoline

Tank ID: 89
Date Installed: 09/30/1988
Tank Status: **Currently in Use**
Date Closed: Not reported
Tank Capacity: 10000
Substance: Gasoline

Tank ID: 92
Date Installed: 09/30/1988
Tank Status: **Currently in Use**
Date Closed: Not reported
Tank Capacity: 10000
Substance: Gasoline

HI Financial Assurance:
Alt Facility ID: 9-101725
Tank Id: 92
Tank Status: Currently in Use
FRTYPE: Surety Bond
Expiration Date: Not reported

Alt Facility ID: 9-101725
Tank Id: 87
Tank Status: Currently in Use
FRTYPE: Surety Bond
Expiration Date: Not reported

Alt Facility ID: 9-101725

7-ELEVEN NUUANU PALI (Continued) **U001235570**

Tank Id: 89
Tank Status: Currently in Use
FRTYPE: Not reported
Expiration Date: Not reported

Alt Facility ID: 9-101725
Tank Id: 89
Tank Status: Currently in Use
FRTYPE: Surety Bond
Expiration Date: Not reported

Alt Facility ID: 9-101725
Tank Id: 92
Tank Status: Currently in Use
FRTYPE: Not reported
Expiration Date: Not reported

Alt Facility ID: 9-101725
Tank Id: 87
Tank Status: Currently in Use
FRTYPE: Not reported
Expiration Date: Not reported

Alt Facility ID: 9-101725
Tank Id: 87
Tank Status: Currently in Use
FRTYPE: Insurance
Expiration Date: 04/01/2014

Alt Facility ID: 9-101725
Tank Id: 89
Tank Status: Currently in Use
FRTYPE: Insurance
Expiration Date: 04/01/2014

Alt Facility ID: 9-101725
Tank Id: 92
Tank Status: Currently in Use
FRTYPE: Insurance
Expiration Date: 04/01/2014

Z102 **BHP GASCO** **EDR MGP** **1008409005**
WSW **432 PACIFIC STREET** **N/A**
1/2-1 **HONOLULU, HI 96817**
0.503 mi.
2657 ft. **Site 2 of 2 in cluster Z**

Relative:
Lower

Actual:
3 ft.

Manufactured Gas Plants:
Alternate Name:HONOLULU GAS CO LTD. OPERATED FROM 1905-1974

AA103 **POLYNESIAN HOSPITALITY** **RCRA-CESQG** **1000906758**
SW **330 PACIFIC ST** **HI SHWS** **HI0000589812**
1/2-1 **HONOLULU, HI 96817** **HI LUST**
0.504 mi. **HI UST**
2661 ft. **Site 1 of 4 in cluster AA** **HI SPILLS**
FINDS

Relative: **HI Financial Assurance**
Lower **ECHO**

Actual:
3 ft.

RCRA-CESQG:
Date form received by agency: 08/16/1994
Facility name: POLYNESIAN HOSPITALITY
Facility address: 330 PACIFIC ST
HONOLULU, HI 96817
EPA ID: HI0000589812
Contact: GAYLORD KOLT
Contact address: 330 PACIFIC ST
HONOLULU, HI 96817
Contact country: US
Contact telephone: (808) 526-3565
Contact email: Not reported
EPA Region: 09
Land type: Private
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: PHT INC DBA POLYNESIAN HOSPITALITY
Owner/operator address: 330 PACIFIC ST
HONOLULU, HI 96817
Owner/operator country: Not reported
Owner/operator telephone: (808) 593-2885
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No

POLYNESIAN HOSPITALITY (Continued) **1000906758**

Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 04/10/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Polynesian Hospitality
HID Number: Not reported
Facility Registry Identifier: 110005722316
Lead Agency: HEER
Program: State
Project Manager: Anna Fernandez
Hazard Priority: Low
Potential Hazards And Controls: Hazard Undetermined
Island: Oahu
SDAR Environmental Interest Name: Polynesian Hospitality
HID Number: Not reported
Facility Registry Identifier: 110005722316
Lead Agency: HEER
Potential Hazard And Controls: Hazard Undetermined
Priority: Low
Assessment: Response Necessary
Response: Response Ongoing
Nature of Contamination: Found: Subsurface petroleum contamination in soil and groundwater
Nature of Residual Contamination: Not reported
Use Restrictions: Undetermined
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Anna Fernandez
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

LUST:
Facility ID: 9-101379
Facility Status: Monitored Natural Attenuation
Facility Status Date: 06/17/1997

POLYNESIAN HOSPITALITY (Continued) **1000906758**

Release ID: 910046
Project Officer: Josh Nagashima

UST:
Facility ID: 9-101379
Owner: POLYNESIAN HOSPITALITY
Owner Address: 330 Pacific St
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.314630
Longitude: -157.871140
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Map

Tank ID: 5
Date Installed: 01/01/1995
Tank Status: **Currently in Use**
Date Closed: Not reported
Tank Capacity: 10000
Substance: Diesel

Tank ID: 5
Date Installed: 01/01/1995
Tank Status: **Currently in Use**
Date Closed: Not reported
Tank Capacity: 10000
Substance: Diesel

Tank ID: R-1
Date Installed: 12/30/1967
Tank Status: **Permanently Out of Use**
Date Closed: 08/03/1994
Tank Capacity: 2000
Substance: Gasoline

Tank ID: R-1
Date Installed: 12/30/1967
Tank Status: **Permanently Out of Use**
Date Closed: 08/03/1994
Tank Capacity: 2000
Substance: Gasoline

Tank ID: R-2
Date Installed: 12/31/1967
Tank Status: **Permanently Out of Use**
Date Closed: 08/03/1994
Tank Capacity: 5000
Substance: Diesel

Tank ID: R-2
Date Installed: 12/31/1967
Tank Status: **Permanently Out of Use**
Date Closed: 08/03/1994

POLYNESIAN HOSPITALITY (Continued) **1000906758**

Tank Capacity: 5000
Substance: Diesel

Tank ID: R-3
Date Installed: 12/30/1967
Tank Status: **Permanently Out of Use**
Date Closed: 08/03/1994
Tank Capacity: 5000
Substance: Diesel

Tank ID: R-3
Date Installed: 12/30/1967
Tank Status: **Permanently Out of Use**
Date Closed: 08/03/1994
Tank Capacity: 5000
Substance: Diesel

Tank ID: R-4
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 03/19/1991
Tank Capacity: 1000
Substance: Used Oil

Tank ID: R-4
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 03/19/1991
Tank Capacity: 1000
Substance: Used Oil

Tank ID: r-6
Date Installed: 01/01/1995
Tank Status: **Permanently out of Use**
Date Closed: 06/24/2015
Tank Capacity: 1000
Substance: Diesel

Tank ID: r-6
Date Installed: 01/01/1995
Tank Status: **Permanently out of Use**
Date Closed: 06/24/2015
Tank Capacity: 1000
Substance: Diesel

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19941201-2
HID Number: Not reported
Facility Registry Id: 110005722316

POLYNESIAN HOSPITALITY (Continued) **1000906758**

Lead and Program: HEER EP&R
ER: Not reported
Units: Polynesian Hospitality - Abutting City Mill
Substances: Gasoline
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Mike Cripps
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Polynesian Hospitality
Latitude: 21.338952
Longitude: -157.843605

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 20080104-0912
HID Number: Not reported
Facility Registry Id: 110005722316
Lead and Program: HEER EP&R
ER: None
Units: Polynesian Hospitality
Substances: Not reported
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Curtis Martin
Assignment End Date: Not reported
Result: Not reported
File Under: Polynesian Hospitality
Latitude: 21.338952
Longitude: -157.843605

FINDS:

Registry ID: 110005722316

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

STATE MASTER

POLYNESIAN HOSPITALITY (Continued) **1000906758**

HI Financial Assurance:
Alt Facility ID: 9-101379
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101379
Tank Id: 5
Tank Status: Currently in Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101379
Tank Id: r-6
Tank Status: Permanently out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101379
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101379
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101379
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101379
Tank Id: r-6
Tank Status: Permanently out of Use
FRTYPE: Insurance
Expiration Date: 01/01/2018

Alt Facility ID: 9-101379
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 01/01/2018

Alt Facility ID: 9-101379
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 01/01/2018

Alt Facility ID: 9-101379
Tank Id: R-1

POLYNESIAN HOSPITALITY (Continued) **1000906758**

Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 01/01/2018

Alt Facility ID: 9-101379
Tank Id: 5
Tank Status: Currently in Use
FRTYPE: Insurance
Expiration Date: 01/01/2018

Alt Facility ID: 9-101379
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 01/01/2018

ECHO:
Envid: 1000906758
Registry ID: 110005722316
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110005722316

AA104 **356 PACIFIC STREET BWS TRENCHING SHEEN** **HI SHWS S110169069**
WSW **356 PACIFIC ST** **HI SPILLS N/A**
1/2-1 **HONOLULU, HI**
0.508 mi.
2683 ft. **Site 2 of 4 in cluster AA**

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Chevron Tanker Truck Loading Rack (TTLR)
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Program: State
Project Manager: Jordan Nakayama
Hazard Priority: High
Potential Hazards And Controls: Hazard Undetermined
Island: Oahu
SDAR Environmental Interest Name: Chevron Tanker Truck Loading Rack (TTLR)
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Potential Hazard And Controls: Hazard Undetermined
Priority: High
Assessment: Assessment Ongoing
Response: Not reported
Nature of Contamination: Not reported
Nature of Residual Contamination: Not reported
Use Restrictions: Undetermined
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Not reported
Document Date: Not reported

356 PACIFIC STREET BWS TRENCHING SHEEN (Continued) **S110169069**

Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Jordan Nakayama
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

HI SPILLS:

Island:	Oahu
Supplemental Loc. Text:	Not reported
Case Number:	20080909-1450
HID Number:	Not reported
Facility Registry Id:	Not reported
Lead and Program:	HEER EP&R
ER:	Site Visit
Units:	356 Pacific Street BWS Trenching Sheen
Substances:	Oily Soil
Less Or Greater Than:	Not reported
Numerical Quantity:	Not reported
Units:	Sheen
Activity Type:	Refer to EP&R
Activity Lead:	Anna Fernandez
Assignment End Date:	Not reported
Result:	Refer to IDPP
File Under:	City and County of Honolulu, Board of Water Supply
Latitude:	21.315427
Longitude:	-157.871366

Island:	Oahu
Supplemental Loc. Text:	Not reported
Case Number:	20080909-1450
HID Number:	Not reported
Facility Registry Id:	Not reported
Lead and Program:	HEER EP&R
ER:	Site Visit
Units:	356 Pacific Street BWS Trenching Sheen
Substances:	Oily Soil
Less Or Greater Than:	Not reported
Numerical Quantity:	Not reported
Units:	Sheen
Activity Type:	Response
Activity Lead:	Paul Chong
Assignment End Date:	2008-09-10 00:00:00
Result:	Refer to SDAR
File Under:	City and County of Honolulu, Board of Water Supply
Latitude:	21.315427
Longitude:	-157.871366

AA105 **BREWER ENVIRONMENTAL INDUSTRIES-PACIFIC STREET** **HI SHWS** **1000436248**
SW **311 PACIFIC ST** **HI VCP** **N/A**
1/2-1 **HONOLULU, HI 96817** **HI SPILLS**
0.511 mi.
2696 ft. **Site 3 of 4 in cluster AA**

Relative:
Lower

Actual:
3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	Brewer Environmental Industries-Pacific Street

BREWER ENVIRONMENTAL INDUSTRIES-PACIFIC STREET (Continued) **1000436248**

HID Number:	HID059472357
Facility Registry Identifier:	110000903210
Lead Agency:	HEER
Program:	Voluntary Response Program
Project Manager:	Jordan Nakayama
Hazard Priority:	High
Potential Hazards And Controls:	Hazard Present
Island:	Oahu
SDAR Environmental Interest Name:	Brewer Environmental Industries-Pacific Street
HID Number:	HID059472357
Facility Registry Identifier:	110000903210
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Present
Priority:	High
Assessment:	Assessment Ongoing
Response:	Not reported
Nature of Contamination:	Found: Petroleum & PCS
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Jordan Nakayama
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

VCP:

Program:	Voluntary Response Program
Zip Suffix:	Not reported
Supplemental Location:	Not reported
Island:	Oahu

HI SPILLS:

Island:	Oahu
Supplemental Loc. Text:	Not reported
Case Number:	19930223-25
HID Number:	HID059472357
Facility Registry Id:	110000903210
Lead and Program:	HEER EP&R
ER:	No
Units:	Brewer Environmental Industries, Inc. Chemical Safety Audit
Substances:	Not reported
Less Or Greater Than:	Not reported
Numerical Quantity:	Not reported
Units:	Not reported
Activity Type:	Response
Activity Lead:	Mike Cripps
Assignment End Date:	Not reported
Result:	SOSC NFA
File Under:	Brewer Environmental Industries Hawaii
Latitude:	21.338952
Longitude:	-157.843605

BREWER ENVIRONMENTAL INDUSTRIES-PACIFIC STREET (Continued) **1000436248**

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 20050105-1326
HID Number: HID059472357
Facility Registry Id: 110000903210
Lead and Program: HEER EP&R
ER: No
Units: Brewer Environmental Boring Sheen
Substances: Oil
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Unknown
Activity Type: Response
Activity Lead: Mike Cripps
Assignment End Date: 2005-01-07 00:00:00
Result: Refer to SDAR
File Under: Brewer Environmental Industries Hawaii
Latitude: 21.338952
Longitude: -157.843605

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19920407-1
HID Number: HID059472357
Facility Registry Id: 110000903210
Lead and Program: HEER EP&R
ER: Not reported
Units: Brewer 25 Pound Chlorine Leak
Substances: Chlorine
Less Or Greater Than: Not reported
Numerical Quantity: 25
Units: Pounds
Activity Type: Response
Activity Lead: Not reported
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Brewer Environmental Industries Hawaii
Latitude: 21.338952
Longitude: -157.843605

Island: Oahu
Supplemental Loc. Text: SW corner of property/pipes from Conoco-Philips
Case Number: 20110824-1130
HID Number: HID059472357
Facility Registry Id: 110000903210
Lead and Program: HEER EP&R
ER: None
Units: BEI - #7 pipeline release
Substances: Oil
Less Or Greater Than: Not reported
Numerical Quantity: 100
Units: Gallons
Activity Type: Response
Activity Lead: Liz Galvez
Assignment End Date: 2011-08-25 00:00:00
Result: Refer to SDAR
File Under: Brewer Environmental Industries Hawaii

BREWER ENVIRONMENTAL INDUSTRIES-PACIFIC STREET (Continued) **1000436248**

Latitude: 21.338952
Longitude: -157.843605

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19851031
HID Number: HID059472357
Facility Registry Id: 110000903210
Lead and Program: HEER EP&R
ER: Not reported
Units: Brewer 150 Pound Chlorine Release
Substances: Chlorine
Less Or Greater Than: Not reported
Numerical Quantity: 150
Units: Pounds
Activity Type: Response
Activity Lead: Bill Perry
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Brewer Environmental Industries Hawaii
Latitude: 21.338952
Longitude: -157.843605

Click this hyperlink while viewing on your computer to access
1 additional HI SPILLS: record(s) in the EDR Site Report.

AA106 **HONOLULU TERMINAL TANK 4284** **HI SHWS** **1000167494**
WSW **411 PACIFIC STREET** **HI UST** **HID981652696**
1/2-1 **HONOLULU, HI 96817** **HI ENG CONTROLS**
0.511 mi. **HI INST CONTROL**
2696 ft. **Site 4 of 4 in cluster AA** **HI VCP**
HI SPILLS
Relative: **RCRA NonGen / NLR**
Lower **FINDS**
HI Financial Assurance
Actual: **ECHO**
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: TOSCO Corporation-Honolulu Terminal #0282
HID Number: Not reported
Facility Registry Identifier: 110000495848
Lead Agency: HEER
Program: Voluntary Response Program
Project Manager: Jordan Nakayama
Hazard Priority: NFA
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: TOSCO Corporation-Honolulu Terminal #0282
HID Number: Not reported
Facility Registry Identifier: 110000495848
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: NFA
Assessment: Response Necessary
Response: Response Ongoing

HONOLULU TERMINAL TANK 4284 (Continued) **1000167494**

Nature of Contamination: Found: Petroleum in soil and groundwater
Nature of Residual Contamination: Petroleum in soils, EHMP implemented by Lowe's
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Engineering Control Required
Description of Restrictions: Prohibit Any Activity That May Disturb the Integrity of the Capping or Monitoring System
Institutional Control: Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: No Further Action Letter - Restricted Use
Document Date: 10/08/2015
Document Number: 2015-574-JQN
Document Subject: No Further Action (NFA) with Institutional Controls.
Project Manager: Jordan Nakayama
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

UST:
Facility ID: 9-100108
Owner: Tosco Marketing Company
Owner Address: P. O. Box 25376
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: Not reported
Longitude: Not reported
Horizontal Reference Datum Name: Not reported
Horizontal Collection Method Name: Not reported

Tank ID: R-4-1
Date Installed: 04/15/1982
Tank Status: **Permanently Out of Use**
Date Closed: 03/07/1997
Tank Capacity: 550
Substance: Used Oil

ENG CONTROLS:
Supplemental Location Text: Not reported
Zip Suffix: Not reported
Island: Oahu
Potential Hazards And Controls: Hazard Managed With Controls
Engineering Control: Engineering Control Required

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: Not reported
Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

VCP:
Program: Voluntary Response Program
Zip Suffix: Not reported
Supplemental Location: Not reported
Island: Oahu

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Not reported

HONOLULU TERMINAL TANK 4284 (Continued) **1000167494**

Case Number: 19960517-1417
HID Number: Not reported
Facility Registry Id: 110000495848
Lead and Program: HEER EP&R
ER: No
Units: Unocal Oil Honolulu Terminal
Substances: Petroleum product
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Chris Takeno
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Phillips Petroleum Company
Latitude: 21.338952
Longitude: -157.843605

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19910207-1
HID Number: Not reported
Facility Registry Id: 110000495848
Lead and Program: HEER EP&R
ER: Not reported
Units: UNOCAL HON Meter Malfunction
Substances: OIL, DIESEL
Less Or Greater Than: Not reported
Numerical Quantity: 40
Units: Gallons
Activity Type: Response
Activity Lead: Not reported
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Phillips Petroleum Company
Latitude: 21.338952
Longitude: -157.843605

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19910221-1
HID Number: Not reported
Facility Registry Id: 110000495848
Lead and Program: HEER EP&R
ER: Not reported
Units: UNOCAL HON Valve Malfunction
Substances: Gasoline
Less Or Greater Than: Not reported
Numerical Quantity: 200
Units: Gallons
Activity Type: Response
Activity Lead: Not reported
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Phillips Petroleum Company
Latitude: 21.338952
Longitude: -157.843605

HONOLULU TERMINAL TANK 4284 (Continued) **1000167494**

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19970227-0745
HID Number: Not reported
Facility Registry Id: 110000495848
Lead and Program: HEER EP&R
ER: Yes
Units: Unocal Honolulu Terminal
Substances: Diesel Fuel #2
Less Or Greater Than: Not reported
Numerical Quantity: 536
Units: Gallons
Activity Type: Response
Activity Lead: Liz Galvez
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Phillips Petroleum Company
Latitude: 21.338952
Longitude: -157.843605

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19970714-1232
HID Number: Not reported
Facility Registry Id: 110000495848
Lead and Program: HEER EP&R
ER: No
Units: Gobble-Diddley Tanker Truck Overfill at Loadrack #1
Substances: Diesel Fuel #2
Less Or Greater Than: Not reported
Numerical Quantity: 300
Units: Gallons
Activity Type: Response
Activity Lead: Liz Galvez
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Phillips Petroleum Company
Latitude: 21.338952
Longitude: -157.843605

Click this hyperlink while viewing on your computer to access
8 additional HI SPILLS: record(s) in the EDR Site Report.

RCRA NonGen / NLR:
Date form received by agency: 06/24/2015
Facility name: UNOCAL 76 HONOLULU LRNG CTR
Facility address: 411 PACIFIC ST
HONOLULU, HI 96817
EPA ID: HID981652696
Mailing address: PO BOX 659
HONOLULU, HI 96809
Contact: A FRITZ
Contact address: 411 PACIFIC ST
HONOLULU, HI 96817
Contact country: US
Contact telephone: (808) 522-7654
Contact email: Not reported

HONOLULU TERMINAL TANK 4284 (Continued) **1000167494**

EPA Region: 09
Land type: Other land type
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: UNION OIL CO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/16/1994
Site name: UNION OIL TERMINAL
Classification: Large Quantity Generator

Date form received by agency: 08/02/1993
Site name: UNOCAL 76 HONOLULU LRNG CTR
Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:

HONOLULU TERMINAL TANK 4284 (Continued) **1000167494**

Evaluation date: 07/09/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110064322576

Environmental Interest/Information System
STATE MASTER

Registry ID: 110009359826

Environmental Interest/Information System
AIR EMISSIONS CLASSIFICATION UNKNOWN

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Registry ID: 110000495848

Environmental Interest/Information System
GASOLINE AND DIESEL PRODUCERS

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits

HONOLULU TERMINAL TANK 4284 (Continued) **1000167494**

issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

STATE MASTER

HAZARDOUS WASTE BIENNIAL REPORTER

AIR MAJOR

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

SPCC

HI Financial Assurance:
Alt Facility ID: 9-100108
Tank Id: R-4-1
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100108
Tank Id: R-4-1
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

ECHO:
Envid: 1000167494
Registry ID: 110009359826
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110009359826

HONOLULU TERMINAL TANK 4284 (Continued) **1000167494**

Envid: 1000167494
Registry ID: 110000495848
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110000495848

Envid: 1000167494
Registry ID: 110064322576
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110064322576

AB107 **TAKAMIYA PROPERTY** **HI SHWS S106820561**
NW **850 MOOWAA ST** **HI SPILLS N/A**
1/2-1 **HONOLULU, HI 96817**
0.541 mi.
2855 ft. **Site 1 of 2 in cluster AB**

Relative:
Lower

Actual:
7 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Takamiya Property
HID Number: HID984468371
Facility Registry Identifier: 110009278771
Lead Agency: EPA
Program: State
Project Manager: Pierette Arroyo
Hazard Priority: NFA
Potential Hazards And Controls: Hazard Undetermined
Island: Oahu
SDAR Environmental Interest Name: Takamiya Property
HID Number: HID984468371
Facility Registry Identifier: 110009278771
Lead Agency: EPA
Potential Hazard And Controls: Hazard Undetermined
Priority: NFA
Assessment: Response Necessary
Response: Response Complete
Nature of Contamination: Found: CCA wood treatment solution
Nature of Residual Contamination: Not reported
Use Restrictions: Undetermined
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Not reported
Site Closure Type: NFRAP
Document Date: 10/10/2008
Document Number: Not reported
Document Subject: Takamiya Property HID984468371
Project Manager: Pierette Arroyo
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19910308-1
HID Number: HID984468371
Facility Registry Id: 110009278771
Lead and Program: HEER EP&R
ER: Not reported

TAKAMIYA PROPERTY (Continued) **S106820561**

Units: Ms. Jane Takamiya, 850 Moowaa Street
Substances: SUMP WITH CONTAMINATED SOIL AND WATER. (METALS AND CHLORDONE)
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Pierette Arroyo
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Takamiya Property
Latitude: 21.326267
Longitude: -157.871353

AB108 **ROSS TRUSTS** **HI SHWS S103290154**
NW **819 MOOWAA ST** **HI VCP N/A**
1/2-1 **HONOLULU, HI 96817**
0.543 mi.
2866 ft. **Site 2 of 2 in cluster AB**

Relative:
Lower

Actual:
7 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Ross Trusts
HID Number: Not reported
Facility Registry Identifier: 110013778634
Lead Agency: HEER
Program: Voluntary Response Program
Project Manager: Mark Sutterfield
Hazard Priority: NFA
Potential Hazards And Controls: No Hazard
Island: Oahu
SDAR Environmental Interest Name: Ross Trusts
HID Number: Not reported
Facility Registry Identifier: 110013778634
Lead Agency: HEER
Potential Hazard And Controls: No Hazard
Priority: NFA
Assessment: Assessment Ongoing
Response: Response Complete
Nature of Contamination: Not reported
Nature of Residual Contamination: Not reported
Use Restrictions: No Hazard Present For Unrestricted Residential Use
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Not reported
Site Closure Type: No Further Action Letter - Unrestricted Residential Use
Document Date: 07/17/2002
Document Number: 2002-165-MS
Document Subject: Covering Memo Ross Trust LOC
Project Manager: Mark Sutterfield
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

VCP:
Program: Voluntary Response Program
Zip Suffix: Not reported

ROSS TRUSTS (Continued) **S103290154**

Supplemental Location: Not reported
Island: Oahu

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109 **HOME DEPOT** **HI SHWS** **S105887731**
WSW **421 ALAKAWA ST** **HI ENG CONTROLS** **N/A**
1/2-1 **HONOLULU, HI 96817** **HI INST CONTROL**
0.546 mi.
2881 ft.

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Home Depot
HID Number: Not reported
Facility Registry Identifier: 110013785608
Lead Agency: HEER
Program: State
Project Manager: Mark Sutterfield
Hazard Priority: NFA
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: Home Depot
HID Number: Not reported
Facility Registry Identifier: 110013785608
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: NFA
Assessment: Response Necessary
Response: Response Complete
Nature of Contamination: Found: Methane, BTEX, PAHs, and TPH in soil and groundwater.
Nature of Residual Contamination: Methane, BTEX, PAHs, and TPH in soil and groundwater.
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Engineering Control Required
Description of Restrictions: Prohibit Any Activity That May Disturb the Integrity of the Monitoring System
Institutional Control: Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Letter of Completion - Restricted Use
Document Date: 09/03/1999
Document Number: Not reported
Document Subject: VRP LOC with Conditions
Project Manager: Mark Sutterfield
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:
Supplemental Location Text: Not reported
Zip Suffix: Not reported
Island: Oahu
Potential Hazards And Controls: Hazard Managed With Controls
Engineering Control: Engineering Control Required

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: Not reported
Zip Suffix: Not reported
Island: Oahu

HOME DEPOT (Continued) **S105887731**

Institutional Control: Government - Hawaii Dept. of Health Letter Issued

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AC110 **HAWAIIAN GRAIN CORPORATION** **HI SHWS** **U003402808**
SW **701 N NIMITZ HWY** **HI LUST** **N/A**
1/2-1 **HONOLULU, HI 96817** **HI UST**
0.547 mi.
2886 ft. **Site 1 of 4 in cluster AC**

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Fred L. Waldron Feed Mill
HID Number: Not reported
Facility Registry Identifier: 110013789640
Lead Agency: HEER
Program: State
Project Manager: Anna Fernandez
Hazard Priority: Low
Potential Hazards And Controls: Hazard Undetermined
Island: Oahu
SDAR Environmental Interest Name: Fred L. Waldron Feed Mill
HID Number: Not reported
Facility Registry Identifier: 110013789640
Lead Agency: HEER
Potential Hazard And Controls: Hazard Undetermined
Priority: Low
Assessment: Assessment Ongoing
Response: Not reported
Nature of Contamination: Found: petroleum in soil and groundwater
Nature of Residual Contamination: Not reported
Use Restrictions: Undetermined
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Anna Fernandez
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

LUST:
Facility ID: 9-100852
Facility Status: Case Transferred to HEER (regulated)
Facility Status Date: 01/22/2010
Release ID: 920157
Project Officer: To Heer

UST:
Facility ID: 9-100852
Owner: HAWAIIAN GRAIN CORP.
Owner Address: 701 N NIMITZ HWY
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.312966
Longitude: -157.869873

HAWAIIAN GRAIN CORPORATION (Continued) **U003402808**

Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Map

Tank ID: R-001
Date Installed: 02/21/1956
Tank Status: **Permanently Out of Use**
Date Closed: 10/06/1993
Tank Capacity: 1000
Substance: Other

Tank ID: R-002
Date Installed: 02/21/1967
Tank Status: **Permanently Out of Use**
Date Closed: 10/06/1993
Tank Capacity: 550
Substance: Gasoline

Tank ID: R-003
Date Installed: 02/21/1967
Tank Status: **Permanently Out of Use**
Date Closed: 10/06/1993
Tank Capacity: 8000
Substance: Diesel

111
WNW
1/2-1
0.548 mi.
2893 ft.

Relative:
Lower

Actual:
3 ft.

CLASSIC BOWL **HI SHWS S117391422**
1190 DILLINGHAM BLVD **N/A**
HONOLULU, HI

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Classic Bowl
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Program: State
Project Manager: Jordan Nakayama
Hazard Priority: Medium
Potential Hazards And Controls: Hazard Present
Island: Oahu
SDAR Environmental Interest Name: Classic Bowl
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Potential Hazard And Controls: Hazard Present
Priority: Medium
Assessment: Assessment Ongoing
Response: Not reported
Nature of Contamination: Found: Petroleum-impacted soil, groundwater, and soil gas.
Nature of Residual Contamination: Not reported
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Not reported
Description of Restrictions: Not reported

CLASSIC BOWL (Continued) **S117391422**

Institutional Control: Not reported
Within Designated Areawide Contamination: Not reported
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Jordan Nakayama
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

AC112
SW
1/2-1
0.561 mi.
2963 ft.

Site 2 of 4 in cluster AC

Relative:
Lower

Actual:
3 ft.

HAWAIIAN FLOUR MILL **HI SHWS S106817404**
703 N NIMITZ HWY **N/A**
HONOLULU, HI 96808

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Hawaiian Flour Mill
HID Number: Not reported
Facility Registry Identifier: 110013791469
Lead Agency: HEER
Program: State
Project Manager: Steve Mow
Hazard Priority: Low
Potential Hazards And Controls: Hazard Present
Island: Oahu
SDAR Environmental Interest Name: Hawaiian Flour Mill
HID Number: Not reported
Facility Registry Identifier: 110013791469
Lead Agency: HEER
Potential Hazard And Controls: Hazard Present
Priority: Low
Assessment: Response Necessary
Response: Response Ongoing
Nature of Contamination: Found: Subsurface petroleum contamination in soil and groundwater
Nature of Residual Contamination: Not reported
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Steve Mow
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

AC113 **MOANA PAA KAI** **HI SHWS** **1000146699**
SW **705 N NIMITZ HWY** **HI SPILLS** **HID982411357**
1/2-1 **HONOLULU, HI 96817** **RCRA NonGen / NLR**
0.564 mi.
2978 ft. **Site 3 of 4 in cluster AC**

Relative:
Lower

Actual:
3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Honolulu Harbor Pier 24-28
Island:	Oahu
Environmental Interest:	Young Brothers, Ltd. Piers 24-28
HID Number:	Not reported
Facility Registry Identifier:	110005284110
Lead Agency:	HEER
Program:	State
Project Manager:	Anna Fernandez
Hazard Priority:	Medium
Potential Hazards And Controls:	Hazard Present
Island:	Oahu
SDAR Environmental Interest Name:	Young Brothers, Ltd. Piers 24-28
HID Number:	Not reported
Facility Registry Identifier:	110005284110
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Present
Priority:	Medium
Assessment:	Response Necessary
Response:	Response Ongoing
Nature of Contamination:	Found: Subsurface petroleum contamination in soil and groundwater
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Anna Fernandez
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

Organization:	Not reported
Supplemental Location:	Honolulu Harbor Pier 21
Island:	Oahu
Environmental Interest:	Hawaiian Tug & Barge Corporation
HID Number:	Not reported
Facility Registry Identifier:	110005726438
Lead Agency:	HEER
Program:	State
Project Manager:	Steve Mow
Hazard Priority:	Low
Potential Hazards And Controls:	Hazard Undetermined
Island:	Oahu
SDAR Environmental Interest Name:	Hawaiian Tug & Barge Corporation
HID Number:	Not reported
Facility Registry Identifier:	110005726438
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Undetermined
Priority:	Low

MOANA PAA KAI (Continued) **1000146699**

Assessment:	Assessment Ongoing
Response:	Not reported
Nature of Contamination:	Found: Subsurface petroleum contamination in soil and groundwater
Nature of Residual Contamination:	Not reported
Use Restrictions:	Undetermined
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Steve Mow
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

HI SPILLS:

Island:	Oahu
Supplemental Loc. Text:	Honolulu Harbor Pier 24-28
Case Number:	19900507-1
HID Number:	Not reported
Facility Registry Id:	110005284110
Lead and Program:	HEER EP&R
ER:	Not reported
Units:	Pier 26, Honolulu Harbor brownish colored diesel smelling stuff under Pier
Substances:	BROWNISH COLORED DIESEL SMELLING STUFF
Less Or Greater Than:	Not reported
Numerical Quantity:	Not reported
Units:	Not reported
Activity Type:	Response
Activity Lead:	Not reported
Assignment End Date:	Not reported
Result:	SOSC NFA
File Under:	Young Brothers, Ltd.
Latitude:	21.308889
Longitude:	-157.86982

Island:	Oahu
Supplemental Loc. Text:	Honolulu Harbor Pier 24-28
Case Number:	19921126
HID Number:	Not reported
Facility Registry Id:	110005284110
Lead and Program:	HEER EP&R
ER:	Not reported
Units:	Young Brothers Terminal, Pier 26, Honolulu Harbor
Substances:	Methane Gas
Less Or Greater Than:	Not reported
Numerical Quantity:	Not reported
Units:	Not reported
Activity Type:	Response
Activity Lead:	Bill Perry
Assignment End Date:	Not reported
Result:	Not reported
File Under:	Young Brothers, Ltd.
Latitude:	21.308889
Longitude:	-157.86982

MOANA PAA KAI (Continued) **1000146699**

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 24-28
Case Number: 19901207-2
HID Number: Not reported
Facility Registry Id: 110005284110
Lead and Program: HEER EP&R
ER: Not reported
Units: YOUNG BROTHERS, HARBOR CHANNEL, Honolulu Harbor
Substances: Not reported
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Not reported
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Young Brothers, Ltd.
Latitude: 21.308889
Longitude: -157.86982

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 24-28
Case Number: 19960507-1447
HID Number: Not reported
Facility Registry Id: 110005284110
Lead and Program: HEER EP&R
ER: Not reported
Units: Young Brothers Pier 29 150 Gallon Gasoline Additive Spill
Substances: Gas additive
Less Or Greater Than: Not reported
Numerical Quantity: 150
Units: Gallons
Activity Type: Response
Activity Lead: Bill Perry
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Young Brothers, Ltd.
Latitude: 21.308889
Longitude: -157.86982

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 24-28
Case Number: 19940217-1
HID Number: Not reported
Facility Registry Id: 110005284110
Lead and Program: HEER EP&R
ER: Not reported
Units: Young Brothers Sheen Under Pier
Substances: petroleum
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Not reported
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Young Brothers, Ltd.

MOANA PAA KAI (Continued) **1000146699**

Latitude: 21.308889
Longitude: -157.86982

Click this hyperlink while viewing on your computer to access
6 additional HI SPILLS: record(s) in the EDR Site Report.

RCRA NonGen / NLR:
Date form received by agency: 02/26/2015
Facility name: MOANA PAA KAI
Facility address: 705 N NIMITZ HWY
PIER 21
HONOLULU, HI 96817
EPA ID: HID982411357
Mailing address: PO BOX 3288
HONOLULU, HI 96801 3288
Contact: NATHAN L KAPULE
Contact address: PO BOX 3288
HONOLULU, HI 96801 3288
Contact country: US
Contact telephone: 808-543-9398
Contact email: NKAPULE@HTBYB.COM
EPA Region: 09
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: HAWAII TUG AND BARGE YOUNG BROTHERS
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1950
Owner/Op end date: Not reported

Owner/operator name: STATE OF HAWAII
Owner/operator address: 79 S NIMITZ HWY
HONOLULU, HI 96813
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: State
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1950
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No

MOANA PAA KAI (Continued) **1000146699**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 04/07/2008
Site name: MOANA PAA KAI
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D008
. Waste name: LEAD

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 02/07/1989
Site name: HAWAIIAN TUG & BARGE CORP
Classification: Not a generator, verified

Date form received by agency: 03/25/1988
Site name: HAWAIIAN TUG & BARGE CORP
Classification: Small Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/23/2008
Date achieved compliance: 06/09/2008
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Listing - General
Date violation determined: 01/23/2008

MOANA PAA KAI (Continued) **1000146699**

Date achieved compliance: 06/09/2008
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Used Oil - Generators
Date violation determined: 01/23/2008
Date achieved compliance: 06/09/2008
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: S - 279.20-24
Area of violation: Used Oil - Generators
Date violation determined: 07/12/2001
Date achieved compliance: 08/14/2001
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/12/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 02/04/1988
Date achieved compliance: 04/26/2001
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 10/12/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General

MOANA PAA KAI (Continued) **1000146699**

Date achieved compliance: 06/09/2008
Evaluation lead agency: State

Evaluation date: 10/12/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Used Oil - Generators
Date achieved compliance: 06/09/2008
Evaluation lead agency: State

Evaluation date: 10/12/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Listing - General
Date achieved compliance: 06/09/2008
Evaluation lead agency: State

Evaluation date: 04/26/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Used Oil - Generators
Date achieved compliance: 08/14/2001
Evaluation lead agency: State

Evaluation date: 02/04/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/26/2001
Evaluation lead agency: State

AC114 **SAUSE BROTHERS** **HI SHWS S107024013**
SW **ALAKEA ST** **HI SPILLS N/A**
1/2-1 **HONOLULU, HI 96817**
0.565 mi.
2985 ft. **Site 4 of 4 in cluster AC**

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Honolulu Harbor Pier 20
Island: Oahu
Environmental Interest: Sause Brothers
HID Number: Not reported
Facility Registry Identifier: 110013778778
Lead Agency: HEER
Program: State
Project Manager: Anna Fernandez
Hazard Priority: Low
Potential Hazards And Controls: Hazard Present
Island: Oahu
SDAR Environmental Interest Name: Sause Brothers
HID Number: Not reported
Facility Registry Identifier: 110013778778
Lead Agency: HEER
Potential Hazard And Controls: Hazard Present
Priority: Low
Assessment: Response Necessary
Response: Response Ongoing
Nature of Contamination: Found: Subsurface petroleum contamination in soil and groundwater
Nature of Residual Contamination: Not reported
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Not reported
Description of Restrictions: Not reported

SAUSE BROTHERS (Continued) **S107024013**

Institutional Control: Not reported
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Anna Fernandez
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 20
Case Number: 19930415
HID Number: Not reported
Facility Registry Id: 110013778778
Lead and Program: HEER EP&R
ER: Not reported
Units: Sause Brothers at Piers 19-20, Honolulu Harbor, Honolulu, Oahu, HI
Substances: Sludge with Sheen
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Not reported
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Sause Brothers
Latitude: 21.31247
Longitude: -157.86777

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 20
Case Number: 19961009-1313
HID Number: Not reported
Facility Registry Id: 110013778778
Lead and Program: HEER EP&R
ER: Not reported
Units: Sause Brothers Towing Pier 20 Bildge Spill
Substances: Oil
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Bryce Hataoka
Assignment End Date: Not reported
Result: Not reported
File Under: Sause Brothers
Latitude: 21.31247
Longitude: -157.86777

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 20
Case Number: 19970205-1547
HID Number: Not reported
Facility Registry Id: 110013778778
Lead and Program: HEER EP&R
ER: No

SAUSE BROTHERS (Continued) **S107024013**

Units: Sause Brothers Fuel Oil Leak
Substances: Fuel Oil #2
Less Or Greater Than: Not reported
Numerical Quantity: 5
Units: Gallons
Activity Type: Response
Activity Lead: Mike Cripps
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Sause Brothers
Latitude: 21.31247
Longitude: -157.86777

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 20
Case Number: 19980328-1418
HID Number: Not reported
Facility Registry Id: 110013778778
Lead and Program: HEER EP&R
ER: No
Units: Pier 30 Gasoline Spill from the Pepeekeo Vessel
Substances: Gasoline, Unleaded
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Sheen
Activity Type: Penalty
Activity Lead: Curtis Martin
Assignment End Date: Not reported
Result: Not reported
File Under: Sause Brothers
Latitude: 21.31247
Longitude: -157.86777

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 20
Case Number: 19980328-1418
HID Number: Not reported
Facility Registry Id: 110013778778
Lead and Program: HEER EP&R
ER: No
Units: Pier 30 Gasoline Spill from the Pepeekeo Vessel
Substances: Gasoline, Unleaded
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Sheen
Activity Type: Response
Activity Lead: Liz Galvez
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Sause Brothers
Latitude: 21.31247
Longitude: -157.86777

Click this hyperlink while viewing on your computer to access
2 additional HI SPILLS: record(s) in the EDR Site Report.

AD115 **700 N NIMITZ IDPP RELEASE** **HI SHWS** **S110061245**
SW **700 N NIMITZ HWY** **HI ENG CONTROLS** **N/A**
1/2-1 **HONOLULU, HI** **HI INST CONTROL**
0.568 mi. **HI SPILLS**
2998 ft. **Site 1 of 3 in cluster AD**

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: TMK 1-1-5-013-003
Island: Oahu
Environmental Interest: 700 N Nimitz IDPP Release
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Program: State
Project Manager: Steve Mow
Hazard Priority: Low
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: 700 N Nimitz IDPP Release
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: Low
Assessment: Response Necessary
Response: Response Ongoing
Nature of Contamination: Not reported
Nature of Residual Contamination: Not reported
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Engineering Control Required
Description of Restrictions: Not reported
Institutional Control: Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Steve Mow
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:
Supplemental Location Text: TMK 1-1-5-013-003
Zip Suffix: Not reported
Island: Oahu
Potential Hazards And Controls: Hazard Managed With Controls
Engineering Control: Engineering Control Required

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: TMK 1-1-5-013-003
Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: TMK 1-1-5-013-003

700 N NIMITZ IDPP RELEASE (Continued) **S110061245**

Case Number:	20081204-1001
HID Number:	Not reported
Facility Registry Id:	Not reported
Lead and Program:	HEER EP&R
ER:	None
Units:	700 N Nimitz IDPP Release
Substances:	Oil
Less Or Greater Than:	Not reported
Numerical Quantity:	0
Units:	Not reported
Activity Type:	Response
Activity Lead:	Anna Fernandez
Assignment End Date:	Not reported
Result:	Not reported
File Under:	Harry and Jeanette Weinberg Foundation
Latitude:	21.31335
Longitude:	-157.87205

AD116 **BHP PIER 29** **HI SHWS** **S106816192**
SW **739 N NIMITZ HWY** **N/A**
1/2-1 **HONOLULU, HI 96817**
0.599 mi.
3163 ft. **Site 2 of 3 in cluster AD**

Relative: Lower

Actual: 3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Honolulu Harbor Pier 29
Island:	Oahu
Environmental Interest:	BHP Pier 29
HID Number:	Not reported
Facility Registry Identifier:	110013780462
Lead Agency:	HEER
Program:	State
Project Manager:	Kelton Otsuka
Hazard Priority:	NFA
Potential Hazards And Controls:	Hazard Present
Island:	Oahu
SDAR Environmental Interest Name:	BHP Pier 29
HID Number:	Not reported
Facility Registry Identifier:	110013780462
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Present
Priority:	NFA
Assessment:	Response Necessary
Response:	Response Complete
Nature of Contamination:	Presumed: Unknown
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	Historic NFA - Restricted Use
Document Date:	06/23/1997
Document Number:	1997-227-01-BH
Document Subject:	NFA letter for Pier 29
Project Manager:	Kelton Otsuka
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

AD117 **755 N NIMITZ HWY** **HI SHWS** **S110061246**
SW **755 N NIMITZ HWY** **HI ENG CONTROLS** **N/A**
1/2-1 **HONOLULU, HI** **HI INST CONTROL**
0.616 mi. **HI SPILLS**
3250 ft. **Site 3 of 3 in cluster AD**

Relative: Lower

Actual: 3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Akamai Car Rental
Island:	Oahu
Environmental Interest:	755 North Nimitz Highway
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Program:	State
Project Manager:	Steve Mow
Hazard Priority:	Medium
Potential Hazards And Controls:	Hazard Managed With Controls
Island:	Oahu
SDAR Environmental Interest Name:	755 North Nimitz Highway
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Managed With Controls
Priority:	Medium
Assessment:	Response Necessary
Response:	Response Ongoing
Nature of Contamination:	Found: petroleum in soil
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Engineering Control Required
Description of Restrictions:	Not reported
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Steve Mow
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:

Supplemental Location Text:	Akamai Car Rental
Zip Suffix:	Not reported
Island:	Oahu
Potential Hazards And Controls:	Hazard Managed With Controls
Engineering Control:	Engineering Control Required

INST CONTROL:

Potential hazards and controls:	Hazard Managed With Controls
Supplemental Location:	Akamai Car Rental
Zip Suffix:	Not reported
Island:	Oahu
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued

HI SPILLS:

Island:	Oahu
Supplemental Loc. Text:	Akamai Car Rental

755 N NIMITZ HWY (Continued) **S110061246**

Case Number:	20081118-0855
HID Number:	Not reported
Facility Registry Id:	Not reported
Lead and Program:	HEER EP&R
ER:	Not reported
Units:	755 N Nimitz Hwy
Substances:	Oil
Less Or Greater Than:	Not reported
Numerical Quantity:	0
Units:	Not reported
Activity Type:	Response
Activity Lead:	Anna Fernandez
Assignment End Date:	Not reported
Result:	Not reported
File Under:	Kristina S Quiton Trust
Latitude:	21.3136
Longitude:	-157.8725

AE118 **775 NORTH NIMITZ HIGHWAY** **HI SHWS** **S110061247**
SW **775 N NIMITZ HWY** **HI ENG CONTROLS** **N/A**
1/2-1 **HONOLULU, HI** **HI INST CONTROL**
0.636 mi.
3360 ft. **Site 1 of 3 in cluster AE**

Relative: Lower

Actual: 3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	775 North Nimitz Highway
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Program:	State
Project Manager:	Steve Mow
Hazard Priority:	Medium
Potential Hazards And Controls:	Hazard Managed With Controls
Island:	Oahu
SDAR Environmental Interest Name:	775 North Nimitz Highway
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Managed With Controls
Priority:	Medium
Assessment:	Response Necessary
Response:	Response Ongoing
Nature of Contamination:	Not reported
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Engineering Control Required
Description of Restrictions:	Not reported
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Steve Mow
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

775 NORTH NIMITZ HIGHWAY (Continued) **S110061247**

ENG CONTROLS:

Supplemental Location Text:	Not reported
Zip Suffix:	Not reported
Island:	Oahu
Potential Hazards And Controls:	Hazard Managed With Controls
Engineering Control:	Engineering Control Required

INST CONTROL:

Potential hazards and controls:	Hazard Managed With Controls
Supplemental Location:	Not reported
Zip Suffix:	Not reported
Island:	Oahu
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued

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119 **KAMEHAMEHA SCHOOLS - 1336 DILLINGHAM BOULEVARD** **HI SHWS** **S110061575**
WNW **1336 DILLINGHAM BLVD** **HI SPILLS** **N/A**
1/2-1 **HONOLULU, HI 96813**
0.639 mi.
3373 ft.

Relative: Lower

Actual: 9 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	Kamehameha Schools - 1336 Dillingham Boulevard
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Program:	State
Project Manager:	Steve Mow
Hazard Priority:	Medium
Potential Hazards And Controls:	Hazard Present
Island:	Oahu
SDAR Environmental Interest Name:	Kamehameha Schools - 1336 Dillingham Boulevard
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Present
Priority:	Medium
Assessment:	Assessment Ongoing
Response:	Response Ongoing
Nature of Contamination:	Found: TCE in soil and groundwater
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Not reported
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Steve Mow
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

HI SPILLS:

KAMEHAMEHA SCHOOLS - 1336 DILLINGHAM BOULEVARD (Continued) **S110061575**

Island:	Oahu
Supplemental Loc. Text:	Not reported
Case Number:	20090213-1326
HID Number:	Not reported
Facility Registry Id:	Not reported
Lead and Program:	HEER EP&R
ER:	Site Visit
Units:	1336 Dillingham Blvd.
Substances:	Chlorinated Cleaners TPH-Diesel
Less Or Greater Than:	Not reported
Numerical Quantity:	Not reported
Units:	Not reported
Activity Type:	Response
Activity Lead:	Paul Chong
Assignment End Date:	2009-02-19 00:00:00
Result:	Refer to SDAR
File Under:	Kamehameha Schools
Latitude:	21.3235
Longitude:	-157.8745

AE120 **EQUILON ENTERPRISES LLC HONOLULU TERMINAL** **HI SHWS** **S115488694**
SW **789 N NIMITZ HWY** **N/A**
1/2-1 **HONOLULU, HI 96817**
0.650 mi.
3431 ft. **Site 2 of 3 in cluster AE**

Relative: Lower

Actual: 3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Aloha Petroleum Honolulu Terminal
Island:	Oahu
Environmental Interest:	Equilon Enterprises LLC Honolulu Terminal
HID Number:	Not reported
Facility Registry Identifier:	110000486475
Lead Agency:	HEER
Program:	State
Project Manager:	Iris van der Zander
Hazard Priority:	Low
Potential Hazards And Controls:	Hazard Present
Island:	Oahu
SDAR Environmental Interest Name:	Equilon Enterprises LLC Honolulu Terminal
HID Number:	Not reported
Facility Registry Identifier:	110000486475
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Present
Priority:	Low
Assessment:	Response Necessary
Response:	Response Ongoing
Nature of Contamination:	Found: Subsurface petroleum contamination in soil and groundwater
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported

EQUILON ENTERPRISES LLC HONOLULU TERMINAL (Continued) **S115488694**

Project Manager:	Iris van der Zander
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

AE121 **PAULEY PETROLEUM** **HI SHWS** **S108009116**
SW **795 N NIMITZ HWY** **HI ENG CONTROLS** **N/A**
1/2-1 **HONOLULU, HI 96817** **HI INST CONTROL**
0.652 mi. **HI SPILLS**
3444 ft. **Site 3 of 3 in cluster AE**

Relative: Lower

Actual: 3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Honolulu Harbor Pier 32/33
Island:	Oahu
Environmental Interest:	Former Pauley Petroleum
HID Number:	Not reported
Facility Registry Identifier:	110013773522
Lead Agency:	HEER
Program:	State
Project Manager:	Clarence Callahan
Hazard Priority:	NFA
Potential Hazards And Controls:	Hazard Managed With Controls
Island:	Oahu
SDAR Environmental Interest Name:	Former Pauley Petroleum
HID Number:	Not reported
Facility Registry Identifier:	110013773522
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Managed With Controls
Priority:	NFA
Assessment:	Assessment Ongoing
Response:	Not reported
Nature of Contamination:	Found: NFA for pesticide storage but industrial waste and hydrocarbons still under investigation.
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Engineering Control Required
Description of Restrictions:	Prohibit Any Activity That May Disturb the Integrity of the Capping System and prohibit disturbance of the soil.
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	No Further Action Letter - Restricted Use
Document Date:	11/18/2005
Document Number:	2005-594-CAC
Document Subject:	No Further Action Letter
Project Manager:	Clarence Callahan
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:

Supplemental Location Text:	Honolulu Harbor Pier 32/33
Zip Suffix:	Not reported
Island:	Oahu
Potential Hazards And Controls:	Hazard Managed With Controls
Engineering Control:	Engineering Control Required

INST CONTROL:

Potential hazards and controls:	Hazard Managed With Controls
Supplemental Location:	Honolulu Harbor Pier 32/33
Zip Suffix:	Not reported

PAULEY PETROLEUM (Continued) **S108009116**

Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 32/33
Case Number: 19990421-0805
HID Number: Not reported
Facility Registry Id: 110013773522
Lead and Program: HEER EP&R
ER: No
Units: Possible Asbestos Release at Pier 31
Substances: Asbestos (Pipe insulation)
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Liz Galvez
Assignment End Date: Not reported
Result: Not reported
File Under: State of Hawaii, Department of Transportation, Harbors Division
Latitude: 21.338952
Longitude: -157.843605

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 32/33
Case Number: 20001017-1530
HID Number: Not reported
Facility Registry Id: 110013773522
Lead and Program: HEER EP&R
ER: Site Visit
Units: Pauley Petroleum(Former)/DOT
Substances: Oil
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Bill Perry
Assignment End Date: Not reported
Result: Not reported
File Under: State of Hawaii, Department of Transportation, Harbors Division
Latitude: 21.338952
Longitude: -157.843605

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 32/33
Case Number: 20050518-1415
HID Number: Not reported
Facility Registry Id: 110013773522
Lead and Program: HEER EP&R
ER: Site Visit
Units: Petroleum contamination found in trenches
Substances: Oil
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response

PAULEY PETROLEUM (Continued) **S108009116**

Activity Lead: Liz Galvez
Assignment End Date: 2005-05-19 00:00:00
Result: Refer to SDAR
File Under: State of Hawaii, Department of Transportation, Harbors Division
Latitude: 21.338952
Longitude: -157.843605

AF122 **WEYERHAEUSER** **HI SHWS S106821137**
WSW **900 N NIMITZ HWY** **HI SPILLS N/A**
1/2-1 **HONOLULU, HI 96817**
0.657 mi.
3470 ft. **Site 1 of 2 in cluster AF**

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Weyerhaeuser
HID Number: Not reported
Facility Registry Identifier: 110001760390
Lead Agency: HEER
Program: State
Project Manager: Steve Mow
Hazard Priority: Low
Potential Hazards And Controls: Hazard Present
Island: Oahu
SDAR Environmental Interest Name: Weyerhaeuser
HID Number: Not reported
Facility Registry Identifier: 110001760390
Lead Agency: HEER
Potential Hazard And Controls: Hazard Present
Priority: Low
Assessment: Response Necessary
Response: Response Ongoing
Nature of Contamination: Found: Subsurface petroleum contamination in soil and groundwater
Nature of Residual Contamination: Not reported
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Steve Mow
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19931115
HID Number: Not reported
Facility Registry Id: 110001760390
Lead and Program: HEER EP&R
ER: Not reported
Units: Weyerhauser, 900 North Nimitz, Honolulu, Oahu, HI

WEYERHAEUSER (Continued) **S106821137**

Substances: Antifreeze
Less Or Greater Than: Not reported
Numerical Quantity: 4
Units: Gallons
Activity Type: Response
Activity Lead: Not reported
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Weyerhaeuser
Latitude: 21.315687
Longitude: -157.874222

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19960809-0930
HID Number: Not reported
Facility Registry Id: 110001760390
Lead and Program: HEER EP&R
ER: No
Units: Weyerhaeuser Corporation
Substances: petroleum and creosote soaked railroad ties.
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Bryce Hataoka
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Weyerhaeuser
Latitude: 21.315687
Longitude: -157.874222

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19940310-2
HID Number: Not reported
Facility Registry Id: 110001760390
Lead and Program: HEER EP&R
ER: Not reported
Units: Weyerhaeuser
Substances: Diesel Fuel
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Not reported
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Weyerhaeuser
Latitude: 21.315687
Longitude: -157.874222

AG123 **MCCABE, HAMILTON, & RENNY COMPANY, LTD** **HI SHWS** **1006818946**
West **1130 N NIMITZ HWY** **HI SPILLS** **N/A**
1/2-1 **HONOLULU, HI 96817**
0.662 mi.
3493 ft. **Site 1 of 3 in cluster AG**

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Suite A265
Island: Oahu
Environmental Interest: McCabe, Hamilton, & Renny Company, Ltd.
HID Number: Not reported
Facility Registry Identifier: 110013767030
Lead Agency: HEER
Program: State
Project Manager: Steve Mow
Hazard Priority: Low
Potential Hazards And Controls: Hazard Undetermined
Island: Oahu
SDAR Environmental Interest Name: McCabe, Hamilton, & Renny Company, Ltd.
HID Number: Not reported
Facility Registry Identifier: 110013767030
Lead Agency: HEER
Potential Hazard And Controls: Hazard Undetermined
Priority: Low
Assessment: Assessment Ongoing
Response: Not reported
Nature of Contamination: Found: Subsurface petroleum in soil and groundwater
Nature of Residual Contamination: Not reported
Use Restrictions: Undetermined
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Steve Mow
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Suite A265
Case Number: 19981204-1344
HID Number: Not reported
Facility Registry Id: 110013767030
Lead and Program: HEER EP&R
ER: No
Units: Pier 1 Container Yard Hydraulic Line Rupture
Substances: Hydraulic Fluid
Less Or Greater Than: Not reported
Numerical Quantity: 100
Units: Gallons
Activity Type: Response
Activity Lead: Terry Corpus
Assignment End Date: Not reported
Result: Not reported
File Under: McCabe, Hamilton, & Renny Company, Ltd.

MCCABE, HAMILTON, & RENNY COMPANY, LTD (Continued) **1006818946**

Latitude: 21.317525
Longitude: -157.875305

Island: Oahu
Supplemental Loc. Text: Suite A265
Case Number: 20120211-0948
HID Number: Not reported
Facility Registry Id: 110013767030
Lead and Program: HEER EP&R
ER: Site Visit
Units: Grey Substance Behind Nimitz Center
Substances: Unknown
Less Or Greater Than: Not reported
Numerical Quantity: 0
Units: Not reported
Activity Type: Response
Activity Lead: Adam Teekell
Assignment End Date: Not reported
Result: Refer to CWB
File Under: McCabe, Hamilton, & Renny Company, Ltd.
Latitude: 21.317525
Longitude: -157.875305

AH124 **GTE HAWAIIAN TEL - CONTAMINATED SOIL** **HI SHWS** **S106817210**
WSW **ALAKAWA ST & NIMITZ HWY** **HI ENG CONTROLS** **N/A**
1/2-1 **HONOLULU, HI 96817** **HI INST CONTROL**
0.662 mi. **HI SPILLS**
3496 ft. **Site 1 of 3 in cluster AH**

Relative: **Lower**

Actual: **3 ft.**

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: GTE Hawaiian Tel - Contaminated Soil
HID Number: Not reported
Facility Registry Identifier: 110013789524
Lead Agency: HEER
Program: State
Project Manager: Anna Fernandez
Hazard Priority: Low
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: GTE Hawaiian Tel - Contaminated Soil
HID Number: Not reported
Facility Registry Identifier: 110013789524
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: Low
Assessment: Response Necessary
Response: Response Ongoing
Nature of Contamination: Found: Subsurface petroleum in soil
Nature of Residual Contamination: PCS was discovered here when utility lines were installed. PCS remains there and will need to be managed if daylighted
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Engineering Control Required
Description of Restrictions: Not reported
Institutional Control: Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit

GTE HAWAIIAN TEL - CONTAMINATED SOIL (Continued) **S106817210**

Site Closure Type: No Further Action Letter - Restricted Use
Document Date: 09/25/2007
Document Number: Not reported
Document Subject: Not reported
Project Manager: Anna Fernandez
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:
Supplemental Location Text: Not reported
Zip Suffix: Not reported
Island: Oahu
Potential Hazards And Controls: Hazard Managed With Controls
Engineering Control: Engineering Control Required

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: Not reported
Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 20000309-0930
HID Number: Not reported
Facility Registry Id: 110013789524
Lead and Program: HEER EP&R
ER: No
Units: GTE Hawaiian - Contaminated Soil
Substances: Petroleum
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Liz Galvez
Assignment End Date: Not reported
Result: Refer to ISST
File Under: Verizon Hawaii
Latitude: 21.316879
Longitude: -157.875595

AF125 **CHEVRON HONOLULU TRANSPORTATION TERMINAL** **HI SHWS** **U003154454**
WSW **933 N NIMITZ HWY** **HI ENG CONTROLS** **N/A**
1/2-1 **HONOLULU, HI 96817**
0.664 mi.
3505 ft. **Site 2 of 2 in cluster AF**

Relative: **Lower**

Actual: **3 ft.**

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Chevron Honolulu Transportation Terminal
HID Number: Not reported
Facility Registry Identifier: 110000486466
Lead Agency: HEER

CHEVRON HONOLULU TRANSPORTATION TERMINAL (Continued) **U003154454**

Program:	State
Project Manager:	Jordan Nakayama
Hazard Priority:	Medium
Potential Hazards And Controls:	Hazard Managed With Controls
Island:	Oahu
SDAR Environmental Interest Name:	Chevron Honolulu Transportation Terminal
HID Number:	Not reported
Facility Registry Identifier:	110000486466
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Managed With Controls
Priority:	Medium
Assessment:	Response Necessary
Response:	Response Ongoing
Nature of Contamination:	Found: Subsurface petroleum contamination in soil.
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Engineering Control Required
Description of Restrictions:	Prohibit Any Activity That May Disturb the Integrity of the Capping System and prohibit disturbance of the soil.
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Jordan Nakayama
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:

Supplemental Location Text:	Not reported
Zip Suffix:	Not reported
Island:	Oahu
Potential Hazards And Controls:	Hazard Managed With Controls
Engineering Control:	Engineering Control Required

AI126 **HAWAIIAN ELECTRIC COMPANY (HECO) - IWILEI TANK YARD** **HI SHWS** **U001235311**
WSW **855 N NIMITZ HWY** **HI ENG CONTROLS** **N/A**
1/2-1 **HONOLULU, HI 96818** **HI INST CONTROL**
0.666 mi. **HI SPILLS**
3516 ft. **Site 1 of 2 in cluster AI**

Relative:
Lower

Actual:
3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	Hawaiian Electric Company (HECO) - Iwilei Tank Yard
HID Number:	Not reported
Facility Registry Identifier:	110013791593
Lead Agency:	HEER
Program:	State
Project Manager:	Steve Mow
Hazard Priority:	Low
Potential Hazards And Controls:	Hazard Managed With Controls
Island:	Oahu
SDAR Environmental Interest Name:	Hawaiian Electric Company (HECO) - Iwilei Tank Yard
HID Number:	Not reported
Facility Registry Identifier:	110013791593

HAWAIIAN ELECTRIC COMPANY (HECO) - IWILEI TANK YARD (Continued) **U001235311**

Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Managed With Controls
Priority:	Low
Assessment:	Response Necessary
Response:	Response Ongoing
Nature of Contamination:	Found: Petroleum in soil and groundwater
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Engineering Control Required
Description of Restrictions:	Prohibit Any Activity That May Disturb the Integrity of the Capping System and prohibit disturbance of the soil.
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Steve Mow
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:

Supplemental Location Text:	Not reported
Zip Suffix:	Not reported
Island:	Oahu
Potential Hazards And Controls:	Hazard Managed With Controls
Engineering Control:	Engineering Control Required

INST CONTROL:

Potential hazards and controls:	Hazard Managed With Controls
Supplemental Location:	Not reported
Zip Suffix:	Not reported
Island:	Oahu
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued

HI SPILLS:

Island:	Oahu
Supplemental Loc. Text:	Not reported
Case Number:	19990601-1625
HID Number:	Not reported
Facility Registry Id:	110013791593
Lead and Program:	HEER EP&R
ER:	No
Units:	HECO Tank Fuel Leak
Substances:	Unknown
Less Or Greater Than:	Not reported
Numerical Quantity:	400
Units:	Gallons
Activity Type:	Response
Activity Lead:	Mike Cripps
Assignment End Date:	Not reported
Result:	SOSC NFA
File Under:	Hawaiian Electric Co., Inc. (HECO)
Latitude:	21.313965
Longitude:	-157.873657

Island: Oahu

HAWAIIAN ELECTRIC COMPANY (HECO) - IWILEI TANK YARD (Continued) **U001235311**

Supplemental Loc. Text:	Not reported
Case Number:	20050906-1122
HID Number:	Not reported
Facility Registry Id:	110013791593
Lead and Program:	HEER EP&R
ER:	No
Units:	Weathered Petroleum Discovered during Pole Excavation
Substances:	Diesel Fuel/Fuel Oil
Less Or Greater Than:	Not reported
Numerical Quantity:	Not reported
Units:	Not reported
Activity Type:	Response
Activity Lead:	Curtis Martin
Assignment End Date:	2006-05-31 00:00:00
Result:	Refer to SDAR
File Under:	Hawaiian Electric Co., Inc. (HECO)
Latitude:	21.313965
Longitude:	-157.873657

Island:	Oahu
Supplemental Loc. Text:	Not reported
Case Number:	20050906-1122
HID Number:	Not reported
Facility Registry Id:	110013791593
Lead and Program:	HEER EP&R
ER:	No
Units:	Weathered Petroleum Discovered during Pole Excavation
Substances:	Fuel Oil
Less Or Greater Than:	Not reported
Numerical Quantity:	Not reported
Units:	Not reported
Activity Type:	Response
Activity Lead:	Curtis Martin
Assignment End Date:	2006-05-31 00:00:00
Result:	Refer to SDAR
File Under:	Hawaiian Electric Co., Inc. (HECO)
Latitude:	21.313965
Longitude:	-157.873657

AH127 **HAWAII STEVEDORES** **HI SHWS S106817380**
WSW **965 N NIMITZ HWY** **HI ENG CONTROLS N/A**
1/2-1 **HONOLULU, HI 96817** **HI SPILLS**
0.666 mi.
3519 ft. **Site 2 of 3 in cluster AH**

Relative:
Lower

Actual:
3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Honolulu Harbor Pier 35
Island:	Oahu
Environmental Interest:	Chevron Pier 35 Pipeline Release
HID Number:	Not reported
Facility Registry Identifier:	110013779278
Lead Agency:	HEER
Program:	State
Project Manager:	Steve Mow
Hazard Priority:	Low
Potential Hazards And Controls:	Hazard Managed With Controls
Island:	Oahu

HAWAII STEVEDORES (Continued) **S106817380**

SDAR Environmental Interest Name:	Chevron Pier 35 Pipeline Release
HID Number:	Not reported
Facility Registry Identifier:	110013779278
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Managed With Controls
Priority:	Low
Assessment:	Response Necessary
Response:	Response Ongoing
Nature of Contamination:	Found: Subsurface petroleum contamination in soil.
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Engineering Control Required
Description of Restrictions:	Prohibit Any Activity That May Disturb the Integrity of the Capping System and prohibit the disturbance of soil.
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Steve Mow
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

Organization:	Not reported
Supplemental Location:	Honolulu Harbor
Island:	Oahu
Environmental Interest:	Hawaii Stevedores
HID Number:	Not reported
Facility Registry Identifier:	110005725082
Lead Agency:	HEER
Program:	State
Project Manager:	Steve Mow
Hazard Priority:	Low
Potential Hazards And Controls:	Hazard Present
Island:	Oahu
SDAR Environmental Interest Name:	Hawaii Stevedores
HID Number:	Not reported
Facility Registry Identifier:	110005725082
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Present
Priority:	Low
Assessment:	Response Necessary
Response:	Response Ongoing
Nature of Contamination:	Found: Subsurface petroleum contamination in soil and groundwater
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Steve Mow
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

HAWAII STEVEDORES (Continued) **S106817380**

ENG CONTROLS:
- Supplemental Location Text: Honolulu Harbor Pier 35
- Zip Suffix: Not reported
- Island: Oahu
- Potential Hazards And Controls: Hazard Managed With Controls
- Engineering Control: Engineering Control Required

HI SPILLS:
- Island: Oahu
- Supplemental Loc. Text: Honolulu Harbor
- Case Number: 19941126
- HID Number: Not reported
- Facility Registry Id: 110005725082
- Lead and Program: HEER EP&R
- ER: Not reported
- Units: Pier 26, Honolulu Harbor diesel #2, #6, bunker fuel leaching from soil/storm drain
- Substances: Diesel #2, #6, Bunker Fuel
- Less Or Greater Than: Not reported
- Numerical Quantity: 150
- Units: Gallons
- Activity Type: Response
- Activity Lead: Bill Perry
- Assignment End Date: Not reported
- Result: SOSC NFA
- File Under: Hawaii Stevedores, Inc.
- Latitude: 21.338952
- Longitude: -157.843605

AI128 **861-869 NORTH NIMITZ HIGHWAY** **HI SHWS S108859941**
WSW **861-869 N NIMITZ HWY** **HI ENG CONTROLS N/A**
1/2-1 **HONOLULU, HI 96817** **HI INST CONTROL**
0.668 mi.
3525 ft. **Site 2 of 2 in cluster AI**

Relative: Lower

Actual: 3 ft.

SHWS:
- Organization: Not reported
- Supplemental Location: Not reported
- Island: Oahu
- Environmental Interest: Hakim Properties, Inc.
- HID Number: Not reported
- Facility Registry Identifier: 110013790460
- Lead Agency: HEER
- Program: State
- Project Manager: Eric Sadoyama
- Hazard Priority: NFA
- Potential Hazards And Controls: Hazard Managed With Controls
- Island: Oahu
- SDAR Environmental Interest Name: Hakim Properties, Inc.
- HID Number: Not reported
- Facility Registry Identifier: 110013790460
- Lead Agency: HEER
- Potential Hazard And Controls: Hazard Managed With Controls
- Priority: NFA
- Assessment: Response Necessary
- Response: Response Complete
- Nature of Contamination: Found: Petroleum and related constituents
- Nature of Residual Contamination: Some conatminants remain just above Tier 1 levels including,

861-869 NORTH NIMITZ HIGHWAY (Continued) **S108859941**

ethylbenzene in soil near one UST removal and acenapthene and fluoranthense in groundwater near hydraulic lift removal site, according to 1997 NFA ltr.
- Use Restrictions: Controls Required to Manage Contamination
- Engineering Control: Engineering Control Required
- Description of Restrictions: Limit Further Land Use - The concrete and asphalt cap must remain intact.
- Institutional Control: Government - Hawaii Dept. of Health Letter Issued
- Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
- Site Closure Type: No Further Action Letter - Restricted Use
- Document Date: 07/13/2005
- Document Number: Not reported
- Document Subject: Not reported
- Project Manager: Eric Sadoyama
- Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:
- Supplemental Location Text: Not reported
- Zip Suffix: Not reported
- Island: Oahu
- Potential Hazards And Controls: Hazard Managed With Controls
- Engineering Control: Engineering Control Required

INST CONTROL:
- Potential hazards and controls: Hazard Managed With Controls
- Supplemental Location: Not reported
- Zip Suffix: Not reported
- Island: Oahu
- Institutional Control: Government - Hawaii Dept. of Health Letter Issued

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AH129 **HART STREET WASTEWATER PUMP STATION** **HI SHWS U003154453**
WSW **1031 N. NIMITZ HWY.** **HI UIC N/A**
1/2-1 **HONOLULU, HI 96817**
0.675 mi.
3562 ft. **Site 3 of 3 in cluster AH**

Relative: Lower

Actual: 3 ft.

SHWS:
- Organization: Not reported
- Supplemental Location: Not reported
- Island: Oahu
- Environmental Interest: Nimitz Highway Relief Sewer
- HID Number: Not reported
- Facility Registry Identifier: 110013788678
- Lead Agency: HEER
- Program: State
- Project Manager: Steve Mow
- Hazard Priority: Low
- Potential Hazards And Controls: Hazard Present
- Island: Oahu
- SDAR Environmental Interest Name: Nimitz Highway Relief Sewer
- HID Number: Not reported
- Facility Registry Identifier: 110013788678
- Lead Agency: HEER
- Potential Hazard And Controls: Hazard Present
- Priority: Low
- Assessment: Response Necessary
- Response: Response Ongoing

HART STREET WASTEWATER PUMP STATION (Continued) **U003154453**

Nature of Contamination:	Found: Subsurface petroleum contamination in soil and groundwater
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Steve Mow
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

UIC:

UIC Permit Number:	UO-2174
Facility Id/Lat Long Minute Coordinates:	3-1952.05.1-2
Central Latitude Of The Site:	21 19 20
Central Longitude Of The Site:	157 52 42
Flow In Gallons Per Day:	6,000
Total Number Of Inj. Well(S) On Permit:	2
Island:	Oahu
Location In Relation To UIC Line:	below
Facility Type:	CD
Subclass:	B
Facility Operator, Not Contract Opr:	Robison Construction ,Inc.
Operator Address:	3049 Ualena St. #902,Hon.HI 96819
Facility Owner:	Robison Construction, Inc.
Owner Address:	3049 Ualena St,#902,Hon. HI 96819
Tax Map Key Number:	1:1-5-34:6
Owner Of Land Property On Leasehold:	none
Consultant Serving The Application:	Bender Consulting, LLC
Receipt Of Initial Application:	5/23/2002
Public Notice Date:	Not reported
Approval-To-Construct Issuance Date:	7/18/2002
Exemption Issuance Date:	Not reported
1st Issuance Of Permit:	7/10/2003
Last Issuance Of Permit:	Not reported
Type:	new
Permit Expiration Date:	7/9/2006
Date When File Is Closed:	5/3/2005
UIC Project Geologist:	JR
Remarks:	Not reported

AG130 **CHEVRON KAPALAMA TERMINAL** **HI SHWS S108008763**
WSW **1105 N NIMITZ HWY** **HI INST CONTROL N/A**
1/2-1 **HONOLULU, HI 96817** **HI SPILLS**
0.678 mi.
3580 ft. **Site 2 of 3 in cluster AG**

Relative:
Lower

Actual:
3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Honolulu Harbor Pier 36
Island:	Oahu
Environmental Interest:	Chevron Kapalama Northeast Parcel
HID Number:	Not reported
Facility Registry Identifier:	110013779731

CHEVRON KAPALAMA TERMINAL (Continued) **S108008763**

Lead Agency:	HEER
Program:	State
Project Manager:	Jordan Nakayama
Hazard Priority:	Medium
Potential Hazards And Controls:	Hazard Present
Island:	Oahu
SDAR Environmental Interest Name:	Chevron Kapalama Northeast Parcel
HID Number:	Not reported
Facility Registry Identifier:	110013779731
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Present
Priority:	Medium
Assessment:	Response Necessary
Response:	Response Ongoing
Nature of Contamination:	Found: Subsurface petroleum contamination in soil and groundwater
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Jordan Nakayama
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814
Organization:	Not reported
Supplemental Location:	Kapalama
Island:	Oahu
Environmental Interest:	Chevron Kapalama Northwest Parcel
HID Number:	Not reported
Facility Registry Identifier:	110013779722
Lead Agency:	HEER
Program:	State
Project Manager:	Jordan Nakayama
Hazard Priority:	Low
Potential Hazards And Controls:	Hazard Present
Island:	Oahu
SDAR Environmental Interest Name:	Chevron Kapalama Northwest Parcel
HID Number:	Not reported
Facility Registry Identifier:	110013779722
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Present
Priority:	Low
Assessment:	Response Necessary
Response:	Response Ongoing
Nature of Contamination:	Found: Additional assessment for Petroleum Products in Soil underway. Ongoing GW monitoring for this site for Petroleum. No contaminants in groundwater above EALs in 2008.
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit

CHEVRON KAPALAMA TERMINAL (Continued) **S108008763**

Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Jordan Nakayama
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814
Organization:	Not reported
Supplemental Location:	Honolulu Harbor Pier 37
Island:	Oahu
Environmental Interest:	Chevron Kapalama Southwest Parcel
HID Number:	Not reported
Facility Registry Identifier:	110013779713
Lead Agency:	HEER
Program:	State
Project Manager:	Jordan Nakayama
Hazard Priority:	NFA
Potential Hazards And Controls:	Hazard Managed With Controls
Island:	Oahu
SDAR Environmental Interest Name:	Chevron Kapalama Southwest Parcel
HID Number:	Not reported
Facility Registry Identifier:	110013779713
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Managed With Controls
Priority:	NFA
Assessment:	Response Necessary
Response:	Response Complete
Nature of Contamination:	Found: Petroleum in soil and groundwater
Nature of Residual Contamination:	Most of nonhazardous oily pollution was cleaned up and remaining contaminants do not pose a threat to human health or the environment during the proposed future use of the property - NFA ltr Chevron2-Lau dated August 26, 1993
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Not reported
Description of Restrictions:	Limit Further Land Use - Site is restricted to industrial use only
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	No Further Action Letter - Restricted Use
Document Date:	08/26/1993
Document Number:	014-
Document Subject:	Chevron Oil Company's Former Kapalama Fuel Terminal, Southwest Parcel, Pier 37, Honolulu
Project Manager:	Jordan Nakayama
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814
Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	Chevron Kapalama Terminal
HID Number:	Not reported
Facility Registry Identifier:	110005730842
Lead Agency:	HEER
Program:	State
Project Manager:	Jordan Nakayama
Hazard Priority:	Medium
Potential Hazards And Controls:	Hazard Present
Island:	Oahu

CHEVRON KAPALAMA TERMINAL (Continued) **S108008763**

SDAR Environmental Interest Name:	Chevron Kapalama Terminal
HID Number:	Not reported
Facility Registry Identifier:	110005730842
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Present
Priority:	Medium
Assessment:	Response Necessary
Response:	Response Ongoing
Nature of Contamination:	Found: Subsurface petroleum contamination in soil and groundwater
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Honolulu Harbor Iwilei Unit
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Jordan Nakayama
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

INST CONTROL:

Potential hazards and controls:	Hazard Managed With Controls
Supplemental Location:	Honolulu Harbor Pier 37
Zip Suffix:	Not reported
Island:	Oahu
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued

HI SPILLS:

Island:	Oahu
Supplemental Loc. Text:	Not reported
Case Number:	19891225-1
HID Number:	Not reported
Facility Registry Id:	110005730842
Lead and Program:	HEER EP&R
ER:	Not reported
Units:	CHEVRON, 1105 N. NIMITZ HWY.
Substances:	OIL, LOW SULFUR, HIGH VISCOSITY
Less Or Greater Than:	Not reported
Numerical Quantity:	50
Units:	Barrels
Activity Type:	Response
Activity Lead:	Not reported
Assignment End Date:	Not reported
Result:	SOSC NFA
File Under:	Chevron USA, Inc.
Latitude:	21.318123
Longitude:	-157.877168
Island:	Oahu
Supplemental Loc. Text:	Not reported
Case Number:	19930315
HID Number:	Not reported
Facility Registry Id:	110005730842
Lead and Program:	HEER EP&R

CHEVRON KAPALAMA TERMINAL (Continued) **S108008763**

ER: Not reported
Units: Kapalama South Chevron Fuel Farm, Honolulu, Oahu, HI
Substances: Jet Fuel A
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Not reported
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Chevron USA, Inc.
Latitude: 21.318123
Longitude: -157.877168

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131 **RICHARD'S CHEVRON** **HI SHWS** **1000601437**
East **1909 NUUANU AVE** **HI INST CONTROL** **N/A**
1/2-1 **HONOLULU, HI 96817** **HI SPILLS**
0.680 mi.
3588 ft.

Relative:
Higher

Actual:
69 ft.

SHWS:
Organization: Not reported
Supplemental Location: At Pauoa Rd
Island: Oahu
Environmental Interest: Richard's Chevron
HID Number: Not reported
Facility Registry Identifier: 110005727320
Lead Agency: HEER
Program: State
Project Manager: Cal Miyahara
Hazard Priority: NFA
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: Richard's Chevron
HID Number: Not reported
Facility Registry Identifier: 110005727320
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: NFA
Assessment: Response Necessary
Response: Response Complete
Nature of Contamination: Found: TPH-D,r and PCE in soils above Indus/Comm Tier I levels.
Nature of Residual Contamination: Not reported
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination: Not reported
Site Closure Type: No Further Action Letter - Restricted Use
Document Date: 01/24/2012
Document Number: Not reported
Document Subject: Offsite Assessment Report Nuuanu Service Station #9-3875
Project Manager: Cal Miyahara
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls

RICHARD'S CHEVRON (Continued) **1000601437**

Supplemental Location: At Pauoa Rd
Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: At Pauoa Rd
Case Number: 20061026-0855
HID Number: Not reported
Facility Registry Id: 110005727320
Lead and Program: HEER EP&R
ER: No -
Units: Hydraulic Oil & other Contaminants Released
Substances: Hydraulic Oil
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Paul Chong
Assignment End Date: 2006-10-26 00:00:00
Result: Refer to SDAR
File Under: Chevron Products Company
Latitude: 21.320254
Longitude: -157.852245

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132 **HARBOR COURT** **HI SHWS** **1006820894**
South **66 QUEEN ST** **N/A**
1/2-1 **HONOLULU, HI 96813**
0.680 mi.
3593 ft.

Relative:
Lower

Actual:
6 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Harbor Court
HID Number: Not reported
Facility Registry Identifier: 110013789212
Lead Agency: Not reported
Program: State
Project Manager: Unassigned
Hazard Priority: NFA
Potential Hazards And Controls: Hazard Undetermined
Island: Oahu
SDAR Environmental Interest Name: Harbor Court
HID Number: Not reported
Facility Registry Identifier: 110013789212
Lead Agency: Not reported
Potential Hazard And Controls: Hazard Undetermined
Priority: NFA
Assessment: Assessment Ongoing
Response: Not reported
Nature of Contamination: Not reported
Nature of Residual Contamination: Not reported
Use Restrictions: Undetermined
Engineering Control: Not reported

HARBOR COURT (Continued) **1006820894**

Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Not reported
Site Closure Type: No Further Action - Type Undetermined
Document Date: 12/21/1994
Document Number: Not reported
Document Subject: Not reported
Project Manager: Unassigned
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

AG133 **DOMESTIC COMMERCIAL FISHING VILLAGE** **HI SHWS** **S111677154**
West **1133 N NIMITZ HWY** **HI ENG CONTROLS** **N/A**
1/2-1 **HONOLULU, HI 96817** **HI INST CONTROL**
0.681 mi. **HI SPILLS**
3598 ft. **Site 3 of 3 in cluster AG**

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Honolulu Harbor Pier 36-38
Island: Oahu
Environmental Interest: Domestic Commercial Fishing Village
HID Number: Not reported
Facility Registry Identifier: 110013782344
Lead Agency: HEER
Program: State
Project Manager: Steve Mow
Hazard Priority: Low
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: Domestic Commercial Fishing Village
HID Number: Not reported
Facility Registry Identifier: 110013782344
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: Low
Assessment: Response Necessary
Response: Response Ongoing
Nature of Contamination: Found: Methane in soil gas
Nature of Residual Contamination: Not reported
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Engineering Control Required
Description of Restrictions: Limit Further Land Use - Site is restricted to industrial use only
Institutional Control: Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Steve Mow
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

ENG CONTROLS:
Supplemental Location Text: Honolulu Harbor Pier 36-38
Zip Suffix: Not reported
Island: Oahu
Potential Hazards And Controls: Hazard Managed With Controls
Engineering Control: Engineering Control Required

DOMESTIC COMMERCIAL FISHING VILLAGE (Continued) **S111677154**

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: Honolulu Harbor Pier 36-38
Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 36-38
Case Number: 19990702-0845
HID Number: Not reported
Facility Registry Id: 110013782344
Lead and Program: HEER EP&R
ER: Referred
Units: Pier 37 Soil Contamination
Substances: Petroleum Oil
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Terry Corpus
Assignment End Date: Not reported
Result: SOSC NFA
File Under: State of Hawaii, Department of Transportation, Harbors Division
Latitude: 21.317445
Longitude: -157.877714

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 36-38
Case Number: 20010117-1023
HID Number: Not reported
Facility Registry Id: 110013782344
Lead and Program: HEER EP&R
ER: Not reported
Units: Domestic Commercial Fishing Village
Substances: Not reported
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Mike Cripps
Assignment End Date: Not reported
Result: SOSC NFA
File Under: State of Hawaii, Department of Transportation, Harbors Division
Latitude: 21.317445
Longitude: -157.877714

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 36-38
Case Number: 20010201-1400
HID Number: Not reported
Facility Registry Id: 110013782344
Lead and Program: HEER EP&R
ER: Site Visit
Units: Domestic Commercial Fishing Village Oil Release- Construction Excavation - Line 6

DOMESTIC COMMERCIAL FISHING VILLAGE (Continued) **S111677154**

Substances: Light brown oil - Vegetable - Cooking oil ?
Less Or Greater Than: <
Numerical Quantity: 1
Units: Gallons
Activity Type: Response
Activity Lead: Bill Perry
Assignment End Date: Not reported
Result: SOSC NFA
File Under: State of Hawaii, Department of Transportation, Harbors Division
Latitude: 21.317445
Longitude: -157.877714

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 36-38
Case Number: 20020805-1505
HID Number: Not reported
Facility Registry Id: 110013782344
Lead and Program: HEER EP&R
ER: Site Visit
Units: Air Monitoring at Hon. Hbr. FV
Substances: Rule out explosivity
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Mike Cripps
Assignment End Date: Not reported
Result: SOSC NFA
File Under: State of Hawaii, Department of Transportation, Harbors Division
Latitude: 21.317445
Longitude: -157.877714

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 36-38
Case Number: 20030905-1153
HID Number: Not reported
Facility Registry Id: 110013782344
Lead and Program: HEER EP&R
ER: Not reported
Units: Pier 38 Fishing Village, parcel 2
Substances: Methane/combustible Gas
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Ed Gomes
Assignment End Date: Not reported
Result: Not reported
File Under: State of Hawaii, Department of Transportation, Harbors Division
Latitude: 21.317445
Longitude: -157.877714

Click this hyperlink while viewing on your computer to access
additional HI SPILLS: detail in the EDR Site Report.

134 SW 1/2-1 0.696 mi. 3677 ft. **CHEVRON HONOLULU TERMINAL MARINE** **HI SHWS U001235369**
777 N NIMITZ HWY **HI SPILLS N/A**
HONOLULU, HI 96817

Relative: Lower

Actual: 3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Chevron Honolulu Terminal Marine
HID Number: Not reported
Facility Registry Identifier: 110000486457
Lead Agency: HEER
Program: State
Project Manager: Steve Mow
Hazard Priority: Medium
Potential Hazards And Controls: Hazard Present
Island: Oahu
SDAR Environmental Interest Name: Chevron Honolulu Terminal Marine
HID Number: Not reported
Facility Registry Identifier: 110000486457
Lead Agency: HEER
Potential Hazard And Controls: Hazard Present
Priority: Medium
Assessment: Response Necessary
Response: Response Ongoing
Nature of Contamination: Found: Subsurface petroleum contaminationin soil and groundwater
Nature of Residual Contamination: Not reported
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Steve Mow
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19970220-1501
HID Number: Not reported
Facility Registry Id: 110000486457
Lead and Program: HEER EP&R
ER: Yes
Units: Pier 32 Diesel Spill
Substances: Diesel Fuel
Less Or Greater Than: Not reported
Numerical Quantity: 20
Units: Gallons
Activity Type: Response
Activity Lead: Mike Cripps
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Chevron USA, Inc.

CHEVRON HONOLULU TERMINAL MARINE (Continued) **U001235369**

Latitude: 21.31225
Longitude: -157.873356

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19991007-0820
HID Number: Not reported
Facility Registry Id: 110000486457
Lead and Program: HEER EP&R
ER: No
Units: Chevron Honolulu Marine Terminal Tank 27 Gasoline Release
Substances: Gasoline, Supreme Unleaded
Less Or Greater Than: Not reported
Numerical Quantity: 29
Units: Barrels
Activity Type: Response
Activity Lead: Mike Cripps
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Chevron USA, Inc.
Latitude: 21.31225
Longitude: -157.873356

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19991030-0834
HID Number: Not reported
Facility Registry Id: 110000486457
Lead and Program: HEER EP&R
ER: Off Scene
Units: Chevron Terminal Bulk Storage Facility
Substances: Oil
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Terry Corpus
Assignment End Date: Not reported
Result: Not reported
File Under: Chevron USA, Inc.
Latitude: 21.31225
Longitude: -157.873356

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19991102-0929
HID Number: Not reported
Facility Registry Id: 110000486457
Lead and Program: HEER EP&R
ER: No
Units: Chevron Terminal Oilwater
Substances: Transmix/gasoline diesel slop
Less Or Greater Than: Not reported
Numerical Quantity: 725
Units: Gallons
Activity Type: Response
Activity Lead: Mike Cripps

CHEVRON HONOLULU TERMINAL MARINE (Continued) **U001235369**

Assignment End Date: Not reported
Result: SOSC NFA
File Under: Chevron USA, Inc.
Latitude: 21.31225
Longitude: -157.873356

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor
Case Number: 20050908-1612
HID Number: Not reported
Facility Registry Id: Not reported
Lead and Program: HEER EP&R
ER: Site Visit
Units: Pier 30 Tug Boat Fuel Spill
Substances: Diesel Fuel
Less Or Greater Than: Not reported
Numerical Quantity: 1
Units: Gallons
Activity Type: Response
Activity Lead: Terry Corpus
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Not reported
Latitude: 21.31225
Longitude: -157.873356

Click this hyperlink while viewing on your computer to access
11 additional HI SPILLS: record(s) in the EDR Site Report.

135
SSE
1/2-1
0.704 mi.
3715 ft.

CAPITOL PLACE DEVELOPMENT PROJECT **HI SHWS** **S108008488**
1212 QUEEN EMMA ST **N/A**
HONOLULU, HI 96813

Relative:
Higher

Actual:
23 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Capitol Place Development Project
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Program: State
Project Manager: Mark Sutterfield
Hazard Priority: NFA
Potential Hazards And Controls: No Hazard
Island: Oahu
SDAR Environmental Interest Name: Capitol Place Development Project
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Potential Hazard And Controls: No Hazard
Priority: NFA
Assessment: Response Necessary
Response: Response Complete
Nature of Contamination: Found: Diesel, lead
Nature of Residual Contamination: Lead contaminated soil

CAPITOL PLACE DEVELOPMENT PROJECT (Continued) **S108008488**

Use Restrictions:	No Hazard Present for Unrestricted Residential Use
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Not reported
Site Closure Type:	No Further Action Letter - Unrestricted Residential Use
Document Date:	11/15/2005
Document Number:	2005-583-MS
Document Subject:	NFA letter for Capitol Development Project 1212 Queen Emma St
Project Manager:	Mark Sutterfield
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

AJ136 **1385 COLBURN STREET** **HI SHWS S118422779**
WNW **1385 COLBURN ST** **N/A**
1/2-1 **HONOLULU, HI**
0.707 mi.
3734 ft. **Site 1 of 2 in cluster AJ**

Relative: Higher

Actual: 10 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	1385 Colburn Street
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Program:	State
Project Manager:	Paul Chong
Hazard Priority:	Low
Potential Hazards And Controls:	Hazard Undetermined
Island:	Oahu
SDAR Environmental Interest Name:	1385 Colburn Street
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Undetermined
Priority:	Low
Assessment:	Assessment Ongoing
Response:	Not reported
Nature of Contamination:	Not reported
Nature of Residual Contamination:	Not reported
Use Restrictions:	Undetermined
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Not reported
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Paul Chong
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

AJ137 **GENERAL TIRE** **HI SHWS S106817180**
WNW **505 WAIAKAMILO RD** **HI SPILLS N/A**
1/2-1 **HONOLULU, HI 96817**
0.740 mi.
3906 ft. **Site 2 of 2 in cluster AJ**

Relative: Higher

Actual: 10 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	Former General Tire Petroleum Contamination
HID Number:	Not reported
Facility Registry Identifier:	110005726884
Lead Agency:	HEER
Program:	State
Project Manager:	Mark Sutterfield
Hazard Priority:	NFA
Potential Hazards And Controls:	No Hazard
Island:	Oahu
SDAR Environmental Interest Name:	Former General Tire Petroleum Contamination
HID Number:	Not reported
Facility Registry Identifier:	110005726884
Lead Agency:	HEER
Potential Hazard And Controls:	No Hazard
Priority:	NFA
Assessment:	Response Necessary
Response:	Response Complete
Nature of Contamination:	Not reported
Nature of Residual Contamination:	Petroleum contaminated soil detected at concentrations below HDOH EALs
Use Restrictions:	No Hazard Present for Unrestricted Residential Use
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Not reported
Site Closure Type:	No Further Action Letter - Unrestricted Residential Use
Document Date:	01/28/2004
Document Number:	2004-033-MS
Document Subject:	NFA for Former General Tire Location
Project Manager:	Mark Sutterfield
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

HI SPILLS:

Island:	Oahu
Supplemental Loc. Text:	Not reported
Case Number:	20020225-1414
HID Number:	Not reported
Facility Registry Id:	110005726884
Lead and Program:	HEER EP&R
ER:	No
Units:	General Tire Hydraulic Oil Release
Substances:	Not reported
Less Or Greater Than:	Not reported
Numerical Quantity:	Not reported
Units:	Not reported
Activity Type:	Response
Activity Lead:	Liz Galvez
Assignment End Date:	Not reported
Result:	Refer to ISST
File Under:	Continental Tire

GENERAL TIRE (Continued) **S106817180**

Latitude: 21.323027
Longitude: -157.876517

138
West
1/2-1
0.779 mi.
4113 ft.

Relative:
Lower

Actual:
3 ft.

1305 HART STREET **HI SHWS S106815169**
1305 HART ST **HI INST CONTROL N/A**
HONOLULU, HI 96814 **HI SPILLS**

SHWS:
Organization: Not reported
Supplemental Location: 1305 Hart St, 1301 and 1321 also?
Island: Oahu
Environmental Interest: 1305 Hart Street
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Program: State
Project Manager: Mark Sutterfield
Hazard Priority: NFA
Potential Hazards And Controls: Hazard Managed With Controls
Island: Oahu
SDAR Environmental Interest Name: 1305 Hart Street
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Potential Hazard And Controls: Hazard Managed With Controls
Priority: NFA
Assessment: Response Necessary
Response: Response Complete
Nature of Contamination: Not reported
Nature of Residual Contamination: Lead in soil
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Government - Hawaii Dept. of Health Letter Issued
Within Designated Areawide Contamination: Not reported
Site Closure Type: No Further Action Letter - Restricted Use
Document Date: 12/16/2004
Document Number: 2004-539-MS
Document Subject: NFA 1305 Hart St Lead in surface below Tier I based on 95% UCL
Project Manager: Mark Sutterfield
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls
Supplemental Location: 1305 Hart St, 1301 and 1321 also?
Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: 1305 Hart St, 1301 and 1321 also?
Case Number: 20041004-1522
HID Number: Not reported
Facility Registry Id: Not reported

1305 HART STREET (Continued) **S106815169**

Lead and Program: HEER EP&R
ER: No
Units: Hart Street Groundwater
Substances: vinyl chloride,lead
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Unknown
Activity Type: Response
Activity Lead: Mike Cripps
Assignment End Date: 2005-10-28 00:00:00
Result: Refer to ISST
File Under: State of Hawaii, Department of Hawaiian Home Lands
Latitude: 21.295252
Longitude: -157.845319

139
West
1/2-1
0.845 mi.
4461 ft.

Relative:
Lower

Actual:
3 ft.

YOUNG BROTHERS, LTD. PIERS 39, 40 **HI SHWS S108009312**
1331 N NIMITZ HWY **HI SPILLS N/A**
HONOLULU, HI 96817

SHWS:
Organization: Not reported
Supplemental Location: Honolulu Harbor Pier 39/40 at Waiakamilo Rd
Island: Oahu
Environmental Interest: Young Brothers, Ltd. Piers 39, 40
HID Number: Not reported
Facility Registry Identifier: 110013774521
Lead Agency: HEER
Program: State
Project Manager: Unassigned
Hazard Priority: Low
Potential Hazards And Controls: Hazard Undetermined
Island: Oahu
SDAR Environmental Interest Name: Young Brothers, Ltd. Piers 39, 40
HID Number: Not reported
Facility Registry Identifier: 110013774521
Lead Agency: HEER
Potential Hazard And Controls: Hazard Undetermined
Priority: Low
Assessment: Assessment Ongoing
Response: Not reported
Nature of Contamination: Not reported
Nature of Residual Contamination: Not reported
Use Restrictions: Undetermined
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Honolulu Harbor Kapalama Unit
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Unassigned
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

HI SPILLS:

YOUNG BROTHERS, LTD. PIERS 39, 40 (Continued) **S108009312**

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 39/40 at Waiakamilo Rd
Case Number: 19900612
HID Number: Not reported
Facility Registry Id: 110013774521
Lead and Program: HEER EP&R
ER: Not reported
Units: Pier 39 - Young Brothers
Substances: Hydraulic Fluid
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Mike Cripps
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Young Brothers, Ltd.
Latitude: 21.319653
Longitude: -157.880817

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 39/40 at Waiakamilo Rd
Case Number: 19990221-1737
HID Number: Not reported
Facility Registry Id: 110013774521
Lead and Program: HEER EP&R
ER: Not reported
Units: Waste Oil at Young Brothers, Ltd.-Pier 39
Substances: Oil, Waste
Less Or Greater Than: Not reported
Numerical Quantity: 200
Units: Gallons
Activity Type: Response
Activity Lead: Bill Perry
Assignment End Date: Not reported
Result: Not reported
File Under: Young Brothers, Ltd.
Latitude: 21.319653
Longitude: -157.880817

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 39/40 at Waiakamilo Rd
Case Number: 20091123-0546
HID Number: Not reported
Facility Registry Id: 110013774521
Lead and Program: HEER EP&R
ER: None
Units: Security Breach Piers 39 and 40 NRC 924076
Substances: None
Less Or Greater Than: Not reported
Numerical Quantity: 0
Units: Not reported
Activity Type: Response
Activity Lead: Liz Galvez
Assignment End Date: Not reported
Result: Not reported
File Under: Young Brothers, Ltd.

YOUNG BROTHERS, LTD. PIERS 39, 40 (Continued) **S108009312**

Latitude: 21.319653
Longitude: -157.880817

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 39/40 at Waiakamilo Rd
Case Number: 20100927-1210
HID Number: Not reported
Facility Registry Id: 110013774521
Lead and Program: HEER EP&R
ER: None
Units: YOUNG BROTHERS HYDRAULIC OIL RELEASE
Substances: Hydraulic Oil
Less Or Greater Than: >
Numerical Quantity: 100
Units: Gallons
Activity Type: Response
Activity Lead: Curtis Martin
Assignment End Date: 2010-09-27 00:00:00
Result: SOSC NFA
File Under: Young Brothers, Ltd.
Latitude: 21.319653
Longitude: -157.880817

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 39/40 at Waiakamilo Rd
Case Number: 20111102-1645
HID Number: Not reported
Facility Registry Id: 110013774521
Lead and Program: HEER EP&R
ER: None
Units: Young Brothers medical waste spill
Substances: medical waste
Less Or Greater Than: Not reported
Numerical Quantity: 1
Units: Gallons
Activity Type: Response
Activity Lead: TC
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Young Brothers, Ltd.
Latitude: 21.319653
Longitude: -157.880817

Click this hyperlink while viewing on your computer to access
4 additional HI SPILLS: record(s) in the EDR Site Report.

140
NW
1/2-1
0.847 mi.
4472 ft.

FARRINGTON HIGH SCHOOL
1564 N KING ST
HONOLULU, HI 96817

HI SHWS **1007277849**
HI SPILLS **N/A**
FTTS
HIST FTTS

Relative:
Higher

Actual:
45 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Farrington High School
HID Number: HID984467050

FARRINGTON HIGH SCHOOL (Continued) **1007277849**

Facility Registry Identifier: 110009278753
Lead Agency: Not reported
Program: State
Project Manager: Unassigned
Hazard Priority: Not reported
Potential Hazards And Controls: Hazard Undetermined
Island: Oahu
SDAR Environmental Interest Name: Farrington High School
HID Number: HID984467050
Facility Registry Identifier: 110009278753
Lead Agency: Not reported
Potential Hazard And Controls: Hazard Undetermined
Priority: Not reported
Assessment: Assessment Ongoing
Response: Not reported
Nature of Contamination: Found: Petroleum in soil
Nature of Residual Contamination: Not reported
Use Restrictions: Undetermined
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Not reported
Site Closure Type: Closed - Documentation Inadequate to Evaluate Risk
Document Date: 01/30/1997
Document Number: 1997-050-RK
Document Subject: Farrington High School
Project Manager: Unassigned
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19890713
HID Number: HID984467050
Facility Registry Id: 110009278753
Lead and Program: HEER EP&R
ER: Not reported
Units: FARRINGTON HIGH SCHOOL, ATHLETIC DEPARTMENT
Substances: Diesel Fuel
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Not reported
Assignment End Date: Not reported
Result: Refer to ISST
File Under: State of Hawaii, Department of Education
Latitude: 21.329925
Longitude: -157.870345

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19910725-1
HID Number: HID984467050
Facility Registry Id: 110009278753
Lead and Program: HEER EP&R
ER: Not reported

FARRINGTON HIGH SCHOOL (Continued) **1007277849**

Units: Farrington High School Chemistry class chemicals tested
Substances: CHEMISTRY CLASS CHEMICALS
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Not reported
Assignment End Date: Not reported
Result: SOSC NFA
File Under: State of Hawaii, Department of Education
Latitude: 21.329925
Longitude: -157.870345

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 20050309-1109
HID Number: HID984467050
Facility Registry Id: 110009278753
Lead and Program: HEER EP&R
ER: Off Scene
Units: Broken Thermometer
Substances: Mercury
Less Or Greater Than: <
Numerical Quantity: 1
Units: Pounds
Activity Type: Response
Activity Lead: Liz Galvez
Assignment End Date: 2005-03-09 00:00:00
Result: SOSC NFA
File Under: State of Hawaii, Department of Education
Latitude: 21.329925
Longitude: -157.870345

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19920427-1
HID Number: HID984467050
Facility Registry Id: 110009278753
Lead and Program: HEER EP&R
ER: Not reported
Units: Farrington High School leaking UST
Substances: Diesel Fuel (Petroleum)
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Sheila Mackenzie
Assignment End Date: Not reported
Result: Refer to ISST
File Under: State of Hawaii, Department of Education
Latitude: 21.329925
Longitude: -157.870345

FTTS INSP:
Inspection Number: 19910624R7016 2
Region: 07
Inspection Date: 06/24/91

FARRINGTON HIGH SCHOOL (Continued) **1007277849**

Inspector: CURRY
Violation occurred: No
Investigation Type: Asbestos, ASHAA Ongoing
Investigation Reason: For Cause, Government
Legislation Code: TSCA
Facility Function: User

HIST FTTS INSP:
Inspection Number: 19910624R7016 2
Region: 07
Inspection Date: Not reported
Inspector: CURRY
Violation occurred: No
Investigation Type: Asbestos, ASHAA Ongoing
Investigation Reason: For Cause, Government
Legislation Code: TSCA
Facility Function: User

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141 NE 1/2-1 0.880 mi. 4645 ft. **SAINT FRANCIS HOSPITAL** **HI SHWS U001235227**
2230 LILIHA ST **HI LUST N/A**
HONOLULU, HI 96817 **HI UST**
HI SPILLS

Relative: Higher

Actual: 186 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Saint Francis Medical Center, Liliha Street
HID Number: Not reported
Facility Registry Identifier: 110014043631
Lead Agency: HEER
Program: State
Project Manager: Steve Mow
Hazard Priority: NFA
Potential Hazards And Controls: Hazard Undetermined
Island: Oahu
SDAR Environmental Interest Name: Saint Francis Medical Center, Liliha Street
HID Number: Not reported
Facility Registry Identifier: 110014043631
Lead Agency: HEER
Potential Hazard And Controls: Hazard Undetermined
Priority: NFA
Assessment: Assessment Ongoing
Response: Not reported
Nature of Contamination: Found: PAHs (benzo[a]pyrene & anthracene) found near UST
Nature of Residual Contamination: Not reported
Use Restrictions: Undetermined
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Not reported
Site Closure Type: No Further Action - Type Undetermined
Document Date: 04/29/2005
Document Number: Not reported

SAINT FRANCIS HOSPITAL (Continued) **U001235227**

Document Subject: Not reported
Project Manager: Steve Mow
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

LUST:
Facility ID: 9-100785
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 03/19/2002
Release ID: 910032
Project Officer: Shunsheng Fu

Facility ID: 9-100785
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 06/04/2002
Release ID: 000094
Project Officer: Shunsheng Fu

UST:
Facility ID: 9-100785
Owner: SAINT FRANCIS HOSPITAL
Owner Address: 2230 LILIHA ST
Owner City,St,Zip: Honolulu, 96817 96817
Latitude: 21.328933
Longitude: -157.852226
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: Address Matching

Tank ID: R-1
Date Installed: Not reported
Tank Status: Permanently Out of Use
Date Closed: 11/30/1990
Tank Capacity: 7500
Substance: Diesel

Tank ID: R-2
Date Installed: Not reported
Tank Status: Permanently Out of Use
Date Closed: 11/30/1990
Tank Capacity: 550
Substance: Other

Tank ID: R-4
Date Installed: 01/30/1976
Tank Status: Permanently Out of Use
Date Closed: 04/22/1994
Tank Capacity: 450
Substance: Diesel

Tank ID: R-M-1
Date Installed: 01/30/1976
Tank Status: Permanently Out of Use
Date Closed: 12/13/2000
Tank Capacity: 10000

SAINT FRANCIS HOSPITAL (Continued) **U001235227**

Substance: Diesel

Tank ID: R-M-6
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 01/01/1990
Tank Capacity: 250
Substance: Diesel

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19940120-1
HID Number: Not reported
Facility Registry Id: 110014043631
Lead and Program: HEER EP&R
ER: Not reported
Units: Saint Francis Hospital Diesel Pipe Pressure Check
Substances: Diesel Fuel
Less Or Greater Than: <
Numerical Quantity: 1
Units: Gallons
Activity Type: Response
Activity Lead: Not reported
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Saint Francis Health System
Latitude: 21.328769
Longitude: -157.852789

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19940201
HID Number: Not reported
Facility Registry Id: 110014043631
Lead and Program: HEER EP&R
ER: Not reported
Units: Saint Francis Hospital Tank Tightness Test Failure
Substances: Diesel Fuel
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response
Activity Lead: Not reported
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Saint Francis Health System
Latitude: 21.328769
Longitude: -157.852789

142
South
1/2-1
0.888 mi.
4689 ft.

Relative:
Lower

Actual:
3 ft.

HAWAIIAN ELECTRIC - HONOLULU GENERATING STATION **SEMS-ARCHIVE** **1000146691**
170 ALA MOANA BOULEVARD **CORRACTS** **HID000150680**
HONOLULU, HI 96813 **RCRA-TSDF**
RCRA-CESQG
HI SHWS
HI SPILLS
2020 COR ACTION
HI AIRS
CA HAZNET

SEMS-ARCHIVE:
Site ID: 900377
EPA ID: HID000150680
Federal Facility: N
NPL: Not on the NPL
Non NPL Status: Deferred to RCRA

Following information was gathered from the prior CERCLIS update completed in 10/2013:
Site ID: 0900377
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Deferred to RCRA

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13037252.00000
Person ID: 9000059.00000

Program Priority:
Description: RCRA Deferral - Lead Confirmed

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: / /
Date Completed: 05/08/90
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 05/15/90
Priority Level: Deferred to RCRA (Subtitle C)

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 01/23/96
Priority Level: Not reported

CORRACTS:

EPA ID: HID000150680
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20100401
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 20100401

HAWAIIAN ELECTRIC - HONOLULU GENERATING STATION (Continued) **1000146691**

Schedule end date: Not reported

EPA ID: HID000150680
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20121211
Action: CA550RC
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 20121211
Schedule end date: Not reported

EPA ID: HID000150680
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20121211
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: 20121211
Schedule end date: Not reported

EPA ID: HID000150680
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19920316
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: HID000150680
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19900430
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 221112
Fossil Fuel Electric Power Generation
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-TSDF:
Date form received by agency: 04/17/2014
Facility name: HAWAIIAN ELECTRIC - HONOLULU GENERATING STATION
Facility address: 170 ALA MOANA BOULEVARD
HONOLULU, HI 96813
EPA ID: HID000150680
Mailing address: PO BOX 2750
HONOLULU, HI 96840
Contact: WARREN S HALL
Contact address: PO BOX 2750 (CP6-JW)
HONOLULU, HI 96840
Contact country: Not reported

HAWAIIAN ELECTRIC - HONOLULU GENERATING STATION (Continued) **1000146691**

Contact telephone: 808 5434524
Contact email: WARREN.HALL@HAWAIIANELECTRIC.COM
EPA Region: 09
Land type: Private
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: HAWAIIAN ELECTRIC COMPANY, INC.
Owner/operator address: PO BOX 2750
HONOLULU, HI 96840
Owner/operator country: Not reported
Owner/operator telephone: (808) 543-4524
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1893
Owner/Op end date: Not reported

Owner/operator name: HAWAIIAN ELECTRIC COMPANY, INC
Owner/operator address: P.O. BOX 2750
HONOLULU, HI 96840
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1893
Owner/Op end date: Not reported

Owner/operator name: HAWAIIAN ELECTRIC CO., INC.
Owner/operator address: PO BOX 2750
CITY NOT REPORTED, HI 99999
Owner/operator country: Not reported
Owner/operator telephone: (808) 548-7311
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: HAWAIIAN ELECTRIC CO., INC.
Owner/operator address: PO BOX 2750
HONOLULU, HI 96840

HAWAIIAN ELECTRIC - HONOLULU GENERATING STATION (Continued) **1000146691**

Owner/operator country: Not reported
Owner/operator telephone: (808) 548-7311
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: HAWAIIAN ELECTRIC COMPANY, INC.
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1893
Owner/Op end date: Not reported

Owner/operator name: HAWAIIAN ELECTRIC COMPANY, INC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1893
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: Yes
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009

HAWAIIAN ELECTRIC - HONOLULU GENERATING STATION (Continued) **1000146691**

. Waste name: MERCURY

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Historical Generators:
Date form received by agency: 02/26/2004
Site name: HONOLULU GENERATING STATION
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D018
. Waste name: BENZENE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P106
. Waste name: SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)

Date form received by agency: 03/19/2003
Site name: HONOLULU GENERATING STATION
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

HAWAIIAN ELECTRIC - HONOLULU GENERATING STATION (Continued) **1000146691**

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

Date form received by agency: 07/29/1993
Site name: HAWAIIAN ELECTRIC CO HONOLULU GEN STE
Classification: Small Quantity Generator

Date form received by agency: 10/15/1992
Site name: HAWAIIAN ELECTRIC CO HONOLULU GEN STE
Classification: Large Quantity Generator

Corrective Action Summary:
Event date: 01/01/1990
Event: CA029ST

Event date: 04/30/1990
Event: CA029EP

Event date: 04/30/1990
Event: CA049PA

Event date: 04/30/1990
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 03/16/1992
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 03/16/1992
Event: Stabilization Measures Evaluation,This facility is not amenable to stabilization activity at the present time for reasons other than 1- it appears to be technically infeasible or inappropriate (NF) or 2- there is a lack of technical information (IN). Reasons for this conclusion may be the status of closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other administrative considerations.

Event date: 04/01/2010
Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

Event date: 12/11/2012
Event: CA550RC

Event date: 12/11/2012
Event: Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been

HAWAIIAN ELECTRIC - HONOLULU GENERATING STATION (Continued) **1000146691**

determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

Facility Has Received Notices of Violations:
Regulation violated: FR - 40 CFR 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 03/18/2003
Date achieved compliance: 03/18/2004
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 05/28/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 03/18/2003
Date achieved compliance: 03/18/2004
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 05/15/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 03/18/2003
Date achieved compliance: 03/18/2004
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/31/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 279.22(c)(1)
Area of violation: Used Oil - Generators
Date violation determined: 03/18/2003
Date achieved compliance: 03/18/2004
Violation lead agency: EPA
Enforcement action: Not reported

HAWAIIAN ELECTRIC - HONOLULU GENERATING STATION (Continued) **1000146691**

Enforcement action date: 05/28/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 279.22(c)(1)
Area of violation: Used Oil - Generators
Date violation determined: 03/18/2003
Date achieved compliance: 03/18/2004
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 05/15/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 279.22(c)(1)
Area of violation: Used Oil - Generators
Date violation determined: 03/18/2003
Date achieved compliance: 03/18/2004
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/31/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 03/31/1986
Date achieved compliance: 05/08/1986
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/31/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 03/18/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Used Oil - Generators
Date achieved compliance: 03/18/2004
Evaluation lead agency: EPA

HAWAIIAN ELECTRIC - HONOLULU GENERATING STATION (Continued) **1000146691**

Evaluation date: 03/18/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 03/18/2004
Evaluation lead agency: EPA

Evaluation date: 03/13/1987
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 09/15/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/31/1986
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 05/08/1986
Evaluation lead agency: EPA

Evaluation date: 02/13/1986
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 07/11/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Hawaiian Electric Company (HECO)-Honolulu Generating Station
HID Number: HID000150680
Facility Registry Identifier: 110000700064
Lead Agency: HEER
Program: State
Project Manager: Unassigned
Hazard Priority: Low
Potential Hazards And Controls: Hazard Present
Island: Oahu
SDAR Environmental Interest Name: Hawaiian Electric Company (HECO)-Honolulu Generating Station
HID Number: HID000150680
Facility Registry Identifier: 110000700064
Lead Agency: HEER
Potential Hazard And Controls: Hazard Present
Priority: Low
Assessment: Response Not Necessary
Response: Not reported
Nature of Contamination: Found: Heavy fuel oil - probably not migrating; no contact hazard due

HAWAIIAN ELECTRIC - HONOLULU GENERATING STATION (Continued) **1000146691**

to soil; may be probable release to surface water - 3/7/1996
Nature of Residual Contamination: Not reported
Use Restrictions: Controls Required to Manage Contamination
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Honolulu Harbor Downtown Unit
Site Closure Type: Not reported
Document Date: Not reported
Document Number: Not reported
Document Subject: Not reported
Project Manager: Unassigned
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

HI SPILLS:
Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19960214-1545
HID Number: HID000150680
Facility Registry Id: 110000700064
Lead and Program: HEER EP&R
ER: No
Units: Honolulu Power Plant HECO Fuel oil storage tanks
Substances: Fuel Oil #6
Less Or Greater Than: Not reported
Numerical Quantity: 1000
Units: Gallons
Activity Type: Response
Activity Lead: Chris Takeno
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Hawaiian Electric Company (HECO)-Honolulu Generating Station
Latitude: 21.305932
Longitude: -157.863652

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19970218-1413
HID Number: HID000150680
Facility Registry Id: 110000700064
Lead and Program: HEER EP&R
ER: Not reported
Units: Honolulu Generating Station
Substances: Turbine Oil
Less Or Greater Than: Not reported
Numerical Quantity: 50
Units: Gallons
Activity Type: Response
Activity Lead: Terry Corpus
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Hawaiian Electric Company (HECO)-Honolulu Generating Station
Latitude: 21.305932
Longitude: -157.863652

Island: Oahu
Supplemental Loc. Text: Not reported

HAWAIIAN ELECTRIC - HONOLULU GENERATING STATION (Continued) **1000146691**

Case Number: 19980415-0845
HID Number: HID000150680
Facility Registry Id: 110000700064
Lead and Program: HEER EP&R
ER: Not reported
Units: HECO-Honolulu Gererating Station
Substances: Fuel Oil
Less Or Greater Than: Not reported
Numerical Quantity: 35
Units: Gallons
Activity Type: Response
Activity Lead: Not reported
Assignment End Date: Not reported
Result: Not reported
File Under: Hawaiian Electric Company (HECO)-Honolulu Generating Station
Latitude: 21.305932
Longitude: -157.863652

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 20011024-1407
HID Number: HID000150680
Facility Registry Id: 110000700064
Lead and Program: HEER EP&R
ER: Not reported
Units: Guzzler Hydraulic Fluid Spill
Substances: Hydraulic Fluid
Less Or Greater Than: Not reported
Numerical Quantity: 10
Units: Gallons
Activity Type: Response
Activity Lead: Not reported
Assignment End Date: Not reported
Result: Not reported
File Under: Hawaiian Electric Company (HECO)-Honolulu Generating Station
Latitude: 21.305932
Longitude: -157.863652

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 20040708-0700
HID Number: HID000150680
Facility Registry Id: 110000700064
Lead and Program: HEER EP&R
ER: No
Units: Honolulu Generating Station Seawater Intake
Substances: Oil Sheen
Less Or Greater Than: <
Numerical Quantity: 1
Units: Gallons
Activity Type: Response
Activity Lead: Paul Chong
Assignment End Date: 2004-07-08 00:00:00
Result: SOSC NFA
File Under: Hawaiian Electric Company (HECO)-Honolulu Generating Station
Latitude: 21.305932
Longitude: -157.863652

HAWAIIAN ELECTRIC - HONOLULU GENERATING STATION (Continued) **1000146691**

Click this hyperlink while viewing on your computer to access
3 additional HI SPILLS: record(s) in the EDR Site Report.

2020 COR ACTION:
EPA ID: HID000150680
Region: 9
Action: Not reported

AIRS:
Facility ID: 0238-01-C
Island: Oahu
Mailing Address: P.O. Box 2750
Locale: Not reported
Business Phone: 543-4522
Mailing City,St,Zip: Honolulu, Hawaii 96840-0001
Contact Name: Karin Kimura
Contact Title: Senior Environmental Scientist
Description: Honolulu Generating StationThis permit encompasses the following equipment and associated appurtenances:HECOUnit No.Description856 MW Babcock and Wilcox Boiler, 589.0 MMBtu/hr957 MW Babcock and Wilcox Boiler, 631.5 MMBtu/hr

HAZNET:
envid: 1000146691
Year: 2013
GEPAID: HID000150680
Contact: DONN FUKUDA
Telephone: 8085435674
Mailing Name: Not reported
Mailing Address: 170 ALA MOANA BLVD
Mailing City,St,Zip: HONOLULU, HI 968130000
Gen County: 99
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.25
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Not reported

envid: 1000146691
Year: 2013
GEPAID: HID000150680
Contact: DONN FUKUDA
Telephone: 8085435674
Mailing Name: Not reported
Mailing Address: 170 ALA MOANA BLVD
Mailing City,St,Zip: HONOLULU, HI 968130000
Gen County: 99
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Not reported

HAWAIIAN ELECTRIC - HONOLULU GENERATING STATION (Continued) **1000146691**

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 2.25
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Not reported

envid: 1000146691
Year: 2013
GEPAID: HID000150680
Contact: DONN FUKUDA
Telephone: 8085435674
Mailing Name: Not reported
Mailing Address: 170 ALA MOANA BLVD
Mailing City,St,Zip: HONOLULU, HI 968130000
Gen County: 99
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0325
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Not reported

envid: 1000146691
Year: 2012
GEPAID: HID000150680
Contact: DONN FUKUDA
Telephone: 8085435674
Mailing Name: Not reported
Mailing Address: 170 ALA MOANA BLVD
Mailing City,St,Zip: HONOLULU, HI 968130000
Gen County: 99
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.075
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: 99

envid: 1000146691
Year: 2012
GEPAID: HID000150680
Contact: DONN FUKUDA
Telephone: 8085435674
Mailing Name: Not reported
Mailing Address: 170 ALA MOANA BLVD
Mailing City,St,Zip: HONOLULU, HI 968130000
Gen County: 99

HAWAIIAN ELECTRIC - HONOLULU GENERATING STATION (Continued) **1000146691**

TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0325
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: 99

Click this hyperlink while viewing on your computer to access
26 additional CA_HAZNET: record(s) in the EDR Site Report.

143 ENE 1/2-1 0.894 mi. 4718 ft. **SAKE BREWERY & ICE CO** **FUDS 1012129410 N/A**

HONOLULU, HI

Relative: Higher

Actual: 164 ft.

FUDS:
Federal Facility ID: HI9799F3867
FUDS #: H09HI0127
INST ID: 57836
Facility Name: SAKE BREWERY & ICE CO
City: HONOLULU
State: HI
EPA Region: 09
County: HONOLULU
Congressional District: 01
US Army District: Honolulu District (POH)
Fiscal Year: 2013
Telephone: 808-835-4004
NPL Status: Not Listed
RAB: Not reported
CTC: 256
Current Owner: Private Sector
Current Prog: Not reported
Future Prog: Not reported
Acreage: Not reported
Description: A PORTION OF THE SITE, SAKE BREWERY AND ICE COMPANY WAS ACQUIRED BY THE ARMY IN MAY 1942 FOR COLD STORAGE OD PERISHABLE ITEMS AND MANUFACTURE OF ICE. THE COMPANY OWNERS WERE ALLOWED TO OPERATE THE SOY SAUCE MANUFACTURING. THE ARMY INSTALLED TWO LARGE AMMONIA REFRIGERATION COMPRESSORS WHICH WAS SUBSEQUENTLY SOLD TO THE OWNERS OF THE SITE FOR ONE DOLLAR. THE COMPRESSORS WERE LATER DISPOSED BY THE OWNERS AT THE END OF THEIR SERVICEABLE LIFE.
History: THE 2.42 ACRE SITE WAS ACQUIRED BY THE ARMY IN MAY 1942. AND LATER SOLD TO THE OWNERS OF THE SITE AROUND 1945 FOR ONE FDOLLAR. THE COMPRESSORS WERE REMOVED IN DECEMBER 1991 AND DEMOLSIHED IN MAR CH 1993.
Latitude: -157.850997925
Longitude: 21.3229999542

144 SE 1/2-1 0.923 mi. 4871 ft. **QUEEN'S MEDICAL CENTER** **HI SHWS 1000490311**
1301 PUNCHBOWL ST **HI LUST N/A**
HONOLULU, HI 96813 **HI UST**
HI AIRS
HI Financial Assurance

Relative: Higher

Actual: 20 ft.

SHWS:
Organization: Not reported
Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Queen's Medical Center UST
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Program: State
Project Manager: Eric Sadoyama
Hazard Priority: NFA
Potential Hazards And Controls: Hazard Undetermined
Island: Oahu
SDAR Environmental Interest Name: Queen's Medical Center UST
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Potential Hazard And Controls: Hazard Undetermined
Priority: NFA
Assessment: Assessment Ongoing
Response: Not reported
Nature of Contamination: Found: Petroleum in soil
Nature of Residual Contamination: No (petroleum in soil) contamination left on site is above EALs.
Use Restrictions: Undetermined
Engineering Control: Not reported
Description of Restrictions: Not reported
Institutional Control: Not reported
Within Designated Areawide Contamination: Not reported
Site Closure Type: No Further Action - Type Undetermined
Document Date: 08/11/2006
Document Number: Not reported
Document Subject: Not reported
Project Manager: Eric Sadoyama
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

LUST:
Facility ID: 9-100901
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 09/24/1999
Release ID: 990096
Project Officer: Richard Takaba

UST:
Facility ID: 9-100901
Owner: THE QUEEN'S MEDICAL CENTER
Owner Address: 1301 Punchbowl Street
Owner City,St,Zip: Honolulu, 96813 96813
Latitude: 21.309010
Longitude: -157.853940
Horizontal Reference Datum Name: NAD83
Horizontal Collection Method Name: GPS

QUEEN'S MEDICAL CENTER (Continued) **1000490311**

Tank ID: M-1
Date Installed: 04/09/1985
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 14000
Substance: Diesel

Tank ID: M-1
Date Installed: 04/09/1985
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 14000
Substance: Diesel

Tank ID: R-4
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 12/17/1998
Tank Capacity: 1000
Substance: Not Listed

Tank ID: R-4
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 12/17/1998
Tank Capacity: 1000
Substance: Not Listed

Tank ID: m-2-Mauka
Date Installed: 12/22/2006
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 20000
Substance: Diesel

Tank ID: m-2-Mauka
Date Installed: 12/22/2006
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 20000
Substance: Diesel

Tank ID: m-3-Makai
Date Installed: 12/22/2006
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 20000
Substance: Diesel

Tank ID: m-3-Makai

QUEEN'S MEDICAL CENTER (Continued) **1000490311**

Date Installed: 12/22/2006
Tank Status: **Currently In Use**
Date Closed: Not reported
Tank Capacity: 20000
Substance: Diesel

AIRS:
Facility ID: 0353-02-C
Island: Oahu
Mailing Address: 1301 Punchbowl Street
Locale: Not reported
Business Phone: 808-691-4426
Mailing City,St,Zip: Honolulu, Hawaii 96813
Contact Name: Bob Laube
Contact Title: Facility Engineer
Description: Four (4) 3,286 bhp Diesel Engine Generators and Two (2) 8.2 MMBtu/hr Steam Boilers1.This attachment encompasses the following equipment and associated appurtenances:a.One (1) 3,286 bhp Caterpillar Diesel Engine Generator set, model no. 3516B, serial no. PBR00266, manufactured in November 2006, unit no. U-1;b.One (1) 3,286 bhp Caterpillar Diesel Engine Generator set, model no. 3516B, serial no. PBR00267, manufactured in November 2006, unit no. U-2;c.One (1) 3,286 bhp Caterpillar Diesel Engine Generator set, model no. 3516B, serial no. PBR00268, manufactured in November 2006, unit no. U-3; andd.One (1) 3,286 bhp Caterpillar Diesel Engine Generator set, model no. 3516B, serial no. PBR00269, manufactured in November 2006, unit no. U-4.Attachment IIB1.This attachment encompasses the following equipment and associated appurtenances:a.One (1) 8.2 MMBtu/hr fire tube steam boilers, Cleaver Brooks model no. CB200-200-150, serial no. OL103324; andb.One (1) 8.2 MMBtu/hr fire tube steam boilers, Cleaver Brooks model no. CB200-200-150, serial no. OL103325.

HI Financial Assurance:
Alt Facility ID: 9-100901
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 06/20/2015

Alt Facility ID: 9-100901
Tank Id: M-1
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 06/20/2015

Alt Facility ID: 9-100901
Tank Id: m-2-Mauka
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 06/20/2015

Alt Facility ID: 9-100901
Tank Id: m-3-Makai
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 06/20/2015

145
East
1/2-1
0.979 mi.
5168 ft.

Relative:
Higher

Actual:
115 ft.

HONOLULU SAKE BREWERY CO, LTD
2150 BOOTH RD
HONOLULU, HI 96813

HI SHWS **U003221588**
HI LUST **N/A**
HI UST
HI SPILLS

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	Honolulu Sake Brewery UST
HID Number:	Not reported
Facility Registry Identifier:	110011657304
Lead Agency:	HEER
Program:	State
Project Manager:	Unassigned
Hazard Priority:	NFA
Potential Hazards And Controls:	Hazard Undetermined
Island:	Oahu
SDAR Environmental Interest Name:	Honolulu Sake Brewery UST
HID Number:	Not reported
Facility Registry Identifier:	110011657304
Lead Agency:	HEER
Potential Hazard And Controls:	Hazard Undetermined
Priority:	NFA
Assessment:	Response Necessary
Response:	Response Complete
Nature of Contamination:	Found: Diesel in soil
Nature of Residual Contamination:	Contamination removed
Use Restrictions:	Undetermined
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Not reported
Site Closure Type:	No Further Action - Type Undetermined
Document Date:	06/30/1997
Document Number:	1997-232-RK
Document Subject:	NFA letter-former Honolulu Sake Brewery
Project Manager:	Unassigned
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

LUST:

Facility ID:	9-100247
Facility Status:	Site Cleanup Completed (NFA)
Facility Status Date:	10/11/1995
Release ID:	930097
Project Officer:	Eric Sadoyama

UST:

Facility ID:	9-100247
Owner:	HONOLULU SAKE BREWERY CO, LTD
Owner Address:	2150 BOOTH RD
Owner City,St,Zip:	Honolulu, 96813 96813
Latitude:	21.321074
Longitude:	-157.847247
Horizontal Reference Datum Name:	NAD83
Horizontal Collection Method Name:	Address Matching

HONOLULU SAKE BREWERY CO, LTD (Continued) **U003221588**

Tank ID:	R-1
Date Installed:	03/21/2046
Tank Status:	**Permanently Out of Use**
Date Closed:	06/15/1993
Tank Capacity:	250
Substance:	Gasoline

Tank ID:	R-2
Date Installed:	03/21/2046
Tank Status:	**Permanently Out of Use**
Date Closed:	06/11/1993
Tank Capacity:	1000
Substance:	Heating Oil

Tank ID:	R-3
Date Installed:	Not reported
Tank Status:	**Permanently Out of Use**
Date Closed:	06/14/1993
Tank Capacity:	2000
Substance:	Diesel

HI SPILLS:

Island:	Oahu
Supplemental Loc. Text:	Not reported
Case Number:	19970602-0830
HID Number:	Not reported
Facility Registry Id:	110011657304
Lead and Program:	HEER EP&R
ER:	No
Units:	Booth Road Sake Brewery UST
Substances:	Petroleum Hydrocarbon
Less Or Greater Than:	Not reported
Numerical Quantity:	Not reported
Units:	Not reported
Activity Type:	Response
Activity Lead:	Bryce Hataoka
Assignment End Date:	Not reported
Result:	Not reported
File Under:	Honolulu Sake Brewery Co Ltd (Former)
Latitude:	21.320683
Longitude:	-157.848391

ORPHAN SUMMARY

Count: 11 records.

City	EDR ID	Site Name	Site Address	Zip	Database(s)
HONOLULU	S117391417	1339 SCHOOL STREET	1339, 1341, 1343 N SCHOOL ST		HI SHWS, HI ENG CONTROLS, HI INST CONTROL
HONOLULU	S111704669	ALA WAI HARBOR BOAT REPAIR YARD	ALA MOANA BLVD		HI SHWS
HONOLULU	S108008729	BEST BUY	ALAKAWA ST & NIMITZ HWY	96817	HI SHWS, HI SPILLS
HONOLULU	S106708609	CANNON CLUB	DIAMOND HEAD RD		HI SHWS, HI BROWNFIELDS
HONOLULU	S108008549	KALANI, HART, MOKUAEA STREET, HONO	HART ST & KALANI ST & MOKUAEA		HI SHWS
HONOLULU	1003879469	PACIFIC RESOURCES, INCORPORATED (G	IWILEI RD	96817	SEMS-ARCHIVE
HONOLULU	1006820337	ABC DISPOSAL COMPANY	2760 KAMEHAMEHA HWY	96819	HI SHWS
HONOLULU	S111704706	FORMER KAPALAMA MILITARY RESERVATI	N NIMITZ HWY		HI SHWS
HONOLULU	S108008765	CITIZENS ENERGY SERVICES PIER 38	NIMITZ HWY		HI SHWS, HI ENG CONTROLS, HI INST CONTROL, HI SPILLS
HONOLULU	S106819311	NIMITZ HIGHWAY WATER IMPROVEMENT P	N NIMITZ HWY	96817	HI SHWS
HONOLULU	S108859926	KOKUA KALIHI VALLEY ACTIVE LIVING	UPPER KALIHI ST		HI SHWS, HI BROWNFIELDS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 04/05/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites
A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 04/05/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens
Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 04/05/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/13/2015
Date Data Arrived at EDR: 01/06/2016
Date Made Active in Reports: 05/20/2016
Number of Days to Update: 135

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/08/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/05/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/05/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34
Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34
Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System
LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13
Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/16/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List
A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53
Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls
A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53
Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 03/30/2016
Date Made Active in Reports: 05/20/2016
Number of Days to Update: 51
Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Sites List
Facilities, sites or areas in which the Office of Hazard Evaluation and Emergency Response has an interest, has investigated or may investigate under HRS 128D (includes CERCLIS sites).

Date of Government Version: 01/22/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/02/2016
Number of Days to Update: 36
Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 02/26/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Permitted Landfills in the State of Hawaii
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/17/2012
Date Data Arrived at EDR: 04/03/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 37
Source: Department of Health
Telephone: 808-586-4245
Last EDR Contact: 04/01/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 01/13/2016
Date Data Arrived at EDR: 01/15/2016
Date Made Active in Reports: 03/02/2016
Number of Days to Update: 47
Source: Department of Health
Telephone: 808-586-4228
Last EDR Contact: 03/04/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Semi-Annually

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/28/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 55
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 08/20/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 111
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/26/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/11/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Varies

UST: Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/13/2016
Date Data Arrived at EDR: 01/15/2016
Date Made Active in Reports: 03/02/2016
Number of Days to Update: 47
Source: Department of Health
Telephone: 808-586-4228
Last EDR Contact: 03/04/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34
Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/26/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/14/2014
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67
Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 08/20/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 111
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Semi-Annually

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Control Sites
A listing of sites with engineering controls in place.

Date of Government Version: 01/22/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/02/2016
Number of Days to Update: 36
Source: Department of Health
Telephone: 404-586-4249
Last EDR Contact: 02/26/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

INST CONTROL: Sites with Institutional Controls
Voluntary Remediation Program and Brownfields sites with institutional controls in place.

Date of Government Version: 01/22/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/02/2016
Number of Days to Update: 36
Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 02/26/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/01/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

VCP: Voluntary Response Program Sites
Sites participating in the Voluntary Response Program. The purpose of the VRP is to streamline the cleanup process in a way that will encourage prospective developers, lenders, and purchasers to voluntarily cleanup properties.

Date of Government Version: 01/22/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/02/2016
Number of Days to Update: 36
Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 02/26/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Sites
With certain legal exclusions and additions, the term 'brownfield site' means real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant.

Date of Government Version: 01/22/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/02/2016
Number of Days to Update: 36
Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 02/26/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/22/2015
Date Data Arrived at EDR: 12/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 57
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/22/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/21/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 76
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/01/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Lab Listing
A listing of clandestine drug lab site locations.

Date of Government Version: 08/04/2010
Date Data Arrived at EDR: 09/10/2010
Date Made Active in Reports: 10/22/2010
Number of Days to Update: 42
Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 76
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/01/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37
Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/26/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 68
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

SPILLS: Release Notifications
Releases of hazardous substances to the environment reported to the Office of Hazard Evaluation and Emergency Response since 1988.

Date of Government Version: 01/14/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/06/2016
Number of Days to Update: 42
Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 03/10/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/11/2013
Number of Days to Update: 39
Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/11/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/15/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/15/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/20/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/01/2015
Date Data Arrived at EDR: 09/03/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/18/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/09/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/12/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/25/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Annually

ROD: Records Of Decision
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74
Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Annually

RMP: Risk Management Plans
When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2015
Date Data Arrived at EDR: 08/26/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 69
Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/25/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35
Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/12/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/12/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31
Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 04/08/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 05/20/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 05/20/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 03/18/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 28
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 05/06/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 04/15/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/11/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/26/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2015
Date Data Arrived at EDR: 07/09/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 69
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/08/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/04/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46
Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

BRS: Biennial Reporting System
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218
Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/26/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34
Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/15/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program
DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 11/23/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 86
Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/09/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites
Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146
Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64
Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/07/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/09/2016
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 44

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/02/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/04/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/04/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 55

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 03/01/2016
Date Data Arrived at EDR: 03/03/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 04/18/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Varies

AIRS: List of Permitted Facilities
A listing of permitted facilities in the state.

Date of Government Version: 04/14/2016
Date Data Arrived at EDR: 04/19/2016
Date Made Active in Reports: 05/17/2016
Number of Days to Update: 28

Source: Department of Health
Telephone: 808-586-4200
Last EDR Contact: 04/04/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Varies

DRYCLEANERS: Permitted Drycleaner Facility Listing
A listing of permitted drycleaner facilities in the state.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 04/19/2016
Date Made Active in Reports: 05/17/2016
Number of Days to Update: 28

Source: Department of Health
Telephone: 808-586-4200
Last EDR Contact: 04/04/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Varies

Financial Assurance: Financial Assurance Information Listing
A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 03/21/2016
Date Data Arrived at EDR: 03/23/2016
Date Made Active in Reports: 05/17/2016
Number of Days to Update: 55

Source: Department of Health
Telephone: 808-586-4226
Last EDR Contact: 03/14/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Varies

UIC: Underground Injection Wells Listing
A listing of underground injection well locations.

Date of Government Version: 02/07/2013
Date Data Arrived at EDR: 02/12/2013
Date Made Active in Reports: 04/09/2013
Number of Days to Update: 56

Source: Department of Health
Telephone: 808-586-4258
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/22/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 05/20/2016
Number of Days to Update: 86

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/20/2015
Date Data Arrived at EDR: 09/23/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 103

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/23/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List
The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health in Hawaii.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/08/2014
Number of Days to Update: 191

Source: Department of Health
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List
The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health in Hawaii.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/17/2014
Number of Days to Update: 200

Source: Department of Health
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank
The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health in Hawaii.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Health
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Office of Planning
Telephone: 808-587-2895

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

MAYOR WRIGHT HONOLULU
1020 LILIHA STREET
HONOLULU, HI 96817

TARGET PROPERTY COORDINATES

Latitude (North):	21.320088 - 21° 19' 12.32''
Longitude (West):	157.863956 - 157° 51' 50.24''
Universal Tranverse Mercator:	Zone 4
UTM X (Meters):	617821.8
UTM Y (Meters):	2357859.2
Elevation:	10 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5941635 HONOLULU, HI
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

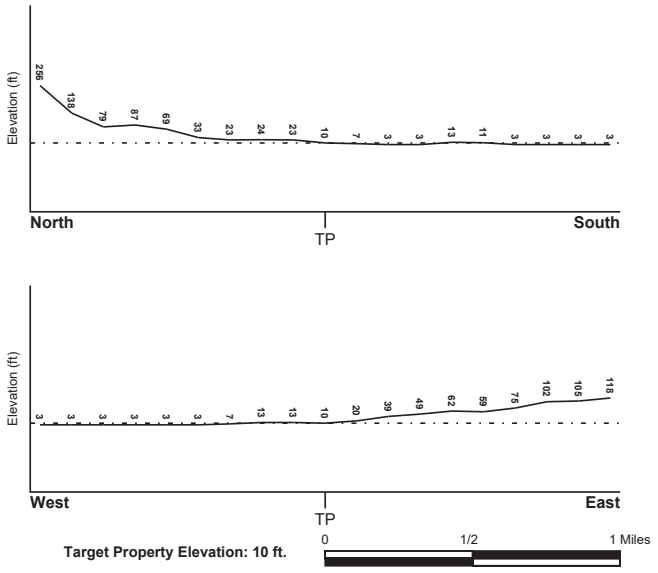
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
HONOLULU, HI	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 15003C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
HONOLULU	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

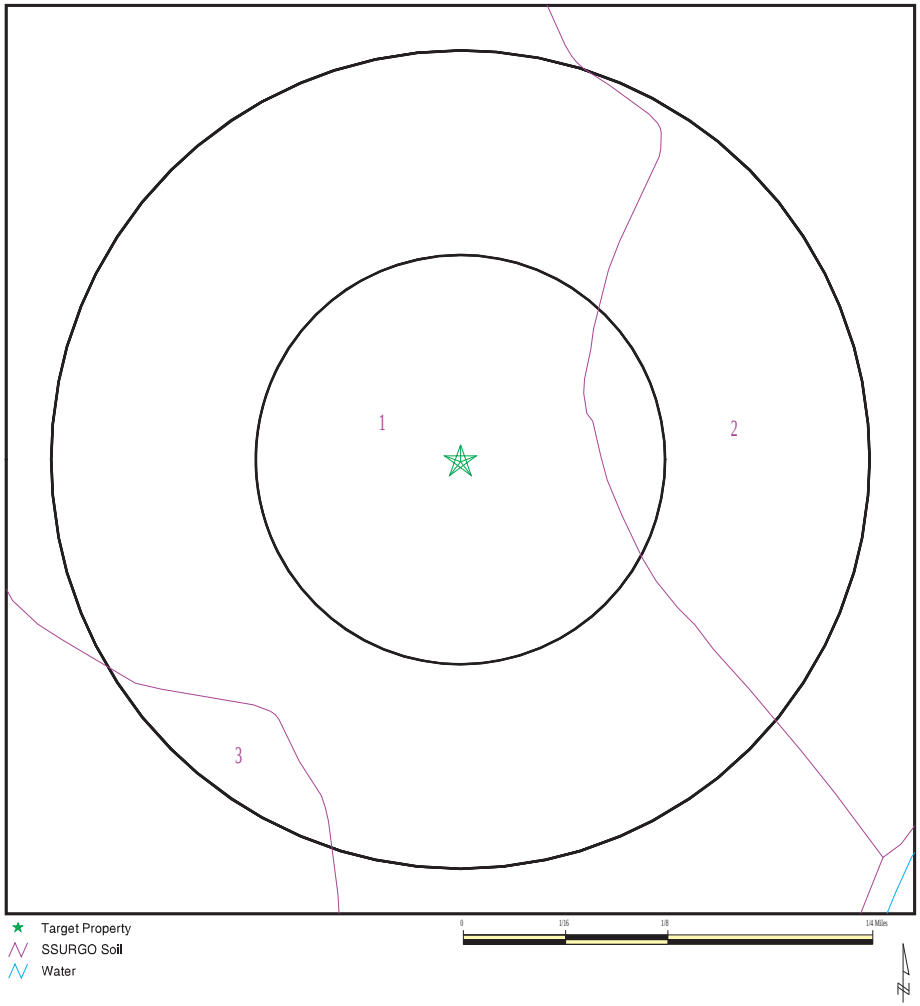
GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT		GEOLOGIC AGE IDENTIFICATION	
Era:	-	Category:	-
System:	-		
Series:	-		
Code:	N/A *(decoded above as Era, System & Series)*		

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4632621.2s



SITE NAME: Mayor Wright Honolulu	CLIENT: Weston Solutions, Inc.
ADDRESS: 1020 Liliha Street	CONTACT: Lisa Waskom
Honolulu HI 96817	INQUIRY #: 4632621.2s
LAT/LONG: 21.320088 / 157.863956	DATE: May 31, 2016 11:23 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Ewa

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-K (proposed)	Max: 14 Min: 4.23	Max: 7.3 Min: 6.6
2	7 inches	29 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-K (proposed)	Max: 14 Min: 4.23	Max: 7.3 Min: 6.6
3	29 inches	38 inches	bedrock	Not reported	Not reported	Max: 42 Min: 1	Max: Min:

Soil Map ID: 2

Soil Component Name: Kaena

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 107 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4.23 Min: 0.42	Max: 7.3 Min: 6.6
2	9 inches	37 inches	stony clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.41 Min: 0.01	Max: 7.3 Min: 6.6
3	37 inches	53 inches	stony clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.41 Min: 0.01	Max: 7.3 Min: 6.6

Soil Map ID: 3

Soil Component Name: Fill land, mixed

Soil Surface Texture: gravelly sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 152 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 1.41	Max: 7.3 Min: 6.1
2	5 inches	59 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 1.41	Max: 7.3 Min: 6.1
3	59 inches	70 inches	bedrock	Not reported	Not reported	Max: 0.42 Min: 0.02	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000269794	1/8 - 1/4 Mile SW
B4	USGS40000269805	1/8 - 1/4 Mile ESE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C5	USGS40000269810	1/8 - 1/4 Mile NW
D7	USGS40000269822	1/8 - 1/4 Mile North
E10	USGS40000269795	1/4 - 1/2 Mile SW
F12	USGS40000269799	1/4 - 1/2 Mile WSW
F13	USGS40000269800	1/4 - 1/2 Mile WSW
F15	USGS40000269801	1/4 - 1/2 Mile WSW
F17	USGS40000269796	1/4 - 1/2 Mile WSW
F20	USGS40000269790	1/4 - 1/2 Mile WSW
F21	USGS40000269802	1/4 - 1/2 Mile WSW
G22	USGS40000269813	1/4 - 1/2 Mile WNW
G23	USGS40000269815	1/4 - 1/2 Mile WNW
G24	USGS40000269816	1/4 - 1/2 Mile WNW
G25	USGS40000269817	1/4 - 1/2 Mile WNW
G34	USGS40000269811	1/4 - 1/2 Mile WNW
G35	USGS40000269812	1/4 - 1/2 Mile WNW
G37	USGS40000269814	1/4 - 1/2 Mile WNW
H41	USGS40000269778	1/4 - 1/2 Mile SW
H42	USGS40000269779	1/4 - 1/2 Mile SW
H43	USGS40000269780	1/4 - 1/2 Mile SW
I45	USGS40000269785	1/4 - 1/2 Mile ESE
H47	USGS40000269768	1/4 - 1/2 Mile SW
H48	USGS40000269771	1/4 - 1/2 Mile SW
J49	USGS40000269850	1/2 - 1 Mile North
H52	USGS40000269763	1/2 - 1 Mile SW
K54	USGS40000269751	1/2 - 1 Mile SW
55	USGS40000269742	1/2 - 1 Mile SSE
L57	USGS40000269772	1/2 - 1 Mile SW
M58	USGS40000269852	1/2 - 1 Mile NNE
J60	USGS40000269853	1/2 - 1 Mile North
J61	USGS40000269854	1/2 - 1 Mile North
N62	USGS40000269788	1/2 - 1 Mile WSW
L67	USGS40000269786	1/2 - 1 Mile WSW
J70	USGS40000269863	1/2 - 1 Mile North
L71	USGS40000269781	1/2 - 1 Mile WSW
O72	USGS40000269731	1/2 - 1 Mile South
N75	USGS40000269789	1/2 - 1 Mile WSW
L76	USGS40000269773	1/2 - 1 Mile WSW
P79	USGS40000269784	1/2 - 1 Mile ESE
Q82	USGS40000269729	1/2 - 1 Mile SSE
Q84	USGS40000269728	1/2 - 1 Mile SSE
S87	USGS40000269888	1/2 - 1 Mile NNW
R88	USGS40000269733	1/2 - 1 Mile SE
T89	USGS40000269855	1/2 - 1 Mile NW
U91	USGS40000269718	1/2 - 1 Mile South
V92	USGS40000269719	1/2 - 1 Mile SSE
T93	USGS40000269864	1/2 - 1 Mile NW
T94	USGS40000269867	1/2 - 1 Mile NW
T95	USGS40000269866	1/2 - 1 Mile NW
T96	USGS40000269865	1/2 - 1 Mile NW
T97	USGS40000269868	1/2 - 1 Mile NW
T98	USGS40000269871	1/2 - 1 Mile NW
T99	USGS40000269870	1/2 - 1 Mile NW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
T100	USGS40000269869	1/2 - 1 Mile NW
U111	USGS40000269713	1/2 - 1 Mile South
W113	USGS40000269711	1/2 - 1 Mile South
U117	USGS40000269708	1/2 - 1 Mile South
S118	USGS40000269899	1/2 - 1 Mile North
V119	USGS40000269717	1/2 - 1 Mile SSE
U121	USGS40000269706	1/2 - 1 Mile South
U122	USGS40000269707	1/2 - 1 Mile South
U123	USGS40000269705	1/2 - 1 Mile South
124	USGS40000269791	1/2 - 1 Mile WSW
X125	USGS40000269893	1/2 - 1 Mile NNW
Y130	USGS40000269715	1/2 - 1 Mile SSE
Y131	USGS40000269716	1/2 - 1 Mile SSE
Z132	USGS40000269704	1/2 - 1 Mile SSE
Y136	USGS40000269712	1/2 - 1 Mile SSE
W137	USGS40000269700	1/2 - 1 Mile South
W138	USGS40000269701	1/2 - 1 Mile South
AA143	USGS40000269697	1/2 - 1 Mile South
AB144	USGS40000269894	1/2 - 1 Mile NNW
AC146	USGS40000269764	1/2 - 1 Mile WSW
AC147	USGS40000269754	1/2 - 1 Mile WSW
149	USGS40000269730	1/2 - 1 Mile SW
AA150	USGS40000269692	1/2 - 1 Mile South
AB151	USGS40000269900	1/2 - 1 Mile NNW
AD155	USGS40000269721	1/2 - 1 Mile SE
AA158	USGS40000269690	1/2 - 1 Mile South
AA159	USGS40000269691	1/2 - 1 Mile South
AE161	USGS40000269703	1/2 - 1 Mile SSE
AE162	USGS40000269699	1/2 - 1 Mile SSE
AF163	USGS40000269693	1/2 - 1 Mile South
AG166	USGS40000269688	1/2 - 1 Mile South
AG167	USGS40000269689	1/2 - 1 Mile South
AF170	USGS40000269684	1/2 - 1 Mile South
AG173	USGS40000269682	1/2 - 1 Mile South
AG174	USGS40000269683	1/2 - 1 Mile South
AH176	USGS40000269695	1/2 - 1 Mile SSE
AG178	USGS40000269679	1/2 - 1 Mile South
AI180	USGS40000269674	1/2 - 1 Mile South
AJ183	USGS40000269819	1/2 - 1 Mile West
AJ184	USGS40000269820	1/2 - 1 Mile West
AK186	USGS40000269666	1/2 - 1 Mile South
AK187	USGS40000269667	1/2 - 1 Mile South

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

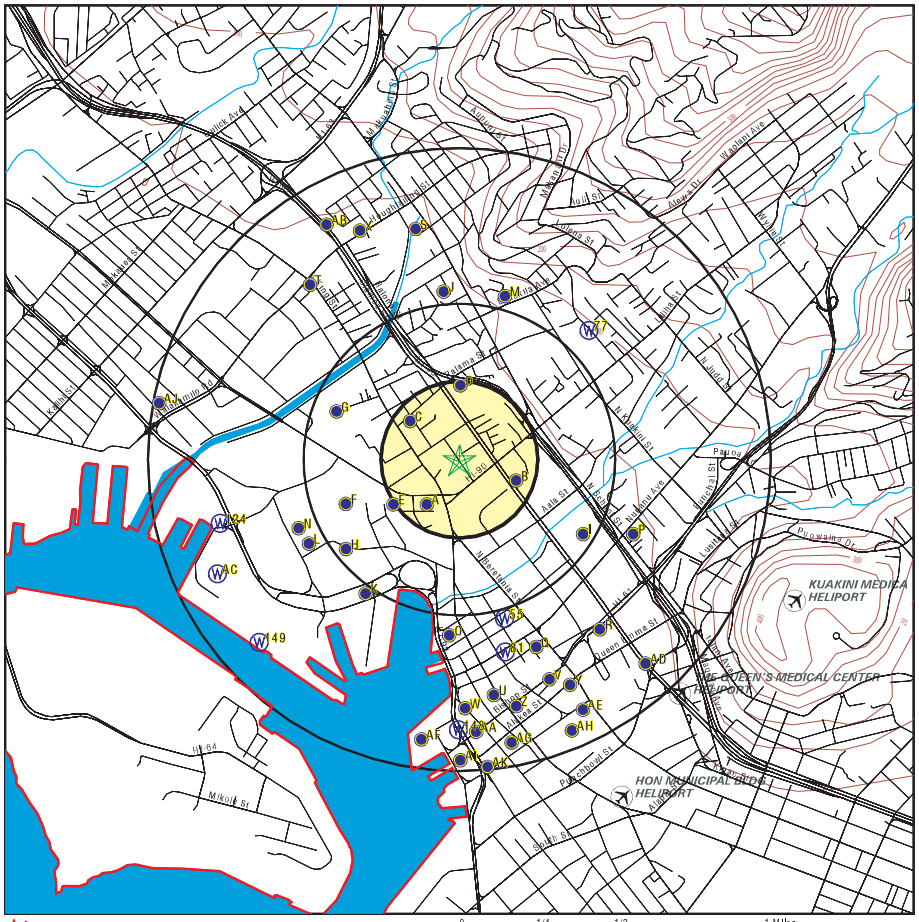
MAP ID	WELL ID	LOCATION FROM TP
A1	HI9000000000921	1/8 - 1/4 Mile SW
B3	HI9000000000916	1/8 - 1/4 Mile ESE
C6	HI9000000000919	1/8 - 1/4 Mile NW
D8	HI9000000000933	1/8 - 1/4 Mile North
E9	HI9000000000941	1/4 - 1/2 Mile WSW
F11	HI9000000000938	1/4 - 1/2 Mile WSW
F14	HI9000000000939	1/4 - 1/2 Mile WSW
F16	HI9000000000929	1/4 - 1/2 Mile WSW
F18	HI9000000000930	1/4 - 1/2 Mile WSW
F19	HI9000000000931	1/4 - 1/2 Mile WSW
G26	HI9000000000959	1/4 - 1/2 Mile WNW
G27	HI9000000000960	1/4 - 1/2 Mile WNW
G28	HI9000000000957	1/4 - 1/2 Mile WNW
G29	HI9000000000958	1/4 - 1/2 Mile WNW
G30	HI9000000000963	1/4 - 1/2 Mile WNW
G31	HI9000000000964	1/4 - 1/2 Mile WNW
G32	HI9000000000961	1/4 - 1/2 Mile WNW
G33	HI9000000000962	1/4 - 1/2 Mile WNW
H36	HI9000000000951	1/4 - 1/2 Mile SW
H38	HI9000000000944	1/4 - 1/2 Mile SW
H39	HI9000000000946	1/4 - 1/2 Mile SW
H40	HI9000000000945	1/4 - 1/2 Mile SW
I44	HI9000000000914	1/4 - 1/2 Mile ESE
H46	HI9000000000949	1/4 - 1/2 Mile SW
J50	HI9000000000922	1/2 - 1 Mile North
H51	HI9000000000950	1/2 - 1 Mile SW
K53	HI9000000000955	1/2 - 1 Mile SW
L56	HI9000000000947	1/2 - 1 Mile WSW
N59	HI9000000000948	1/2 - 1 Mile WSW
M63	HI9000000000915	1/2 - 1 Mile NNE
L64	HI9000000000943	1/2 - 1 Mile WSW
J65	HI9000000000923	1/2 - 1 Mile North
J66	HI9000000000928	1/2 - 1 Mile North
L68	HI9000000000942	1/2 - 1 Mile WSW
O69	HI9000000000813	1/2 - 1 Mile South
J73	HI9000000000927	1/2 - 1 Mile North
N74	HI9000000000932	1/2 - 1 Mile WSW
77	HI9000000000918	1/2 - 1 Mile NE
P78	HI9000000000917	1/2 - 1 Mile ESE
Q80	HI9000000000773	1/2 - 1 Mile SSE
81	HI9000000000775	1/2 - 1 Mile SSE
Q83	HI9000000000786	1/2 - 1 Mile SSE
Q85	HI9000000000777	1/2 - 1 Mile SSE
R86	HI9000000000752	1/2 - 1 Mile SE
U90	HI9000000000785	1/2 - 1 Mile South
U101	HI9000000000776	1/2 - 1 Mile South
T102	HI9000000000926	1/2 - 1 Mile NW
T103	HI9000000000934	1/2 - 1 Mile NW
T104	HI9000000000924	1/2 - 1 Mile NW
T105	HI9000000000925	1/2 - 1 Mile NW
T106	HI9000000000935	1/2 - 1 Mile NW
T107	HI9000000000940	1/2 - 1 Mile NW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
T108	HI9000000000966	1/2 - 1 Mile NW
T109	HI9000000000936	1/2 - 1 Mile NW
T110	HI9000000000937	1/2 - 1 Mile NW
W112	HI9000000000815	1/2 - 1 Mile South
S114	HI9000000001100	1/2 - 1 Mile North
U115	HI9000000000774	1/2 - 1 Mile South
V116	HI9000000000766	1/2 - 1 Mile SSE
U120	HI9000000000788	1/2 - 1 Mile South
Y126	HI9000000000792	1/2 - 1 Mile SSE
Y127	HI9000000000791	1/2 - 1 Mile SSE
Z128	HI9000000000759	1/2 - 1 Mile SSE
X129	HI9000000001091	1/2 - 1 Mile NNW
W133	HI9000000000808	1/2 - 1 Mile South
W134	HI9000000000807	1/2 - 1 Mile South
Y135	HI9000000000741	1/2 - 1 Mile SSE
Z139	HI9000000000784	1/2 - 1 Mile South
Z140	HI9000000000783	1/2 - 1 Mile South
W141	HI9000000000812	1/2 - 1 Mile South
AA142	HI9000000000789	1/2 - 1 Mile South
AB145	HI9000000001092	1/2 - 1 Mile NNW
148	HI9000000000804	1/2 - 1 Mile South
AD152	HI9000000000743	1/2 - 1 Mile SE
AA153	HI9000000000806	1/2 - 1 Mile South
AB154	HI9000000001094	1/2 - 1 Mile NNW
AE156	HI9000000000802	1/2 - 1 Mile SSE
AF157	HI9000000000816	1/2 - 1 Mile South
AE160	HI9000000000797	1/2 - 1 Mile SSE
AG164	HI9000000000778	1/2 - 1 Mile SSE
AG165	HI9000000000779	1/2 - 1 Mile SSE
AF168	HI9000000000817	1/2 - 1 Mile South
AA169	HI9000000000805	1/2 - 1 Mile South
AG171	HI9000000000781	1/2 - 1 Mile SSE
AG172	HI9000000000782	1/2 - 1 Mile SSE
AH175	HI9000000000740	1/2 - 1 Mile SSE
AG177	HI9000000000763	1/2 - 1 Mile South
AI179	HI9000000000818	1/2 - 1 Mile South
AJ181	HI9000000000953	1/2 - 1 Mile West
AJ182	HI9000000000954	1/2 - 1 Mile West
AK185	HI9000000000755	1/2 - 1 Mile South

PHYSICAL SETTING SOURCE MAP - 4632621.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location

SITE NAME: Mayor Wright Honolulu	CLIENT: Weston Solutions, Inc.
ADDRESS: 1020 Liliha Street	CONTACT: Lisa Waskom
Honolulu HI 96817	INQUIRY #: 4632621.2s
LAT/LONG: 21.320088 / 157.863956	DATE: May 31, 2016 11:23 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
A1 **SW** **1/8 - 1/4 Mile** **Lower**	**HI WELLS**	**HI9000000000921**

Wid:	3-1952-003	Island:	Oahu
Well name:	Dillingham Blvd	Old name:	Not Reported
Yr drilled:	1900		
Driller:	Pinkham		
Quad map:	13		
Long83dd:	-157.865556		
Lat83dd:	21.318056		
Gps:	0	Utm:	-1
Owner user:	Not Reported		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	113-	Well type:	Not Reported
Casing dia:	10	Ground el:	5
Well depth:	530		
Solid case:	478	Perf case:	Not Reported
Use:	UNU - Unused		
Use year:	Not Reported		
Init head:	30.1	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	187		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	22.5	Test unit:	C
Pump gpm:	0		
Draft mgy:	36	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-525
Bot solid:	-473	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-007:035
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	02-JAN-00
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000921

	Database	EDR ID Number
A2 **SW** **1/8 - 1/4 Mile** **Lower**	**FED USGS**	**USGS40000269794**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211916157520601		
Monloc name:	3-1952-03 W113 KAPAL		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3179463
Longitude:	-157.8655898	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19000101	Welldepth:	524
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

B3
ESE
1/8 - 1/4 Mile
Higher

HI WELLS **HI9000000000916**

Wid:	3-1951-003	Island:	Oahu
Well name:	Vineyard Blvd	Old name:	Not Reported
Yr drilled:	1905		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.861111		
Lat83dd:	21.319167		
Gps:	0	Utm:	-1
Owner user:	The Salvation Army		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	112-	Well type:	Not Reported
Casing dia:	10	Ground el:	23
Well depth:	1029		
Solid case:	1009	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	29.6	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	70		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RA		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-1006
Bot solid:	-986	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-05
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000916

Map ID
Direction
Distance
Elevation — Database — EDR ID Number

B4
ESE
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000269805**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211920157515001		
Monloc name:	3-1951-03 W112		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3190572
Longitude:	-157.8611455	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	23.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19050101	Welldepth:	1029
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

C5
NW
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000269810**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211930157520901		
Monloc name:	3-1952-01 W121 KAPAL		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3218349
Longitude:	-157.8664232	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	21.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	18820101	Welldepth:	384
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

C6
NW
1/8 - 1/4 Mile
Higher

HI WELLS **HI9000000000919**

Wid:	3-1952-001	Island:	Oahu
Well name:	N King St	Old name:	Not Reported
Yr drilled:	1882		
Driller:	Not Reported		
Quad map:	13		
Long83dd:	-157.866389		
Lat83dd:	21.321944		
Gps:	0	Utm:	-1
Owner user:	Hawaiian Evangelic		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	121-	Well type:	Not Reported
Casing dia:	5	Ground el:	21
Well depth:	384		
Solid case:	294	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	31.4	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	179		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-363
Bot solid:	-273	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	30-DEC-99
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000919

D7
North
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000269822**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211936157520001		
Monloc name:	3-1952-15 W122 KAPAL		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3235014
Longitude:	-157.863923	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	27.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19240501	Welldepth:	335
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

D8
North
1/8 - 1/4 Mile
Higher

HI WELLS **HI9000000000933**

Wid:	3-1952-015	Island:	Oahu
Well name:	Palama Settlement	Old name:	Vineyard Blvd
Yr drilled:	1924		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.863889		
Lat83dd:	21.323611		
Gps:	0	Utm:	-1
Owner user:	Palama Settlement		
Land owner:	Palama Settlement		
Pump insta:	Not Reported		
Old number:	122-	Well type:	Not Reported
Casing dia:	12	Ground el:	27
Well depth:	335		
Solid case:	200	Perf case:	Not Reported
Use:	IRR - Other		
Use year:	Not Reported		
Init head:	27.8	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	126		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	150		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-308
Bot solid:	-173	Bot perf:	Not Reported
Spec capac:	Not Reported		

Pump mgd:	.216		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-7-045:001
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-24
Pir:	8/26/2010		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000933

E9
WSW
1/4 - 1/2 Mile
Lower

HI WELLS **HI9000000000941**

Wid:	3-1952-023	Island:	Oahu
Well name:	Kapalama	Old name:	Not Reported
Yr drilled:	1939		
Driller:	W. Mullin		
Quad map:	13		
Long83dd:	-157.867222		
Lat83dd:	21.318056		
Gps:	0	Utm:	-1
Owner user:	Not Reported		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	114-1	Well type:	Not Reported
Casing dia:	8	Ground el:	4
Well depth:	100		
Solid case:	52	Perf case:	Not Reported
Use:	UNU - Unused		
Use year:	Not Reported		
Init head:	1.5	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	1380		
Test date:	Not Reported	Test gpm:	110
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RF		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-96
Bot solid:	-48	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-39
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000941

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E10
SW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000269795**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211916157521201		
Monloc name:	3-1952-23 W114-1 KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3179463
Longitude:	-157.8672565	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	4.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19390424	Welldepth:	100
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

F11
WSW
1/4 - 1/2 Mile
Lower

HI WELLS **HI9000000000938**

Wid:	3-1952-020	Island:	Oahu
Well name:	Kapalama 3	Old name:	Not Reported
Yr drilled:	1927		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.869167		
Lat83dd:	21.318333		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke, Inc.		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	115-	Well type:	Not Reported
Casing dia:	10	Ground el:	5
Well depth:	540		
Solid case:	485	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported

Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-535
Bot solid:	-480	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-012:005
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-27
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000938

F12
WSW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000269799**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211917157521901		
Monloc name:	3-1952-20 W115 KAPAL		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3182241
Longitude:	-157.8692009	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19270101	Welldepth:	540
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

F13
WSW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000269800**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211917157522000		
Monloc name:	3-1952-11 ,13,20,21		
Monloc type:	Well: Multiple wells		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3182241
Longitude:	-157.8694786	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Unknown		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

F14
WSW
1/4 - 1/2 Mile
Lower

HI WELLS **HI9000000000939**

Wid:	3-1952-021	Island:	Oahu
Well name:	Kapalama 4	Old name:	Not Reported
Yr drilled:	1927		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.869722		
Lat83dd:	21.318333		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke, Inc.		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	116-	Well type:	Not Reported
Casing dia:	10	Ground el:	4
Well depth:	612		
Solid case:	486	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	76		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-608
Bot solid:	-482	Bot perf:	Not Reported
Spec capac:	Not Reported		

Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-012:005
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-27
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000939

F15
WSW **FED USGS** **USGS40000269801**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211917157522101		
Monloc name:	3-1952-21 W116 KAPAL		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3182241
Longitude:	-157.8697564	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	4.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19270101	Welldepth:	612
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

F16
WSW **HI WELLS** **HI9000000000929**
1/4 - 1/2 Mile
Lower

Wid:	3-1952-011	Island:	Oahu
Well name:	Kapalama 1	Old name:	Not Reported
Yr drilled:	1913		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.869722		
Lat83dd:	21.318056		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke, Inc.		
Land owner:	Not Reported		

Pump insta:	Not Reported		
Old number:	117-	Well type:	Not Reported
Casing dia:	8	Ground el:	5
Well depth:	513		
Solid case:	492	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	31	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	200		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	909	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-508
Bot solid:	-487	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-012:005
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-13
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000929

F17
WSW **FED USGS** **USGS40000269796**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211916157522101		
Monloc name:	3-1952-11 W117 KAPAL		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3179463
Longitude:	-157.8697564	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19130301	Welldepth:	513
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

F18
WSW
1/4 - 1/2 Mile
Lower

HI WELLS **HI9000000000930**

Wid:	3-1952-012	Island:	Oahu
Well name:	Kapalama	Old name:	Not Reported
Yr drilled:	1920		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.869444		
Lat83dd:	21.317222		
Gps:	0	Utm:	-1
Owner user:	Not Reported		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	114-	Well type:	Not Reported
Casing dia:	9	Ground el:	6
Well depth:	599		
Solid case:	528	Perf case:	Not Reported
Use:	UNU - Unused		
Use year:	Not Reported		
Init head:	28.2	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	170		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	22.7	Test unit:	C
Pump gpm:	900		
Draft mgy:	85	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-593
Bot solid:	-522	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	1.296		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-012:001
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-20
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000930

F19
WSW
1/4 - 1/2 Mile
Lower

HI WELLS **HI9000000000931**

Wid:	3-1952-013	Island:	Oahu
Well name:	Kapalama 2	Old name:	Not Reported
Yr drilled:	1923		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.87		
Lat83dd:	21.318333		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke, Inc.		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	118-	Well type:	Not Reported
Casing dia:	10	Ground el:	4
Well depth:	650		
Solid case:	550	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	28.4	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	156		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-646
Bot solid:	-546	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-012:005
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-23
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000931

F20
WSW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000269790**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211913157522001		
Monloc name:	3-1952-12 W114 KAPAL		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3171131
Longitude:	-157.8694786	Sourcemap scale:	24000

Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5.00
Vert measure units:	feet	Vertacc measure val:	.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19200101	Welldepth:	610
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1923-12-21	-23.20	

F21
WSW **FED USGS** **USGS40000269802**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211917157522201		
Monloc name:	3-1952-13 W118 KAPAL		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3182241
Longitude:	-157.8700342	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	4.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19230701	Welldepth:	650
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

G22
WNW **FED USGS** **USGS40000269813**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211931157522201		
Monloc name:	3-1952-42 HON COMM COLLEGE		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3221127
Longitude:	-157.8700342	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	9.0
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19870515	Welldepth:	39
Welldepth units:	ft	Wellholedepth:	39
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

G23
WNW **FED USGS** **USGS40000269815**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211932157522201		
Monloc name:	3-1952-40 HON COMM COLLEGE P-1 dup1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3223905
Longitude:	-157.8700342	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	9.
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19870512	Welldepth:	34
Welldepth units:	ft	Wellholedepth:	35
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1987-05-12	9.0	

G24
WNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000269816**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211932157522202		
Monloc name:	3-1952-41 HON COMM COLLEGE		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3223905
Longitude:	-157.8700342	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	9.0
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19870515	Welldepth:	39
Welldepth units:	ft	Wellholedepth:	39
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

G25
WNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000269817**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211932157522203		
Monloc name:	3-1952-46 HON COMM COLLEGE		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3223905
Longitude:	-157.8700342	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	9.0
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19870515	Welldepth:	31
Welldepth units:	ft	Wellholedepth:	31
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

G26
WNW
1/4 - 1/2 Mile
Lower

HI WELLS **HI9000000000959**

Wid:	3-1952-041	Island:	Oahu
Well name:	HCC O-1	Old name:	Not Reported
Yr drilled:	1987		
Driller:	Walter Lum		
Quad map:	13		
Long83dd:	-157.87		
Lat83dd:	21.3225		
Gps:	0	Utm:	-1
Owner user:	Honolulu Community College		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	Not Reported	Well type:	ROT
Casing dia:	2	Ground el:	9
Well depth:	39		
Solid case:	5	Perf case:	39
Use:	Other		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-30
Bot solid:	4	Bot perf:	-30
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-018:002
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	15-MAY-87
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000959

G27
WNW
1/4 - 1/2 Mile
Lower

HI WELLS **HI9000000000960**

Wid:	3-1952-042	Island:	Oahu
Well name:	HCC O-2	Old name:	Not Reported
Yr drilled:	1987		
Driller:	Walter Lum		
Quad map:	13		
Long83dd:	-157.87		
Lat83dd:	21.3225		
Gps:	0	Utm:	-1
Owner user:	Honolulu Community College		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	Not Reported	Well type:	ROT
Casing dia:	2	Ground el:	9
Well depth:	39		
Solid case:	5	Perf case:	39
Use:	Other		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-30
Bot solid:	4	Bot perf:	-30
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-018:002
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	15-MAY-87
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000960

G28
WNW
1/4 - 1/2 Mile
Lower

HI WELLS **HI9000000000957**

Wid:	3-1952-039	Island:	Oahu
Well name:	HCC Aqua Cltr A	Old name:	Not Reported
Yr drilled:	1983		
Driller:	Frederick Page (Fred Page Drilling International, Inc.)		
Quad map:	13		
Long83dd:	-157.87		
Lat83dd:	21.3225		
Gps:	0	Utm:	-1
Owner user:	Honolulu Community College		
Land owner:	Not Reported		

Pump insta:	Not Reported		
Old number:	Not Reported	Well type:	PER
Casing dia:	18	Ground el:	9
Well depth:	35		
Solid case:	Not Reported	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	40		
Draft mgy:	37	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	1982		
Draft yr:	Not Reported	Bot hole:	-26
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	.057		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-018:001
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-83
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000957

G29
WNW
1/4 - 1/2 Mile
Lower

HI WELLS **HI9000000000958**

Wid:	3-1952-040	Island:	Oahu
Well name:	HCC P-1	Old name:	Not Reported
Yr drilled:	1987		
Driller:	Walter Lum		
Quad map:	13		
Long83dd:	-157.87		
Lat83dd:	21.3225		
Gps:	0	Utm:	-1
Owner user:	Honolulu Community College		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	Not Reported	Well type:	ROT
Casing dia:	6	Ground el:	9
Well depth:	34		
Solid case:	10	Perf case:	34
Use:	Other		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported

Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-25
Bot solid:	-1	Bot perf:	-25
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-018:002
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	15-MAY-87
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000958

G30
WNW
1/4 - 1/2 Mile
Lower

HI WELLS **HI9000000000963**

Wid:	3-1952-045	Island:	Oahu
Well name:	HCC O-5	Old name:	Not Reported
Yr drilled:	1987		
Driller:	Walter Lum		
Quad map:	13		
Long83dd:	-157.87		
Lat83dd:	21.3225		
Gps:	0	Utm:	-1
Owner user:	Honolulu Community College		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	Not Reported	Well type:	ROT
Casing dia:	2	Ground el:	9
Well depth:	39		
Solid case:	5	Perf case:	39
Use:	Other		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-30
Bot solid:	4	Bot perf:	-30
Spec capac:	Not Reported		

Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-018:002
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	15-MAY-87
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000963

G31
WNW
1/4 - 1/2 Mile
Lower

HI WELLS **HI9000000000964**

Wid:	3-1952-046	Island:	Oahu
Well name:	HCC O-6	Old name:	Not Reported
Yr drilled:	1987		
Driller:	Walter Lum		
Quad map:	13		
Long83dd:	-157.87		
Lat83dd:	21.3225		
Gps:	0	Utm:	-1
Owner user:	Honolulu Community College		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	Not Reported	Well type:	ROT
Casing dia:	1	Ground el:	9
Well depth:	31		
Solid case:	Not Reported	Perf case:	Not Reported
Use:	OBS - Observation		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-22
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-018:002
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	15-MAY-87
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000964

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
G32		
WNW	**HI WELLS**	**HI9000000000961**
1/4 - 1/2 Mile		
Lower		

Wid:	3-1952-043	Island:	Oahu
Well name:	HCC O-3	Old name:	Not Reported
Yr drilled:	1987		
Driller:	Walter Lum		
Quad map:	13		
Long83dd:	-157.87		
Lat83dd:	21.3225		
Gps:	0	Utm:	-1
Owner user:	Honolulu Community College		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	Not Reported	Well type:	ROT
Casing dia:	2	Ground el:	9
Well depth:	39		
Solid case:	5	Perf case:	39
Use:	Other		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-30
Bot solid:	4	Bot perf:	-30
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-018:002
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	15-MAY-87
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000961

	Database	EDR ID Number
G33		
WNW	**HI WELLS**	**HI9000000000962**
1/4 - 1/2 Mile		
Lower		

Wid:	3-1952-044	Island:	Oahu
Well name:	HCC O-4	Old name:	Not Reported
Yr drilled:	1987		
Driller:	Walter Lum		
Quad map:	13		
Long83dd:	-157.87		
Lat83dd:	21.3225		
Gps:	0	Utm:	-1
Owner user:	Honolulu Community College		
Land owner:	Not Reported		

Pump insta:	Not Reported		
Old number:	Not Reported	Well type:	ROT
Casing dia:	2	Ground el:	9
Well depth:	39		
Solid case:	5	Perf case:	39
Use:	Other		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-30
Bot solid:	4	Bot perf:	-30
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-018:002
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	15-MAY-87
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000962

	Database	EDR ID Number
G34		
WNW	**FED USGS**	**USGS40000269811**
1/4 - 1/2 Mile		
Lower		

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211930157522301		
Monloc name:	3-1952-39 HON COMM COLLEGE		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.321835
Longitude:	-157.870312	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	9.0
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	1981	Welldepth:	40
Welldepth units:	ft	Wellholedepth:	40
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

G35
WNW **FED USGS** **USGS40000269812**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211930157522302		
Monloc name:	3-1952-45 HON COMM COLLEGE		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.321835
Longitude:	-157.870312	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	9.0
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19870515	Welldepth:	39
Welldepth units:	ft	Wellholedepth:	39
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

H36
SW **HI WELLS** **HI9000000000951**
1/4 - 1/2 Mile
Lower

Wid:	3-1952-033	Island:	Oahu
Well name:	Kapalama Battery	Old name:	Not Reported
Yr drilled:	1978		
Driller:	Roscoe Moss Hawaii Inc		
Quad map:	13		
Long83dd:	-157.868889		
Lat83dd:	21.315833		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke, Inc.		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	117-4	Well type:	Not Reported
Casing dia:	14	Ground el:	Not Reported
Well depth:	40		
Solid case:	20	Perf case:	Not Reported
Use:	IND - Industrial		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	17000		
Test date:	Not Reported	Test gpm:	Not Reported

Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RF		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-011:004
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-78
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	0	Site id:	HI9000000000951

G37
WNW **FED USGS** **USGS40000269814**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211931157522301		
Monloc name:	3-1952-44 HON COMM COLLEGE		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3221127
Longitude:	-157.870312	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	9.0
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19870515	Welldepth:	39
Welldepth units:	ft	Wellholedepth:	39
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

H38
SW **HI WELLS** **HI9000000000944**
1/4 - 1/2 Mile
Lower

Wid:	3-1952-026	Island:	Oahu
Well name:	Kapalama Battery	Old name:	Not Reported
Yr drilled:	1950		
Driller:	W. Mullin		
Quad map:	13		
Long83dd:	-157.869444		
Lat83dd:	21.316389		
Gps:	0	Utm:	-1
Owner user:	Lone Star Hawaii Prop., Inc.		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	114-A	Well type:	Not Reported
Casing dia:	18	Ground el:	Not Reported
Well depth:	36		
Solid case:	Not Reported	Perf case:	Not Reported
Use:	IND - Industrial		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	600		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RF		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	.864		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-012:003
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-50
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000944

H39
SW
1/4 - 1/2 Mile
Lower

HI WELLS **HI9000000000946**

Wid:	3-1952-028	Island:	Oahu
Well name:	Kapalama Battery	Old name:	Not Reported
Yr drilled:	1950		
Driller:	W. Mullin		
Quad map:	13		
Long83dd:	-157.869444		
Lat83dd:	21.316389		
Gps:	0	Utm:	-1
Owner user:	Lone Star Hawaii Prop., Inc.		
Land owner:	Not Reported		

Pump insta:	Not Reported		
Old number:	114-C	Well type:	Not Reported
Casing dia:	18	Ground el:	Not Reported
Well depth:	35		
Solid case:	Not Reported	Perf case:	Not Reported
Use:	IND - Industrial		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RF		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-012:003
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-50
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000946

H40
SW
1/4 - 1/2 Mile
Lower

HI WELLS **HI9000000000945**

Wid:	3-1952-027	Island:	Oahu
Well name:	Kapalama Battery	Old name:	Not Reported
Yr drilled:	1950		
Driller:	W. Mullin		
Quad map:	13		
Long83dd:	-157.869444		
Lat83dd:	21.316389		
Gps:	0	Utm:	-1
Owner user:	Lone Star Hawaii Prop., Inc.		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	114-B	Well type:	Not Reported
Casing dia:	18	Ground el:	Not Reported
Well depth:	35		
Solid case:	Not Reported	Perf case:	Not Reported
Use:	IND - Industrial		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported

Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RK		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-012:003
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-50
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000945

H41
SW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000269778**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211910157522001		
Monloc name:	3-1952-26 W114-A KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3162798
Longitude:	-157.8694786	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19500106	Welldepth:	36
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

H42
SW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000269779**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211910157522002		
Monloc name:	3-1952-27 W114-B KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3162798
Longitude:	-157.8694786	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19500106	Welldepth:	35
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

H43
SW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000269780**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211910157522003		
Monloc name:	3-1952-28 W114-C KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3162798
Longitude:	-157.8694786	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19500106	Welldepth:	35
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
I44 **ESE** **1/4 - 1/2 Mile** **Higher**	**HI WELLS**	**HI9000000000914**

Wid:	3-1951-001	Island:	Oahu
Well name:	Botanic Garden	Old name:	Not Reported
Yr drilled:	1883		
Driller:	Not Reported		
Quad map:	13		
Long83dd:	-157.857778		
Lat83dd:	21.316667		
Gps:	0	Utm:	-1
Owner user:	Department of Parks and Recreation, Honolulu, DPR		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	109-	Well type:	Not Reported
Casing dia:	8	Ground el:	35
Well depth:	767		
Solid case:	Not Reported	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	31.4	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	55		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-732
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-7-008:002
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	30-DEC-99
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000914

	Database	EDR ID Number
I45 **ESE** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000269785**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211911157513801		
Monloc name:	3-1951-01 W109 DWNTN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3165573
Longitude:	-157.8578123	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	35.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	18830101	Welldepth:	767
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

	Database	EDR ID Number
H46 **SW** **1/4 - 1/2 Mile** **Lower**	**HI WELLS**	**HI9000000000949**

Wid:	3-1952-031	Island:	Oahu
Well name:	Kapalama Battery	Old name:	Not Reported
Yr drilled:	1954		
Driller:	Samson/Smock		
Quad map:	13		
Long83dd:	-157.869722		
Lat83dd:	21.315556		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke, Inc.		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	117-2	Well type:	Not Reported
Casing dia:	14	Ground el:	Not Reported
Well depth:	42		
Solid case:	20	Perf case:	Not Reported
Use:	IND - Industrial		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RT		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-011:004
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-54
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000949

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H47
SW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000269768**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211907157522101		
Monloc name:	3-1952-31 W117-2 KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3154465
Longitude:	-157.8697564	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	4.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19541127	Welldepth:	42
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

H48
SW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000269771**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211908157522201		
Monloc name:	3-1952-33 W117-4 KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3157243
Longitude:	-157.8700342	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19570209	Welldepth:	40
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

J49
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000269850**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211950157520201		
Monloc name:	3-1952-04 W124 KAPAL		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3273902
Longitude:	-157.8644786	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	16.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19000101	Welldepth:	150
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

J50
North
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000922**

Wid:	3-1952-004	Island:	Oahu
Well name:	Kapalama	Old name:	Not Reported
Yr drilled:	1900		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.864444		
Lat83dd:	21.3275		
Gps:	0	Utm:	-1
Owner user:	Not Reported		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	124-	Well type:	Not Reported
Casing dia:	8	Ground el:	16
Well depth:	150		
Solid case:	Not Reported	Perf case:	Not Reported
Use:	OBS - Observation		
Use year:	Not Reported		
Init head:	30.1	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	118		
Test date:	Not Reported	Test gpm:	Not Reported

Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	22.5	Test unit:	C
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-134
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-6-006:002
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	02-JAN-00
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000922

H51
SW
1/2 - 1 Mile
Lower

HI WELLS **HI9000000000950**

Wid:	3-1952-032	Island:	Oahu
Well name:	Kapalama Battery	Old name:	Not Reported
Yr drilled:	1957		
Driller:	Samson/Smock		
Quad map:	13		
Long83dd:	-157.87		
Lat83dd:	21.315278		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke, Inc.		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	117-3	Well type:	Not Reported
Casing dia:	14	Ground el:	Not Reported
Well depth:	40		
Solid case:	20	Perf case:	Not Reported
Use:	UNU - Unused		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	17000		
Test date:	Not Reported	Test gpm:	750
Test ddown:	1.5	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RF		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	500		

Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-011:004
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-57
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000950

H52
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000269763**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211906157522201		
Monloc name:	3-1952-32 W117-3 KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3151688
Longitude:	-157.8700342	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	4.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19570209	Welldepth:	40
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

K53
SW
1/2 - 1 Mile
Lower

HI WELLS **HI9000000000955**

Wid:	3-1952-037	Island:	Oahu
Well name:	Kapalama	Old name:	Not Reported
Yr drilled:	1972		
Driller:	Continental Drilling Hawaii, Inc		
Quad map:	13		
Long83dd:	-157.868611		
Lat83dd:	21.313889		
Gps:	0	Utm:	-1
Owner user:	Union Oil Co.		
Land owner:	Not Reported		

Pump insta:	Not Reported		
Old number:	Not Reported	Well type:	Not Reported
Casing dia:	6	Ground el:	Not Reported
Well depth:	109		
Solid case:	43	Perf case:	Not Reported
Use:	UNU - Unused		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	10/13/1972	Test gpm:	22
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RT		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-039:012
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	13-OCT-72
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000955

K54
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000269751**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211901157521701		
Monloc name:	3-1952.02 -37		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.31378
Longitude:	-157.8686453	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5.00
Vert measure units:	feet	Vertacc measure val:	3
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19721013	Welldepth:	109
Welldepth units:	ft	Wellholedepth:	109
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1972-10-13	8.00	

55
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000269742**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211857157515201		
Monloc name:	3-1851-39 W100 DWNTN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3126688
Longitude:	-157.861701	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	21.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19370101	Welldepth:	60
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

L56
WSW
1/2 - 1 Mile
Lower

HI WELLS **HI9000000000947**

Wid:	3-1952-029	Island:	Oahu
Well name:	Kapalama Battery	Old name:	Not Reported
Yr drilled:	1951		
Driller:	Samson/Smock		
Quad map:	13		
Long83dd:	-157.870833		
Lat83dd:	21.315833		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke, Inc.		
Land owner:	Not Reported		

Pump insta:	Not Reported		
Old number:	117-1	Well type:	Not Reported
Casing dia:	14	Ground el:	Not Reported
Well depth:	40		
Solid case:	37	Perf case:	Not Reported
Use:	UNU - Unused		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RF		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-010:010
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-51
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000947

L57
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000269772**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211908157522501		
Monloc name:	3-1952-29 W117-1 KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3157243
Longitude:	-157.8708675	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	4.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19510607	Welldepth:	40
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

M58
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000269852**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211951157515201		
Monloc name:	3-1951-02 W123 KAM H		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3276679
Longitude:	-157.8617008	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	50.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	18940101	Welldepth:	120
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

N59
WSW
1/2 - 1 Mile
Lower

HI WELLS **HI9000000000948**

Wid:	3-1952-030	Island:	Oahu
Well name:	Kapalama	Old name:	Not Reported
Yr drilled:	1951		
Driller:	Layne International		
Quad map:	13		
Long83dd:	-157.871667		
Lat83dd:	21.316944		
Gps:	0	Utm:	-1
Owner user:	Gasco Inc.		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	119-3	Well type:	Not Reported
Casing dia:	16	Ground el:	7
Well depth:	75		
Solid case:	51	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	12600		
Test date:	Not Reported	Test gpm:	810

Test ddown:	3	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RF		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-68
Bot solid:	-44	Bot perf:	Not Reported
Spec capac:	270		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-012:006
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-51
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000948

J60
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000269853**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211952157520301		
Monloc name:	3-1952-05 W125 KAPAL		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3279457
Longitude:	-157.8647563	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	22.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19000101	Welldepth:	130
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

J61
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000269854**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211952157520401		
Monloc name:	3-1952-10 W127 KAPAL		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3279457
Longitude:	-157.865034	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	22.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	251
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

N62
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000269788**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211912157522801		
Monloc name:	3-1952.01A -30/W119-		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3168354
Longitude:	-157.8717008	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	6.90
Vert measure units:	feet	Vertacc measure val:	.02
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19511214	Welldepth:	51
Welldepth units:	ft	Wellholedepth:	75
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
M63 **NNE** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI9000000000915**

Wid:	3-1951-002	Island:	Oahu
Well name:	Lanakila	Old name:	Not Reported
Yr drilled:	1894		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.861667		
Lat83dd:	21.327778		
Gps:	0	Utm:	-1
Owner user:	Not Reported		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	123-	Well type:	Not Reported
Casing dia:	8	Ground el:	50
Well depth:	120		
Solid case:	90	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RA		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-70
Bot solid:	-40	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	30-DEC-99
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000915

	Database	EDR ID Number
L64 **WSW** **1/2 - 1 Mile** **Lower**	**HI WELLS**	**HI9000000000943**

Wid:	3-1952-025	Island:	Oahu
Well name:	Kapalama	Old name:	Not Reported
Yr drilled:	1947		
Driller:	W. Mullin		
Quad map:	13		
Long83dd:	-157.871667		
Lat83dd:	21.316667		
Gps:	0	Utm:	-1
Owner user:	Gasco Inc.		
Land owner:	Not Reported		

Pump insta:	Not Reported		
Old number:	119-2	Well type:	Not Reported
Casing dia:	16	Ground el:	Not Reported
Well depth:	81		
Solid case:	42	Perf case:	Not Reported
Use:	ABN - Lost		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	16200		
Test date:	Not Reported	Test gpm:	1500
Test ddown:	3.2	Test chlor:	17600
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RF		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	469		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-012:006
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-47
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000943

	Database	EDR ID Number
J65 **North** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI9000000000923**

Wid:	3-1952-005	Island:	Oahu
Well name:	Kapalama	Old name:	Not Reported
Yr drilled:	1900		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.864722		
Lat83dd:	21.328056		
Gps:	0	Utm:	-1
Owner user:	Kamehameha Schools		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	125-	Well type:	Not Reported
Casing dia:	7	Ground el:	22
Well depth:	130		
Solid case:	64	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	32	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	123		
Test date:	Not Reported	Test gpm:	Not Reported

Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-108
Bot solid:	-42	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	02-JAN-00
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000923

J66
North
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000928**

Wid:	3-1952-010	Island:	Oahu
Well name:	Kapalama	Old name:	Not Reported
Yr drilled:	1901		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.865		
Lat83dd:	21.328056		
Gps:	0	Utm:	-1
Owner user:	T. Ishimoto		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	127-	Well type:	Not Reported
Casing dia:	12	Ground el:	22
Well depth:	251		
Solid case:	91	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	30.2	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	112		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-229
Bot solid:	-69	Bot perf:	Not Reported
Spec capac:	Not Reported		

Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-01
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000928

L67
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000269786**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211911157522801		
Monloc name:	3-1952-25 W119-2 KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3165576
Longitude:	-157.8717008	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19470101	Welldepth:	81
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

L68
WSW
1/2 - 1 Mile
Lower

HI WELLS **HI9000000000942**

Wid:	3-1952-024	Island:	Oahu
Well name:	Kapalama	Old name:	Not Reported
Yr drilled:	1947		
Driller:	W. Mullin		
Quad map:	13		
Long83dd:	-157.871667		
Lat83dd:	21.316389		
Gps:	0	Utm:	-1
Owner user:	Gasco Inc.		
Land owner:	Not Reported		

Pump insta:	Not Reported		
Old number:	119-1	Well type:	Not Reported
Casing dia:	16	Ground el:	Not Reported
Well depth:	80		
Solid case:	54	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	13000		
Test date:	Not Reported	Test gpm:	2000
Test ddown:	5	Test chlor:	16600
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RF		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	400		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-012:006
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-47
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000942

O69
South
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000813**

Wid:	3-1852-001	Island:	Oahu
Well name:	Ala Moana Blvd	Old name:	Not Reported
Yr drilled:	1937		
Driller:	W. Mullin		
Quad map:	13		
Long83dd:	-157.864444		
Lat83dd:	21.311944		
Gps:	0	Utm:	-1
Owner user:	Chun Hoon Market		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	110-	Well type:	Not Reported
Casing dia:	6	Ground el:	Not Reported
Well depth:	60		
Solid case:	20	Perf case:	Not Reported
Use:	Other		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported

Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	PLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-7-018:011
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-37
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000813

J70
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000269863**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211953157520301		
Monloc name:	3-1952-09 W126 KAPAL		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3282235
Longitude:	-157.8647563	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	21.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	127
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

L71
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000269781**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211910157522801		
Monloc name:	3-1952-24 W119-1 KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3162798
Longitude:	-157.8717008	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19470101	Welldepth:	80
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

O72
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000269731**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211854157520201		
Monloc name:	3-1852-01 W110 DWNTN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3118356
Longitude:	-157.8644788	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19370101	Welldepth:	60
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

Map ID
Direction
Distance
Elevation

Database EDR ID Number

J73
North
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000927**

Wid:	3-1952-009	Island:	Oahu
Well name:	Kapalama	Old name:	Not Reported
Yr drilled:	1901		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.864722		
Lat83dd:	21.328333		
Gps:	0	Utm:	-1
Owner user:	Kamehameha Schools		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	126-	Well type:	Not Reported
Casing dia:	9	Ground el:	21
Well depth:	127		
Solid case:	65	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	31.9	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	122		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RA		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-106
Bot solid:	-44	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-01
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000927

N74
WSW
1/2 - 1 Mile
Lower

HI WELLS **HI9000000000932**

Wid:	3-1952-014	Island:	Oahu
Well name:	Kapalama	Old name:	Not Reported
Yr drilled:	1923		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.872222		
Lat83dd:	21.316944		
Gps:	0	Utm:	-1
Owner user:	Gasco Inc.		
Land owner:	Not Reported		

Pump insta:	Not Reported		
Old number:	119-	Well type:	Not Reported
Casing dia:	8	Ground el:	4
Well depth:	682		
Solid case:	613	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	28.2	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	266		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	22.8	Test unit:	C
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-678
Bot solid:	-609	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-012:006
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-23
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000932

N75
WSW **FED USGS** **USGS40000269789**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211912157523001		
Monloc name:	3-1952-14 W119 KAPAL		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3168354
Longitude:	-157.8722563	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	4.00
Vert measure units:	feet	Vertacc measure val:	.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19231024	Welldepth:	682
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1923-12-12	-24.22	

L76
WSW **FED USGS** **USGS40000269773**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211908157522801		
Monloc name:	3-1952.01B		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3157243
Longitude:	-157.8717008	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5.00
Vert measure units:	feet	Vertacc measure val:	3
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19711001	Welldepth:	65
Welldepth units:	ft	Wellholedepth:	65
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

77
NE **HI WELLS** **HI9000000000918**
1/2 - 1 Mile
Higher

Wid:	3-1951-005	Island:	Oahu
Well name:	Kunawai Springs	Old name:	Not Reported
Yr drilled:	0		
Driller:	Not Reported		
Quad map:	13		
Long83dd:	-157.8575		
Lat83dd:	21.326111		
Gps:	0	Utm:	-1
Owner user:	Department of Parks and Recreation, Honolulu, DPR		
Land owner:	Not Reported		

Pump insta:	Not Reported		
Old number:	Not Reported	Well type:	Not Reported
Casing dia:	Not Reported	Ground el:	Not Reported
Well depth:	0		
Solid case:	Not Reported	Perf case:	Not Reported
Use:	UNU - Unused		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-7-036:010
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	30-DEC-99
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000918

P78
ESE
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000917**

Wid:	3-1951-004	Island:	Oahu
Well name:	Liliha	Old name:	Not Reported
Yr drilled:	1939		
Driller:	W. Mullin		
Quad map:	13		
Long83dd:	-157.855278		
Lat83dd:	21.316667		
Gps:	0	Utm:	-1
Owner user:	Chun Hoon Market		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	Not Reported	Well type:	Not Reported
Casing dia:	6	Ground el:	Not Reported
Well depth:	53		
Solid case:	28	Perf case:	Not Reported
Use:	Other		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	69		
Test date:	Not Reported	Test gpm:	Not Reported

Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RA		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-39
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000917

P79
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000269784**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211911157512901		
Monloc name:	3-1951-04 W109-1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3165573
Longitude:	-157.8553123	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	35.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19390825	Welldepth:	53
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

Q80
SSE
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000773**

Wid:	3-1851-037	Island:	Oahu
Well name:	Nuuanu Ave	Old name:	Not Reported
Yr drilled:	1936		
Driller:	Hobart		
Quad map:	13		
Long83dd:	-157.860278		
Lat83dd:	21.311944		
Gps:	0	Utm:	-1
Owner user:	Not Reported		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	100-1	Well type:	Not Reported
Casing dia:	8	Ground el:	24
Well depth:	52		
Solid case:	40	Perf case:	Not Reported
Use:	Other		
Use year:	Not Reported		
Init head:	0.4	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	3
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	PLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-28
Bot solid:	-16	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-36
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000773

81
SSE
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000775**

Wid:	3-1851-039	Island:	Oahu
Well name:	Hawaii Theatre	Old name:	Not Reported
Yr drilled:	1937		
Driller:	W. Mullin		
Quad map:	13		
Long83dd:	-157.861667		
Lat83dd:	21.311111		
Gps:	0	Utm:	-1
Owner user:	Not Reported		
Land owner:	Not Reported		

Pump insta:	Not Reported		
Old number:	100-	Well type:	Not Reported
Casing dia:	6	Ground el:	Not Reported
Well depth:	60		
Solid case:	20	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	50
Test ddown:	0.8	Test chlor:	181
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	PLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	63		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 2-1-003:014
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-37
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000775

Q82
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000269729**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211852157514901		
Monloc name:	3-1851-37 W100-1 DWN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3112799
Longitude:	-157.8608678	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	24.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19361006	Welldepth:	52
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

Q83
SSE
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000786**

Wid:	3-1851-050	Island:	Oahu
Well name:	Ft St Mall	Old name:	Not Reported
Yr drilled:	1940		
Driller:	Layne International		
Quad map:	13		
Long83dd:	-157.859722		
Lat83dd:	21.311389		
Gps:	0	Utm:	-1
Owner user:	W. Ramsey		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	105-2	Well type:	Not Reported
Casing dia:	3	Ground el:	Not Reported
Well depth:	25		
Solid case:	6	Perf case:	Not Reported
Use:	Other		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RTSP		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-40
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000786

Q84
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000269728**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211852157514501		
Monloc name:	3-1851-50 W105-2 DWN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3112799
Longitude:	-157.8597567	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	25.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19400801	Welldepth:	25
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

Q85
SSE
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000777**

Wid:	3-1851-041	Island:	Oahu
Well name:	Ft St Mall	Old name:	Not Reported
Yr drilled:	1938		
Driller:	Layne International		
Quad map:	13		
Long83dd:	-157.86		
Lat83dd:	21.310833		
Gps:	0	Utm:	-1
Owner user:	Fronk & Wynn		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	105-1	Well type:	Not Reported
Casing dia:	6	Ground el:	21
Well depth:	46		
Solid case:	22	Perf case:	42
Use:	Other		
Use year:	Not Reported		
Init head:	1.5	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	139		
Test date:	Not Reported	Test gpm:	40
Test ddown:	2.3	Test chlor:	150
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RTSP		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-25
Bot solid:	-1	Bot perf:	-21
Spec capac:	17		

Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-38
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000777

R86
SE
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000752**

Wid:	3-1851-016	Island:	Oahu
Well name:	Central School	Old name:	Not Reported
Yr drilled:	1889		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.856944		
Lat83dd:	21.312222		
Gps:	0	Utm:	-1
Owner user:	C&C of Honolulu		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	107-	Well type:	Not Reported
Casing dia:	6	Ground el:	28
Well depth:	1007		
Solid case:	Not Reported	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-979
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	30-DEC-99
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000752

Map ID
Direction
Distance
Elevation — Database — EDR ID Number

S87
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000269888**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-212000157520801		
Monloc name:	3-2052-09 W146-1 KAL		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3301679
Longitude:	-157.866145	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	202.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19420630	Welldepth:	235
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

R88
SE
1/2 - 1 Mile
Higher

FED USGS **USGS40000269733**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211855157513501		
Monloc name:	3-1851-16 W107 DWNTN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3121131
Longitude:	-157.856979	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	28.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	18990101	Welldepth:	1007
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

T89
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000269855**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211952157522601		
Monloc name:	3-1952-08 W128-H KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3279458
Longitude:	-157.871145	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	21.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19000101	Welldepth:	490
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

U90
South
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000785**

Wid:	3-1851-049	Island:	Oahu
Well name:	King St	Old name:	Not Reported
Yr drilled:	1940		
Driller:	W. Mullin		
Quad map:	13		
Long83dd:	-157.8625		
Lat83dd:	21.309722		
Gps:	0	Utm:	-1
Owner user:	Royal Amusement		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	90-2	Well type:	Not Reported
Casing dia:	Not Reported	Ground el:	Not Reported
Well depth:	60		
Solid case:	21	Perf case:	Not Reported
Use:	Other		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported

Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-40
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000785

U91
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000269718**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211846157515501		
Monloc name:	3-1851-49 W90-2 DWNT		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3096134
Longitude:	-157.8625344	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10.00
Vert measure units:	feet	Vertacc measure val:	3
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19400825	Welldepth:	60
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

V92
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000269719**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211848157514601		
Monloc name:	3-1851-41 W105-1 DWN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3101689
Longitude:	-157.8600345	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	21.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19380101	Welldepth:	46
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

T93
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000269864**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211953157522700		
Monloc name:	3-1952-06-08,16-19,22 Kalihi Station, Oahu, HI		
Monloc type:	Well: Multiple wells		
Monloc desc:	former W128-A-H,NAWQA entry ver. 05/15/2002 Hunt C		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3279722
Longitude:	-157.8715	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	21
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Hawaii volcanic-rock aquifers		
Formation type:	Koolau Volcanic Series, Lava Flows		
Aquifer type:	Confined single aquifer		
Construction date:	Not Reported	Welldepth:	490
Welldepth units:	ft	Wellholedepth:	490
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

Map ID
Direction
Distance
Elevation — Database — EDR ID Number

T94
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000269867**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211953157522703		
Monloc name:	3-1952-07 W128-G KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3282236
Longitude:	-157.8714229	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	20.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19000101	Welldepth:	475
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

T95
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000269866**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211953157522702		
Monloc name:	3-1952-17 W128-B KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3282236
Longitude:	-157.8714229	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	19.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19260101	Welldepth:	401
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

T96
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000269865**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211953157522701		
Monloc name:	3-1952-06 W128-F KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3282236
Longitude:	-157.8714229	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	21.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19000101	Welldepth:	460
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

T97
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000269868**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211953157522704		
Monloc name:	3-1952-16 W128-A KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3282236
Longitude:	-157.8714229	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	21.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported		
Construction date:	19260101	Welldepth:	430
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

T98
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000269871**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211953157522707		
Monloc name:	3-1952-19 W128-E KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3282236
Longitude:	-157.8714229	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	23.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19260101	Welldepth:	414
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

T99
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000269870**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211953157522706		
Monloc name:	3-1952-18 W128-C KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3282236
Longitude:	-157.8714229	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	24.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19260101	Welldepth:	442
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

T100
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000269869**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211953157522705		
Monloc name:	3-1952-22 W128-D KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3282236
Longitude:	-157.8714229	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	24.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19270101	Welldepth:	360
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

U101
South
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000776**

Wid:	3-1851-040	Island:	Oahu
Well name:	Ft St Mall	Old name:	Not Reported
Yr drilled:	1938		
Driller:	Hobart		
Quad map:	13		
Long83dd:	-157.862222		
Lat83dd:	21.309444		
Gps:	0	Utm:	-1
Owner user:	Easy Appliances		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	90-3	Well type:	Not Reported
Casing dia:	6	Ground el:	Not Reported
Well depth:	42		
Solid case:	8	Perf case:	Not Reported
Use:	Other		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported

Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-38
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000776

T102
NW
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000926**

Wid:	3-1952-008	Island:	Oahu
Well name:	Kalihi Pump Station	Old name:	Not Reported
Yr drilled:	1900		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.871389		
Lat83dd:	21.328333		
Gps:	0	Utm:	-1
Owner user:	Board of Water Supply, BWS		
Land owner:	Board of Water Supply, BWS		
Pump insta:	Not Reported		
Old number:	128-H	Well type:	Not Reported
Casing dia:	12	Ground el:	21
Well depth:	490		
Solid case:	Not Reported	Perf case:	Not Reported
Use:	MUN - County		
Use year:	Not Reported		
Init head:	29.7	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	80		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-469
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		

Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-003:020
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	02-JAN-00
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000926

T103
NW
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000934**

Wid:	3-1952-016	Island:	Oahu
Well name:	Kalihi Pump Station	Old name:	Not Reported
Yr drilled:	1926		
Driller:	Not Reported		
Quad map:	13		
Long83dd:	-157.871389		
Lat83dd:	21.328333		
Gps:	0	Utm:	-1
Owner user:	Board of Water Supply, BWS		
Land owner:	Board of Water Supply, BWS		
Pump insta:	Not Reported		
Old number:	128-A	Well type:	Not Reported
Casing dia:	12	Ground el:	21
Well depth:	430		
Solid case:	240	Perf case:	Not Reported
Use:	MUN - County		
Use year:	Not Reported		
Init head:	25.6	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-409
Bot solid:	-219	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-003:020
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-26
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000934

Map ID
Direction
Distance
Elevation — Database — EDR ID Number

T104
NW
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000924**

Wid:	3-1952-006	Island:	Oahu
Well name:	Kalihi Pump Station	Old name:	Not Reported
Yr drilled:	1900		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.871389		
Lat83dd:	21.328333		
Gps:	0	Utm:	-1
Owner user:	Board of Water Supply, BWS		
Land owner:	Board of Water Supply, BWS		
Pump insta:	Not Reported		
Old number:	128-F	Well type:	Not Reported
Casing dia:	12	Ground el:	21
Well depth:	460		
Solid case:	Not Reported	Perf case:	Not Reported
Use:	MUN - County		
Use year:	Not Reported		
Init head:	30.4	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	80		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-439
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-003:020
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	02-JAN-00
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000924

T105
NW
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000925**

Wid:	3-1952-007	Island:	Oahu
Well name:	Kalihi Pump Station	Old name:	Not Reported
Yr drilled:	1900		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.871389		
Lat83dd:	21.328333		
Gps:	0	Utm:	-1
Owner user:	Board of Water Supply, BWS		
Land owner:	Board of Water Supply, BWS		

Pump insta:	Not Reported		
Old number:	128-G	Well type:	Not Reported
Casing dia:	12	Ground el:	20
Well depth:	475		
Solid case:	229	Perf case:	Not Reported
Use:	MUN - County		
Use year:	Not Reported		
Init head:	28.8	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	80		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-455
Bot solid:	-209	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-003:020
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	02-JAN-00
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000925

T106
NW
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000935**

Wid:	3-1952-017	Island:	Oahu
Well name:	Kalihi Pump Station	Old name:	Not Reported
Yr drilled:	1926		
Driller:	Not Reported		
Quad map:	13		
Long83dd:	-157.871389		
Lat83dd:	21.328333		
Gps:	0	Utm:	-1
Owner user:	Board of Water Supply, BWS		
Land owner:	Board of Water Supply, BWS		
Pump insta:	Not Reported		
Old number:	128-B	Well type:	Not Reported
Casing dia:	12	Ground el:	19
Well depth:	401		
Solid case:	363	Perf case:	Not Reported
Use:	MUN - County		
Use year:	Not Reported		
Init head:	26.1	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	88		
Test date:	Not Reported	Test gpm:	Not Reported

Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-382
Bot solid:	-344	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-003:020
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-26
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000935

T107
NW
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000940**

Wid:	3-1952-022	Island:	Oahu
Well name:	Kalihi Pump Station	Old name:	Not Reported
Yr drilled:	1927		
Driller:	G Primmer		
Quad map:	13		
Long83dd:	-157.871389		
Lat83dd:	21.328333		
Gps:	0	Utm:	-1
Owner user:	Board of Water Supply, BWS		
Land owner:	Board of Water Supply, BWS		
Pump insta:	Not Reported		
Old number:	128-D	Well type:	Not Reported
Casing dia:	12	Ground el:	24
Well depth:	360		
Solid case:	251	Perf case:	Not Reported
Use:	MUN - County		
Use year:	Not Reported		
Init head:	25.9	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-336
Bot solid:	-227	Bot perf:	Not Reported
Spec capac:	Not Reported		

Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-003:020
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-27
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000940

T108
NW
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000966**

Wid:	3-1952-048	Island:	Oahu
Well name:	Kalihi Sta Deep Monitor	Old name:	Not Reported
Yr drilled:	2000		
Driller:	Water Resources International, Inc.		
Quad map:	13		
Long83dd:	-157.871389		
Lat83dd:	21.328333		
Gps:	0	Utm:	-1
Owner user:	Board of Water Supply, BWS		
Land owner:	Board of Water Supply, BWS		
Pump insta:	Not Reported		
Old number:	Not Reported	Well type:	ROT
Casing dia:	8	Ground el:	21
Well depth:	1200		
Solid case:	260	Perf case:	Not Reported
Use:	OBS - Deep (through transition zone)		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-1179
Bot solid:	-239	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-003:020
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	30-DEC-99
Pir:	Not Reported		
Surveyor:	Board of Water Supply, BWS		
T:	Not Reported	Site id:	HI9000000000966

Map ID
Direction
Distance
Elevation — Database — EDR ID Number

T109
NW
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000936**

Wid:	3-1952-018	Island:	Oahu
Well name:	Kalihi Pump Station	Old name:	Not Reported
Yr drilled:	1926		
Driller:	Not Reported		
Quad map:	13		
Long83dd:	-157.871389		
Lat83dd:	21.328333		
Gps:	0	Utm:	-1
Owner user:	Board of Water Supply, BWS		
Land owner:	Board of Water Supply, BWS		
Pump insta:	Not Reported		
Old number:	128-C	Well type:	Not Reported
Casing dia:	12	Ground el:	24
Well depth:	442		
Solid case:	265	Perf case:	Not Reported
Use:	MUN - County		
Use year:	Not Reported		
Init head:	25.9	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-418
Bot solid:	-241	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-003:020
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-26
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000936

T110
NW
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000937**

Wid:	3-1952-019	Island:	Oahu
Well name:	Kalihi Pump Station	Old name:	Not Reported
Yr drilled:	1926		
Driller:	G Primmer		
Quad map:	13		
Long83dd:	-157.871389		
Lat83dd:	21.328333		
Gps:	0	Utm:	-1
Owner user:	Board of Water Supply, BWS		
Land owner:	Board of Water Supply, BWS		

Pump insta:	Not Reported		
Old number:	128-E	Well type:	Not Reported
Casing dia:	12	Ground el:	23
Well depth:	414		
Solid case:	271	Perf case:	Not Reported
Use:	MUN - County		
Use year:	Not Reported		
Init head:	26	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-391
Bot solid:	-248	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-003:020
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-26
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000937

U111
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000269713**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211845157515401		
Monloc name:	3-1851-40 W90-3 DWNT		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3093357
Longitude:	-157.8622566	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	13.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19380101	Welldepth:	42
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

W112
South
1/2 - 1 Mile
Lower

HI WELLS **HI9000000000815**

Wid:	3-1852-003	Island:	Oahu
Well name:	Ala Moana Blvd	Old name:	Not Reported
Yr drilled:	1947		
Driller:	Layne International		
Quad map:	13		
Long83dd:	-157.863889		
Lat83dd:	21.309167		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke, Inc.		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	90-4	Well type:	Not Reported
Casing dia:	6	Ground el:	Not Reported
Well depth:	52		
Solid case:	16	Perf case:	Not Reported
Use:	Other		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	150
Test ddown:	2.3	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	65		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 2-1-001:006
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-47
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000815

W113
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000269711**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211844157520001		
Monloc name:	3-1852-03 W90-4 DWNT		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3090579
Longitude:	-157.8639232	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	3.00
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19470501	Welldepth:	52
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

S114
North
1/2 - 1 Mile
Higher

HI WELLS **HI9000000001100**

Wid:	3-2052-012	Island:	Oahu
Well name:	Jonathan Springs	Old name:	Not Reported
Yr drilled:	2002		
Driller:	Roscoe Moss Hawaii Inc		
Quad map:	13		
Long83dd:	-157.866111		
Lat83dd:	21.331111		
Gps:	0	Utm:	-1
Owner user:	Board of Water Supply, BWS		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	Not Reported	Well type:	PER
Casing dia:	14	Ground el:	31
Well depth:	1150		
Solid case:	50	Perf case:	Not Reported
Use:	OBS - Deep (through transition zone)		
Use year:	Not Reported		
Init head:	21.9	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	1165
Test ddown:	1.2	Test chlor:	120
Test temp:	22.2	Test unit:	C
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-1119
Bot solid:	-19	Bot perf:	Not Reported
Spec capac:	971		

Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-6-005:031
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-81
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000001100

U115
South
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000774**

Wid:	3-1851-038	Island:	Oahu
Well name:	Ft St Mall	Old name:	Not Reported
Yr drilled:	1937		
Driller:	W. Mullin		
Quad map:	13		
Long83dd:	-157.862778		
Lat83dd:	21.308889		
Gps:	0	Utm:	-1
Owner user:	Brewer Chemical Corp.		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	90-	Well type:	Not Reported
Casing dia:	6	Ground el:	Not Reported
Well depth:	100		
Solid case:	20	Perf case:	Not Reported
Use:	UNU - Unused		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	130
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	PLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-37
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000774

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
V116 **SSE** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI9000000000766**

Wid:	3-1851-030	Island:	Oahu
Well name:	Alakea St	Old name:	Not Reported
Yr drilled:	1915		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.859167		
Lat83dd:	21.309722		
Gps:	0	Utm:	-1
Owner user:	Honolulu Merchandise Market		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	105-	Well type:	Not Reported
Casing dia:	10	Ground el:	18
Well depth:	810		
Solid case:	706	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	28.4	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	44		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	36	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-792
Bot solid:	-688	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 2-1-010:005
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-15
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000766

	Database	EDR ID Number
U117 **South** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000269708**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211843157515601		
Monloc name:	3-1851-38 W90 DWNTN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3087802
Longitude:	-157.8628122	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	12.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19370101	Welldepth:	100
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

	Database	EDR ID Number
S118 **North** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000269899**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-212004157520801		
Monloc name:	3-2052-12 KALIHI		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3312789
Longitude:	-157.866145	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	31
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Reported		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Hawaii volcanic-rock aquifers		
Formation type:	Volcanic Rocks		
Aquifer type:	Not Reported		
Construction date:	19810501	Welldepth:	1150
Welldepth units:	ft	Wellholedepth:	1150
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1981-06-12	8.80	

	Database	EDR ID Number
V119 **SSE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000269717**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211846157514301		
Monloc name:	3-1851-30 W105 DWNTN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3096134
Longitude:	-157.8592012	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	18.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19150501	Welldepth:	810
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

U120
South
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000788**

Wid:	3-1851-052	Island:	Oahu
Well name:	King St	Old name:	Not Reported
Yr drilled:	1952		
Driller:	Samson/Smock		
Quad map:	13		
Long83dd:	-157.861667		
Lat83dd:	21.308889		
Gps:	0	Utm:	-1
Owner user:	Bank of Hawaii		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	104-1	Well type:	Not Reported
Casing dia:	8	Ground el:	Not Reported
Well depth:	100		
Solid case:	100	Perf case:	Not Reported
Use:	ABN - Lost		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	148
Test ddown:	0.6	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	247		

Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-52
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000788

U121
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000269706**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211843157515301		
Monloc name:	3-1851-42 W90-1A DWN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3087801
Longitude:	-157.8619789	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19390101	Welldepth:	50
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

U122
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000269707**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211843157515302		
Monloc name:	3-1851.01 -43/W90-1B		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3087801
Longitude:	-157.8619789	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10.09
Vert measure units:	feet	Vertacc measure val:	.5
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19390701	Welldepth:	40
Welldepth units:	ft	Wellholedepth:	40
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1939-07-27	10.00	

Note: A nearby site that taps the same aquifer had been pumped recently.

U123
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000269705**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211843157515201		
Monloc name:	3-1851-52 W104-1 DWN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3087801
Longitude:	-157.861701	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	15.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19520302	Welldepth:	100
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

124
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000269791**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211913157524303		
Monloc name:	3-1952.03C		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3171132
Longitude:	-157.8758674	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5.00
Vert measure units:	feet	Vertacc measure val:	3
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19731115	Welldepth:	75
Welldepth units:	ft	Wellholedepth:	75
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

X125
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000269893**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-212002157521801		
Monloc name:	3-2052-03 W131 KALIH		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3307235
Longitude:	-157.8689228	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	29.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	18940101	Welldepth:	210
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
Y126 **SSE** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI9000000000792**

Wid:	3-1851-056	Island:	Oahu
Well name:	Alakea St	Old name:	Not Reported
Yr drilled:	1958		
Driller:	Layne International		
Quad map:	13		
Long83dd:	-157.858333		
Lat83dd:	21.309722		
Gps:	0	Utm:	-1
Owner user:	Am. Mutual Ins.		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	106-1B	Well type:	Not Reported
Casing dia:	24	Ground el:	16
Well depth:	30		
Solid case:	3	Perf case:	Not Reported
Use:	Other		
Use year:	Not Reported		
Init head:	1	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	75
Test ddown:	1	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RTSP		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-14
Bot solid:	13	Bot perf:	Not Reported
Spec capac:	75		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-58
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000792

	Database	EDR ID Number
Y127 **SSE** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI9000000000791**

Wid:	3-1851-055	Island:	Oahu
Well name:	Alakea St	Old name:	Not Reported
Yr drilled:	1958		
Driller:	Layne International		
Quad map:	13		
Long83dd:	-157.858333		
Lat83dd:	21.309722		
Gps:	0	Utm:	-1
Owner user:	Am. Mutual Ins.		
Land owner:	Not Reported		

Pump insta:	Not Reported		
Old number:	106-1A	Well type:	Not Reported
Casing dia:	24	Ground el:	16
Well depth:	40		
Solid case:	3	Perf case:	Not Reported
Use:	Other		
Use year:	Not Reported		
Init head:	1	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	967		
Test date:	Not Reported	Test gpm:	250
Test ddown:	4	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RTSP		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-24
Bot solid:	13	Bot perf:	Not Reported
Spec capac:	63		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-58
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000791

	Database	EDR ID Number
Z128 **SSE** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI9000000000759**

Wid:	3-1851-023	Island:	Oahu
Well name:	Bishop St	Old name:	Not Reported
Yr drilled:	1901		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.860556		
Lat83dd:	21.308889		
Gps:	0	Utm:	-1
Owner user:	Waikele Golf Club, Inc.		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	104-	Well type:	Not Reported
Casing dia:	10	Ground el:	15
Well depth:	960		
Solid case:	850	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	26.5	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	67		
Test date:	Not Reported	Test gpm:	Not Reported

Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	109	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-945
Bot solid:	-835	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-01
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000759

X129
NNW
1/2 - 1 Mile
Higher

HI WELLS **HI9000000001091**

Wid:	3-2052-003	Island:	Oahu
Well name:	Waiakamilo	Old name:	Not Reported
Yr drilled:	1894		
Driller:	Not Reported		
Quad map:	13		
Long83dd:	-157.868889		
Lat83dd:	21.330833		
Gps:	0	Utm:	-1
Owner user:	Chinese YWCA		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	131-	Well type:	Not Reported
Casing dia:	8	Ground el:	29
Well depth:	210		
Solid case:	147	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	31.2	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	114		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RA		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-181
Bot solid:	-118	Bot perf:	Not Reported
Spec capac:	Not Reported		

Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	30-DEC-99
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000001091

Y130
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000269715**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211846157514001		
Monloc name:	3-1851-55 W106-1A DW		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3096133
Longitude:	-157.8583679	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	16.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19581028	Welldepth:	40
Welldepth units:	ft	Wellholedepth:	130
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

Y131
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000269716**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211846157514002		
Monloc name:	3-1851-56 W106-1B DW		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3096133
Longitude:	-157.8583679	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	16.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19580101	Welldepth:	30
Welldepth units:	ft	Wellholedepth:	30
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

Z132
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000269704**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211843157514801		
Monloc name:	3-1851-23 W104 DWNTN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3087801
Longitude:	-157.86059	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	15.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	960
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

W133
South
1/2 - 1 Mile
Lower

HI WELLS **HI9000000000808**

Wid:	3-1851-072	Island:	Oahu
Well name:	Ft St Mall 2	Old name:	Not Reported
Yr drilled:	1973		
Driller:	Roscoe Moss Hawaii Inc		
Quad map:	13		
Long83dd:	-157.863611		
Lat83dd:	21.308333		
Gps:	0	Utm:	-1
Owner user:	Center Properties		
Land owner:	Not Reported		

Pump insta:	Not Reported		
Old number:	Not Reported	Well type:	PER
Casing dia:	16	Ground el:	7
Well depth:	45		
Solid case:	10	Perf case:	Not Reported
Use:	IND - Geothermal, Thermoelectric Cooling, Power De		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	7/12/1973	Test gpm:	950
Test ddown:	8.5	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-38
Bot solid:	-3	Bot perf:	Not Reported
Spec capac:	112		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 2-1-013:001
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JUL-73
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000808

W134
South
1/2 - 1 Mile
Lower

HI WELLS **HI9000000000807**

Wid:	3-1851-071	Island:	Oahu
Well name:	Ft St Mall 1	Old name:	Not Reported
Yr drilled:	1973		
Driller:	Roscoe Moss Hawaii Inc		
Quad map:	13		
Long83dd:	-157.863611		
Lat83dd:	21.308333		
Gps:	0	Utm:	-1
Owner user:	Center Properties		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	Not Reported	Well type:	PER
Casing dia:	16	Ground el:	7
Well depth:	45		
Solid case:	10	Perf case:	Not Reported
Use:	IND - Geothermal, Thermoelectric Cooling, Power De		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	7/2/1973	Test gpm:	850

Test ddown:	8.2	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-38
Bot solid:	-3	Bot perf:	Not Reported
Spec capac:	104		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 2-1-013:001
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JUL-73
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000807

Y135
SSE **HI WELLS** **HI9000000000741**
1/2 - 1 Mile
Higher

Wid:	3-1851-005	Island:	Oahu
Well name:	Alakea St	Old name:	Not Reported
Yr drilled:	1882		
Driller:	Not Reported		
Quad map:	13		
Long83dd:	-157.858611		
Lat83dd:	21.309444		
Gps:	0	Utm:	-1
Owner user:	K. Cooper		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	106-	Well type:	Not Reported
Casing dia:	6	Ground el:	20
Well depth:	636		
Solid case:	Not Reported	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	26	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	48		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-616
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		

Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	30-DEC-99
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000741

Y136
SSE **FED USGS** **USGS40000269712**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211845157514101		
Monloc name:	3-1851-05 W106 DWNTN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3093356
Longitude:	-157.8586457	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	20.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	18820101	Welldepth:	636
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

W137
South **FED USGS** **USGS40000269700**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211841157515901		
Monloc name:	3-1851-71 DWNTN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3082247
Longitude:	-157.8636455	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	7.00
Vert measure units:	feet	Vertacc measure val:	.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19730702	Welldepth:	45
Welldepth units:	ft	Wellholedepth:	45
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1973-07-02	7.00	

W138
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000269701**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-21184157515902		
Monloc name:	3-1851-72 DWNTN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3082247
Longitude:	-157.8636455	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	7.00
Vert measure units:	feet	Vertacc measure val:	.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19730712	Welldepth:	45
Welldepth units:	ft	Wellholedepth:	45
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1973-07-12	7.00	

Z139
South
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000784**

Wid:	3-1851-048	Island:	Oahu
Well name:	King St	Old name:	Not Reported
Yr drilled:	1939		
Driller:	Layne International		
Quad map:	13		
Long83dd:	-157.861667		
Lat83dd:	21.308333		
Gps:	0	Utm:	-1
Owner user:	Walston & Co.		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	103-2B	Well type:	Not Reported
Casing dia:	8	Ground el:	Not Reported
Well depth:	40		
Solid case:	34	Perf case:	Not Reported
Use:	UNU - Unused		
Use year:	Not Reported		
Init head:	3.6	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	1360		
Test date:	Not Reported	Test gpm:	75
Test ddown:	0.3	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	250		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-39
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000784

Z140
South
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000783**

Wid:	3-1851-047	Island:	Oahu
Well name:	King St	Old name:	Not Reported
Yr drilled:	1939		
Driller:	Layne International		
Quad map:	13		
Long83dd:	-157.861667		
Lat83dd:	21.308333		
Gps:	0	Utm:	-1
Owner user:	Walston & Co.		
Land owner:	Not Reported		

Pump insta:	Not Reported		
Old number:	103-2A	Well type:	Not Reported
Casing dia:	6	Ground el:	Not Reported
Well depth:	41		
Solid case:	22	Perf case:	Not Reported
Use:	UNU - Unused		
Use year:	Not Reported		
Init head:	3.7	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	3290		
Test date:	Not Reported	Test gpm:	75
Test ddown:	0.3	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	250		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-39
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000783

W141
South
1/2 - 1 Mile
Lower

HI WELLS **HI9000000000812**

Wid:	3-1851-076	Island:	Oahu
Well name:	Amfac Center	Old name:	Not Reported
Yr drilled:	0		
Driller:	Not Reported		
Quad map:	13		
Long83dd:	-157.863333		
Lat83dd:	21.308056		
Gps:	0	Utm:	-1
Owner user:	Topa Management Company		
Land owner:	Duesenberg Investment Company, LLC		
Pump insta:	Not Reported		
Old number:	Not Reported	Well type:	Not Reported
Casing dia:	Not Reported	Ground el:	Not Reported
Well depth:	0		
Solid case:	Not Reported	Perf case:	Not Reported
Use:	IND - Geothermal, Thermoelectric Cooling, Power De		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported

Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	1400		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	1969		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	2.016		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 2-1-013:006
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	30-DEC-99
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000812

AA142
South
1/2 - 1 Mile
Lower

HI WELLS **HI9000000000789**

Wid:	3-1851-053	Island:	Oahu
Well name:	Queen St	Old name:	Not Reported
Yr drilled:	1956		
Driller:	Samson/Smock		
Quad map:	13		
Long83dd:	-157.862778		
Lat83dd:	21.308056		
Gps:	0	Utm:	-1
Owner user:	Astoria International Inc.		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	90-7	Well type:	Not Reported
Casing dia:	12	Ground el:	8
Well depth:	122		
Solid case:	22	Perf case:	30
Use:	Other		
Use year:	Not Reported		
Init head:	0.4	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	400
Test ddown:	13.1	Test chlor:	19
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-114
Bot solid:	-14	Bot perf:	-22
Spec capac:	31		

Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-56
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000789

AA143
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000269697**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211840157515601		
Monloc name:	3-1851-53 W90-7 DWNT		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3079469
Longitude:	-157.8628122	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	8.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19561028	Welldepth:	122
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AB144
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000269894**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-212002157522401		
Monloc name:	3-2052-04 W129 KALIH		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3307235
Longitude:	-157.8705895	Sourcemap scale:	24000

Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	28.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	18950101	Welldepth:	346
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AB145
NNW
1/2 - 1 Mile
Higher

HI WELLS **HI9000000001092**

Wid:	3-2052-004	Island:	Oahu
Well name:	Bishop Museum	Old name:	Not Reported
Yr drilled:	1895		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.870556		
Lat83dd:	21.330833		
Gps:	0	Utm:	-1
Owner user:	Kamehameha Schools		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	129-	Well type:	Not Reported
Casing dia:	8	Ground el:	28
Well depth:	346		
Solid case:	Not Reported	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	28.7	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	86		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RA		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-318
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	30-DEC-99
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000001092

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AC146
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000269764**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211906157524402		
Monloc name:	3-1952.03B		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3151689
Longitude:	-157.876145	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5.00
Vert measure units:	feet	Vertacc measure val:	3
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19731115	Welldepth:	75
Welldepth units:	ft	Wellholedepth:	75
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

AC147
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000269754**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211903157524301		
Monloc name:	3-1952.03A		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3143356
Longitude:	-157.8758674	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5.00
Vert measure units:	feet	Vertacc measure val:	3
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19731115	Welldepth:	75
Welldepth units:	ft	Wellholedepth:	75
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

148
South
1/2 - 1 Mile
Lower

HI WELLS **HI9000000000804**

Wid:	3-1851-068	Island:	Oahu
Well name:	Bishop St	Old name:	Not Reported
Yr drilled:	1968		
Driller:	Layne International		
Quad map:	13		
Long83dd:	-157.864		
Lat83dd:	21.307472		
Gps:	0	Utm:	-1
Owner user:	Topa Management Company		
Land owner:	Duesenberg Investment Company, LLC		
Pump insta:	Not Reported		
Old number:	90-8A	Well type:	Not Reported
Casing dia:	24	Ground el:	7
Well depth:	36		
Solid case:	8	Perf case:	Not Reported
Use:	IND - Geothermal, Thermoelectric Cooling, Power De		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	440
Test ddown:	4.5	Test chlor:	16750
Test temp:	26.1	Test unit:	C
Pump gpm:	1400		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	1968		
Draft yr:	Not Reported	Bot hole:	-29
Bot solid:	-1	Bot perf:	Not Reported
Spec capac:	98		
Pump mgd:	2.016		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 2-1-013:006
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-68
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000804

149
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000269730**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211853157523601		
Monloc name:	3-1852.01A-B		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.311558
Longitude:	-157.8739229	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	5.00
Vert measure units:	feet	Vertacc measure val:	3
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19731123	Welldepth:	65
Welldepth units:	ft	Wellholedepth:	65
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

AA150
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000269692**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211837157515803		
Monloc name:	3-1851.05 -70/W90-8C		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3073914
Longitude:	-157.8633677	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	7.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19681025	Welldepth:	30
Welldepth units:	ft	Wellholedepth:	30
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-10-01	7.00	

AB151
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000269900**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-212004157522401		
Monloc name:	3-2052-06 W132 KALIH		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.331279
Longitude:	-157.8705895	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	43.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19100101	Welldepth:	351
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AD152
SE
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000743**

Wid:	3-1851-007	Island:	Oahu
Well name:	Pacific Club	Old name:	Not Reported
Yr drilled:	1884		
Driller:	Ashley		
Quad map:	13		
Long83dd:	-157.854611		
Lat83dd:	21.310694		
Gps:	0	Utm:	-1
Owner user:	The Pacific Club		
Land owner:	The Pacific Club		
Pump insta:	Not Reported		
Old number:	108-	Well type:	Not Reported
Casing dia:	3	Ground el:	28
Well depth:	560		
Solid case:	498	Perf case:	Not Reported
Use:	IRR - Irrigation (non-domestic, non-agriculture)		
Use year:	Not Reported		
Init head:	23.2	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	35		
Test date:	Not Reported	Test gpm:	Not Reported

Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	35		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	1985		
Draft yr:	Not Reported	Bot hole:	-532
Bot solid:	-470	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	.05		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 2-1-019:014
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	30-DEC-99
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000743

AA153
South
1/2 - 1 Mile
Lower

HI WELLS **HI9000000000806**

Wid:	3-1851-070	Island:	Oahu
Well name:	Ft St Mall	Old name:	Not Reported
Yr drilled:	1968		
Driller:	Layne International		
Quad map:	13		
Long83dd:	-157.863333		
Lat83dd:	21.307222		
Gps:	0	Utm:	-1
Owner user:	AMFAC		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	90-8C	Well type:	Not Reported
Casing dia:	24	Ground el:	7
Well depth:	30		
Solid case:	Not Reported	Perf case:	Not Reported
Use:	Other		
Use year:	Not Reported		
Init head:	0.3	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	550
Test ddown:	1.9	Test chlor:	17800
Test temp:	25.6	Test unit:	C
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-23
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	289		

Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 2-1-013:006
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-68
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000806

AB154
NNW
1/2 - 1 Mile
Higher

HI WELLS **HI9000000001094**

Wid:	3-2052-006	Island:	Oahu
Well name:	Kapalama Ave	Old name:	Not Reported
Yr drilled:	1910		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.870556		
Lat83dd:	21.331389		
Gps:	0	Utm:	-1
Owner user:	Not Reported		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	132-	Well type:	Not Reported
Casing dia:	12	Ground el:	43
Well depth:	351		
Solid case:	232	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	28.8	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	65		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-308
Bot solid:	-189	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-10
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000001094

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
AD155 **SE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000269721**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211849157512701		
Monloc name:	3-1851-07 W108 DWNTN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3104465
Longitude:	-157.8547569	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	28.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	18840101	Welldepth:	560
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

	Database	EDR ID Number
AE156 **SSE** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI9000000000802**

Wid:	3-1851-066	Island:	Oahu
Well name:	Beretania	Old name:	Not Reported
Yr drilled:	1967		
Driller:	Layne International		
Quad map:	13		
Long83dd:	-157.8575		
Lat83dd:	21.308611		
Gps:	0	Utm:	-1
Owner user:	Not Reported		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	99-3	Well type:	ROT
Casing dia:	Not Reported	Ground el:	20
Well depth:	100		
Solid case:	Not Reported	Perf case:	Not Reported
Use:	IND - Geothermal, Thermoelectric Cooling, Power De		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	1500

Test ddown:	40	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RTSP		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-80
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	38		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 2-1-024:011
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-67
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000802

	Database	EDR ID Number
AF157 **South** **1/2 - 1 Mile** **Lower**	**HI WELLS**	**HI9000000000816**

Wid:	3-1852-004	Island:	Oahu
Well name:	Aloha Towers	Old name:	Not Reported
Yr drilled:	1947		
Driller:	Layne International		
Quad map:	13		
Long83dd:	-157.865833		
Lat83dd:	21.307222		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke, Inc.		
Land owner:	State of Hawaii DOT, Harbors Division		
Pump insta:	Not Reported		
Old number:	90-5	Well type:	Not Reported
Casing dia:	6	Ground el:	Not Reported
Well depth:	64		
Solid case:	34	Perf case:	Not Reported
Use:	Other		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	150
Test ddown:	1.5	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	100		

Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 2-1-001:001
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-47
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000816

AA158
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000269690**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211837157515801		
Monloc name:	3-1851-68 W90-8A DWN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3071136
Longitude:	-157.8633677	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	7.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19680101	Welldepth:	36
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AA159
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000269691**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211837157515802		
Monloc name:	3-1851-69 W90-8B DWN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3071136
Longitude:	-157.8633677	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	7.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19680101	Welldepth:	40
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AE160
SSE
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000797**

Wid:	3-1851-061	Island:	Oahu
Well name:	State Capitol	Old name:	Not Reported
Yr drilled:	1963		
Driller:	Samson & Zerbe		
Quad map:	13		
Long83dd:	-157.858056		
Lat83dd:	21.308333		
Gps:	0	Utm:	-1
Owner user:	State Dept. of Acc. & Gen. Serv. DAGS		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	99-2	Well type:	Not Reported
Casing dia:	16	Ground el:	20
Well depth:	77		
Solid case:	25	Perf case:	71
Use:	IND - Geothermal, Thermoelectric Cooling, Power De		
Use year:	Not Reported		
Init head:	30	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	4030		
Test date:	Not Reported	Test gpm:	1655
Test ddown:	27	Test chlor:	7500
Test temp:	24.4	Test unit:	C
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	RTSP		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-57
Bot solid:	-5	Bot perf:	-51
Spec capac:	61		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 2-1-024:011
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-63
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000797

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AE161
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000269703**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211842157513701		
Monloc name:	3-1851-66 W99-3 DWNT		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3085023
Longitude:	-157.8575346	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	20.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19670501	Welldepth:	100
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AE162
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000269699**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211841157513901		
Monloc name:	3-1851-61 W99-2 DWNT		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3082245
Longitude:	-157.85809	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	20.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19630501	Welldepth:	77
Welldepth units:	ft	Wellholedepth:	110
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

AF163
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000269693**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211837157520701		
Monloc name:	3-1852-04 W90-5 DWNT		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3071137
Longitude:	-157.8658676	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	3.00
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19470501	Welldepth:	64
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AG164
SSE
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000778**

Wid:	3-1851-042	Island:	Oahu
Well name:	Merchant St	Old name:	Not Reported
Yr drilled:	1939		
Driller:	Layne International		
Quad map:	13		
Long83dd:	-157.861111		
Lat83dd:	21.307222		
Gps:	0	Utm:	-1
Owner user:	Wilcox Development		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	90-1A	Well type:	Not Reported
Casing dia:	8	Ground el:	10
Well depth:	50		
Solid case:	22	Perf case:	40
Use:	Other		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	2100		
Test date:	Not Reported	Test gpm:	125

Test ddown:	2.3	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-40
Bot solid:	-12	Bot perf:	-30
Spec capac:	54		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-39
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000778

AG165
SSE
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000779**

Wid:	3-1851-043	Island:	Oahu
Well name:	Merchant St	Old name:	Not Reported
Yr drilled:	1939		
Driller:	Layne International		
Quad map:	13		
Long83dd:	-157.861111		
Lat83dd:	21.307222		
Gps:	0	Utm:	-1
Owner user:	Wilcox Development		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	90-1B	Well type:	Not Reported
Casing dia:	8	Ground el:	10
Well depth:	40		
Solid case:	17	Perf case:	37
Use:	Other		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	125
Test ddown:	3.1	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-30
Bot solid:	-7	Bot perf:	-27
Spec capac:	40		

Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-39
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000779

AG166
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000269688**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211837157515101		
Monloc name:	3-1851-47 W103-2A DW		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3071136
Longitude:	-157.8614233	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10.00
Vert measure units:	feet	Vertacc measure val:	3
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19391030	Welldepth:	41
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AG167
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000269689**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211837157515102		
Monloc name:	3-1851.02 -48/103-2B		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3071136
Longitude:	-157.8614233	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10.00
Vert measure units:	feet	Vertacc measure val:	3
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19390101	Welldepth:	40
Welldepth units:	ft	Wellholedepth:	40
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

AF168
South
1/2 - 1 Mile
Lower

HI WELLS **HI9000000000817**

Wid:	3-1852-005	Island:	Oahu
Well name:	Aloha Tower	Old name:	Not Reported
Yr drilled:	1951		
Driller:	Layne International		
Quad map:	13		
Long83dd:	-157.865833		
Lat83dd:	21.306944		
Gps:	0	Utm:	-1
Owner user:	J. Podmore		
Land owner:	State of Hawaii DOT, Harbors Division		
Pump insta:	Not Reported		
Old number:	90-6	Well type:	Not Reported
Casing dia:	8	Ground el:	Not Reported
Well depth:	40		
Solid case:	14	Perf case:	Not Reported
Use:	UNU - Unused		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	90
Test ddown:	3.4	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	26		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 2-1-001:001
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-51
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000817

Map ID
Direction
Distance
Elevation

Database EDR ID Number

AA169
South
1/2 - 1 Mile
Lower

HI WELLS **HI9000000000805**

Wid:	3-1851-069	Island:	Oahu
Well name:	Bishop St	Old name:	Not Reported
Yr drilled:	1968		
Driller:	Layne International		
Quad map:	13		
Long83dd:	-157.862806		
Lat83dd:	21.306833		
Gps:	0	Utm:	-1
Owner user:	Topa Management Company		
Land owner:	Duesenberg Investment Company, LLC		
Pump insta:	Not Reported		
Old number:	90-8B	Well type:	Not Reported
Casing dia:	24	Ground el:	7
Well depth:	40		
Solid case:	9	Perf case:	Not Reported
Use:	IND - Geothermal, Thermoelectric Cooling, Power De		
Use year:	Not Reported		
Init head:	0.3	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	425
Test ddown:	11.2	Test chlor:	17300
Test temp:	25.6	Test unit:	C
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-33
Bot solid:	-2	Bot perf:	Not Reported
Spec capac:	38		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 2-1-013:006
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-68
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000805

AF170
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000269684**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211836157520701		
Monloc name:	3-1852-05 W90-6 DWNT		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3068359
Longitude:	-157.8658676	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	3.00
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19510201	Welldepth:	40
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AG171
SSE
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000781**

Wid:	3-1851-045	Island:	Oahu
Well name:	Merchant&Richard	Old name:	Not Reported
Yr drilled:	1939		
Driller:	W. Mullin		
Quad map:	13		
Long83dd:	-157.861111		
Lat83dd:	21.306944		
Gps:	0	Utm:	-1
Owner user:	Not Reported		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	103-1A	Well type:	Not Reported
Casing dia:	6	Ground el:	Not Reported
Well depth:	80		
Solid case:	21	Perf case:	Not Reported
Use:	Other		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	1040		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-39
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000781

Map ID
Direction
Distance
Elevation — Database — EDR ID Number

AG172
SSE
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000782**

Wid:	3-1851-046	Island:	Oahu
Well name:	Merchant&Richard	Old name:	Not Reported
Yr drilled:	1939		
Driller:	W. Mullin		
Quad map:	13		
Long83dd:	-157.861111		
Lat83dd:	21.306944		
Gps:	0	Utm:	-1
Owner user:	Not Reported		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	103-1B	Well type:	Not Reported
Casing dia:	6	Ground el:	Not Reported
Well depth:	75		
Solid case:	8	Perf case:	Not Reported
Use:	UNU - Unused		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-39
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000782

AG173
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000269682**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211836157515001		
Monloc name:	3-1851-45 W103-1A DW		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3068358
Longitude:	-157.8611456	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	8.00
Vert measure units:	feet	Vertacc measure val:	3
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19391016	Welldepth:	80
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AG174
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000269683**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211836157515002		
Monloc name:	3-1851-46 W103-1B DW		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3068358
Longitude:	-157.8611456	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	8.00
Vert measure units:	feet	Vertacc measure val:	3
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19391023	Welldepth:	75
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AH175
SSE
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000740**

Wid:	3-1851-004	Island:	Oahu
Well name:	Iolani Palace	Old name:	Not Reported
Yr drilled:	1882		
Driller:	Not Reported		
Quad map:	13		
Long83dd:	-157.858333		
Lat83dd:	21.3075		
Gps:	0	Utm:	-1
Owner user:	Division of State Parks Oahu, DLNR-SP		
Land owner:	Division of State Parks Oahu, DLNR-SP		

Pump insta:	Not Reported		
Old number:	99-	Well type:	Not Reported
Casing dia:	14	Ground el:	18
Well depth:	752		
Solid case:	748	Perf case:	Not Reported
Use:	UNU - Unused		
Use year:	Not Reported		
Init head:	25.2	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	43		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-734
Bot solid:	-730	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 2-1-025:002
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	30-DEC-99
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000740

AH176
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000269695**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211838157514001		
Monloc name:	3-1851-04 W99, 99A,B		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3073913
Longitude:	-157.8583679	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	18.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	18820101	Welldepth:	752
Welldepth units:	ft	Wellholedepth:	765
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

AG177
South
1/2 - 1 Mile
Lower

HI WELLS **HI9000000000763**

Wid:	3-1851-027	Island:	Oahu
Well name:	Queen St	Old name:	Not Reported
Yr drilled:	1910		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.861944		
Lat83dd:	21.306389		
Gps:	0	Utm:	-1
Owner user:	Hawaiian Electric Company, Inc., HECO		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	103-	Well type:	Not Reported
Casing dia:	12	Ground el:	2
Well depth:	1145		
Solid case:	805	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	Not Reported		
Init head:	27.2	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	55		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-1143
Bot solid:	-803	Bot perf:	Not Reported
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	Not Reported
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-10
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000763

AG178
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000269679**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211834157515301		
Monloc name:	3-1851-27 W103 DWNTN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3062803
Longitude:	-157.8619789	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	2.00
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19100101	Welldepth:	1145
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AI179
South
1/2 - 1 Mile
Lower

HI WELLS **HI9000000000818**

Wid:	3-1852-006	Island:	Oahu
Well name:	Ala Moana Blvd	Old name:	Not Reported
Yr drilled:	1953		
Driller:	Samson/Smock		
Quad map:	13		
Long83dd:	-157.863889		
Lat83dd:	21.306111		
Gps:	0	Utm:	-1
Owner user:	Hawaiian Electric Company, Inc., HECO		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	102-1	Well type:	Not Reported
Casing dia:	24	Ground el:	Not Reported
Well depth:	94		
Solid case:	Not Reported	Perf case:	Not Reported
Use:	UNU - Unused		
Use year:	Not Reported		
Init head:	Not Reported	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported		

Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 2-1-016:015
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	01-JAN-53
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000818

AI180
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000269674**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211833157520001		
Monloc name:	3-1852-06 W102-1 DWN		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3060026
Longitude:	-157.8639233	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	3.00
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19530703	Welldepth:	94
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AJ181
West
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000953**

Wid:	3-1952-035	Island:	Oahu
Well name:	Kapalama	Old name:	Not Reported
Yr drilled:	1960		
Driller:	Samson/Smock		
Quad map:	13		
Long83dd:	-157.878889		
Lat83dd:	21.322778		
Gps:	0	Utm:	-1
Owner user:	Kamehameha Schools		
Land owner:	Not Reported		

Pump insta:	Not Reported		
Old number:	130-1	Well type:	Not Reported
Casing dia:	16	Ground el:	15
Well depth:	250		
Solid case:	20	Perf case:	205
Use:	UNU - Unused		
Use year:	Not Reported		
Init head:	12.9	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	11600		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-235
Bot solid:	-5	Bot perf:	-190
Spec capac:	Not Reported		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-030:001
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-60
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000953

AJ182
West
1/2 - 1 Mile
Higher

HI WELLS **HI9000000000954**

Wid:	3-1952-036	Island:	Oahu
Well name:	Kapalama	Old name:	Not Reported
Yr drilled:	1967		
Driller:	Layne International		
Quad map:	13		
Long83dd:	-157.878889		
Lat83dd:	21.322778		
Gps:	0	Utm:	-1
Owner user:	Kamehameha Schools		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	130-2	Well type:	Not Reported
Casing dia:	16	Ground el:	15
Well depth:	80		
Solid case:	46	Perf case:	Not Reported
Use:	ABN - Lost		
Use year:	Not Reported		
Init head:	0.3	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	11311		
Test date:	Not Reported	Test gpm:	525

Test ddown:	27	Test chlor:	16500
Test temp:	26.7	Test unit:	C
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	QLS		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-65
Bot solid:	-31	Bot perf:	Not Reported
Spec capac:	19		
Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-5-030:002
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-67
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000954

AJ183
West
1/2 - 1 Mile
Higher

FED USGS **USGS40000269819**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211933157525401		
Monloc name:	3-1952-35 W130-1 KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3226684
Longitude:	-157.8789229	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	15.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19600901	Welldepth:	250
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AJ184
West
1/2 - 1 Mile
Higher

FED USGS **USGS40000269820**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211933157525402		
Monloc name:	3-1952-36 W130-2 KAP		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3226684
Longitude:	-157.8789229	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	15.00
Vert measure units:	feet	Vertacc measure val:	2
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19670601	Welldepth:	80
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AK185
South
1/2 - 1 Mile
Lower

HI WELLS **HI9000000000755**

Wid:	3-1851-019	Island:	Oahu
Well name:	Halekauwila St	Old name:	Not Reported
Yr drilled:	1900		
Driller:	L. McCandless		
Quad map:	13		
Long83dd:	-157.8625		
Lat83dd:	21.305833		
Gps:	0	Utm:	-1
Owner user:	Hawaiian Electric Company, Inc., HECO		
Land owner:	Not Reported		
Pump insta:	Not Reported		
Old number:	102-	Well type:	Not Reported
Casing dia:	1	Ground el:	6
Well depth:	1053		
Solid case:	1043	Perf case:	Not Reported
Use:	OBS - Observation		
Use year:	Not Reported		
Init head:	27.2	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	67		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Test unit:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	Not Reported		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-1047
Bot solid:	-1037	Bot perf:	Not Reported
Spec capac:	Not Reported		

Pump mgd:	0		
Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 2-1-016:015
Aqui code:	30102		
Latest hd:	Not Reported	Wcr:	02-JAN-00
Pir:	Not Reported		
Surveyor:	Not Reported		
T:	Not Reported	Site id:	HI9000000000755

AK186
South **FED USGS** **USGS40000269666**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211832157515501		
Monloc name:	3-1851-19 Halekauwila Street, Pipe A, Oahu, HI		
Monloc type:	Well		
Monloc desc:	former local no. W102		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3057222
Longitude:	-157.8625556	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	6
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Hawaii volcanic-rock aquifers		
Formation type:	Koolau Volcanic Series, Lava Flows		
Aquifer type:	Confined single aquifer		
Construction date:	18970101	Welldepth:	1043
Welldepth units:	ft	Wellholedepth:	1053
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 27

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-10-15		5.30	2004-07-26		5.56
2004-06-17		5.77	2004-03-11		5.96
2004-01-07		5.27	2003-09-29		3.89
2003-01-23		4.90	2002-12-09		5.02
2002-10-10		4.20			
2002-09-17		4.61			
Note: A nearby site that taps the same aquifer was flowing.					
2002-07-18		4.83			
Note: A nearby site that taps the same aquifer was flowing.					
2002-05-16		5.60			
Note: The site was flowing, but the head could not be measured without additional equipment.					
2002-03-25		5.60			
Note: The site was flowing, but the head could not be measured without additional equipment.					
2001-12-27		5.26			
Note: A nearby site that taps the same aquifer was flowing.					
2001-09-25		4.44			
Note: The site was flowing, but the head could not be measured without additional equipment.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2001-08-09		4.49			
Note: The site was flowing, but the head could not be measured without additional equipment.					
2000-09-28					
Note: The site was flowing, but the head could not be measured without additional equipment.					
2000-07-21					
Note: The site was flowing, but the head could not be measured without additional equipment.					
2000-05-23					
Note: The site was flowing, but the head could not be measured without additional equipment.					
2000-04-04					
Note: The site was flowing, but the head could not be measured without additional equipment.					
2000-01-21		5.84			
Note: A nearby site that taps the same aquifer was flowing.					
1999-11-03					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1999-09-13					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1999-08-02					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1999-06-17					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1999-02-25		5.75	1998-12-04		5.80

AK187
South **FED USGS** **USGS40000269667**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211832157515502		
Monloc name:	3-1851-19 Halekauwila Street, Pipe B, Oahu, HI		
Monloc type:	Well		
Monloc desc:	former local no. W102		
Huc code:	20060000	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	21.3056944
Longitude:	-157.8625833	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	6
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	HILOCAL	Countrycode:	US
Aquifername:	Hawaii volcanic-rock aquifers		
Formation type:	Koolau Volcanic Series, Lava Flows		
Aquifer type:	Confined single aquifer		
Construction date:	18970101	Welldepth:	988
Welldepth units:	ft	Wellholedepth:	1053
Wellholedepth units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 32

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-10-15		12.28	2004-07-26		11.60
2004-06-17		12.44	2004-03-11		11.86
2004-01-07		11.14	2003-09-29		10.06
2003-07-10		10.59	2003-04-25		12.24
2003-03-10		12.20	2003-01-23		11.87
2002-10-10		10.75			
2002-09-17		11.24			
Note: The site was flowing, but the head could not be measured without additional equipment.					
2002-07-16		11.80			
Note: The site was flowing, but the head could not be measured without additional equipment.					
2002-05-16		12.58			
Note: The site was flowing, but the head could not be measured without additional equipment.					
2002-03-25		13.68			
Note: The site was flowing, but the head could not be measured without additional equipment.					
2001-12-27		11.76			
Note: The site was flowing, but the head could not be measured without additional equipment.					
2001-09-25		10.75			
Note: The site was flowing, but the head could not be measured without additional equipment.					
2001-08-09		11.05			
Note: The site was flowing, but the head could not be measured without additional equipment.					
2001-06-14		11.65			
Note: The site was flowing, but the head could not be measured without additional equipment.					
2001-03-28		12.15			
Note: The site was flowing, but the head could not be measured without additional equipment.					
2000-11-03		11.97			
Note: The site was flowing, but the head could not be measured without additional equipment.					
2000-09-28		11.83			
Note: A nearby site that taps the same aquifer had been flowing recently.					
2000-07-21					
Note: The site was flowing, but the head could not be measured without additional equipment.					
2000-05-23		12.76			
Note: A nearby site that taps the same aquifer had been flowing recently.					
2000-04-04		13.62			
Note: A nearby site that taps the same aquifer had been flowing recently.					
2000-01-21		14.32			
Note: A nearby site that taps the same aquifer was flowing.					
1999-11-03		13.31			
Note: A nearby site that taps the same aquifer had been flowing recently.					
1999-09-13		13.08	1999-08-02		13.50
1999-06-02		13.66	1999-02-25		14.51
1998-12-04		14.30			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for HONOLULU County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 96817

Number of sites tested: 10

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.110 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.200 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Office of Planning
Telephone: 808-587-2895

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Well Index Database
Source: Commission on Water Resource Management
Telephone: 808-587-0214
CWRM maintains a Well Index Database to track specific information pertaining to the construction and installation of production wells in Hawaii

OTHER STATE DATABASE INFORMATION

RADON

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX C
THE EDR AERIAL PHOTO DECADE PACKAGE

Mayor Wright Honolulu
1020 Liliha Street
Honolulu, HI 96817

Inquiry Number: 4632621.12
May 31, 2016

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

05/31/16

Site Name:	Client Name:
Mayor Wright Honolulu	Weston Solutions, Inc.
1020 Liliha Street	5599 San Felipe
Honolulu, HI 96817	Houston, TX 77056
EDR Inquiry # 4632621.12	Contact: Lisa Waskom

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2008	1"=500'	Flight Date: April, 23 2008	USGS
2004	1"=500'	Flight Date: February, 16 2004	USGS
1985	1"=750'	Flight Date: April, 29 1985	USGS
1978	1"=500'	Flight Date: January, 05 1978	USGS
1976	1"=500'	Flight Date: November, 10 1976	USGS
1968	1"=500'	Flight Date: February, 26 1968	USGS
1952	1"=750'	Flight Date: April, 03 1952	USGS

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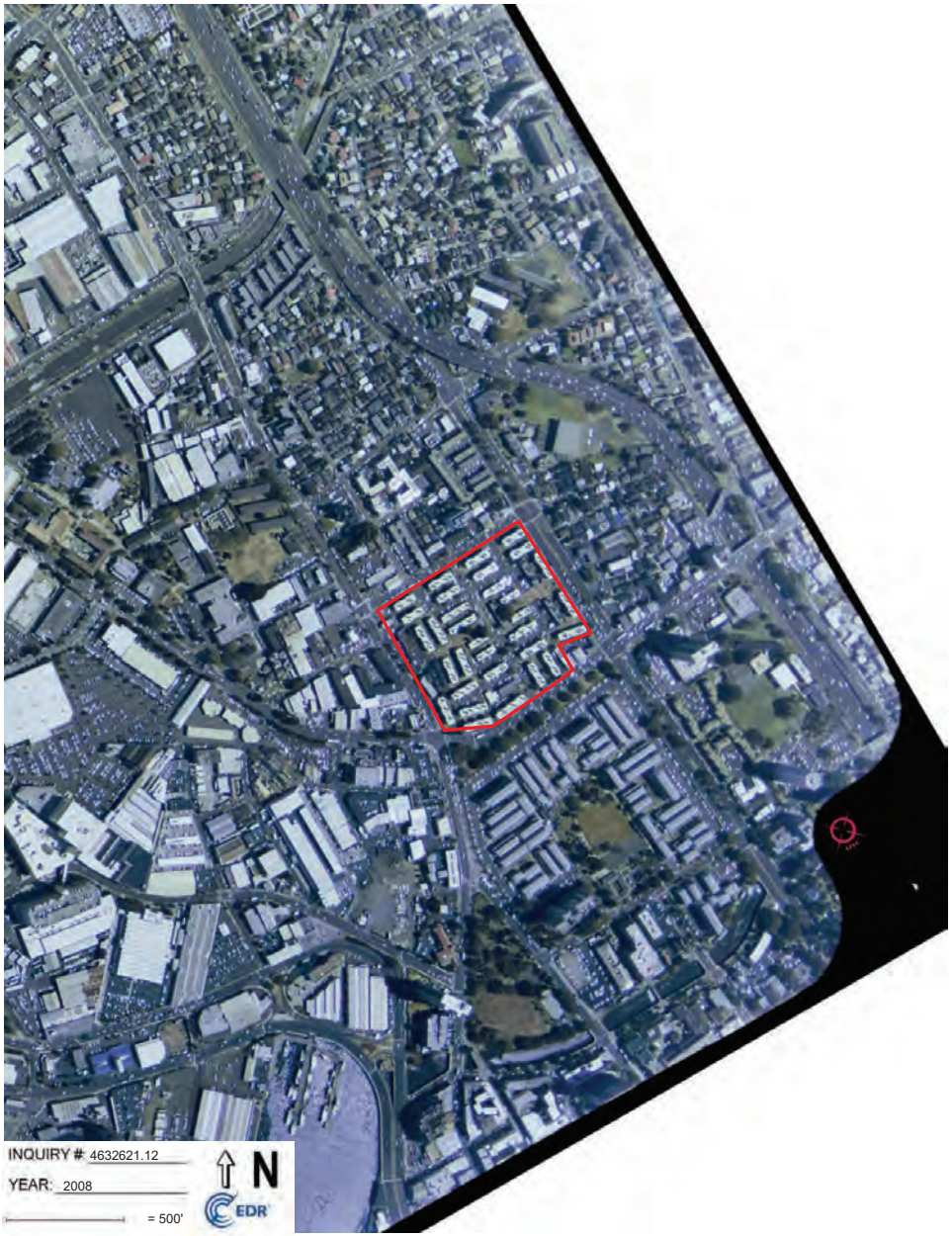
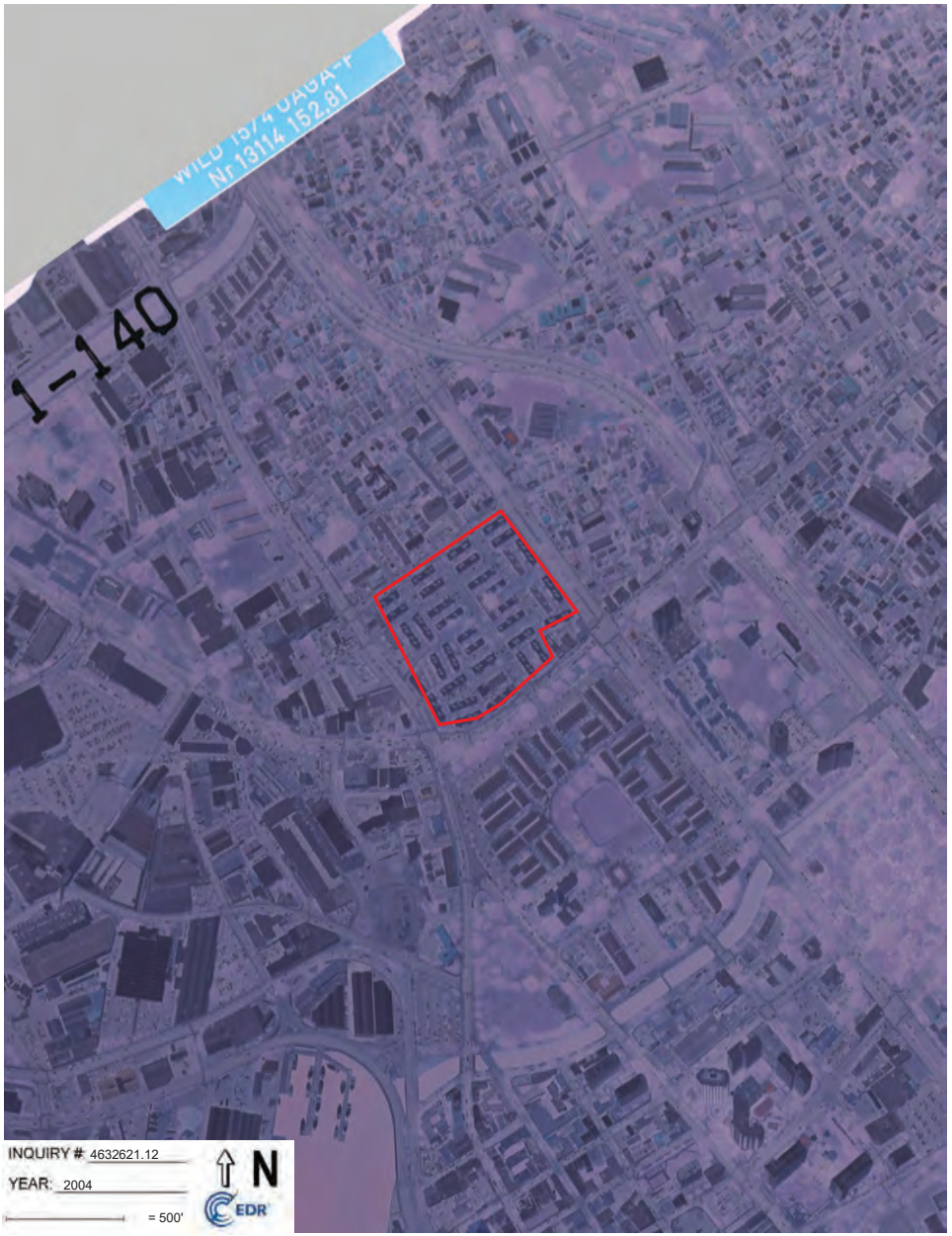
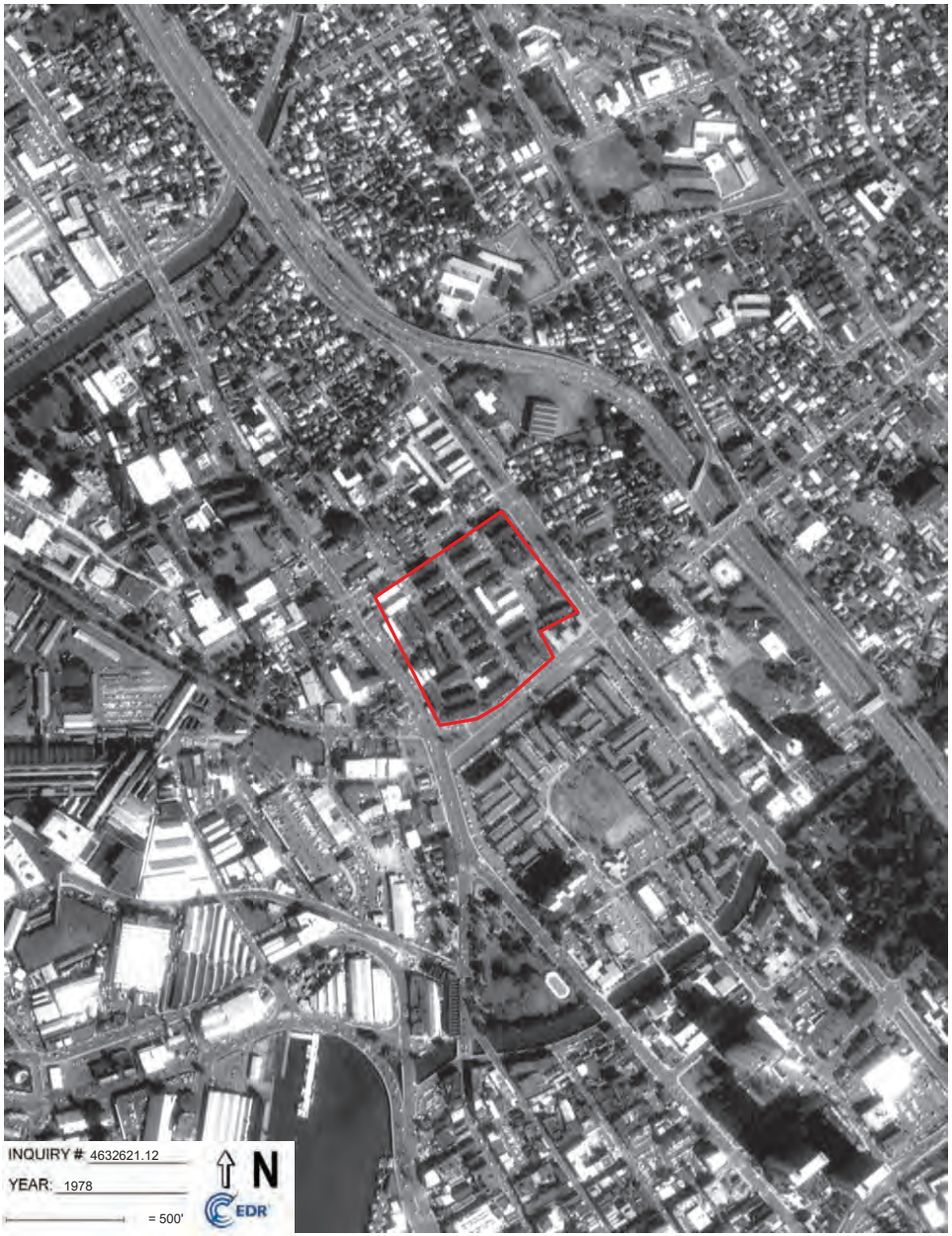
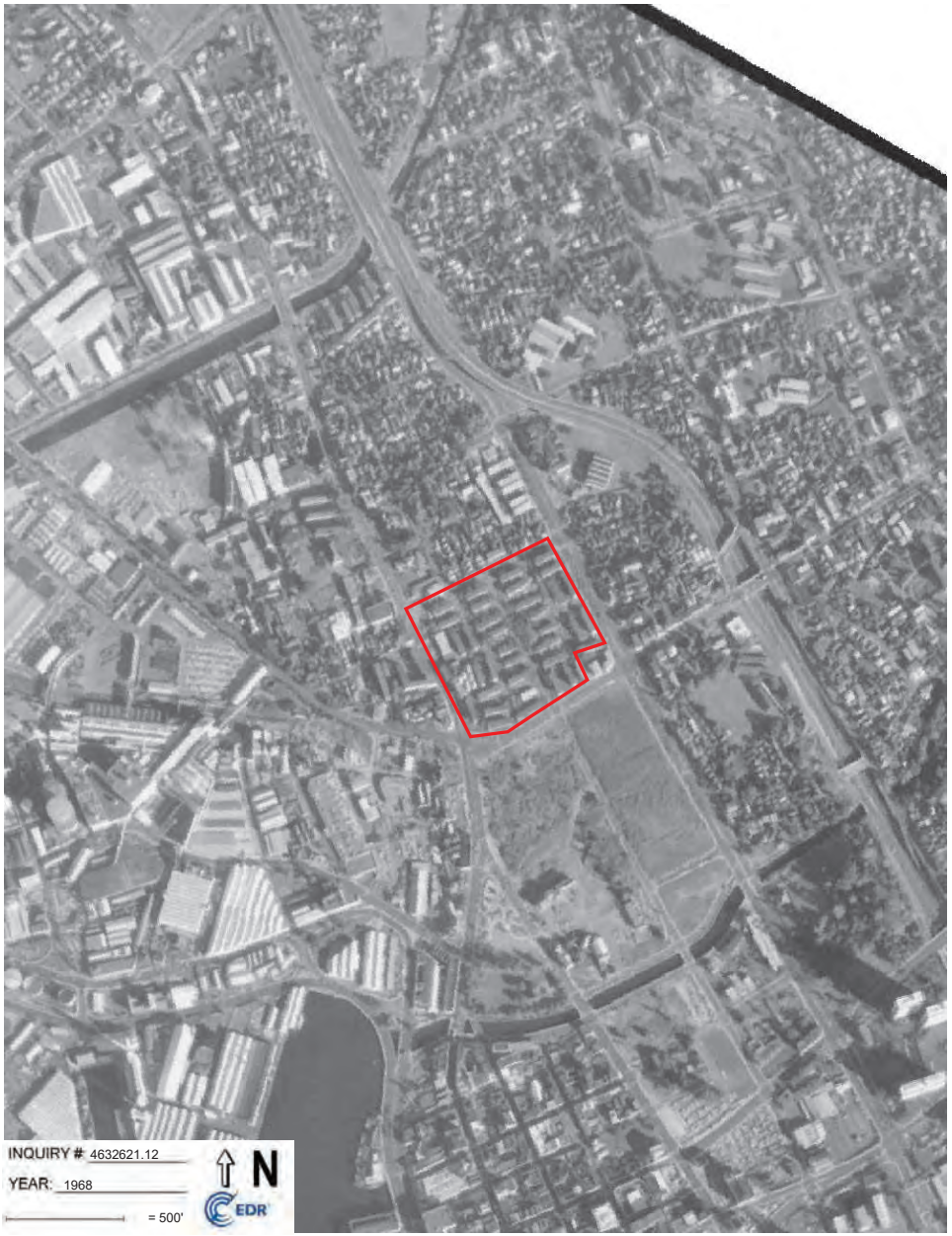

INQUIRY # 4632621.12
YEAR: 2008
= 500'
N
EDR


1-140
INQUIRY # 4632621.12
YEAR: 2004
= 500'
N
EDR

INQUIRY # 4632621.12
YEAR: 1985
= 750'
N
EDR


INQUIRY # 4632621.12
YEAR: 1978
= 500'
N
EDR

INQUIRY # 4632621.12
YEAR: 1976
= 500'
N
EDR


INQUIRY # 4632621.12
YEAR: 1968
= 500'
N
EDR

APPENDIX D
EDR HISTORICAL TOPO MAP REPORT

Mayor Wright Honolulu
1020 Liliha Street
Honolulu, HI 96817

Inquiry Number: 4632621.4
May 31, 2016

EDR Historical Topo Map Report
with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report 05/31/16

Site Name:	Client Name:
Mayor Wright Honolulu	Weston Solutions, Inc.
1020 Liliha Street	5599 San Felipe
Honolulu, HI 96817	Houston, TX 77056
EDR Inquiry # 4632621.4	Contact: Lisa Waskom

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Weston Solutions, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	15350.002.016	**Latitude:**	21.320088 21° 19' 12" North
Project:	Hunt Mayor Wright Phase 1	**Longitude:**	-157.863956 -157° 51' 50" West
		UTM Zone:	Zone 4 North
		UTM X Meters:	617819.87
		UTM Y Meters:	2357998.04
		Elevation:	10.00' above sea level

Maps Provided:

2013
1998
1983
1969
1959
1953

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2013 Source Sheets

Honolulu
2013
7.5-minute, 24000

1998 Source Sheets

Honolulu
1998
7.5-minute, 24000
Aerial Photo Revised 1998

1983 Source Sheets

Honolulu
1983
7.5-minute, 24000
Aerial Photo Revised 1978
Edited 1983

1969 Source Sheets

Honolulu
1969
7.5-minute, 24000
Aerial Photo Revised 1968

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1959 Source Sheets

Honolulu
1959
7.5-minute, 24000
Aerial Photo Revised 1959

1953 Source Sheets

Honolulu
1953
7.5-minute, 24000
Aerial Photo Revised 1952

EDR

Historical Topo Map

2013

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

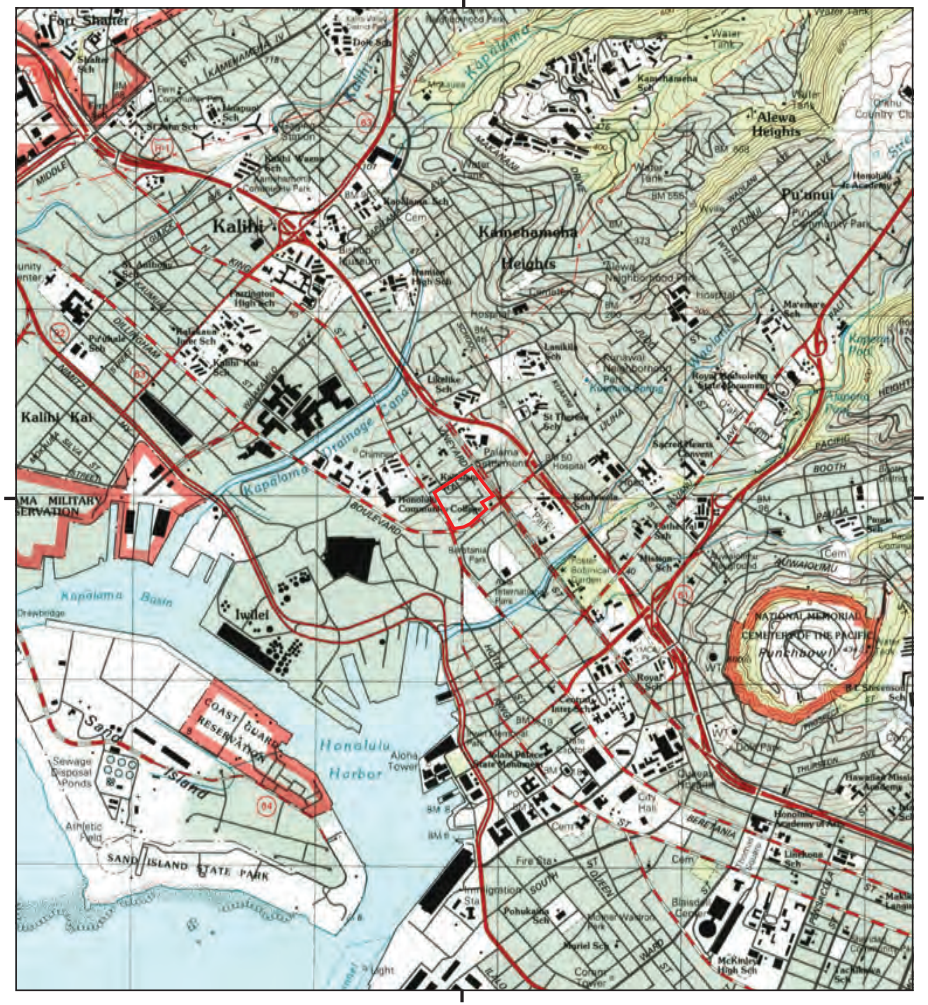
TP, Honolulu, 2013, 7.5-minute

SITE NAME: Mayor Wright Honolulu
ADDRESS: 1020 Liliha Street
Honolulu, HI 96817
CLIENT: Weston Solutions, Inc.

EDR

Historical Topo Map

1998



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Honolulu, 1998, 7.5-minute

SITE NAME: Mayor Wright Honolulu
ADDRESS: 1020 Liliha Street
Honolulu, HI 96817
CLIENT: Weston Solutions, Inc.

Historical Topo Map

1983

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

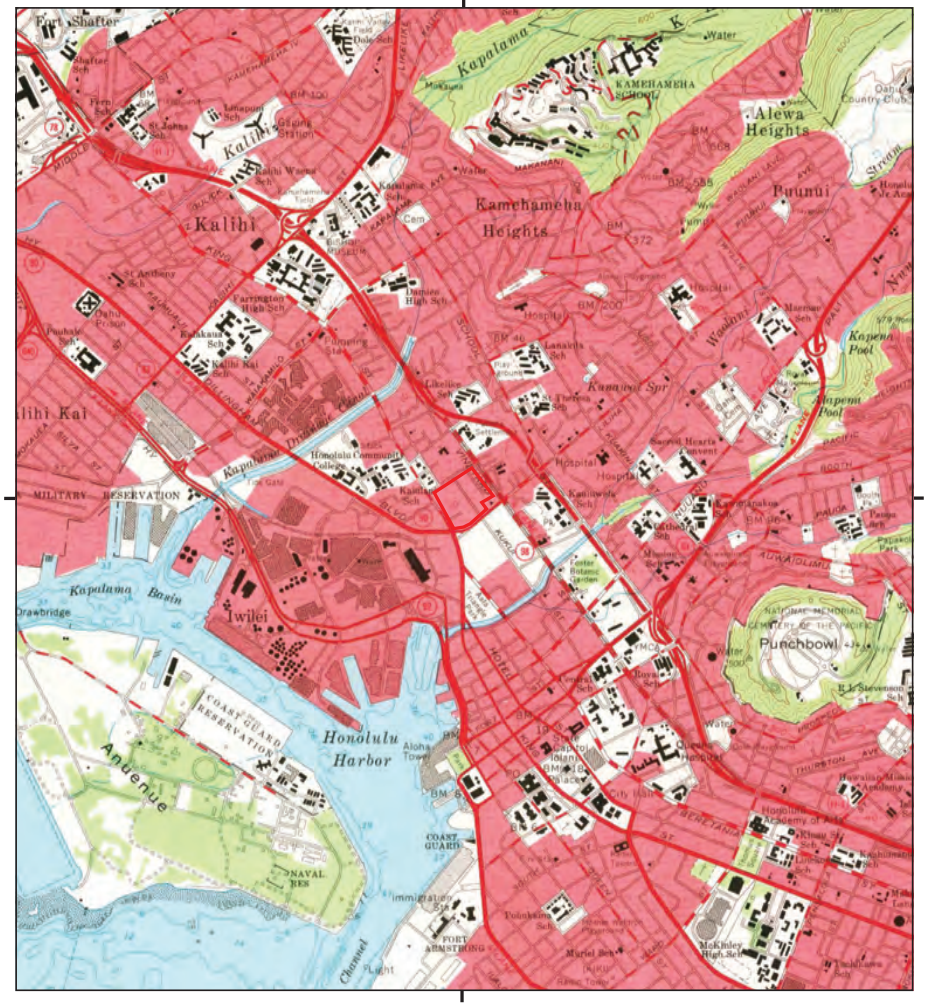
NW N NE
W E
SW S SE

TP, Honolulu, 1983, 7.5-minute

SITE NAME: Mayor Wright Honolulu
ADDRESS: 1020 Liliha Street
Honolulu, HI 96817
CLIENT: Weston Solutions, Inc.

Historical Topo Map

1969



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

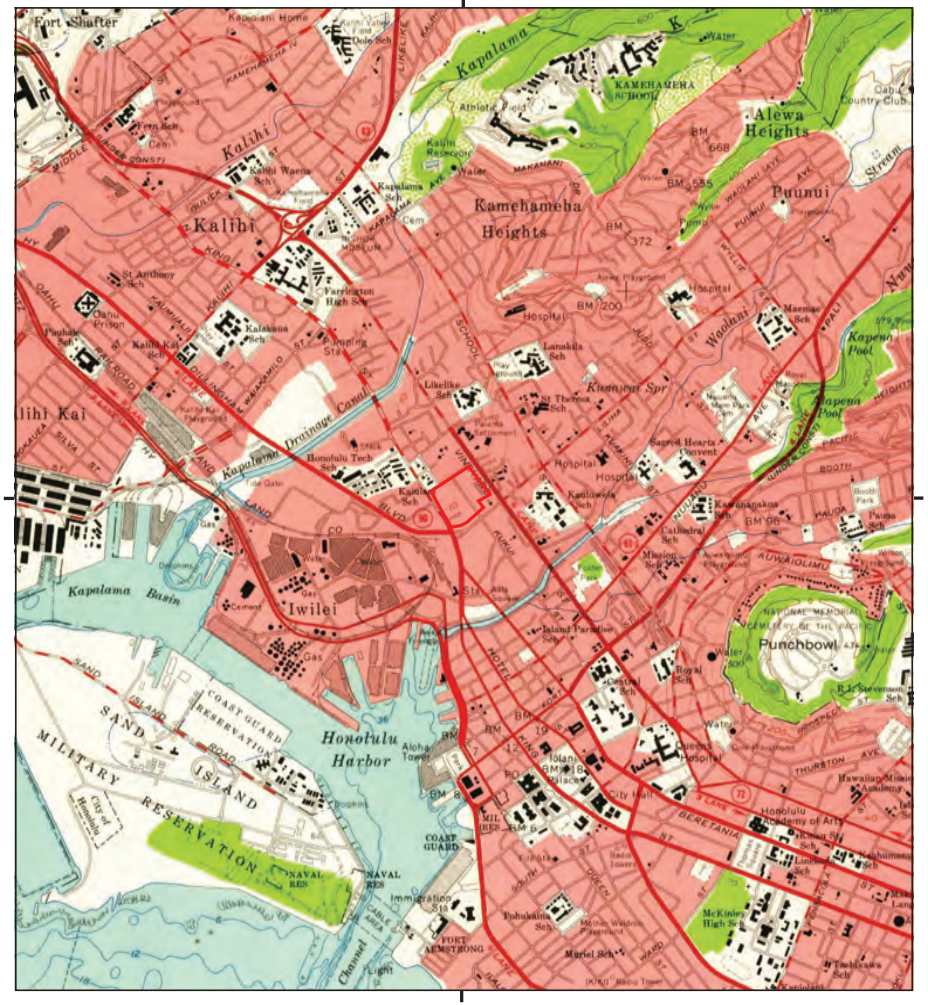
NW N NE
W E
SW S SE

TP, Honolulu, 1969, 7.5-minute

SITE NAME: Mayor Wright Honolulu
ADDRESS: 1020 Liliha Street
Honolulu, HI 96817
CLIENT: Weston Solutions, Inc.

Historical Topo Map

1959



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Honolulu, 1959, 7.5-minute

SITE NAME: Mayor Wright Honolulu
ADDRESS: 1020 Liliha Street
Honolulu, HI 96817
CLIENT: Weston Solutions, Inc.

Historical Topo Map

1953

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Honolulu, 1953, 7.5-minute

SITE NAME: Mayor Wright Honolulu
ADDRESS: 1020 Liliha Street
Honolulu, HI 96817
CLIENT: Weston Solutions, Inc.

APPENDIX E
THE EDR-CITY DIRECTORY IMAGE REPORT

Mayor Wright Honolulu
1020 Liliha Street
Honolulu, HI 96817

Inquiry Number: 4632621.5
June 01, 2016

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2013	☑	☑	Cole Information Services
2008	☑	☑	Cole Information Services
2003	☑	☑	Cole Information Services
1999	☑	☑	Cole Information Services
1995	☑	☑	Cole Information Services
1992	☑	☑	Cole Information Services

RECORD SOURCES

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FINDINGS

TARGET PROPERTY STREET

1020 Liliha Street
Honolulu, HI 96817

Year	*CD Image*	*Source*
LILIHA ST		
2013	pg A2	Cole Information Services
2008	pg A12	Cole Information Services
2003	pg A24	Cole Information Services
1999	pg A35	Cole Information Services
1995	pg A44	Cole Information Services
1992	pg A56	Cole Information Services

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*
N VINEYARD BLVD		
2013	pg. A5	Cole Information Services
2008	pg. A16	Cole Information Services
2003	pg. A27	Cole Information Services
1999	pg. A38	Cole Information Services
1995	pg. A48	Cole Information Services
1992	pg. A57	Cole Information Services

City Directory Images

Target Street	Cross Street	Source
✓	-	Cole Information Services

LILIHA ST 2013

1	GROW CONTROL TREE SERVICE
1001	EUGENE CHAN
	FUSHING YEUNG
	GUAN LIN
	HUINENG LI
	IAT IEONG
	JI KIM
	JIAN ZHENG
	KENNETH TAMANAHA
	KIN KWOK
	LI ZHENG
	SANG SON
	SAU TAM
	SI HUANG
	SUSAN RUAN
	THANH TRAN
	XIAO SHAO
	YAO ZHANG
	YONG CHUNG
	YU CHEN
	ZHENG RUAN
1020	FAITALA MUATUTUTIA
	JIAZHONG RUAN
	LOPAKA PADEKEN
	RICARDO CASTRO
	TIARE AHUNA
	TRINIDAD WERNER
	YU JIAN
1037	JIANGLIN XIAO
1101	ANNE COSTA
	HUI TSAI
	JING YU
	LINA YEUNG
	MAO ZHENG
	NAM CHEUNG
	SADAKO MITSUDA
	YUE LIU
1103	CARMEN LEE
	MIMI KUOK
	TOMMY KIM
	WEI GUO
1104	ELEANOR BOUHER
	EUNICE HEAD
	FOUTAMA MAAE
	JENNIFER LU-LIN
	JOSEPH LEE
	PHUONG MA
	SYLVES NAMWEL
	THICHIEM TRAN
1105	JIEHUAN TANG

Target Street	Cross Street	Source
✓	-	Cole Information Services

LILIHA ST 2013 (Cont'd)

1105	LIK TAM
	MICHAEL TSANG
1107	AMY WU
	CAROL CHUN
	CHEN CHUANG
	CU TSU
	CUIBI XIAO
	DONG LEE
	GABY YIM
	HANG MAR
	HUNG HUYNH
	LYNN TENGAN
	MINGHUI CHEN
	SOK CHAN
	TRACEY LI
	WAI CHEUNG
	XIAO FANG
	YANHAN NIE
	ZHUOBO YAN
1201	CIRIO ALARCA
	GERALD TOM
	JIA CHEN
	JIAN LUO
	JUDY NG
	QING HU
	QINGNIAN TANG
	ROBERT DOMINGUEZ
	ROBERTA GARDNER
1203	CHENG LEI
	SHUI CHENG
1205	ANDREW SUZUKI
	DON TAKEYA
	ERIC YOO
	GARY LEE
	JIA FANG
	JOON CHUNG
	KINGSLEY KWONG
	NORMAN VELASCO
	ROWENA WONG
1207	DANNY LAM
	HUAN ZHU
	JOSEPH SARDINHA
	KYUNG KWON
	PING LEUNG
	RAYMOND WASHINGTON
	WENDY KANESHIRO
	YI YOUNG
	YONG LIANG
1216	ELIZABETH SANCHEZ
	GRAYSON WIDEMAN

Target Street	Cross Street	Source
✓	-	Cole Information Services

LILIHA ST 2013 (Cont'd)

1216	JENNY NGUYEN
	JIAN WEN
	KITINE KINISOU
	PAMELA MARKS
	RUBEN TEJADA
	TAM PHAM
	VINCENT NUNUHA
1301	CHRISTOPHER ACOSTA
	ERICA JOHNSON
	FAALANU BROWN
	HAO GAO
	JIMMY IOSIA
	JOHN LABO
	KAM LEONG
	MATTHEW GAGAOUDAKIS
	N CHAN
	SOLIVEN LANSANGAN
	TERRENCE MA
	TOO LUM
	ZI CHEN
1303	DAVID NAKATANI
	DINH VANPHAM
	FENG LIN
	LAURA TAIMASA
	SANTIAGO BRAVO
	TIEN CHAN
	WEITAO CHEN
	XAVIER IRIAS

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2013

31	JANELLE EIS
59	ZIPPYS
170	KUAN YIN TEMPLE
180	FOSTER BOTANICAL GARDEN
	FOSTER GARDEN GIFT SHOP
	FRIENDS OF HONOLULU BOTANICAL GARDEN
200	ACTION WITH ALOHA LLC
	ADOPTION CONNECTION
	ASSISTIVE TECHNOLOGY RESOURCE CENTER
	CHILD & FAMILY SERVICES
	CHILDRENS ALLIANCE OF HAWAII INC TH
	COMMUNITY ASSISTANCE CENTER
	EGLOBAL FAMILY
	FAMILY SUPPORT SERVICES
	HAWAII BENEFIT ADMINISTRATORS INC
	HAWAII CENTER FOR INDEPENDENT LIVING
	HAWAII LITERACY
	UNITED WAY
	WORKLIFE HAWAII
271	GERALD KIM
	KAM CHAN
	SHAWN BROOKS
273	CHARISH MARIANO-TORRES
	JONATHAN NIMI
	ROBERT GUINN
	RUZENA VORISEK
	TRAVIS TRIVETT
275	ELESE MOSLEY
	TUNU TUPUOLA
277	JEAN TUBBALI
	MOEMOE TAUPAU
	PAUL OFARRELL
	THOMAS SPENSER
	XI CHENG
281	BARBARA TOKUDA
	CILIANG XIAO
	KENNETH LAU
	KON KAM
	MALOU RELLANOS
	MATTHEW NEAL
	MICHAEL KWOK
296	MALAMA MAKUA DAY CARE CENTER
	THE SALVATION ARMY
301	DANIEL LI
	DONALD OKAZAKI
	IOANE UGAITAFA
	JAMSIE VIERRA
	JING CHEN
	KALEO RIBUCA
	OSWALD GABONELAS

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2013 (Cont'd)

301	PING WONG
331	CAROLINE RYOO
	CHRISTINA GRANDINETTI
	CHRISTINE BUCHANAN
	DAVID SHARPERSON
	DELANO JEANPIERRIE
	EDNA BUENAFE
	GWI MIN
	JERRY SIU
	KELVIN LEE
	MEW CHUN
	SAIMON ROBSON
	TAM SALYPHONE
333	AMANDA NOONAN
	CHRISTINE YIP
	DEAN POLLARD
	JONATHAN JOHNSON
	PATRICIA YOUNG
	RYAN SHEA
339	DAVID FISHER
	NORMAN CHANG
	RONNIE CUNNINGHAM
	SHAO WANG
	SPENCER YU
	TRACYLEIGH KANESHIRO
	XINLING YE
357	CHAO LIGUANG
	EDMUND GOO
	GINNY YEUNG
	JASON ANZAI
	KANOE TUVALE
	TALIFAITASI SATELE
359	AMELIA RAMOS
	CHARLES MIU
	DENNIS BURDETTE
	FRANK CROWLEY
	HEIDI DANDREA
	KODY TAM
	MATHEW MARTINEZ
	MELVIE HOWARD-JOHNSON
	OLIVER HAWLEY
	RIDER ANTON
	TRISHA ARASHIRO
	WEITAI ZHOU
366	MALIA RUIZ
	MAUREEN LANGUIT
	RICHARD CHOW
	SEMU POTI
369	CHI MAR
	DAVID SOARES

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2013 (Cont'd)

369	ERNEST TAY
	GEORGE LAW
	H GEE
	HARRISON HARRIS
	JABARI BROOKS
	JANE FAAPALE
	KATHRYN DEBRUIN
	MICHAEL NICKERSON
	MICHAEL SINGH
	MINJIA ZHOU
	NELSON CAMPANIA
	PAUL HWANG
	XIJIN LI
370	JUDY SHUBELKA
	MATTHEW CHARLES
	NANEKI LI
	NORMAN ENDO
	PO CHENG
374	EARL KALANI
	LYLE MATTSON
	ROY TILITILE
378	FENG LUO
	GRACE FALETOI
	HOANG THAI
	JASON YOSHIMURA
	JEREMY NAKAZA-KOIZUMI
	KATHRYN FORSYTHE
382	ALAN CASTANARES
	ALBERT BATIS
	JIUN TAKAHASHI
	YUK NG
386	ALFREDO PASATIEMPO
	DIONNE ISHIMURA
	JONAH TAILO
	TIMOTHY KALINGO
392	DENISE KAANAPU
	HONG LIANG
	ISAIAH KAIMULOA
	KAULUWELA II
	NICHOLAS LAW
	RICARDO CASTRO
401	CHRISTOPHER ULIBARRI
	CHRISTOPHER VAFEADES
	DARTAGNAN TAUM
	HYO MOON
	HYUN SHIN
	JAMES YAEGER
	JOEL CACHO
	LAN LEI
	MARLENE FIO

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2013 (Cont'd)

401	MIA MILLER
	RINDA SIALES
	ROLAND BATO
	SCOTT HORTON
	SCOTT MUNGER
	TIMOTHY SCHOENBACHLER
	TRISTI HUTCHINSON
	WILMA NAKI
404	AUSTIN FALETUFUGA
	K KUHAIKAI
	MICHAEL QUARTERO
	SAM VALENTINE
	TIEN PHAM
	YUNG HO
408	KAREN NISHIIE
	VALENTINA JUAN
412	DAVID SILVA
	EDNA SMITH
	EDNA WALKER
	JASON ZAKIMI
	JOSEPH QUIDACHAY
	KENNETH ENGORING
	SAMUEL TWIGGS
418	CHRISTOPHER LORENZANA
	EDWARD LOPEZ
	JACK LEE
	LYNDA CHEONG
	NATHAN HOLMES
	PUALANI DOMINGO
424	CARMEN VEHEMENTE
	FAITH AWEAU
	JAIME AMORIN
	ROBERT RAQUEDAN
430	ELLEN FREITAS
	FRANCISCO LUTU
	LARRY REYES
	MICHAEL VIERRA
	NYREE SILVA
436	FRANCIE DOCTORELLO
	JAY AGUSTIN
	WILLIAM MOEAVA
511	INFAMOUS TATTOO
515	PIIKOI BARBER & STYLING
517	JOY MARKET
529	CHIEU LA
	HONG NGUYEN
	KUATA LENE
	TAM PHAM
559	GORDON LEE
	M PHENGSAVATH

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2013 (Cont'd)

559 SIPRASEUTH PHANLAMOUNE
SITAE SONIS
TERCY EMITY
THANH TIET
574 PATS AUTO ELECTRIC
577 DIANA LEUTA
JESSIE NARDO
578 MOON GARDEN RESTAURANT
605 ARCY SELLET
H REKIS
KEIVIOLYNN BOSSY
MEILANIE PANGLINAN
TIKIN NAUR
608 DOROTHY CUBIO
ELEUTERIO LOZADA
GUO YANG
JAIME MANTALABA
MELANE CABUG
SANTIAGO HUSAIN
SHUN RONG
619 BJ LUCKY
DARLENE FAASILI
DAY SAYSAMON
HA LY
HAWAII LITERACY
JOSEPH ROCHA
VINCENT RIKAT
622 ANASTACIA CADIENTE
634 CONCHITA CASTILLO-MCDONALD
DIEGO PADAYAO
DOMINGO VEA
NGAI MA
PING LAU
REMEDIOS CORPUZ
RICHARD TSURUDA
WAYNE TABILIN
639 SILFINA KOVAC
642 DANNY AUMUA
DEXTER MATEO
FLORENTINO MADDELA
HAI WANG
JANICE BAUTISTA
JOSEPH GROANING
PRESCOTT CHUN
RICHARD LEE
WAYNE DAVIS
649 DAVID TRINH
KALAVITE AFU
KENYE HASUGULGAM
SACHLEEN TIPWEK

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2013 (Cont'd)

649 TEVITA LAUAKI
703 MARIKO MIKAMI
709 PADMA SEDYANA
714 JETO JALALON
OCCUPANT UNKNOWN
717 HERBERT CHAR
LI CHEN
TAT LAM
801 ANGELITA ACELADOR
ANNIE ACIERTO
BROCULA ESAU
JUANITO YANUARIA
PAUL MORALES
ROBIN SARCEDA
SALOFI LEASIOLAGI
803 CLAYTON URBANO
GUOKANG YANG
JOY ACASIO
KEITH HICKS
LEONEL FLORES
PERLITA PASCUA
TONY TRANG
807 BROWNSON NGUYEN
CHRISTINE TADLAS
ELNA CARDENAS
JEFFERSON FIRME
MIRIAM EVERHART
MISTY ANTONIO
OSI EDRA
PHUONG LUU
SERINA LEAUPEPE
SOLOAO ALUALU
XUEMEI XUE
809 GUO HE
HOANG LUONG
JOEL SERADILLA
MICHAEL ROBERTSON
NATHAN REGIDOR
PORFIRIO EDILLO
SEMISI LOMU
SHANNON MAIKA
810 ALOHA MEDICAL MISSION CLINIC
COMMUNITY CARE SERVICES
HAWAII COUNCIL ON PORTUGUESE HERITAG
NA LOIO
OSHIRO PEGGY
PALAMA SETTLEMENT
PORTUGUESE GENEALOGY
SHIMIZU VOICE STUDIO
TURBO TECH ELECTRONICS LLC

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2013 (Cont'd)

811	HELEN HAIOLA
	HENRY FLORES
	LUCILLE GARCIA
	SHANNON KALUA
	SIZHU WU
	SONNY KAHEAKU
815	BACH PHAM
	DENNIS TORO
	DUY HONG
	EDWARD TAKAKI
	FILOMENA FOLA
	FRANCISCO PASCUA
	GREGORY REGIDOR
	IKUNA PALAVI
	KYLE AU
	REINA FERNANDEZWONG
	RUTH SAOLE
	TAM LE
	VINEYARD COURT APARTMENTS
	WEN HE
819	ALBERT ROGEL
	ANGEL SERAPION
	ASTERIA VIERNES
	BENIGNO VIRAY
	CARMENCITA RIOLA
	FAALETONU PEKO
	FRANK DAVIS
	HUNG ON
	LUPE SEDILLO
	NELSON YONAMINE
	NIA IEREMIA
	TAILO MILO

Target Street	Cross Street	Source
✓	-	Cole Information Services

LILIHA ST 2008

1001	APRIL CACHO
	BONNY KIPI
	CHAN LEONG
	DARRYL JOYCE
	DENNIS KEENE
	DI ZHENG
	EUGENE CHAN
	GUAN LIN
	GUOXING HUANG
	J LAI
	JIMMY CHEN
	JIMMY LI
	JOSEPH KIM
	JUN TANG
	JUNG SHIN
	KANA ZHENG
	KENNETH SMITH
	KIN KWOK
	NAICHI HU
	PHAT TA
	ROBERT MIYASAKI
	SAI LI
	SAU TAM
	SPENCER YU
	STAR VALLEY INC
	SUZIE FIELD
	TAMMY SOARES
	VICKY LEE
	WAN LUI
	YAO YANG
1019	CHARLES CLARK
1020	DONNA ROSA
	GLORIA PULA
	JIAZHONG RUAN
	MACKSON PHILLIP
	TIARE AHUNA
	YU CHENG
1043	CHELSEA HO
1101	CALVIN OKAMI
	GABINO MARTIN
	HAK KIM
	JAMES KO
	JING YU
	JINWEI WANG
	KON KAM
	QIAO DENG
	RAYMOND YEUNG
	SADAKO MITSUDA
	SHEK LEE
	SI CHEN

Target Street	Cross Street	Source
✓	-	Cole Information Services

LILIHA ST 2008 (Cont'd)

1101 WOOSUK CHING
WUN CHOW
YUK CHAN
1103 ACE DRAIN CLEANING & PLUMBING REPAIR
CAI ZHENG
CHRISTY YIM
DEIDRE FREITAS
JINGLIAN CAO
KUKUI GARDENS CORP
MARIANO BAGOLOR
S LIN
1104 ALGINA BERNARD
DAYDA CHAVES
EDGARD CABUDOL
EUNICE HEAD
FOUTAMA MAAE
GINO LOOSE
H TRINH
JENNIFER LIN
MARY JARALBA
NANG HO
NICHOLAS BOSSY
ROBERT ROMERO
SON NGUYEN
UJJAL MAJUMDER
VANESSA DEMELLO
1105 CHANG KIM
EDMUND GOO
FONG MAR
MAVIS YEUNG
NANCY YIM
1107 DANIEL HU
ELIZA YOUNG
GRACE KIM
HANG MAR
IEOK VU
JOSEPH SARDINHA
KI HAN
KWOCK PANG
LYNN TENGAN
MARCIA LEE
O KIM
RAYMOND TRAN
WAI CHEUNG
WAN WONG-LAI
WEN YANG
WOO CHANG
XING LONG
YONG KI
ZHUOBO YAN

Target Street	Cross Street	Source
✓	-	Cole Information Services

LILIHA ST 2008 (Cont'd)

1201 CIRIO ALARCA
JIAN LUO
TERRI CHU
ZHENG SONG
1203 BING LEI
DEBORAH KITAYAMA
EDWIN JOSE
JIAN CHEN
KWAI LEE
NHU TRINH
1205 INES CHEONG
KUKUI MAKAI
MARY PUESTA
PING WONG
RUI ZHAO
SHU HE
WONG JACKIE
ZE WU
1207 CATHY HSIN
CHRISTINE KANG
GARY FONG
KYUNG KWON
LONG LUI
RUI LIU
WENZHI WU
YONG LIANG
YUAN FANG
1216 CHRISTY DUONG
GRAYSON WIDEMAN
LANCE TRUONG
MAI DAO
ME AUVAE
MELINA PEREZ
SIAMALU FOUMAI
1301 CHARLES OTOMO
DAM BUI
DUMOU LIANG
FUNG TOM
FUSHING YEUNG
GO CHING
GUANG ZHENG
HAO GAO
JAMES KU
JINLI HUANG
KAM LEONG
KENNETH TAMANAHA
KIT CHOY
KWONG LAU
KYU YI
LANCE CHONG

Target Street	Cross Street	Source
✓	-	Cole Information Services

LILIHA ST 2008 (Cont'd)

1301 LANCE NOBORI
LOOK SHARP CONTRACTOR
N CHAN
PHILLIP KWONG
TAN MAO
WING LAU
YONG CHANG
YOSHIKO TAKUSHI
YUMING CAI
YUNG TOM
1303 ALEXANDER NAKATANI
CHUCK WONG
DONALD HARRIS
GUO WONG
GUOQUAN ZHOU
JACK CHEUNG
KOON LEUNG
RYAN SATSUDA
YOUWANG WU

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2008

50 CITY & COUNTY OF HONOLULU
59 ZIBBYS RESTAURANT
170 KUAN YIN TEMPLE
180 FOSTER GARDEN GIFT SHOP
FRIENDS OF HONOLULU BOTANICALS GARDE
200 AWARE
CATHOLIC CHARITIES DC HONLL
COMMUNITY ASSISTANCE CENTER
HAWAII LITERACY INC
MAXIMUM LEGAL SERVICES CORP
PARENTS & CHILDREN TOGTHR
ROMAN CATHOLIC CHURCH STATE
THE LEARNING DISABILITIES ASSN OF HI
271 JOANNE LE
JOSEPHINE HOANG
L & T CLOTHINGS
LIN LI
MICHAEL IZUMI
PATRICK BORGES
PATRICK CHANG
YUN HUANG
ZHI HU
273 DENEEN QUARTERO
JAMES CHAN
YONG SONG
275 BIG THUMB HAIR SALON LLC
EMILIA ALONZO
JING CHEN
KIM CHIANG
LUCIA LIM
PAUL HELSHAM
RANDY FALETOI
SHAO ZHAO
ZHENG RUAN
277 IWALANI KALEIWAHEA
JIEHUAN TANG
KWONG CHAN
MICHAEL HASJIMOTO
MOO SUNG
PEARL STEWART
WOON CHAN
YONG CHONG
YOU LIANG
281 ANNIE KWOK
CALVIN MIRAFUENTES
CARLEEN CROWELL
CHARLES MIU
CI XIAO
ERIC PHILPOT
HAIBIN FANG

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2008 (Cont'd)

281 HING LAU
JEAN LEE
JOHN COBURN
KI YI
NELSON CHING
SHUN LIN
TRUDE TOKUDA
XIAO MA
YING MA
ZI CHEN
296 OHANA KEIKI DAY CARE PRESCHOOL
OHANA KEIKI PRE SCHOOL
SALVATION ARMY ADULT DAY HEALTH
301 ANNIE MAR
CONSTANCIA TOPENIO
DENNIS SAMBUENO
HAN ZHANG
JAY YAHIKU
JING CHEN
JOHN NG
KAM CHAN
LEWIS LEONG
MICHAEL NG
PATRICIA YOUNG
PUI LAU
SHUN NG
YUN LI
ZI LIN
331 ALBERTA HONDA
ALVIN SUGAI
AUGUST AMAY
BITNA KIM
FOOK WONG
GEORGE LIU
HUO LEI
JACK CHANG
JAE SON
LAI CHUENG
MEW CHUN
MIGUANG LI
MIMI KUOK
MOSES CHENG
RANDY CHUNG
TAM SALYPHONE
WEI DU
WILLIAM TU
WING CHAN
YEONG JUN
YONG CHUNG
ZHONG LU

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2008 (Cont'd)

333 ANDREW SUZUKI
CHOR YUNG
DING HUANG
ERIC YOO
MOONS FISHING INC
PETER KU
SUNG NA
339 DERJEN SHIAH
DONALD YIM
FENG LUO
HUE LU
JACQUELYN ANAC
MICHAEL GREGORY
QINGLONG ZHANG
SHAO WANG
SHUI CHENG
UT LEE
XIAN CHEN
357 HENRI CASANOVA
JIAN ZHENG
JOHN LAU
KEITH SHEK
KIN HUI
LAM LIU
LUCIA TAM
MANDY FANG
MICHAEL WONG
WEI XU
WING LAI
359 CU TSU
DANIEL LEE
DANNY CHO
HO YU
JIN CHEN
JIN CHUNG
JOEL CACHO
JOSEPH RUTTLE
LOUIS MCNEELY
NOREEN CHAMPION
RONALD YOGI
TATMAN TAM
TAYLOR LAM
WILLIAM KUPAU
YANYUN RUAN
366 ELAINE MATTSON
MALIA RUIZ
MARY CHOW
THOMAS KAIMULOA
369 ANN SANTIAGO
BO MAR

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2008 (Cont'd)

369	CHO PAE
	GORDON CHUN
	HENRY PINHEIRO
	IE KING
	LI LIN
	MAIMOA KUMA
	NAM CHEUNG
	NELSON CAMPANIA
	NGOC HUYNH
	PUALEILANI SANBORN
	TIMOTHY LEE
	TOK SON
	TOP VIP TOURS INC
	WILHELMINA PORGATORIO
	XIJIN LI
370	EDUARDO ZUNIGA
	GRACE ENDO
	GRACE TUISALOO
	MILTON AKANA
374	EARL KALANI
	KRISTY ASATO
	YEW CHUN
378	D THAI
	HOANG THAI
	JONNILYN BROWN
	MICHAEL FORSYTHE
	SHIRLEY CASTILLO
	TIM KALINGO
382	ALAN CASTANARES
	EVELYN BATIS
	JIUN TAKAHASHI
	KAR NG
386	BRANDON PASATIEMPO
	JACQUELINE KEKUMU
	MARK CLOUTIER
	MAXIMO INFIEL
392	DIONYSIA KAANAPU
	KIARA AKANA
	NICHOLAS LAW
400	KAULUWELA II
401	ANDREW YIM
	BRIAN QUAN
	G CHEN
	HALAU LOKAHI PUBLIC CHARTER
	HAN MA UM BAPTIST CHURCH
	HIN KWOK
	HOON CHONG
	HYUN SHIN
	JASON ANZAI
	JEAN NAKI

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2008 (Cont'd)

401	KEALA KOSHIMIZU
	MARLENE KANESHIRO
	MITSUKO UESUGI
	ROSANIA CHOI
	SUK PARK
	VU DO
	WAI CHING
	WILLIAM WONG
	YOUNG LEE
	ZHAO LIANG
402	ANGELA PETROCCIA
404	AUSTIN FALETUFUGA
	K KUHAIKAI
412	ANDREW SILVA
	ANDY TAKATA
	JOSEPH QUIDACHAY
	KENNETH ENGORING
418	EDWARD LOPEZ
	JENNIE DOMINGO
	JEREMY NAKAZA-KOIZUMI
	KYLE CHUN
	LAI LEE
424	JOELDENE AMORIN
	NORA BAUTISTA
	SAITU TAITO
	SEMU POTI
430	FILEMON TUBBALI
	NYREE SILVA
	TAOTAFA LUTU
	VERONICA QUIZON
436	DELCIE KEA
	FRANCIE DOCTORELLO
	JAY AGUSTIN
	ROSE TWIGGS
515	PIIKOI BARBER & STYLING
529	CHIEU LA
	FUSAKO MATIN
	HONG NGUYEN
	PETER DUONG
	SHERYL ANESWALKER
	THI PHAM
559	CHUNG LEE
	M PHENGSAVATH
	SIPRASEUTH PHANLAMOUNE
	THANH TIET
	VALERIE WAIWAIOLE
577	EMANUELE LANGI
	JESSIE NARDO
	LINDA TRINH
	SULIMOA TAUFALELE

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2008 (Cont'd)

577 TONTO HAM
605 ISIKELI LANGI
TERESITA DELACRUZ
TIKIN NAUR
608 ELVISA MANTALABA
GALICANO MORENO
GUO YANG
HUAN GAO
JOHN PANONCIAL
NESTOR BAJA
ROBERT CALAD
SANTIAGO HUSAIN
SELINA CHAN
SHERRYL BAIR
SHUN RONG
TAN TAT
UTAKO WHITE
WAI LEUNG
YU YANG
ZHONG WU
619 BENEDICT RAWIT
BOUNLEUA SAYSAMONDOUANGDY
HAWAII FAMILY LEARNING CENTER
I FAIPAUA
KHOAY LY
LILLY CANTERO
MARIEN NIMWES
THOMAS LOKOT
VAN TRAN
622 ANASTACIA CADIENTE
CAROL IWANAGA
MELVIN CADIENTE
634 ANNA MABANAG
CHEE LEE
DOMINGO VEA
NGAI MA
RICHARD TSURUDA
639 SILFINA KOVAC
642 ADRIAN ACOSTA
DEXTER MATEO
EUGENE HEA
FLORENTINO MADDELA
MICHELLE VENZON
NARCISO BAUTISTA
RICHARD LEE
649 ANDY LETRACY
BASLEY KILLION
DAVID TRINH
KALAVITE AFU
KHUONG NGUYEN

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2008 (Cont'd)

649 MALAYKHONE THAKHAMHOR
RAUL MADELA
TOMIA GEE
703 HENRY MIKAMI
704 LONG NGUYEN
709 HERBERT MATSUBARA
PADMA SEDYANA
710 M GUTUTALA
714 OCCUPANT UNKNOWN
SEMATINA JALALON
717 CHI WONG
HERBERT CHAR
KIMPING CHIANG
LI CHEN
TAT LAM
801 CESAR CUADROS
ELSIE ACELADOR
HENRY ANSAGAY
JUANITO YANUARIA
PAUL MORALES
QUANG LAM
ROBIN SARCEDA
TRINH DUONG
803 ANDREA GRABOW
ASENATI ISAAKO
CLAYTON URBANO
ERIC TAGASHIRA
N MEMBRERE
PERLITA PASCUA
TONY TRANG
807 A OFISA
AI CHEN
APOLINAR MOJICA
JEFFERSON FIRME
JESSIE PEDRO
MIRIAM EVERHART
RAMONA BUSH
REYNALD CARDENAS
ROLANDO ACELADOR
SERINA LEAUPEPE
SOLOAO ALUALU
THE CORP OF THE PRESIDENT OF THE CHU
809 ALBERTO ESTABILLO
CAROLINE MAIKA
DENH VONG
HOANG LUONG
MATTLIE DAVIS
MAVILOU SERADILLA
NATHAN REGIDOR
PORFIRIO EDILLO

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2008 (Cont'd)

810	HAWAII COUNCIL ON PORTUGUESE HERITAG
	NA LOIO
	PALAMA SETTLEMENT
811	ANGELIQUE GARCIA
	BRETT LEIGHTON
	H NGUYEN
	HELEN HAIOLA
	STEVEN FLORES
815	ALEXANDER IRVINE
	ARTHUR BROWN
	BACH PHAM
	BROCULA ESAU
	DAISY WILLIAMS
	DARRYL KANANA
	DENNIS TORO
	FILOMENA FOLA
	FORTUNATO ZAMORA
	GENERA PASCUA
	GLORY MILMAO
	GREGORY REGIDOR
	IKUNA PALAVI
	PERRY TRAN
	SHERIDAN TRUST
	SUNIL DAVID
	V HONG
819	ALBERTO VILLARTA
	ASTERIA VIERNES
	FAALETONU PEKO
	HUNG ON
	JASON ROGEL
	LEONARD DEGUZMAN
	LILY MALUINA
	NELSON YONAMINE
	SIENI MAIAVA
	WALTER HO

Target Street	Cross Street	Source
✓	-	Cole Information Services

LILIHA ST 2003

1001	BING CHEN
	CHAN LEONG
	DARRYL JOYCE
	DI LI
	EUGENE CHAN
	EUN KIM
	HAN WANG
	HUN CHUNG
	J LAI
	JUNG SHIN
	KANA ZHENG
	KIM EUN WHA PARK
	KIN KWOK
	LI SAI
	LINA YOUNG
	MILDRED BROVELLI
	SAI CHAN
	SAI LI
	SAU TAM
	SHUI LEE
	SING LEE
	SPENCER YU
	TAMMY SOARES
	WAN LUI
	YAN HUANG
	YAO YANG
	ZHI HU
1020	HATSADY MOUNTHONGDY
	JIAZHONG RUAN
1101	ALLAN K LOO
	ALLAN LOO
	ALLISON LEE
	ARTHUR KIM
	CALVIN OKAMI
	HAK KIM
	HAR KO
	JAE JUN
	JING YU
	QIAO DENG
	SADAKO MITSUDA
	SHEK LAU
	SI CHEN
	TIMOTHY LEE
	WUN CHOW
1103	CAI ZHENG
	CHOW FUNG
	SOO HAN
1104	BACH NGUYEN
	JENNIFER LU-LIN
	LYNN TRA

Target Street	Cross Street	Source
✓	-	Cole Information Services

LILIHA ST 2003 (Cont'd)

1104	RICHARD ADKINS
	ROBERT ROMERO
	ZANETA HEAD
1105	CHANG KIM
	EDMUND GOO
	FONG MAR
	LIK TAM
	MAVIS YEUNG
	NANCY YIM
	WENDI HASEGAWA
1107	CHUL CHANG
	DEBORAH DUDOIT
	EDDRIENE LASCONIA
	ELIZA YOUNG
	ERIC DUVAUCHELLE
	JOSEPH SARDINHA
	KI HAN
	LYNN TENGAN
	RAY TENGAN
	SOK CHAN
	WEN YANG
1201	CLIFFORD CHANG
	DAM BUI
	DI ZHENG
	EDWARD LEE
	FEN LEMA
	JIAN LUO
	JOANN OTOMO
	TERRI CHU
	ZHENG SONG
1203	AGNES LOI
1205	EARL HELEKAHI
	IN CHEONG
	IP MAR
	JAMES KIM
	KAY KAUHINI
	MARY PUESEA
	PING WONG
	ROSCOE GLINES
	RUI ZHAO
	WELLINGTON WON
	YOK CHAN
1207	CATHY HSIN
	CHARLES MCKEE
	CHONG CHUNG
	CHONG LEE
	FELIX CHENG
	GUOHE FANG
	LONG LUI
	MAN CHO

Target Street	Cross Street	Source
✓	-	Cole Information Services

LILIHA ST 2003 (Cont'd)

1207	NORMAN SULLIVAN
	RICHARD LEE
	SEOK CHO
	YONG LIANG
	YUAN FANG
1216	DIEU PHUONG
	HOON CHUNG
	KIEU CHAU
	L KAIO
	LAURETA RAVELO
	LILLIAN LUM
	ME AUVAE
	SANH TRAN
	SIAMALU FOUMAI
	WRECKS SORCEY
1301	ALBERT STANLEY
	ANNIE KWONG
	FUSHING YEUNG
	IN CHOY
	JASON KIM
	KWOCK CHAR
	LANCE CHONG
	LANCE NOBORI
	MAO TAN YAO
	N CHAN
	POHAI RYAN
	SAM KWONG
	SANG CHANG
	TAI LAU
	TAN MAO
	WAI CHEUNG
	WENDY LI
	WING LAU
	YUE ZHOU
	YUNG TOM
	ZHAO WU
1303	ANANIAS MANDADO
	DONALD HARRIS
	GORO TOBA
	GUO WONG
	GUOQUAN ZHOU
	JACK CHEUNG
	KOON LEUNG
	MARK NOBORI

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2003

23	NORMA LUKE
50	OCCUPANT UNKNOWN
170	KUAN YIN TEMPLE
	YIN KUAN
180	FOSTER GARDEN GIFT SHOP
	OCCUPANT UNKNOWN
200	ADOPTION CONNECTION
	CHILD & FAMILY SERVICE
	LEARNING DISABILITIES ASCTN
	LYNN CHING
	MAXIMUM LEGAL SERVICES CORP
271	H KAMOKU
	JOEY HUANG
	JOSEPHINE HOANG
	LIN LI
	SOLEDAD SAMORTIN
	SOON KIM
	THI NGUYEN
	YOUNG LEE
273	DENEEN QUARTERO
	SANGWOO OH
	SEUNG SONG
275	ELLEN CHAO
	EMILIA ALONZO
	FELUANI FALETOI
	JING CHEN
	KAM WONG
	LUCIA LIM
	PAUL HELSHAM
	ZHENG RUAN
277	MICHAEL HASHIMOTO
	MICHAEL HASJIMOTO
	MOO SUNG
	RUN LIN
	WING CHAN
	WOON CHAN
	YONG CHONG
	YOU LIANG
281	CHONG KIM
	CI XIAO
	DU LIANG
	HAN MA
	HING LAU
	HYO CHU
	JEAN LEE
	JOHN COBURN
	KEITH SHEK
	KI YI
	MARY MIU
	MAURICE LEE

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2003 (Cont'd)

281	NELSON CHING
	SONG KO
	YIU KWOK
296	REGINA LUULOA
301	CARLEEN CROWELL
	JAY YAHIKU
	JEUNG MAR
	JIN HUANG
	KENNETH LEE
	KWOCK PANG
	LEWIS LEONG
	MARCELLA JOSE
	PUI LAU
	SIK CHAN
	T SOEDA
	TAMMY STANCIL
	V HO
331	ALBERTA HONDA
	ALVIN SUGAI
	AUGUST AMAY
	CHUCK WONG
	EUGENE KIM
	FOOK WONG
	GEORGE LIU
	H WONG
	JACK CHANG
	JI MOON-KIM
	JIAN DUWEI
	JUHYUN JUN
	KENNETH TAMANAHA
	LIN TANG
	LIONEL BORGES
	MIMI KUOK
	MOSES CHENG
	NOMI LEE
	SALLY LEONG
	SHIANG KIANG
	THOMAS NAKAYAMA
	TING LAU
	WAI LI
	WILLIAM TU
	YONG CHUNG
333	BEATRICE MORSE
	CHAM LAU
	CHI YUNG
	CHONG KU
	MOONS FISHING INC
	RICHARD LAU
	RUI LIU
	SUNG NA

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2003 (Cont'd)

333 YANG MOON
339 BENJAMIN LEE
DERJEN SHIAH
EARL WALLACE
JUDY CHANG
LIN FENG
SHAO WANG
TOM KIM
357 ANNIE LAU
CLINTON LEN
JAMES CHING
JOHN LAU
KIN HUI
KYUNG PARK
LAM LIU
LUCIA TAM
PUI LEE
QUI CHAO
ROSALINE FREITAS
TAT WONG
TOSHIO KOGA
VIOLET TARA
WEI XU
YONG LAI
ZHONGTAO OU
359 BU CHONG
FANG CHENG
JIN CHEN
JIN CHUNG
KI LAM
KULEANA VALVE & FITTING CO
KWAI LEE
LOUIS MCNEELY
N RUTTLE
NOREEN CHAMPION
PEI LIU
RAYMOND YEUNG
RONALD YOGI
TSUNG KWONG
YOOK CHAN
369 ARNOLD EDWARDS
BOBBY KING
CHO PAE
CHONA CAMPANIA
CHRISTINA YI
GERMAINE EDWARDS
GORDON CHUN
JIAO HUANG
KAM CHEUNG
MUN LUI

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2003 (Cont'd)

369 NAM CHEUNG
PHAT LUYEN
SIAOSI KUMA
SON TOK MAN
XIJIN LI
370 GRACE ENDO
MILTON AKANA
RUSSEL CHENG
SHOKO HORIUCHI
374 D ASATO
EARL KALANI
YEW CHUN
378 IRIS BROWN
MARIA THAI
SHIRLEY CASTILLO
382 JIUN TAKAHASHI
STEPHANIE CASTANARES
YUK NG
386 ALFREDO PASATIEMPO
GREGORY PELAYRE
JACQUELINE KEKUMU
MAXIMO INFIEL
VIRGINIA ORTALEZA
392 DIONYSIA KAANAPU
EDUARDO ZUNIGA
NICHOLAS LAW
VANESSA NAKATANI
400 KAULUWELA II
401 ANDREW YIM
AUGGIE GONSALVES
DON BALDWIN
GORDON YIM
GRACE KIM
GUADALUPE ADARNA
HIN KWOK
HING LEE
HOON CHONG
HYUN SHIN
JEAN NAKI
KEALA KOSHIMIZU
LIMIN CHEN
MICHAEL TSANG
MITSUKO UESUGI
SOOK LEE
SUK PARK
TRACY KANESHIRO
WAI CHING
WILLIAM WONG
402 ANGELA PETROCCIA
404 E QUARTERO

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2003 (Cont'd)

404 FUAOLOA FALETUFUGA
K KUHAIKAI
412 GARY WONG
JASON ZAKIMI
418 EDWARD LOPEZ
JENNIE DOMINGO
424 JOELDENE AMORIN
NEL SAGAPOLU
430 FILEMON TUBBALI
GERALD MEYER
MICHAEL VIERRA
VALENTINE RICHARDS
436 DELCIE KEA
M AGUSTIN
ROSE TWIGGS
515 PIIKOI BARBER & STYLING
517 OCCUPANT UNKNOWN
YAMASIN MARKET
529 CHIEU LA
GAILYN RAPOSAS
HONG NGUYEN
RICHARD PENA
THI PHAM
TUFUI FONOTI
544 TONG ON
559 CHUNG LEE
JOANNE THAI
M PHENGSAVATH
PALIKSRU PALIK
SIPRASEUTH PHANLAMOUNE
572 OCCUPANT UNKNOWN
574 HAWAII DISCOUNT AUTO PARTS
577 ENRIQUETA YACAS
PHUONG NGUYEN
SALOME LANGI
580 DONG YANG ORIENTAL MARKET
HONOLULU WIRELESS
605 ISIKELI LANGI
LONG NGUYEN
608 ARIEL LAURENTE
CELIA PONTINO
GUO YANG
HING LEUNG
JAIME MANTALABA
JEAN PANONCIAL
JUANITO CUA
NESTOR BAJA
SANTIAGO HUSAIN
SHERMAN YEE
TAN TAT

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2003 (Cont'd)

608 TAT TAN
YEE LOOK WAI
619 HA LY
LILLYJEAN CANTERO
LY HA
THOMAS WILLIAMS
VAN TRAN
622 FRANCES IWANAGA
634 BILLY MA
CHEE LEE
DOLORES GUZMAN
DOMINGO VEA
EDITHA PADAYAO
FERNANDO JAVIER
642 CACHE BOUREN
DEXTER MATEO
EUGENE HEALING
GRACE TANAKA
RICHARD LEE
649 ANDY LETRACY
AVON TRINH
CHU CHEN
DAI TRAN
KHUONG NGUYEN
NGOC TRINH
TRINH AVON LYN
703 HENRY MIKAMI
704 CORNELIO ALOB
709 HERBERT MATSUBARA
714 OCCUPANT UNKNOWN
SERGIA JALALON
717 ERIC LAM
HERBERT CHAR
LI CHEN
RUIXING ZHAO
WINSTON FONG
ZU LIU
801 ELSIE ACELADOR
ERNEST HINTON
JOSEPH DESA
JUANITO YANUARIA
JUSTIN KAAHANUI
LUONG TRAN
ROBIN SARCEDA
803 CATALINO OJAS
LEONORA LIGERALDE
LYDIA CHEW
MARJORIE KANO
MARLYN ULIBAS
MICHAEL BOWMAN

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2003 (Cont'd)

803 NORMA GOLDSON
PERLITA PASCUA
807 LOUANN BUSH
MIRIAM EVERHART
REYNALD CARDENAS
ROLANDO ACELADOR
TUPHAN TIET
WILSON CURIOSO
YOLANDA YUTAKA
809 J MAREKO
JANICE PACHICO
810 AFFORDABLE HOUSING ALLIANCE
COMMUNITY CARE SERVICES
ELLEN HEID
FAMILY SERVICE CTR
HAWAII BIODYNE INC
HAWAII COUNCIL ON PRTGS HRTG
LOIO NA
NA LOIO
NAACP HONOLULU HAWAII
NANCY PRENTICE
PALAMA SETTLEMENT CRBT HOUSE
PORTUGUESE GENEALOGY
SALVATION ARMY FAMILY
SALVATION ARMY THE PROGRAMS
STACEY PACQUING
YOUTH CRUSADE INC
811 ANA MIKAELE
HA TRAN
HENRY FLORES
NHUT LELY
RANDY NUNIES
815 C KANANA
DAISY WILLIAMS
FILOMENA FOLA
HAN LUONG
HIEN LIEN
K KANOHO
LAN HA
MARK FAILAUGA
S FUTI
SARAH KUHIA
VINEYARD COURT APARTMENTS
819 ALBERTO VILLARTA
EILEEN CAPLAN
EVA FERRER
FRANKIE DAVIS
JOHN DACUAG
LEO ASUELU
LILY MALUINA

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 2003 (Cont'd)

819 NELSON YONAMINE
SEPE ASHER
SUSAN VIRAY

Target Street	Cross Street	Source
✓	-	Cole Information Services

LILIHA ST 1999

1001	CHAN LEONG
	DI LI
	HON YEUNG
	JAMES KITABATA
	JIN MA
	JOHN TONG
	JUNG SHIN
	KIM EUN WHA PARK
	KIN KWOK
	LI SAI TO
	MILDRED BROVELLI
	PAK MARR
	SAI CHAN
	SATO OKANO
	SAU TAM
	SHUI LEE
	SPENCER YU
	STEVEN LIU
	TAMMY SOARES
	WAN LUI
	XI LI
	YAN HUANG
	ZHI HU
1020	ZHAO CHENG
1058	BONNIE LIANG
1070	OCCUPANT UNKNOWN
1101	ALLAN LOO
	BING CHEN
	DE CHO
	EMILY LIU
	HAK KIM
	JAMIE BARBOZA
	JING YU
	NORMA OKAMI
	YIU YU
	ZHAO WU
1103	SOON TAK
	YUN LAU
1104	CARRIE THOMSON
	J LU-LIN
	SANI OLIVE
	SEGUNDO RAMOS
1105	AARON LO
	C PUNIO
	CHANG KIM
	TEVITA PENISINI
	YAN MIAO
1107	CHANEL TAITO
	CHUL CHANG
	ELIZA YOUNG

Target Street	Cross Street	Source
✓	-	Cole Information Services

LILIHA ST 1999 (Cont'd)

1107	JOSEPH SARDINHA
	KI HAN
	LAURA LI
	LYNN TENGAN
	SOK CHAN
	SOLEDAD SAMORTIN
	WAI CHEUNG
1201	FONG MAR
	JIAN LUO
	KI YONG DO
	O POON
	SING LEE
	WEN YANG
1203	BING LEI
	JIAN CHEN
	TAK TSUI
	WONG CHONG
1205	EARL HELEKAHI
	HON WONG
1207	CATHY HSIN
	FELIX CHENG
	MAN CHO
	RICHARD LEE
	SOON CLARK
	YONG LIANG
	YUAN FANG
1216	DIEU PHUONG
1249	OCCUPANT UNKNOWN
1301	ANDREW SONG
	DIONNE MCKEE
	EDUARDO TOPENIO
	ELSIE JOYCE
	IRENE PARK
	JASON KIM
	KWOK CHAN
	LANCE CHONG
	LANCE NOBORI
	LONG LUI
	M ENOS
	MAO TAN YAO
	PHILLIP KWONG
	ROBERT CHOW
	ROSCOE GLINES
	SAM KWONG
	SHI ZHENG
	TAI LAU
	WING LAU
	XI YANG
	YING LI
	YUNG TOM

Target Street	Cross Street	Source
✓	-	Cole Information Services

LILIHA ST 1999 (Cont'd)

1301	ZHENG LIANG
1303	DI ZHENG
	E HARRIS
	GORO TOBA
	JACK CHEUNG
	JI HIAO
	KAI TAM
	LOY KIM
	MARK NOBORI
	SEOK CHO

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 1999

50	HONOLULU CITY & COUNTY PARKS & RECREATION
59	ZIPPYS RESTAURANTS VINEYARD
170	YIN KUAN
180	FOSTER BOTANICAL GARDENS VISITOR INFORMATION
	FOSTER GARDEN GALLERY
	FRIENDS OF HONOLULU BOTANICAL GARDENS
200	ALOHA UNITED WAY
	AWARE
	BIG BROTHERS BIG SISTERS OF HONOLULU INCORPORATED
	CATH CHARITIES CATH CHARITIES FAMILY SERVICES
	FAMILY CENTER PROJECT THE
	HAWAII COMMUNITY SERVICES COUNCIL
	JOHN HOWARD ASSOCIATION OF HAWAII
	LEARNING DISABILITIES ASSOCIATION OF HAWAII
	MENTAL HEALTH ASSOCIATION IN HAWAII
	NEIGHBORHOOD JUSTICE CENTER
271	ANTHONY MORSE
	DAVID OYE
	HING LAU
	HUANG RUN HONG
	KAM LAM
	M JOSE
	TARA HAN
	VINCENT NG
275	GUO XING QUAN
	HECTOR WONG-CHAN
	JING CHEN
	KAM WONG
	ZHI XU
277	ARTHUR SEU
	CHONG PAK
	HUA LIANG
	MOO SUNG
	MYUNG CHANG
	PEARL STEWART
	PUI LAU
	WING CHAN
	YAN CHENG
	YONG CHONG
281	CARLEEN CROWELL
	DU LIANG
	HING LAM
	KI YI
	LEE TAN
	MARY MIU
	NELSON CHING
	SI CHEN
	WEI XU
	YUE MA
	YUI CHING

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 1999 (Cont'd)

296	MALAMA MAKUA DAY CARE CENTER
	OHANA KEIKI DAY CARE PRESCHOOL
	SALVATION ARMY THE DIVISIONAL HEADQUARTERS
	SALVATION ARMY THE PROGRAMS
301	CHONG KIM
	JACK CHAN
	JIN HUANG
	LEWIS LEONG
	M YOUNG
	MAJOR SOEDA
	PUI LAU
322	OCCUPANT UNKNOWN
331	ALBERTA HONDA
	ALVIN SUGAI
	ANA VARGAS
	C CHANG
	CHOU KIANG
	CHUCK WONG
	EUGENE KIM
	F WONG
	GEORGE LIU
	H WONG
	JACK CHANG
	LIN TANG
	LIONEL BORGES
	MOSES CHENG
	NOMI LEE
	SALLY LEONG
	SOON NAM
	THOMAS NAKAYAMA
	TING TSANG
	WAI LI
	WILLIAM TU
	ZHAO LEI
333	ALBERT CHEUNG
	CHAM LAU
	CHI YUNG
	FRANCIS TSUI
	GRACE FALETOI
	N RUTTLE
	PETER KU
	RUI LIU
	SUNG JUN
339	AUGUST AMAY
	DONALD YIM
	LEE PIL MOON & YOUNG JA
	LIN FENG
	MO LEUNG
	SHAO WANG
349	OCCUPANT UNKNOWN

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 1999 (Cont'd)

357	A GOYA
	C RODRIGUES
	E LEE
	FUNG CHOW GET
	KIN HUI
	KYUNG PARK
	LAM LIU
	T TSUCHIYAMA
	TOSHIO KOGA
	YIN LEONG
	YONG LAI
359	E MCNEELY
	JIN CHEN
	JIN CHUNG
	KI LAM
	LIN LI
	N RUTTLE
	RALPH AMANTE
	RAYMOND YEUNG
	RONALD YOGI
	RUI ZHAO
	TSUNG KWONG
	WILLIAM KUPAU
361	OCCUPANT UNKNOWN
366	MICHAEL SASAKI
369	ARNOLD EDWARDS
	BOBBY KING
	CHEW CHUN
	G EDWARDS
	GUO LUO
	HARRY NAKATANI
	KAM CHEUNG
	MUN LUI
	NAM CHEUNG
	SANG LEE
	SON TOK MAN
	THOMAS KIM
	YEONG JUN
370	GRACE ENDO
	PLACIDO NARTATEZ
	PO CHENG
374	D ASATO
	EARL KALANI
	L RICHARDS
378	N KALINGO
382	LUKE KEA
	YUK NG
386	ALFREDO PASATIEMPO
	BENITO PELAYRE
	MAXIMO INFIEL

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 1999 (Cont'd)

392 D KAANAPU
NICHOLA LAW
401 CASEY MAU
CHUNG FONG
GORDON YIM
JEAN NAKI
JEANIE SHIN
JOY TAKUSHI
QI WANG
QING HU
SOOK LEE
STEPHEN KANESHIRO
WAI CHING
WU YOU CHAI
YING AU
408 LARRY BERTLEMAN
LIBRADA ALLAS
412 GARY WONG
418 JACK LEE
424 SARAH YAMAMURA
429 OCCUPANT UNKNOWN
430 MARGARI RIVERA
S NAVARRO
VALENTI RICHARDS
436 M AGUSTIN
ROSE TWIGGS
515 PIIKOI BARBER & STYLING
517 YAMASIN MARKET
529 HONG NGUYEN
L FONOTI
NEUOV THAN
PETER DUONG
THI PHAM
531 OCCUPANT UNKNOWN
544 BING LIU
559 CHUNG LEE
M PHENGSAVATH
572 BUCK TOY CLUB
OCCUPANT UNKNOWN
574 BEES FLOWER SHOP
577 E YACAS
LINDA TRINH
PHUONG NGUYEN
SOLOMON FULLER
580 ORIENTAL MARKET
605 THUY PHAN
608 E ANTONIO
GUO YANG
HING LEUNG
JUANITO CUA

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 1999 (Cont'd)

608 JULIAN SABLAN
NESTOR BAJA
P MORENO
S HUSAIN
TAT TAN
YEE LOOK WAI
619 CHI TRAN
D SAYAVONG
JOHN PHUONG
LY HA TO
622 F IWANAGA
634 BILLY MA
CHEE LEE
DOLORES GUZMAN
DOMINGO VEA
GEORGE CAMERO
N CORPUZ
PEPITO RINGOR
PING LAU
RICHARD TSURUDA
642 A BAUTISTA
BENITO MIGUEL
HENRY PERREIRA
IRIS MATEO
J MATIAS
KONG CHEE
RICHARD LEE
RUTH REQUILLO
643 OCCUPANT UNKNOWN
649 CHU CHEN
DAI TRAN
HOA PHAM
NGOC TRINH
RAUL MADELA
TRINH AVON LYN
703 HENRY MIKAMI
704 GERSON VILLAPLAZA
709 HERBERT MATSUBARA
710 A VIERRA
714 S JALALON
717 HERBERT CHAR
LI CHEN
SHAO LIANG
801 C PERRY
GRETA TEJADA
JUANITO YANUARIA
M SOUZA
ROBIN SARCEDA
807 ANTERO GEONZON
LOLITA TAN

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 1999 (Cont'd)

807 MIRIAM EVERHART
809 E EPITOME
N PAONGO
810 COMMUNITY CARE SERVICES
HAWAII BIODYNE INCORPORATED COMMUNITY CARE SERVICES
HAWAII COUNCIL ON PORTUGUESE HERITAGE
MENTAL HELP HAWAII CLUBHOUSE
MENTAL HELP HAWAII DEVELOPMENT OFFICE
MENTAL HELP HAWAII RESPITE
PALAMA SETTLEMENT ALL SERVICES & ADMINISTRATION
PALAMA SETTLEMENT CORBETT HOUSE
PALAMA SETTLEMENT KAAHUMANU HOMES FAMILY CENTER
PALAMA SETTLEMENT MAYOR WRIGHT HOMES FAMILY CENTER
PORTUGUESE GENEALOGY
R DUTRO
811 TRAN H TO
815 GENERA PASCUA
GREGORY REGIDOR
LAN HA
PALAMA MANOR APARTMENTS
REBECCA LEOPOLDO
819 ERIC DUONG
NELSON YONAMINE
P BATLOK
825 PACIFIC EQUIPMENT & SUPPLY INCORPORATED

Target Street	Cross Street	Source
✓	-	Cole Information Services

LILIHA ST 1995

1001 BROVELLI, MILDRED K
CHAN, SAI K
CHEN, BING Z
CHENG, TSAN K
CHEUNG, CHING Y
CHOI, SUNG K
CHOW, M
HUANG, GUOQING
HUANG, YAN Y
KIM, EUN W
KITABATA, JAMES K
KO, HAR Y
KWOK, KIN H
LEDESMA, P B
LEE, JUN K
LEE, KWAN C
LEE, SHUI Y
LEONG, SUT F
LI, DI C
LI, SAI T
MA, JIN K
MARR, PAK L
MATSUMOTO, JAMES K
OKANO, SATO
SHIN, JUNG K
SMITH, SHERI
SOARES, T
TAM, SAUCHUN
TORIKI, JULIE K
WANG, HAN L
WONG, CHIT
YEUNG, HON M
YIM, CHANG K
YOUNG, SHAK T
YU, SPENCER P
1020 AHUNA, ZELTA
CHENG, ZHAO L
LAU, CHUN K
ROSA, NADIA
RSOA, NADIA
VANNASING, LATH
1101 BAILON, FE L
BARBOZA, HERMAN J
CHANG, LINDA M
CHONG, HAROLD A
CHUN, SELINA
KAM, PAU
KIM, HAK J
LEI, ZHANG Y
LI, GUI F

Target Street	Cross Street	Source
✓	-	Cole Information Services

LILIHA ST 1995 (Cont'd)

1101 LOO, ALLAN K
LOUIE, YEE M
MARKSBURY, SHARON
MAU, KOK W
NG, THOMAS T
OKAMI, NORMA
TAUM, O
WANG, YUN H
WU, ZHAO N
YU, JING F
YU, YIU
1103 LAU, YUN P
LEE, SIU H
LIANG, BAO C
TAK, SOON J
TAM, PHILIP Y
1104 LU, NGOC
NGUYEN, CHIEU
RAMOS, SEGUNDO
SIALOFI, TELESIA
THOMSON, CARRIE K
1105 HUANG, SHAO L
KIM, CHANG Y
LO, AARON
TAKAHASHI, EDWIN H
1107 CHAN, SOK P
CHANG, CHUL S
CHEUNG, WAI M
EDWARDS, ARNOLD M
EDWARDS, G
IP, FOO B
LAU, SHEK K
LAU, YIN H
LI, LAURA
SARDINHA, JOSEPH JR
TENGAN, L
XIAO, ZU C
YOUNG, ELIZA
1139 OCCUPANT UNKNOWNN
1201 EVANGELISTA, REGINA
HEE, YONG H
HUI, SHUI
LEE, TAT W
LEONG, SHEU C
LI, YI J
LUO, JIAN H
MAR, FONG
MOK, KOK K
PANG, K M
POON, SIK N

Target Street	Cross Street	Source
✓	-	Cole Information Services

LILIHA ST 1995 (Cont'd)

1201 WONG, YUWAI
YOUNG, HEE L
1203 CHAN, SIN T
FONG, Y K
LEE, YUNG H
LIANG, SHE H
TSUI, TAK M
1205 AURELIO, ALFONSO T
CHAN, YOK C
LAGON, DAWNE
MADOLORA, AMPARO
WONG, HON P
1207 CARTER, RICHARD C
CHO, M M
HSIN, CATHY S
KAM, W Y
1216 CHUNG, HOON L
GRAFIA, MANUEL P
KAIO, L
NGUYEN, CHAU
PHUONG, DIEU
1301 AU, KIM H
CHAN, KWOK W
CHANG, JAMES D
CHAR, KWOCK Q
CHENG, NGOK
CHING, GONE M
CHOW, ROBERT J
CHUNG, DICK K
ENOS, MARYLOU L
FANG, YUAN L
KAIDA, A I
KIM, JASON R
KWONG, PHILLIP K
LAU, CHEONG
LAU, WING F
LAWEN, ANNIE
LEE, TAN
LI, HUNG
LI, PETER C
LUI, LONG C
MOKUIKI, MARY Q
NOBORI, LANCE
OH, DONG S
PARK, IRENE R
RAMPAGE, B B
RYAN, POHAI
SAYSON, HILARIO R
SUGITA, ROBERT H
TOM, YUNG K

Target Street	Cross Street	Source
✓	-	Cole Information Services

LILIHA ST 1995 (Cont'd)

1301 TOPENIO, EDUARDO
YANG, XI H
1303 CHO, SEOK J
HARRIS, E
KIM, LOY Y
LI, XI L
TAKAHASHI, TROY K
TAM, KAI M
TANOUE, HARRY E
TOBA, GORO
ZHENG, DI C

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 1995

50 FOSTER GARDEN GIFT SHOP
FRIENDS OF FOSTER GARDEN
HONOLULU CITY BOTANICAL GARDEN
HONOLULU CITY FOSTER BOTANICAL
HONOLULU CITY KOKO CRATER GRDN
59 ZIPPYS RESTAURANT
170 KUAN YIN TEMPLE
180 FOSTER BOTANIC GARDENS
200 ALOHA UNITED WAY
AMERICAN CANCER SOCIETY
AWARE
BIG BROTHERS & BIG SISTERS
CATHOLIC SERVICES TO FAMILIES
CHILD & FAMILY SVC
HAWAII COMMUNITY SVC COUNCIL
HAWAII LITERACY
JOHN HOWARD ASSN OF HAWAII
LEARNING DISABILITIES ASSN
MENTAL HEALTH ASSN IN HAWAII
NEIGHBORHOOD JUSTICE CTR
271 FUNG, CHOW Y
HUANG, RUN H
JOSE, M
JUN, JAE W
KOGA, TOSHIO
LAU, HING C
MENDEZPARO, A
MORSE, ANTHONY K
273 TOKUNAGA, MILDRED
YEUNG, KEN P
275 CHAN, SHEK S
CHANG, LORENZO W
KU, JUNG H
WONG, KAM Y
WONGCHAN, JORGE J
XU, ZHI M
277 CHANG, IKE
CHONG, YONG K
LAU, PUI L
LEUNG, LAI K
OH, DOO N
SEU, ARTHUR Y
SUNG, MOO S
TSUI, D
YIP, PAK W
YUEN, RAYMOND
281 CHING, NELSON K
CHING, YUI C
COBURN, B
CROWELL, CARLEEN

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 1995 (Cont'd)

281 FLORES, EDWARD
FONG, KIN B
HEINICKE, WAYNE
KIM, LEIF J
KO, ANTHONY
MIU, MARY
MONARCH PACKAGING INC
OYE, DAVID Y
TSUTSUI, TAKENO
YI, KI H
YUEN, QUON
296 MALAMA MAKUA DAY CARE CTR
OHANA KEIKI DAY CARE PRESCHOOL
SALVATION ARMY
301 CHAN, JACK T
CHIANG, SIK P
CHONG, BU N
CHOY, IN S
KIM, CHONG S
LAU, PUI Y
LEONG, LEWIS
MAR, JEUNG M
MIAO, NANCY
PANG, KWOCK H
SOEDA, MAJOR T
TSUI, JANET
YOUNG, MARY L
329 OCCUPANT UNKNOWNN
331 AN, EDWARD
BORGES, LIONEL R
CHANG, C K
CHANG, JACK Y
CHUN, VIOLET
HONDA, ALBERTA
HUANG, GUOTING
HUI, YIM M
IKUMA, M S
KIANG, CHOU H
KIM, EUGENE H
LEE, NOMI
LEE, SUN Y
LEONG, SALLY M
LI, WAI C
LIU, GEORGE K
LUM, IRENE P
NAKAYAMA, THOMAS
NAM, SOON C
TANG, LIN S
TSAI, CHU C
TSANG, TING L

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 1995 (Cont'd)

331 TU, WILLIAM
WONG, CHING M
WONG, CHUCK L
WONG, F W
WONG, H C
333 CHEUNG, ALBERT Y
JUN, SUNG A
KIM, CHU T
KWAN, HIN H
LEE, SIU Y
LEE, YOUNGHO
LI, GUI Y
OH, HYON C
RUTTLE, N H
ZHENG, ZHONG P
339 AMAY, AUGUST
CHAN, PHILIP W
CHAN, SIK D
CHENG, YAT L
FENG, LIN Y
FONG, CHUNG K
HUI, CHUN P
LIU, ZONG C
RUAN, JI X
357 CHEN, SHUSHEN
CHOW, WUN S
CHUN, LAN B
CHUN, MEW H
FUNG, CHOW G
GOYA, A
KOGA, TOSHIO
LEE, TIN K
LEONG, YIN C
LIU, LAM M
PARK, KYUNG C
RODRIGUES, C J
TSUCHIYAMA, T
YOUNG, SHOO K
YUEN, DAN
359 AMANTE, RALPH
CHAN, ALFONSO
CHAN, YOOK L
CHEN, JIN
CHENG, LI
HWANG, WUNG Y
KANG, SANGSOO
KO, CHUN S
KWONG, TSUNG C
LAU, UNG G
LEE, KWAI H

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 1995 (Cont'd)

359	MCNEELY, LOUIS B
	SUNG, SA Y
	UEMURA, S
	YANG, WEN Q
	YEUNG, ROBERT T
	YOGI, RONALD K
366	CHOW, M M
	MATTSON, E U
369	AU, KA H
	AU, KING D
	CHAN, SHU G
	CHENG, HAU T
	CHEUNG, NAM C
	CHUN, CHEW K
	HAUGEN, G M
	KING, IE Y
	LEE, SANG K
	LUI, MUN T
	LUO, GUA K
	MATSUOKA, MILLARD
	NAKATANI, HARRY K
	OHK, KYUNG Y
	TOM, SAY C
	WU, YUAN
	YEUNG, CHUNG Y
370	CHENG, PO S
	ENDO, KENZO
	NARTATEZ, PLACIDO
374	ASATO, ROBERT K
	BARTELS, L U
	CHUN, YEW Q
	KALANI, M C
378	BROWN, IRIS
	GEE, CHOW
	KALINGO, RAMON P
	THAI, THOAI A
382	NG, YUK K
	TAKAHASHI, JIUN
	YAMANE, ISAMI
386	CASTRO, F JR
	DOMINGO, ALICE N
	INFIEL, ROBERTA
	PASATIEMPO, ALFREDO SR
	PELAYRE, BENITO R
	SAITU, MEGA
392	KAANAPU, D
	LAW, N
400	KAULUWELA II
	OCCUPANT UNKNOWNN
401	ANZAI, JASON M

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 1995 (Cont'd)

401	CHAN, CHEONG V
	CHONG, CHUN W
	CHUNG, KUHYUN
	FONG, CHUNG Y
	HU, QUING X
	KANESHIRO, J JR
	KWOK, HIN N
	LEE, SOOK W
	LEE, YAT G
	LIN, MEI P
	RYAN, POHAI
	SHIN, JEANIE H
	SILVA, GORDON J
	TAN, DANIEL F
	UESUGI, MITSUKO
	WANG, HAN Q
	WONG, LISA M
	YIM, NGOK H
404	FALETUFUGA, FUAOLOA
	LOTOAATU, K C
412	WONG, GARY JR
418	LEE, JACK L
424	AMORIN, J R
	BAUTISTA, NORA A
	YAMAMURA, SARAH
430	NAVARRO, S
	RICHARDS, V
	RIVERA, MARLO
436	AGUSTIN, M Y
	BARINO, REGINA
	FREITAS, ELLEN
	GO, THOMAS C
	TWIGGSKUSUMOTO, R A
515	PIIKOI BARBER & STYLING
517	YAMASIN MARKET
529	KIEU, BA T
	LIN, SONG F
	NEUOV, THAN
	NGUYEN, HONG H
	PHAM, THI T
	VUONG, MINH H
544	HO, SHAO L
	ON, TONG
559	LAU, ZHEN Y
	LEE, CHUNG S
	PHANLAMOUNE, S
	PHENGSAVATH, M
	TRUONG, WILLIAM
566	OCCUPANT UNKNOWNN
572	BUCK TOY CLUB

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 1995 (Cont'd)

574 BEES FLOWER SHOP
577 DUONG, TRACY
SILVANO, GEORGE F
TRINH, ALLEN L
YACAS, EUFEMIO Y
580 ORIENTAL MARKET
608 CUA, JUANITO
HE, JIAN C
HUSAIN, S T
LEUNG, HING Y
LIANG, XUMING
MACARAEG, A
MORENO, P
SAJA, ROSARIO
YANG, GUO X
YEE, LOOK W
YU, SAU L
ZAMORA, MARIE D
619 COX, BEVERLY
HOLLENBACK, DENNIS
LAT, LYNNA
NGUYEN, HAI T
PHUONG, JOHN H
RODRIGUES, H
TRAN, CHI
622 IWANAGA, F Y
634 ABENES, C R
ANATIHAN, MELECIA R
AQUINO, SABINA P
CASTILLO, ROMEO
CASTLE INTERNATIONAL TRAVEL
CORPUZ, R
DUMPIT, FELIX
GUZMAN, DOLORES D
LAU, PING H
LEE, CHEEMUN
MA, PING K
TSURUDA, RICHARD M
VEA, DOMINGO
642 CHEE, WAI K
GROANING, WINONA M
LEE, RICHARD K
MATAELE, DAVID
MATEO, IRIS A
MATIAS, J P
PERREIRA, HENRY G
TANAKA, GRACE
649 MADELA, RAUL
TRINH, THI B
703 MIKAMI, HENRY K

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 1995 (Cont'd)

704 LEUNG, WING Y
706 OCCUPANT UNKNOWNN
709 MATSUBARA, HERBERT H
710 LUM, CHI Y
MENDIOLA, HELEN
714 PALAMA, L S
717 CHAR, HERBERT
CHEN, LI
CHIANG, TONG
GUO, XING Q
LAM, TAT C
LIANG, SHAO X
801 ACIERTO, LURITO
CHAU, KIM H
LE, THI N
LEE, EDWIN Y
PERRY, C A
SARCEDA, ROBIN
YANUARIA, JUANITO A
803 BARROS, H M
HOLLAND, LORETTA
KAIMIMOKU, SOLOMON
807 CARTER, RICHARD C
EVERHART, M C
FIFITA, MAFI
MAFUTAGA, ASI
MOALA, MELI F
NGUYEN, XUAN V
809 CHAU, THAI T
LIN, WUOBIN
PAHULU, SELA
810 DENIS, ETHEL
DUTRO, R K
HAWAII COUNCIL OF PORTUGUESE
NA LOIO NO NA KANAKA
NA, LOIO N
PALAMA SETTLEMENT
PATCH
STRONG CARTER DENTAL CLINIC
YOUTH CRUSADE INC
811 FLORES, HENRY
PALAVI, S
TAUM, DOMINIC
WILLIS, J
815 AUKUSO, FAUATO
HAMPTON, M
LUA, ROSE
MATTERN, MERL W
NGUYEN, HUNG V
NGUYEN, LENA

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 1995 (Cont'd)

815	NGUYEN, THOI
	RUBINO, ALFRED
	TIET, HEIDI
	WOOD, KENNETH
819	AHSOONVAOVASA, WENDY
	BECHARD, LUKE
	BUI, VIVIAN
	DANKO, PHILIP G
	DUONG, TRONG Q
	KAPAHUA, NOREEN
	KOISUMI, D
	LATU, V
	LAVOIE, LETITIA
	LESU, VAOSA
	NGUYEN, HIEU
	TRAN, LONG H
825	PACIFIC EQUIPMENT & SUPPLY INC
	TOW GUCHI SERVICE STATION LTD
7171	CHAN, KWONG W

Target Street	Cross Street	Source
✓	-	Cole Information Services

LILIHA ST 1992

1001	CHAN, SAI K
	HUANG, YAN Y
	LEE, KWAN C
	LI, DI C
	LI, SAI T
	SHIN, JUNG K
1020	AHUNA, ZELTA
	CHENG, ZHAO L
	DANG, THANH T
	LAU, CHUN K
	TRAVERS, WINONA
	VANNASING, LATH
1101	LEE, SHUI Y
	NG, THOMAS T
	WU, ZHAO N
1104	FERREIRA, ELLA
	FOLA, L
	LU, NGOC
	THOMSON, C K
1105	KAN, KUM T
1107	CHAN, PHILIP W
	CHEUNG, WAI M
	CHUN, L
	CHUN, Y Q
	EDWARDS, G
	LAU, KIT C
1201	HEE, YONG H
	LI, YI J
	YOUNG, HEE L
1203	CHAN, SIN T
	LIANG, SHE H
1216	CHUNG, HOON L
	GRAFIA, MANUEL P
	KAIO, L
	NGUYEN, CHAU
	PHUONG, DIEU
	SHIN, CHUNG H
1301	CHENG, NGOK
	CHEW, SHIRLEY
	CHUNG, DICK K
	ENOS, MARYLOU L
	LI, HUNG
	LI, PETER C
	PARK, IRENE R

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 1992

271 KAHANU, BENJ
LAU, HING C
275 ZHENG, FO X
277 LAU, PUI L
OH, DOO N
SEU, ARTHUR Y
281 CHING, NELSON K
CHING, YUI C
HEINICKE, WAYNE
LAU, BUCK W
301 MAR, JEUNG M
RAPOZA, M L
TSUI, JANET
YOUNG, MARY L
331 HONDA, ALBERTA
LEE, NOMI
LEE, SUN Y
LI, WAI C
MARCIEL, G E
NG, PU Y
WONG, F W
333 LEE, YOUNGHO
LI, GUI Y
LI, XI L
339 CHAN, SIK D
LIU, ZONG C
357 CHOW, WUN S
FUNG, CHOW G
GOYA, A
TSUCHIYAMA, T
YUM, DOK S
359 CHAN, KIM T
LEI, SHU Q
LIU, ENGEL W
WANN, LILY
WONG, FUK Y
YANG, WEN Q
366 CHOW, M M
MATTSON, E U
369 BOHM, DARRYL H
CHAN, SHU G
LUI, MUN T
YEUNG, CHUNG Y
370 AKANA, MILTON
AKANA, PAT
CHENG, RUSSEL
ENDO, KENZO
NARTATEZ, PLACIDO
374 ASATO, ROBERT K
BARTELS, L U

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 1992 (Cont'd)

374 CHUN, YEW Q
378 GEE, CHOW
KALINGO, NONA
THAI, THOAI A
382 NG, YUK K
TAKAHASHI, JIUN
YAMANE, ISAMI
386 CASTRO, F JR
DOMINGO, MANUEL L
INFIEL, ROBERTA
SAITU, MEGA
392 LAW, N
401 BENAVENTE, R
HU, QUING X
LIN, MEI P
RYAN, PEE W
TAN, DANIEL F
404 LOTOAATU, K C
MANAEA, F S
QUIAMZON, RODRIGO
418 ALFARO, JACK
LEE, JACK L
424 YAMAMURA, SARAH
430 NAVARRO, S
RICHARDS, M
436 FREITAS, ELLEN
GO, THOMAS C
TWIGGSKUSUMOTO, R A
529 DIEP, KHANH T
KIEU, BA T
LIN, SONG F
NEUOV, THAN
NGUYEN, HONG H
PHAM, THI T
544 LEE, HONG Y
ON, TONG
559 FIRME, P C
LAU, ZHEN Y
LEE, CHUNG S
TRUONG, WILLIAM
577 ASUEGA, MAA
DUONG, THONG
PHENGSAVATH, PHEUY
TRINH, ALLEN L
YACAS, EUFEMIO Y
605 CANDELARIA, ENRIQUE
608 HUNG, RICHARD M
KO, HAR Y
LEONG, SUT F
LIANG, XUMING

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 1992 (Cont'd)

608 MACARAEG, A
619 LAT, BRUNO
LOE, SAMARIA
NGUYEN, HAI T
PHUONG, JOHN H
RODRIGUES, H
622 IWANAGA, F Y
634 CASTILLO, ROMEO B
CORPUZ, R
DUMPIT, FELIX
ELPEDES, F
GUZMAN, DOLORES D
LAU, PING H
LEE, CHEEMUN
MA, PING K
VEA, DOMINGO
VISAYA, PINA R
642 CAYETANO, PERLA
CHEE, WAI K
DEVERA, SHIRLEY
LEE, RICHARD K
PERREIRA, HENRY G
TANAKA, GRACE
649 DOAN, XA V
TRINH, THI B
703 MIKAMI, HENRY K
704 ABE, SHELDON
706 LIANG, ZHI A
709 MATSUBARA, HERBERT H
NGUYEN, THANH
710 FELICIANO, JOHN B
SHE, JIAN F
714 KAUAHI, TAMAR
PALAMA, L S
717 AU, KIM H
CHAR, HERBERT
CHENG, KUAN C
LAM, TAT C
LIANG, JOHNNY S
LIANG, SHAO X
WONG, CHING M
801 ACIERTO, LURITO
CHAU, KIM H
LE, THI N
LEE, EDWIN Y
PERRY, C A
SARCEDA, ROBIN
YANUARIA, JUANITO A
803 BARROS, H M
CABUHAT, D L

Target Street	Cross Street	Source
-	✓	Cole Information Services

N VINEYARD BLVD 1992 (Cont'd)

803 GARCIA, ESTELA O
MAFI, LITILI
TAAMU, J D
807 ASI, M
CARTER, RICHARD C
EVERHART, M C
PASIGAN, JAMES
RIVERA, ELSIE
TAUVELI, SALLIE F
809 AQUINO, ROGELIO V
CHAU, THAI T
FAUOLO, S
LE, CHUC
SILVA, J
TALAMONI, JOYCE T
810 DUTRO, R K
NA, LOIO N
815 AKI, LEVI
ANOUPHAB, PETER
INFIEL, D
LEOPOLDO, KALA
LETOA, K
MATTERN, MERL W
819 AKANA, DAYNA
DANKO, PHILIP G
JOHNSON, JERALD
KAPAHUA, NOREEN
KOISUMI, D
LATU, V
LESU, VAOSA
PHILLIPS, PAT

APPENDIX F
CERTIFIED SANBORN MAP REPORT

Mayor Wright Honolulu
1020 Liliha Street
Honolulu, HI 96817

Inquiry Number: 4632621.3
May 31, 2016

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

05/31/16

Site Name:

Mayor Wright Honolulu
1020 Liliha Street
Honolulu, HI 96817
EDR Inquiry # 4632621.3

Client Name:

Weston Solutions, Inc.
5599 San Felipe
Houston, TX 77056
Contact: Lisa Waskom

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Certified Sanborn Results:

Certification # 1DCB-4DC6-9784

PO # 15350.002.016

Project Hunt Mayor Wright Phase 1

Maps Provided:

1993	1955
1991	1950
1985	1927
1978	1914
1976	
1975	
1974	
1963	

Sanborn® Library search results

Certification #: 1DCB-4DC6-9784

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1993 Source Sheets

Volume 1, Sheet 142
1993

1991 Source Sheets

Volume 1, Sheet 142
1991

1985 Source Sheets

Volume 1, Sheet 142
1985

1978 Source Sheets

Volume 1, Sheet 142
1978

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1976 Source Sheets

Volume 1, Sheet 142
1976

1975 Source Sheets

Volume 1, Sheet 142
1975

1974 Source Sheets

Volume 1, Sheet 142
1974

1963 Source Sheets

Volume 1, Sheet 142
1963

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1955 Source Sheets

Volume 1, Sheet 142
1955

Volume 1, Sheet 142
1955

1950 Source Sheets

Volume 1, Sheet xxxx
1950

Volume 1, Sheet 142
1950

1927 Source Sheets

Volume 1, Sheet xxxx
1927

Volume 1, Sheet 141
1927

Volume 1, Sheet 142
1927

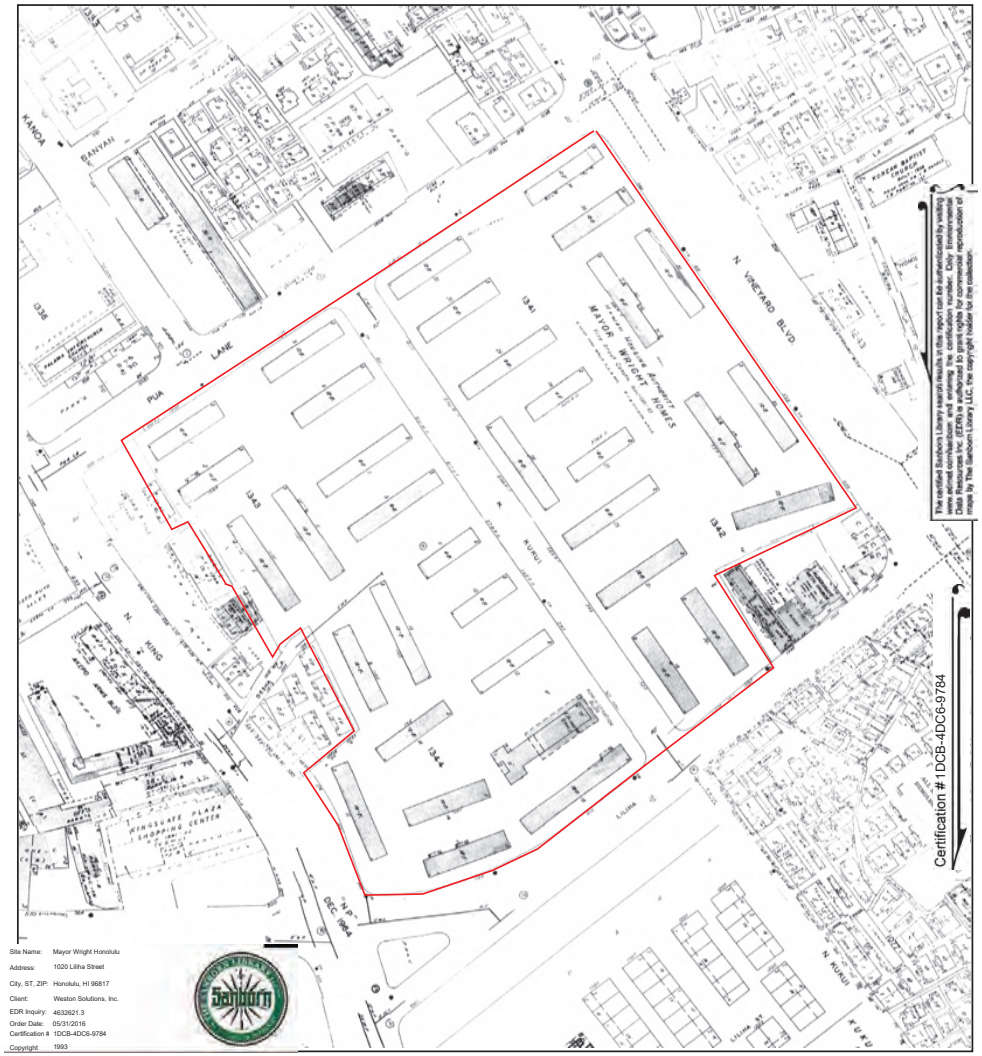
1914 Source Sheets

Volume 1, Sheet xxxx
1914

Volume 1, Sheet 14
1914

Certified Sanborn® Map

1993



Site Name: Mayor Wright Honolulu
Address: 1020 Liliha Street
City, ST, ZIP: Honolulu, HI 96817
Client: Weston Solutions, Inc.
EDR Inquiry: 4632621.3
Order Date: 05/31/2016
Certification #: 1DCB-4DC6-9784
Copyright: 1993

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

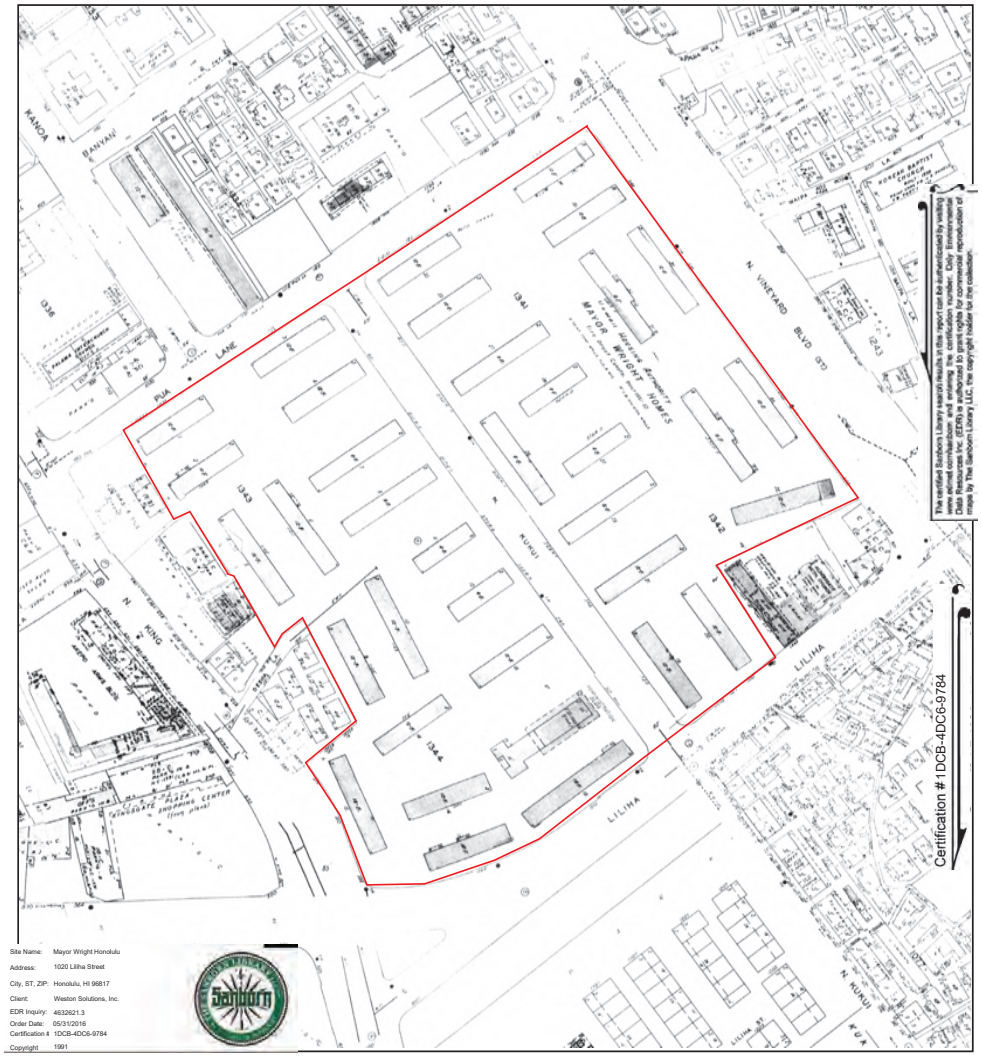
0 Feet 150 300 600

Volume 1, Sheet 142

N

Certified Sanborn® Map

1991



Site Name: Mayor Wright Honolulu
Address: 1020 Liliha Street
City, ST, ZIP: Honolulu, HI 96817
Client: Weston Solutions, Inc.
EDR Inquiry: 4632621.3
Order Date: 05/31/2016
Certification #: 1DCB-4DC6-9784
Copyright: 1991

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

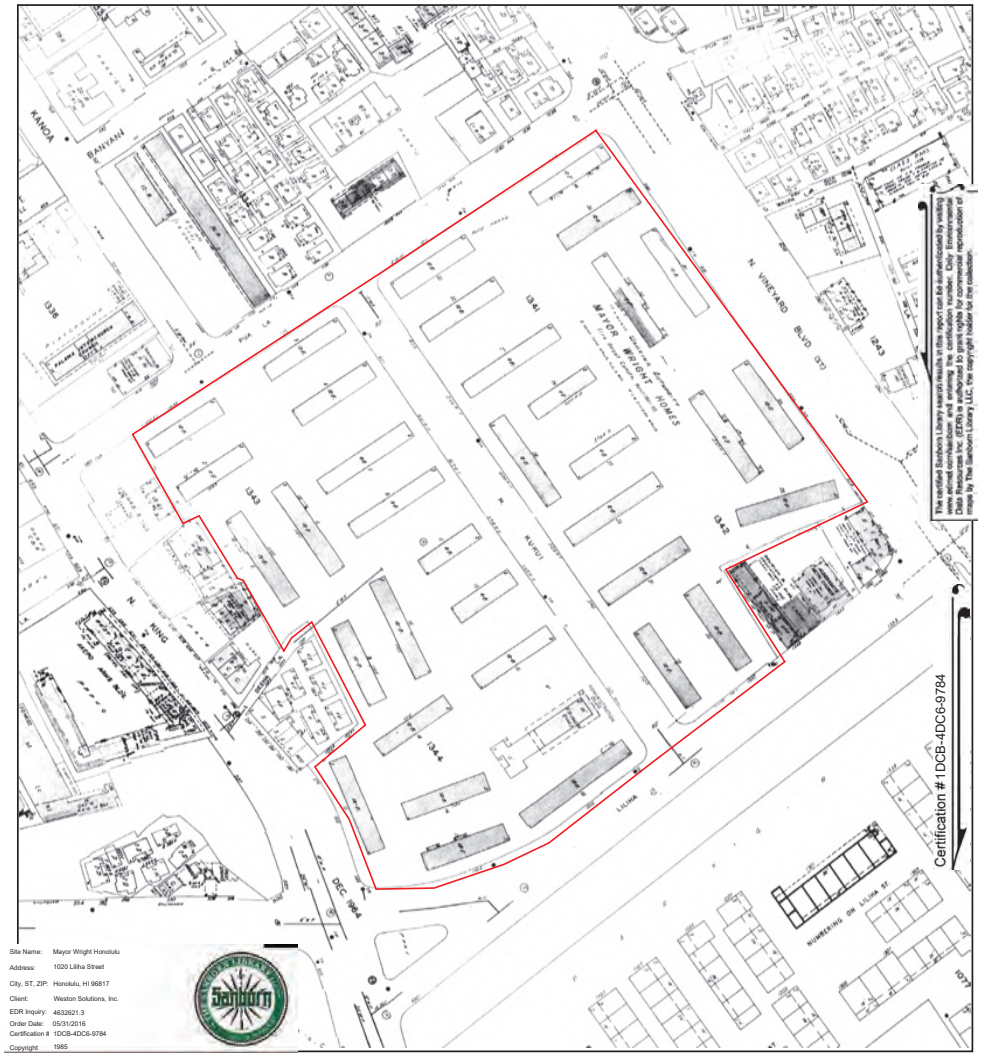
0 Feet 150 300 600

Volume 1, Sheet 142

N

Certified Sanborn® Map

1985



Site Name: Mayor Wright Honolulu
Address: 1020 Liliha Street
City, ST, ZIP: Honolulu, HI 96817
Client: Weston Solutions, Inc.
EDR Inquiry: 4632621.3
Order Date: 05/31/2016
Certification #: 1DCB-4DC6-9784
Copyright: 1985

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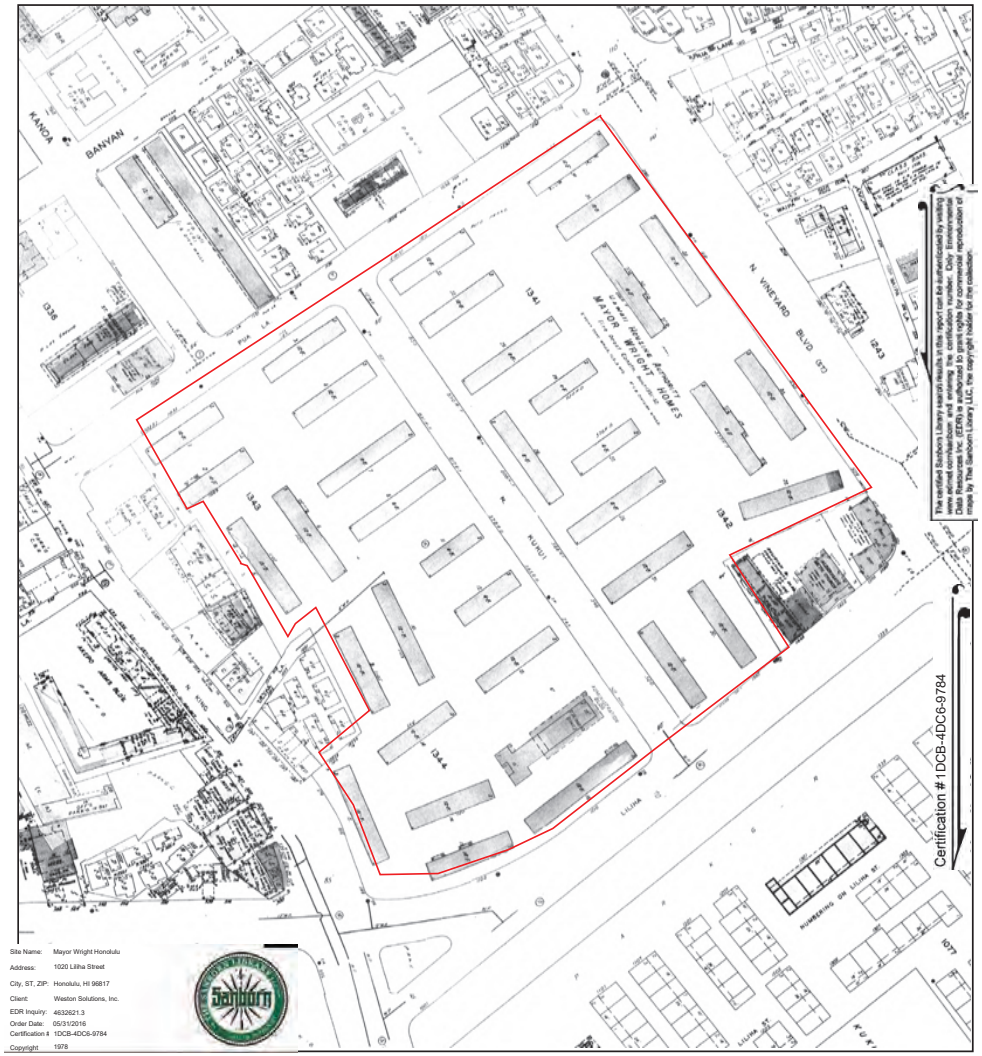
0 Feet 150 300 600

Volume 1, Sheet 142

N

Certified Sanborn® Map

1978



Site Name: Mayor Wright Honolulu
Address: 1020 Liliha Street
City, ST, ZIP: Honolulu, HI 96817
Client: Weston Solutions, Inc.
EDR Inquiry: 4632621.3
Order Date: 05/31/2016
Certification #: 1DCB-4DC6-9784
Copyright: 1978

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Volume 1, Sheet 142

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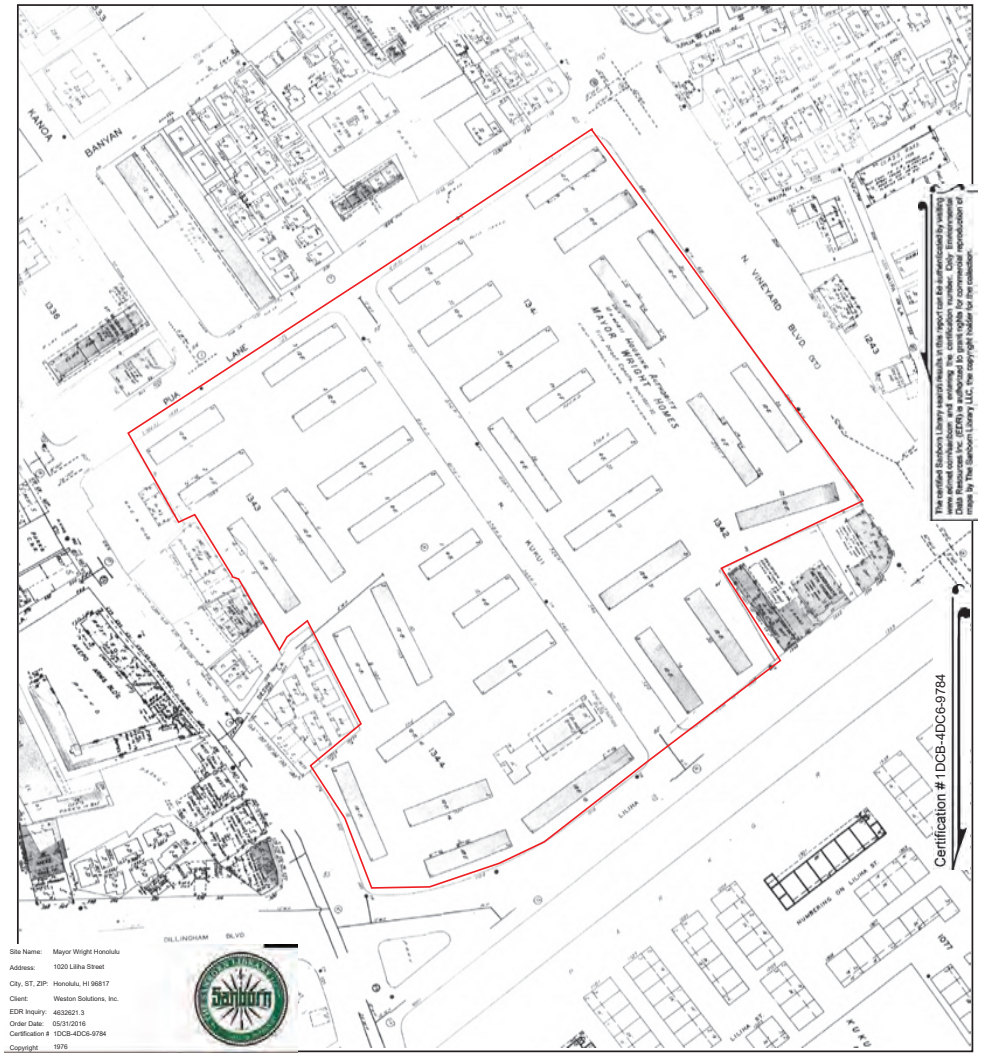
1976



Site Name: Mayor Wright Honolulu
Address: 1020 Liliha Street
City, ST, ZIP: Honolulu, HI 96817
Client: Weston Solutions, Inc.
EDR Inquiry: 4632621.3
Order Date: 05/31/2016
Certification #: 1DCB-4DC6-9784
Copyright: 1976

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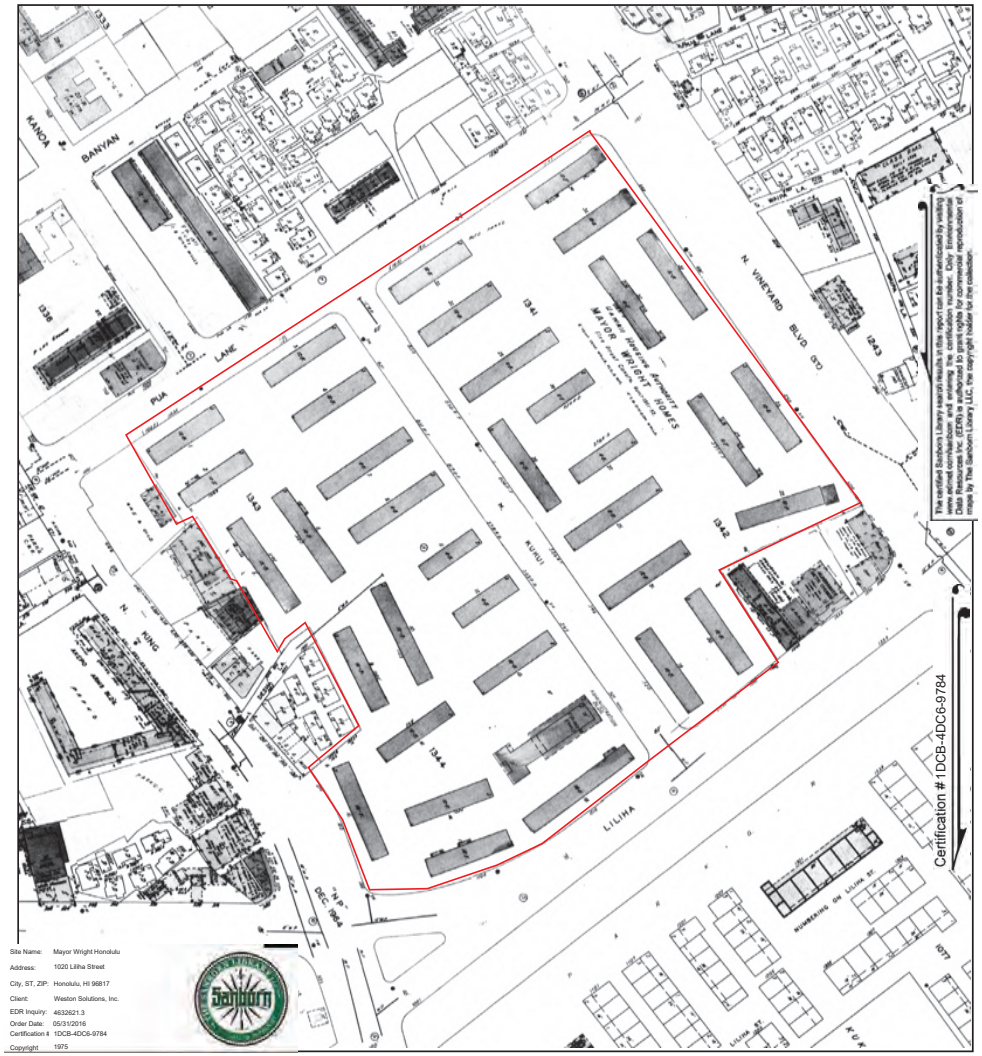
Volume 1, Sheet 142

N

Certified Sanborn® Map

1975



Site Name: Mayor Wright Honolulu
Address: 1020 Liliha Street
City, ST, ZIP: Honolulu, HI 96817
Client: Weston Solutions, Inc.
EDR Inquiry: 4632621.3
Order Date: 05/31/2016
Certification #: 1DCB-4DC6-9784
Copyright: 1975

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Volume 1, Sheet 142

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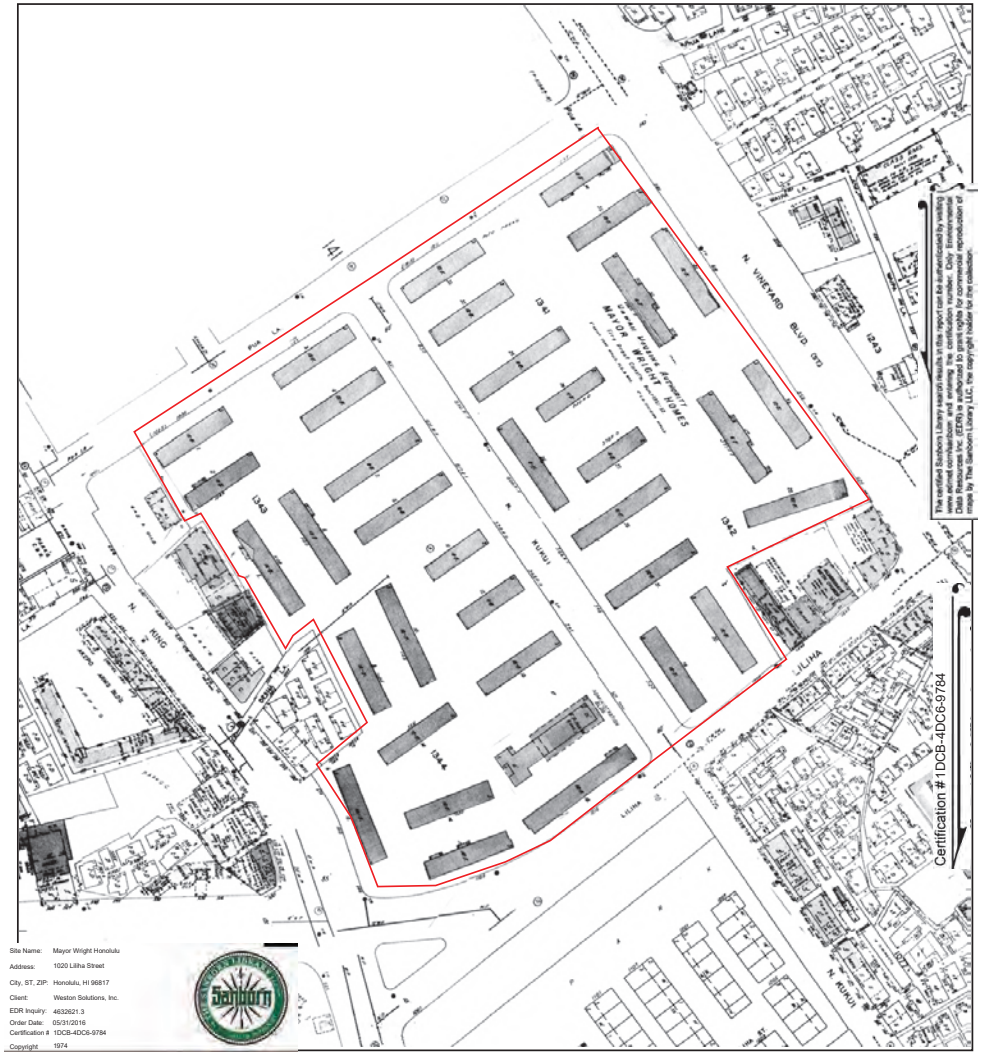
Certified Sanborn® Map

1974



Site Name: Mayor Wright Honolulu
Address: 1020 Liliha Street
City, ST, ZIP: Honolulu, HI 96817
Client: Weston Solutions, Inc.
EDR Inquiry: 4632621.3
Order Date: 05/31/2016
Certification #: 1DCB-4DC6-9784
Copyright: 1974

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Volume 1, Sheet 142

N

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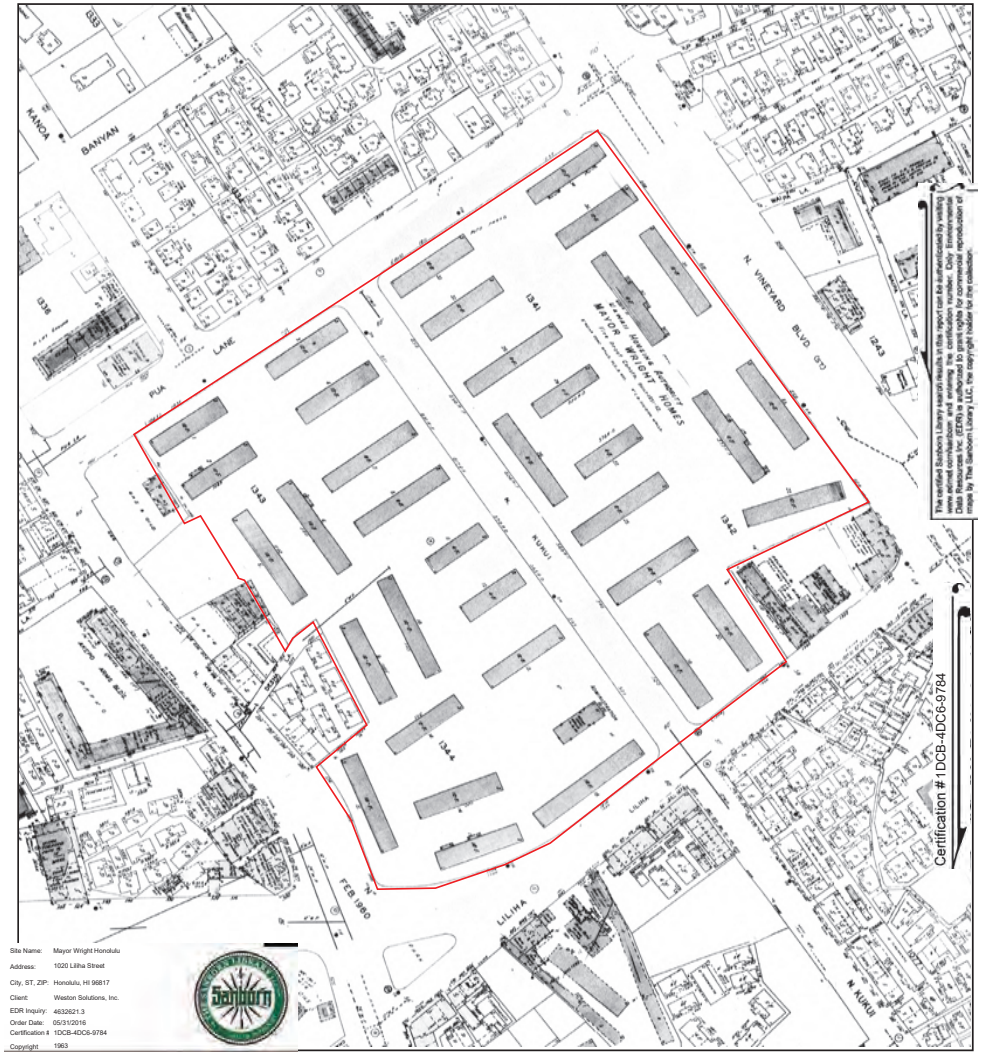
1963



Site Name: Mayor Wright Honolulu
Address: 1020 Liliha Street
City, ST, ZIP: Honolulu, HI 96817
Client: Weston Solutions, Inc.
EDR Inquiry: 4632621.3
Order Date: 05/31/2016
Certification #: 1DCB-4DC6-9784
Copyright: 1963

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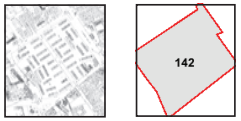

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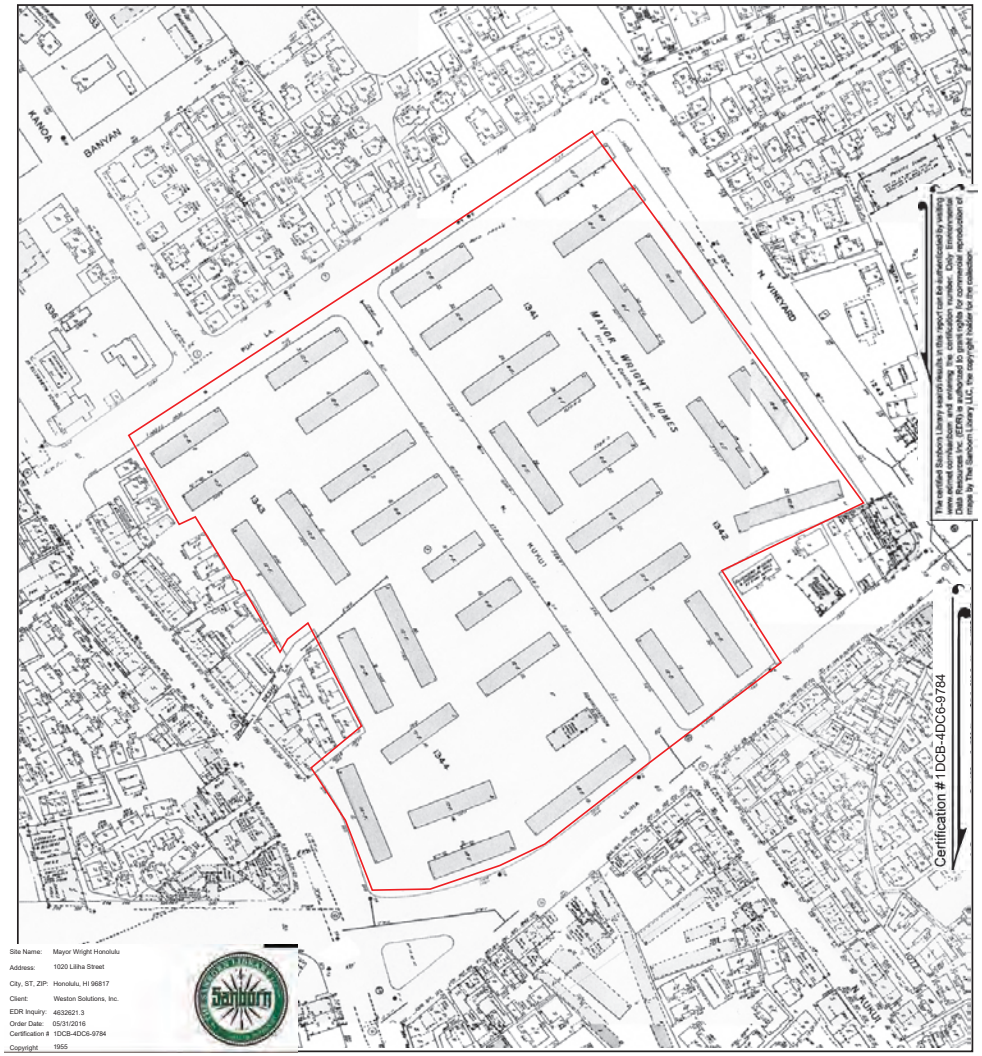
N

Certified Sanborn® Map

1955



Site Name: Mayor Wright Honolulu
Address: 1020 Liliha Street
City, ST, ZIP: Honolulu, HI 96817
Client: Weston Solutions, Inc.
EDR Inquiry: 4632621.3
Order Date: 05/31/2016
Certification #: 1DCB-4DC6-9784
Copyright: 1955

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Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

Volume 1, Sheet 142
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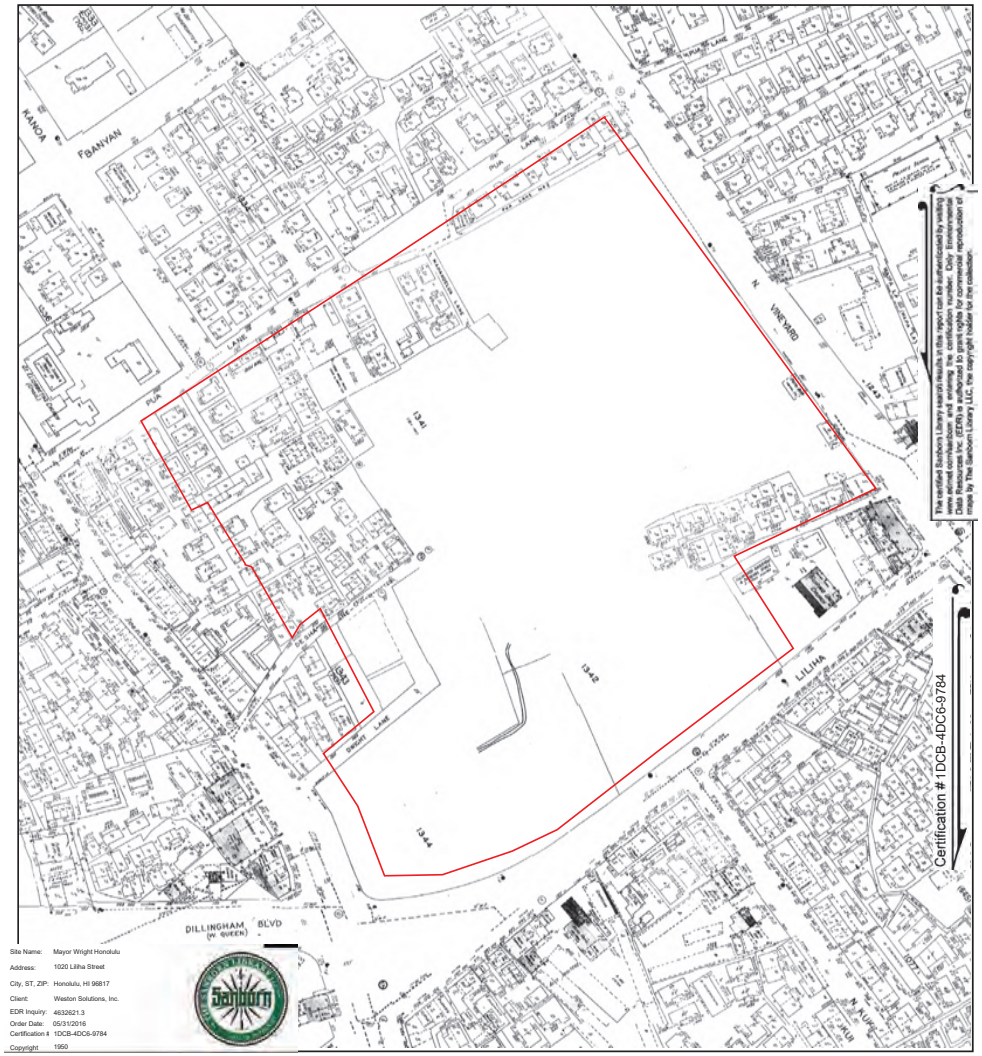
1950



Site Name: Mayor Wright Honolulu
Address: 1020 Liliha Street
City, ST, ZIP: Honolulu, HI 96817
Client: Weston Solutions, Inc.
EDR Inquiry: 4632621.3
Order Date: 05/31/2016
Certification #: 1DCB-4DC6-9784
Copyright: 1950

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0 Feet 150 300 600

Volume 1, Sheet 142
Volume 1, Sheet xxxx

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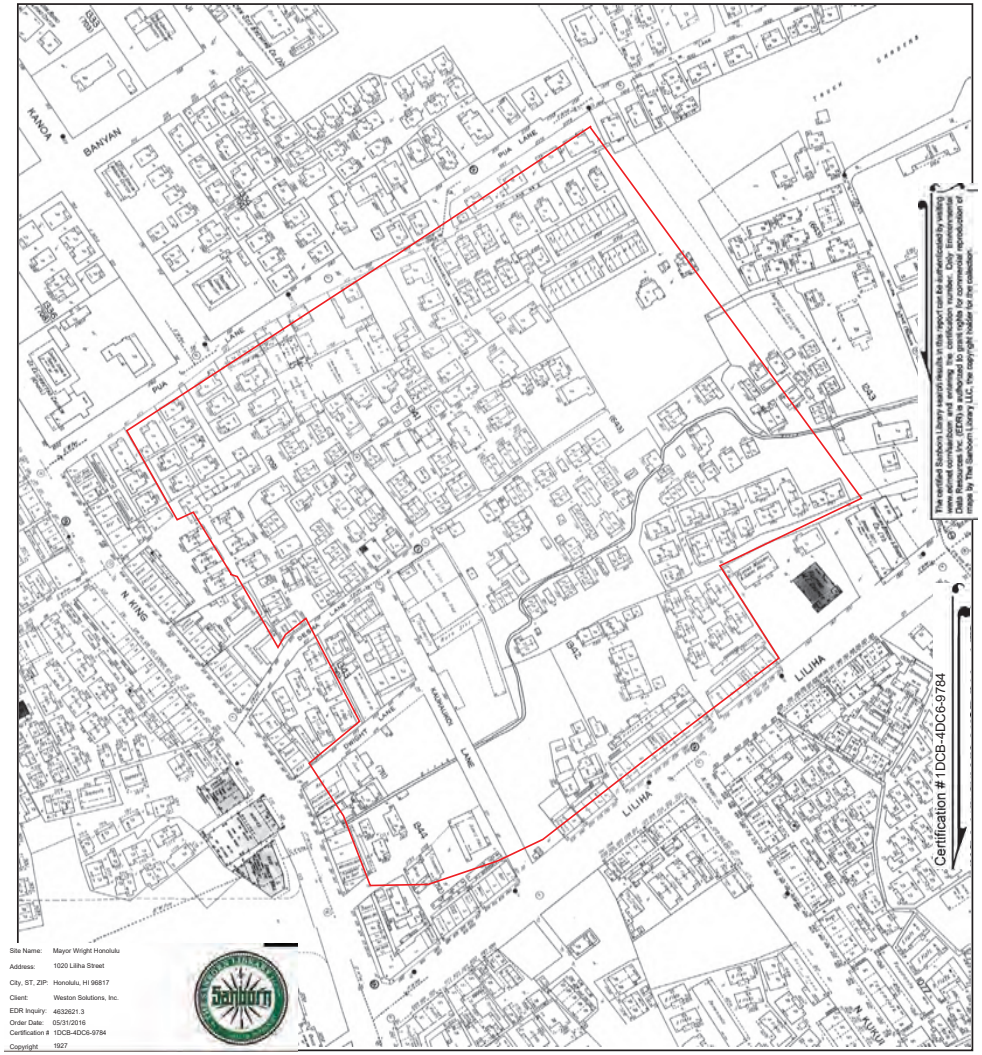
1927



Site Name: Mayor Wright Honolulu
Address: 1020 Liliha Street
City, ST, ZIP: Honolulu, HI 96817
Client: Weston Solutions, Inc.
EDR Inquiry: 4632621.3
Order Date: 05/31/2016
Certification #: 1DCB-4DC6-9784
Copyright: 1927

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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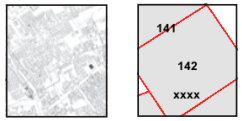

Volume 1, Sheet 142
Volume 1, Sheet 141
Volume 1, Sheet xxxx

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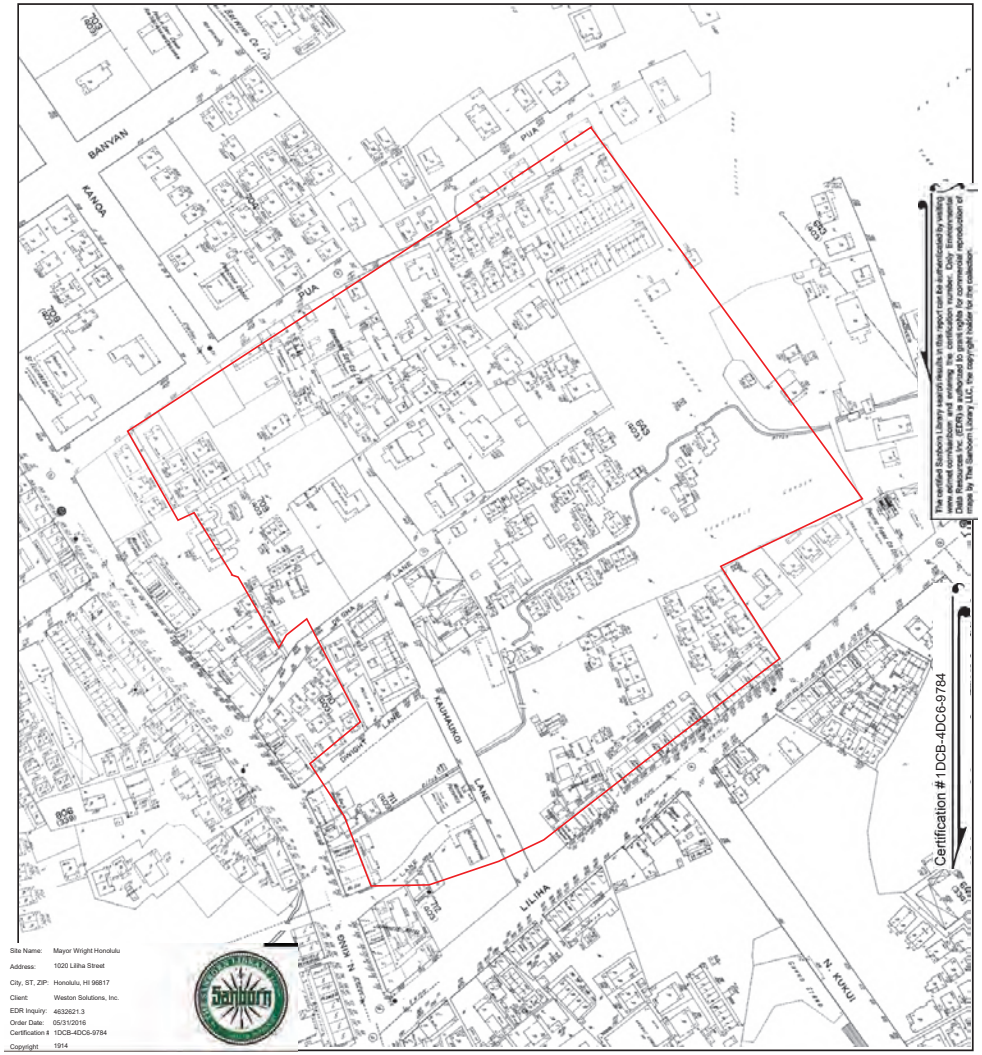
Certified Sanborn® Map

1914



Site Name: Mayor Wright Honolulu
Address: 1020 Liliha Street
City, ST, ZIP: Honolulu, HI 96817
Client: Weston Solutions, Inc.
EDR Inquiry: 4632621.3
Order Date: 05/31/2016
Certification #: 1DCB-4DC6-9784
Copyright: 1914

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Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

Volume 1, Sheet 14
Volume 1, Sheet xxxx

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APPENDIX G
EDR ENVIRONMENTAL LIEN AND AUL SEARCH

Mayor Wright Honolulu
1020 Liliha Street
Honolulu, HI 96817

Inquiry Number: 4632621.7
June 01, 2016

EDR Environmental Lien and AUL Search

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

1020 Liliha Street
Mayor Wright Honolulu
Honolulu, HI 96817

RESEARCH SOURCE

Source 1:
Bureau of Conveyances
Honolulu, HI

PROPERTY INFORMATION

Deed 1:

Type of Deed:	Confirmation of Ownership
Title is vested in:	HAWAII PUBLIC HOUSING AUTHORITY
Title received from:	HAWAII PUBLIC HOUSING AUTHORITY
Deed Dated	8/4/2014
Deed Recorded:	8/12/2014
Book:	NA
Page:	NA
Volume:	NA
Instrument:	T8989204
Docket:	NA
Land Record Comments:	
Miscellaneous Comments:	
Legal Description:	See Exhibit
Legal Current Owner:	HAWAII PUBLIC HOUSING AUTHORITY
Parcel # / Property Identifier:	170290030000
Comments:	See Exhibit

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found ☐ Not Found ☒

Deed Exhibit 1

DOUBLE SYSTEM

STATE OF HAWAII
OFFICE OF ASSISTANT REGISTRAR
RECORDED
August 12, 2014 3:29 PM
Doc No(s) T – 8989204
on Cert(s) AS LISTED HEREIN
Issuance of Cert(s)

/s/ NICKI ANN THOMPSON
ASSISTANT REGISTRAR

1 1/2 SKC
B – 32506122

STATE OF HAWAII
BUREAU OF CONVEYANCES
RECORDED
August 12, 2014 3:29 PM
Doc No(s) A – 53370686

/s/ NICKI ANN THOMPSON
REGISTRAR

1 2/2 SKC
B – 32506122

LAND COURT | REGULAR SYSTEM

After recordation return by: Mail ( ) Pickup ( )

NALANI P. WILSON-KU
JOHN C. WONG
State of Hawaii
Department of the Attorney General
425 Queen Street
Honolulu, Hawaii 96813

Total Pages: 11

Title of Document:

CONFIRMATION OF OWNERSHIP

PARTIES TO DOCUMENT:

OWNER: HAWAII PUBLIC HOUSING AUTHORITY, a State agency and a public body and a body corporate and politic of the State of Hawaii, formerly known as the Housing and Community Development Corporation of Hawaii

ADDRESS: 1002 North School Street, Honolulu, Hawaii 96817

Property Description:

Fee simple property consisting of 646,654 square feet, more or less, situated at Hauhaukoi, Kapahaha, Keoneula, Kahawali, Koiuiu, Aala and Kuaiula, City and County of Honolulu, State of Hawaii (also known as the "Mayor Wright Homes" project)

Tax Map Key No. (1) 1-7-029-003

558978_1

CONFIRMATION OF OWNERSHIP

THIS CONFIRMATION OF OWNERSHIP is executed this 4th day of August, 2014, by the HAWAII PUBLIC HOUSING AUTHORITY, a State agency and a public body and a body corporate and politic of the State of Hawaii ("HPHA").

RECITALS:

1. By operation of law and legislative act, the HPHA succeeded to and holds fee simple title to the real property situated at Hauhaukoi, Kapahaha, Keoneula, Kahawali, Koiuiu, Aala and Kuaiula, City and County of Honolulu, State of Hawaii, Tax Map Key No. (1) 1-7-029-003 (hereinafter "parcel") and assumed all of the right, title and interest of, in and to the following:

-PARCEL FIRST:-

a. All of that certain parcel of land situate at Hauhaukoi, Kapahaha, Keoneula, Kahawali, Koiuiu, Aala and Kuaiula, City and County of Honolulu, State of Hawaii, described as follows:

All of that certain parcel of land (being portions of the land(s) described in and covered by unrecorded Royal Patent (none), Land Commission Award Number 8525-B to Julia Alapai Kauwa; unrecorded Royal Patent Number 4423, Land Commission Award Number 605, Apana 2 to Kalunaaina no Lupe; unrecorded Royal Patent Number 1982, Land Commission Award Number 1285, Apana 4 to W. Kaluau; unrecorded Royal Patent Number 5572, Land Commission Award Number 2072, Apana 3 to Kapaalua; unrecorded Royal Patent Number 4423, Land Commission Award Number 605, Apana 3 to Kalunaaina no Lupe; unrecorded Land Patent

Number 8293, Land Commission Award Number 8520, Apana 1, Part 3 to Iosua Kaeo; unrecorded Land Patent Number 8197, Land Commission Award Number 8520, Apana 1 to Iosua Kaeo; unrecorded Royal Patent Number 4528, Land Commission Award Number 2107, Apana 2 to Kahina; unrecorded Land Patent Grant Number 9375 to Hattie K. Vivichaves; unrecorded Royal Patent (none), Land Commission Award Number 6236 to Kaaiawaawa; unrecorded Royal Patent Grant Number 2065 to Napehe; unrecorded Land Patent Number 8239, Land Commission Award Number 640 to Kamahalo; unrecorded Royal Patent Number 5553, Land Commission Award Number 1405, Apana 4 to Pihiliilii; unrecorded Royal Patent Number 1226, Land Commission Award Number 933, Apana 3 to Kamae; unrecorded Royal Patent Number 2102, Land Commission Award Number 2 F.L. to Kamoku; unrecorded Royal Patent Number 2684, Land Commission Award Number 3 F.L. to Kapo; unrecorded Royal Patent Grant Number 2063 to Panio; unrecorded Royal Patent Grant Number 2346, Apana 2 to Kaona; and being all of the land(s) described in and covered by unrecorded Royal Patent Number 5553, Land Commission Award Number 1405, Apana 1 to Pihiliilii; unrecorded Royal Patent Number 4393, Land Commission Award Number 1078 to Naili no Kanui; unrecorded Royal Patent Number 4528, Land Commission Award Number 2107, Apana 1 to Kahina; unrecorded Royal Patent Number 2681, Land Commission Award Number 1362 to Naholowaa no Hoa; unrecorded Royal Patent Number 7446, Land Commission Award Number 8613, Apana 2 to Keonekapu; unrecorded Royal Patent Number

1226, Land Commission Award Number 933, Apana 2 to Kamae; unrecorded Royal Patent Number 5610, Land Commission Award Number 4747, Apana 2 to Kama; and unrecorded Royal Patent Number 4518, Land Commission Award Number 25 F.L. to Kukui;) situate, lying and being at Hauhaukoi, Kapahaha, Keoneula, Kahawali, Koiuiu, Aala and Kuaiula, City and County of Honolulu, State of Hawaii, being PROJECT NO. HA-1-3, formerly identified as PROJECT TH-1-3 of the HAWAII HOUSING AUTHORITY, MAYOR WRIGHT HOMES, bearing Tax Key Number designation (1) 1-7-029-003, and containing an area of 646,654 square feet, more or less.

b. The above described parcel of land comprising, as a part thereof, all of the lands covered by each of the following Land Court Applications, filed in the Land Court of the of the State of Hawaii, and all of the lands described in each of the following Transfer Certificate of Title of the said Land Court issued to HAWAII PUBLIC HOUSING AUTHORITY, a public body and a body corporate and politic of the State of Hawaii as follows:

(1) Land Court Application No. 836 of Henry Atkinson Nye, Map 1, Transfer Certificate of Title No. 26,705;

(2) Land Court Application No. 1192 of Union Trust Company, Limited, LOTS 1, 2 and 3 as shown on Map 2, Transfer Certificate of Title No. 26,706;

(3) Land Court Application No. 126 of John Vivichaves, Map 1, Transfer Certificate of Title No. 26,707;

(4) Land Court Application No. 667 of Annie K. Wong Leong, Map 1,

Transfer Certificate of Title No. 26,746;

(5) Land Court Application No. 170 of Bernhard Rudolph Banning, LOTS 1-A and 2-A as shown on Map 2, Transfer Certificate of Title No. 26,747; and

(6) Land Court Application No. 463 of William Kahlbaum, Map 1, Transfer Certificate of Title No. 26,748.

c. Said above described parcel of land having been acquired by HAWAII PUBLIC HOUSING AUTHORITY, a public body and a body corporate and politic of the State of Hawaii, as follows:

(1) By FINAL ORDER OF CONDEMNATION had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated October 27, 1942, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16655, Proceedings in Eminent Domain, on October 27, 1942, recorded in the Bureau of Conveyances in Liber 1733 at Page 123;

(2) By FINAL ORDER OF CONDEMNATION AS TO PARCEL 10 had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated October 7, 1941, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16407, Proceedings in Eminent Domain, on October 8, 1941, recorded in the Bureau of Conveyances in Liber 1682 at Page 17;

(3) By FINAL ORDER OF CONDEMNATION AS TO PARCEL 14 had in the matter of the HAWAII HOUSING AUTHORITY, a public body and

a body corporate and politic, dated October 7, 1941, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16407, Proceedings in Eminent Domain, on October 8, 1941, recorded in the Bureau of Conveyances in Liber 1682 at Page 5;

(4) By FINAL ORDER OF CONDEMNATION AS TO PARCEL 15 had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated March 31, 1942, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16407, Proceedings in Eminent Domain, on March 31, 1942, recorded in the Bureau of Conveyances in Liber 1712 at Page 137;

(5) By FINAL ORDER OF CONDEMNATION had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated October 6, 1941, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16386, Proceedings in Eminent Domain, on October 8, 1941, recorded in the Bureau of Conveyances in Liber 1682 at Page 21;

(6) By FINAL ORDER OF CONDEMNATION AS TO PARCEL 20 had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated October 7, 1941, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16407, Proceedings in Eminent Domain, on October 8, 1941, recorded in the Bureau of Conveyances in Liber 1682 at Page 13;

(7) By FINAL ORDER OF CONDEMNATION AS TO PARCELS 21 AND 21-A had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated July 31, 1942, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16407, Proceedings in Eminent Domain, on August 3, 1942, recorded in the Bureau of Conveyances in Liber 1733 at Page 296;

(8) By FINAL ORDER OF CONDEMNATION AS TO PARCEL 22 had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated October 7, 1941, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16407, Proceedings in Eminent Domain, on October 8, 1941, recorded in the Bureau of Conveyances in Liber 1682 at Page 9;

(9) By FINAL ORDER OF CONDEMNATION AS TO PARCEL 23 had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated October 7, 1941, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16407, Proceedings in Eminent Domain, on October 8, 1941, recorded in the Bureau of Conveyances in Liber 1679 at Page 495;

(10) By FINAL ORDER OF CONDEMNATION AS TO PARCEL 24 had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated October 7, 1941, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16407, Proceedings in Eminent Domain, on October 8, 1941, recorded in the

Bureau of Conveyances in Liber 1682 at Page 1;

(11) By FINAL ORDER OF CONDEMNATION AS TO PARCELS 25 AND 25-A had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated July 31, 1942, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16407, Proceedings in Eminent Domain, on August 3, 1942, recorded in the Bureau of Conveyances in Liber 1733 at Page 303;

(12) By DEED of the TERRITORY OF HAWAII dated August 20, 1942, recorded in Liber 1710 at Page 80;

(13) By EXCHANGE DEED of THE CITY AND COUNTY OF HONOLULU, a municipal corporation of the Territory of Hawaii, dated April 2, 1952, recorded in Liber 2599 at Page 157; and

(14) By QUITCLAIM DEED of the STATE OF HAWAII dated July 10, 1986, recorded in Liber 19657 at Page 159 (L.O.D. S-27576) and filed as Land Court Document No. 1384263.

2. Pursuant to Act 196, Session Laws of Hawaii 2005 and Act 180, Session Laws of Hawaii 2006, the Housing and Community Development Corporation of Hawaii was separated into two state agencies, now known as the Hawaii Housing Finance and Development Corporation and the Hawaii Public Housing Authority.

3. Said Act 180, Session Laws of Hawaii 2006 ("Act 180") further provides that:

a. the respective jurisdiction, functions, powers, duties and authority theretofore exercised by the Housing and Community Development Corporation of Hawaii relating to appropriate housing functions and public housing shall be transferred and conferred upon

the HPHA; and

b. the HPHA shall succeed to all of the rights and powers previously exercised, and all of the duties and obligations incurred by the Housing and Community Development Corporation of Hawaii in the exercise of the functions, powers, duties, and authority transferred, relating to appropriate housing functions and public housing.

4. In connection with such transfer of the functions, powers, duties, and authority, all deeds, leases, contracts, loans, agreements, permits, or other documents executed or entered into by or on behalf of the Housing and Community Development Corporation of Hawaii, relating to appropriate housing functions and public housing, were transferred to the HPHA as of the effective date of Act 180.

[SIGNATURE PAGE FOLLOWS]

[THE REMAINDER OF THIS PAGE IS LEFT INTENTIONALLY BLANK]

CONFIRMATION OF OWNERSHIP

NOW, THEREFORE, the undersigned HPHA, fee simple owner, hereby confirms that as of the effective date of Act 180, it has by operation of law and legislative act succeeded to, and currently holds all of the estate, right, title, and interest of the Housing and Community Development Corporation of Hawaii in and to the parcel, and the improvements, tenements, rents, profits, rights, easements, privileges, hereditaments, and appurtenances thereunto belonging, or in anywise appertaining thereto, at law or in equity.

IN WITNESS WHEREOF, the undersigned executed these presents as of the day and year first above written.

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY

By: _____
Hakim Ouansafi
Its Executive Director

"OWNER HPHA"

APPROVED AS TO FORM:

_____
Deputy Attorney General

STATE OF HAWAII)
) SS:
CITY AND COUNTY OF HONOLULU)

On this 4th day of August, 2014, before me appeared Hakim Ouansafi, to me personally known, who, being by me duly sworn or affirmed, did say that such person(s) executed the foregoing instrument as the free act and deed of such person(s), and if applicable, in the capacities shown, having been duly authorized to execute such instrument in such capacities.

ELENA MURAYAMA NOTARY PUBLIC No. 11-383 STATE OF HAWAII

_____
Print Name: Elena Murayama
Notary Public, in and for said State

My commission expires: 12/04/15

NOTARY CERTIFICATE (Hawaii Administrative Rules §5-11-8)

Document Identification or Description: Confirmation of Ownership
Document Date: 08/04/14

No. of Pages: 11 Jurisdiction: First Circuit
(in which notarial act is performed)

_____ 08/04/14
Signature of Notary Date of Certificate

Elena Murayama
Printed Name of Notary

(Official Stamp or Seal)

ELENA MURAYAMA NOTARY PUBLIC No. 11-383 STATE OF HAWAII

APPENDIX H
SUPPLEMENTARY INFORMATION

NOTICE TO REQUESTER

TO: Stacey Gray, Weston Solutions, Inc. / (808) 275-2903 UST Section
(Requester's name)

FROM: Hawaii Dept. of Health, Solid and Hazardous Waste Branch, Amy Liana, (808) 586-4226, amy.liana@doh.hawaii.gov
(Agency, and agency contact person's name, telephone number, & email address)

DATE THAT THE RECORD REQUEST WAS RECEIVED BY AGENCY: 6/8/16

DATE OF THIS NOTICE: 6/16/16

GOVERNMENT RECORDS YOU REQUESTED (attach copy of request or provide brief description below):
1.
2.
3.
4.

THIS NOTICE IS TO INFORM YOU THAT YOUR RECORD REQUEST: There are no UST records

☐ **Will be granted in its entirety.**

☐ **Cannot be granted. Agency is unable to disclose the requested records for the following reason:**

- ☒ Agency does not maintain the records. (HRS § 92F-3)
  Other agency that is believed to maintain records: _____
- ☐ Agency needs further clarification or description of the records requested. Please contact the agency and provide the following information: _____
- ☐ Request requires agency to create a summary or compilation from records, but requested information is not readily retrievable. (HRS § 92F-11(c))

☐ **Will be granted in part and denied in part,** OR ☐ **Is denied in its entirety**
Although the agency maintains the requested records, it is not disclosing all or part of them based on the exemptions provided in HRS § 92F-13 and/or § 92F-22 or other laws cited below.
(Describe the portions of records that the agency will not disclose.)

RECORDS OR INFORMATION WITHHELD	APPLICABLE STATUTES	AGENCY JUSTIFICATION

REQUESTER'S RESPONSIBILITIES:

You are required to (1) pay any lawful fees and costs assessed; (2) make any necessary arrangements with the agency to inspect, copy or receive copies as instructed below; and (3) provide the agency any additional information requested. If you do not comply with the requirements set forth in this notice within 20 business days after the postmark date of this notice or the date the agency makes the records available, you will be presumed to have abandoned your request and the agency shall have no further duty to process your request. Once the agency begins to process your request, you may be liable for any fees and costs incurred. If you wish to cancel or modify your request, you must advise the agency upon receipt of this notice.

OIP (rev. 12/1/2015)

METHOD & TIMING OF DISCLOSURE:

Records available for public access in their entireties must be disclosed within a reasonable time, not to exceed 10 business days from the date the request was received, or after receipt of any prepayment required. Records not available in their entireties must be disclosed within 5 business days after this notice or after receipt of any prepayment required. HAR § 2-71-13(c). If incremental disclosure is authorized by HAR § 2-71-15, the first increment must be disclosed within 5 business days of this notice or after receipt of any prepayment required.

Method of Disclosure:

☐ Inspection at the following location: _____

☐ As requested, a copy of the record(s) will be provided in the following manner:

- ☐ Available for pick-up at the following location: _____
- ☐ Will be mailed to you.
- ☐ Will be transmitted to you by other means requested: _____

Timing of Disclosure: All records, or the first increment if applicable, will be made available or provided to you:

☐ On _____, 20___.

☐ **After prepayment** of 50% of fees and 100% of costs, as estimated below.

For incremental disclosures, each subsequent increment will be disclosed within 20 business days after:

- ☐ The prior increment (if one prepayment of fees is required and received), or
- ☐ Receipt of each incremental prepayment, if prepayment for each increment is required.

Records will be disclosed in increments because the records are voluminous and the following extenuating circumstances exist:

- ☐ Agency must consult with another person to determine whether the record is exempt from disclosure under HRS chapter 92F.
- ☐ Request requires extensive agency efforts to search, review, or segregate the records or otherwise prepare the records for inspection or copying.
- ☐ Agency requires additional time to respond to the request in order to avoid an unreasonable interference with its other statutory duties and functions.
- ☐ A natural disaster or other situation beyond agency's control prevents agency from responding to the request within 10 business days.

ESTIMATED FEES & COSTS AND PAYMENT:

FEES: For personal record requests under Part III of chapter 92F, HRS, the agency may charge you for its costs only, and fee waivers do not apply.

For public record requests under Part II of chapter 92F, HRS, the agency is authorized to charge you fees to search for, review, and segregate your request (even if a record is subsequently found to not exist or will not be disclosed in its entirety). The agency must waive the first $30 in fees assessed for general requesters, OR in the alternative, the first $60 in fees when the agency finds that the request is made in the public interest. Only one waiver is provided for each request. *See* HAR §§ 2-71-19, -31 and -32.

COSTS: For either personal or public record requests, the agency may charge you for the costs of copying and delivering records in response to your request, and other lawful fees and costs.

PREPAYMENT: The agency may require prepayment of 50% of the total estimated fees and 100% of the total estimated costs prior to processing your request. If a prepayment is required, the agency may wait to start any search for or review of the records until the prepayment is received by the agency. Additionally, if you have outstanding fees or costs

from previous requests, including abandoned requests, the agency may require prepayment of 100% of the unpaid balance from prior requests before it begins any search or review for the records you are now seeking.

The following is an itemization of what you must pay, based on the estimated fees and costs that the agency will charge you and the applicable waiver amount that will be deducted:

For public record requests only:

Fees:	Search	Estimate of time to be spent: 15 ~~hours~~ mins ($2.50 for each 15-minute period)	$2.50
	Review & segregation	Estimate of time to be spent: _____ hours ($5.00 for each 15-minute period)	$30.00
	Fees waived	☑ general ($30), **OR** ☐ public interest ($60) (Only one waiver per request)	<$ ____>
	Other	_____ (Pursuant to HAR §§ 2-71-19 & 2-71-31)	$
	Total Estimated Fees:		$ 0

For public or personal record requests:

Costs:	Copying	Estimate of # of pages to be copied: _____ (@ $____ per page, pursuant to HRS § 92-21)	$
	Delivery	Postage	$
	Other	_____	$
	Total Estimated Costs:		$ 0

TOTAL ESTIMATED FEES AND COSTS from above: $ 0

☐ **The estimated fees and costs above are for the first incremental disclosure only. Additional fees and costs, and no further fee waivers, will apply to future incremental disclosures.**

☐ **PREPAYMENT IS REQUIRED** (50% of fees + 100% of costs, as estimated above) $

☐ **UNPAID BALANCE FROM PRIOR REQUESTS** (100% must be paid before work begins) $

TOTAL AMOUNT DUE AT THIS TIME $ 0

Payment may be made by: ☐ cash

☐ personal check payable to _____

☐ other _____

For questions about this notice or the records being sought, please contact the agency person named at the beginning of this form. Please note that the Office of Information Practices (OIP) does not maintain the records of other agencies, and a requester must seek records directly from the agency it believes maintains the records. If the agency denies or fails to respond to your written request for records or if you have other questions regarding compliance with the UIPA, then you may contact OIP at (808) 586-1400, oip@hawaii.gov, or 250 South Hotel Street, Suite 107, Honolulu, Hawaii 96813.

REQUEST TO ACCESS A GOVERNMENT RECORD

JUN 08 2016 (1)

UG: 0
HW:
SV:

DATE: 6/1/2016

TO: Department of Heath Solid and Hazardous Waste Branch

FROM: Stacey Gray Weston Solutions, 841 Bishop Street Suite 2301 Honolulu, Hawaii 96813 email: Stacey.gray@westonsolutions.com Phone number: 808-275-2903 or cell 808-594-9891

Although you are not required to provide any personal information, you should provide enough information to allow the agency to contact you about this request. The processing of this request may be stopped if the agency is unable to contact you. Therefore, please provide any information that will allow the agency to contact you (name or alias, telephone or fax number, mailing address, e-mail address, etc.).

I WOULD LIKE THE FOLLOWING GOVERNMENT RECORD:

Describe the government record as specifically as possible so that it can be located. Try to provide a record name, subject matter, date, location, purpose, or names of persons to whom the record refers, or other information that could help the agency identify the record. A complete and accurate description of the government record you request will prevent delays in locating the record. Attach a second page if needed.

Weston is conducting a Phase I Environmental Site Assessment on the property located at 1020 Liliha Street Honolulu, Hawaii. Any records of CERCLA sites, RCRA sites, LUSTs, UST, spills, SHW and HEER sites on the property would be helpful.

I WOULD LIKE: (please check one or more of the options below)

☒ **To inspect the government record.**

☐ **A copy of the government record:** (Please check one of the options below.) See the back of this page for information about fees that you may be required to pay for agency services to process your record request. Note: Copying and transmission charges may also apply to certain options.

- ☐ Pick up at agency (**date and time**): _____
- ☐ Mail
- ☐ Fax (toll free and only if available)
- ☐ Other, if available (please specify): _____

☒ If the agency maintains the records in a form other than paper, please advise in which format you would prefer to have the record.

☒ Electronic ☐ Audio ☐ Other (please specify): _____

☐ Check this box if you are attaching a request for waiver of fees in the public interest (see waiver information on back).

SEE BACK FOR IMPORTANT INFORMATION

OIP 1 (rev. 9/12/01) 6/8

NOTICE TO REQUESTER

TO: Stacey Gray, Weston Solutions, Inc. / (808) 275-2903 HW Section
(Requester's name)

FROM: Hawaii Dept. of Health, Solid and Hazardous Waste Branch, Amy Liana, (808) 586-4226, amy.liana@doh.hawaii.gov
(Agency, and agency contact person's name, telephone number, & email address)

DATE THAT THE RECORD REQUEST WAS RECEIVED BY AGENCY: 6/8/16

DATE OF THIS NOTICE: 6/16/16

GOVERNMENT RECORDS YOU REQUESTED (attach copy of request or provide brief description below):
1.
2.
3.
4.

THIS NOTICE IS TO INFORM YOU THAT YOUR RECORD REQUEST: There are no HW records.

☐ **Will be granted in its entirety.**

☐ **Cannot be granted. Agency is unable to disclose the requested records for the following reason:**

- ☒ Agency does not maintain the records. (HRS § 92F-3)
  Other agency that is believed to maintain records: _____
- ☐ Agency needs further clarification or description of the records requested. Please contact the agency and provide the following information: _____
- ☐ Request requires agency to create a summary or compilation from records, but requested information is not readily retrievable. (HRS § 92F-11(c))

☐ **Will be granted in part and denied in part,** OR ☐ **Is denied in its entirety**
Although the agency maintains the requested records, it is not disclosing all or part of them based on the exemptions provided in HRS § 92F-13 and/or § 92F-22 or other laws cited below.
(Describe the portions of records that the agency will not disclose.)

RECORDS OR INFORMATION WITHHELD	APPLICABLE STATUTES	AGENCY JUSTIFICATION

REQUESTER'S RESPONSIBILITIES:

You are required to (1) pay any lawful fees and costs assessed; (2) make any necessary arrangements with the agency to inspect, copy or receive copies as instructed below; and (3) provide the agency any additional information requested. If you do not comply with the requirements set forth in this notice within 20 business days after the postmark date of this notice or the date the agency makes the records available, you will be presumed to have abandoned your request and the agency shall have no further duty to process your request. Once the agency begins to process your request, you may be liable for any fees and costs incurred. If you wish to cancel or modify your request, you must advise the agency upon receipt of this notice.

OIP (rev. 12/1/2015)

METHOD & TIMING OF DISCLOSURE:

Records available for public access in their entireties must be disclosed within a reasonable time, not to exceed 10 business days from the date the request was received, or after receipt of any prepayment required. Records not available in their entireties must be disclosed within 5 business days after this notice or after receipt of any prepayment required. HAR § 2-71-13(c). If incremental disclosure is authorized by HAR § 2-71-15, the first increment must be disclosed within 5 business days of this notice or after receipt of any prepayment required.

Method of Disclosure:

☐ Inspection at the following location: _____

☐ As requested, a copy of the record(s) will be provided in the following manner:

- ☐ Available for pick-up at the following location: _____
- ☐ Will be mailed to you.
- ☐ Will be transmitted to you by other means requested: _____

Timing of Disclosure: All records, or the first increment if applicable, will be made available or provided to you:

☐ On _____, 20___.

☐ **After prepayment** of 50% of fees and 100% of costs, as estimated below.

For incremental disclosures, each subsequent increment will be disclosed within 20 business days after:

- ☐ The prior increment (if one prepayment of fees is required and received), or
- ☐ Receipt of each incremental prepayment, if prepayment for each increment is required.

Records will be disclosed in increments because the records are voluminous and the following extenuating circumstances exist:

- ☐ Agency must consult with another person to determine whether the record is exempt from disclosure under HRS chapter 92F.
- ☐ Request requires extensive agency efforts to search, review, or segregate the records or otherwise prepare the records for inspection or copying.
- ☐ Agency requires additional time to respond to the request in order to avoid an unreasonable interference with its other statutory duties and functions.
- ☐ A natural disaster or other situation beyond agency's control prevents agency from responding to the request within 10 business days.

ESTIMATED FEES & COSTS AND PAYMENT:

FEES: For personal record requests under Part III of chapter 92F, HRS, the agency may charge you for its costs only, and fee waivers do not apply.

For public record requests under Part II of chapter 92F, HRS, the agency is authorized to charge you fees to search for, review, and segregate your request (even if a record is subsequently found to not exist or will not be disclosed in its entirety). The agency must waive the first $30 in fees assessed for general requesters, OR in the alternative, the first $60 in fees when the agency finds that the request is made in the public interest. Only one waiver is provided for each request. *See* HAR §§ 2-71-19, -31 and -32.

COSTS: For either personal or public record requests, the agency may charge you for the costs of copying and delivering records in response to your request, and other lawful fees and costs.

PREPAYMENT: The agency may require prepayment of 50% of the total estimated fees and 100% of the total estimated costs prior to processing your request. If a prepayment is required, the agency may wait to start any search for or review of the records until the prepayment is received by the agency. Additionally, if you have outstanding fees or costs

from previous requests, including abandoned requests, the agency may require prepayment of 100% of the unpaid balance from prior requests before it begins any search or review for the records you are now seeking.

The following is an itemization of what you must pay, based on the estimated fees and costs that the agency will charge you and the applicable waiver amount that will be deducted:

For public record requests only:

Fees:	Search	Estimate of time to be spent: 15 ~~hours~~ mins ($2.50 for each 15-minute period)	$2.50
	Review & segregation	Estimate of time to be spent: _____ hours ($5.00 for each 15-minute period)	$ 30.00
	Fees waived	☑ general ($30), OR ☐ public interest ($60) (Only one waiver per request)	<$ ____>
	Other	_____ (Pursuant to HAR §§ 2-71-19 & 2-71-31)	$
	Total Estimated Fees:		$ 0

For public or personal record requests:

Costs:	Copying	Estimate of # of pages to be copied: _____ (@ $____ per page, pursuant to HRS § 92-21)	$
	Delivery	Postage	$
	Other	_____	$
	Total Estimated Costs:		$ 0

TOTAL ESTIMATED FEES AND COSTS from above: $ 0

☐ **The estimated fees and costs above are for the first incremental disclosure only. Additional fees and costs, and no further fee waivers, will apply to future incremental disclosures.**

☐ **PREPAYMENT IS REQUIRED** (50% of fees + 100% of costs, as estimated above) $

☐ **UNPAID BALANCE FROM PRIOR REQUESTS** (100% must be paid before work begins) $

TOTAL AMOUNT DUE AT THIS TIME $ 0

Payment may be made by: ☐ cash

☐ personal check payable to _____

☐ other _____

For questions about this notice or the records being sought, please contact the agency person named at the beginning of this form. Please note that the Office of Information Practices (OIP) does not maintain the records of other agencies, and a requester must seek records directly from the agency it believes maintains the records. If the agency denies or fails to respond to your written request for records or if you have other questions regarding compliance with the UIPA, then you may contact OIP at (808) 586-1400, oip@hawaii.gov, or 250 South Hotel Street, Suite 107, Honolulu, Hawaii 96813.

REQUEST TO ACCESS A GOVERNMENT RECORD

JUN 08 2016

DATE: 6/1/2016

TO: Department of Heath Solid and Hazardous Waste Branch

FROM: Stacey Gray Weston Solutions, 841 Bishop Street Suite 2301 Honolulu, Hawaii 96813 email: Stacey.gray@westonsolutions.com Phone number: 808-275-2903 or cell 808-594-9891

Although you are not required to provide any personal information, you should provide enough information to allow the agency to contact you about this request. The processing of this request may be stopped if the agency is unable to contact you. Therefore, please provide any information that will allow the agency to contact you (name or alias, telephone or fax number, mailing address, e-mail address, etc.).

I WOULD LIKE THE FOLLOWING GOVERNMENT RECORD:

Describe the government record as specifically as possible so that it can be located. Try to provide a record name, subject matter, date, location, purpose, or names of persons to whom the record refers, or other information that could help the agency identify the record. A complete and accurate description of the government record you request will prevent delays in locating the record. Attach a second page if needed.

Weston is conducting a Phase I Environmental Site Assessment on the property located at 1020 Liliha Street Honolulu, Hawaii. Any records of CERCLA sites, RCRA sites, LUSTs, UST, spills, SHW and HEER sites on the property would be helpful. No files

I WOULD LIKE: (please check one or more of the options below)

☒ **To inspect the government record.**

☐ **A copy of the government record:** (Please check one of the options below.) See the back of this page for information about fees that you may be required to pay for agency services to process your record request. Note: Copying and transmission charges may also apply to certain options.

- ☐ Pick up at agency (**date and time**): _____
- ☐ Mail
- ☐ Fax (toll free and only if available)
- ☐ Other, if available (please specify): _____

☒ If the agency maintains the records in a form other than paper, please advise in which format you would prefer to have the record.

☒ Electronic ☐ Audio ☐ Other (please specify): _____

☐ Check this box if you are attaching a request for waiver of fees in the public interest (see waiver information on back).

SEE BACK FOR IMPORTANT INFORMATION

OIP 1 (rev. 9/12/01)

NOTICE TO REQUESTER

TO: Stacey Gray, Weston Solutions, Inc. / (808) 275-2903 SW Section
(Requester's name)

FROM: Hawaii Dept. of Health, Solid and Hazardous Waste Branch, Amy Liana, (808) 586-4226, amy.liana@doh.hawaii.gov
(Agency, and agency contact person's name, telephone number, & email address)

DATE THAT THE RECORD REQUEST WAS RECEIVED BY AGENCY: 6/8/16

DATE OF THIS NOTICE: 6/16/16

GOVERNMENT RECORDS YOU REQUESTED (attach copy of request or provide brief description below):

1.
2.
3.
4.

THIS NOTICE IS TO INFORM YOU THAT YOUR RECORD REQUEST: There are no SW records.

☐ **Will be granted in its entirety.**

☒ **Cannot be granted. Agency is unable to disclose the requested records for the following reason:**

- ☑ Agency does not maintain the records. (HRS § 92F-3)
  Other agency that is believed to maintain records: _____
- ☐ Agency needs further clarification or description of the records requested. Please contact the agency and provide the following information: _____
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OIP (rev. 12/1/2015)

METHOD & TIMING OF DISCLOSURE:

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	Fees waived	~~☐~~ general ($30), **OR** ☐ public interest ($60) (Only one waiver per request)	<$ ____>
	Other	_____ (Pursuant to HAR §§ 2-71-19 & 2-71-31)	$
	Total Estimated Fees:		$ 0

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Costs:	Copying	Estimate of # of pages to be copied: _____ (@ $____ per page, pursuant to HRS § 92-21)	$
	Delivery	Postage	$
	Other	_____	$
	Total Estimated Costs:		$ 0

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REQUEST TO ACCESS A GOVERNMENT RECORD

JUN 08 2016 (1)

UG: _____

HW: _____

SV: NONE

DATE: 6/1/2016

TO: Department of Heath Solid and Hazardous Waste Branch

FROM: Stacey Gray Weston Solutions, 841 Bishop Street Suite 2301 Honolulu, Hawaii 96813_email: Stacey.gray@westonsolutions.com Phone number: 808-275-2903 or cell 808-594-9891

Although you are not required to provide any personal information, you should provide enough information to allow the agency to contact you about this request. The processing of this request may be stopped if the agency is unable to contact you. Therefore, please provide any information that will allow the agency to contact you (name or alias, telephone or fax number, mailing address, e-mail address, etc.).

I WOULD LIKE THE FOLLOWING GOVERNMENT RECORD:

Describe the government record as specifically as possible so that it can be located. Try to provide a record name, subject matter, date, location, purpose, or names of persons to whom the record refers, or other information that could help the agency identify the record. A complete and accurate description of the government record you request will prevent delays in locating the record. Attach a second page if needed.

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- ☐ Fax (toll free and only if available)
- ☐ Other, if available (please specify): _____

☒ If the agency maintains the records in a form other than paper, please advise in which format you would prefer to have the record.

☒ Electronic ☐ Audio ☐ Other (please specify):_____

☐ Check this box if you are attaching a request for waiver of fees in the public interest (see waiver information on back).

SEE BACK FOR IMPORTANT INFORMATION

OIP 1 (rev. 9/12/01) 6/8

EXHIBIT 6

PHASE II ENVIRONMENTAL SITE ASSESSMENT
1020 LILIHA STREET
HONOLULU, HAWAII 96817

Prepared for:

MWH PARTNERS, LLC
737 Bishop Street, Suite 2750
Honolulu, HI 96813

Prepared by:

WESTON SOLUTIONS, INC.
841 Bishop Street Suite 2301
Honolulu, Hawaii 96813
808-275-2900 □ Fax 808-585-7378

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LIST OF ACRONYMS

APPL	Agriculture & Priority Pollutants Laboratories, Inc.
µg/L	micrograms per liter
bgs	below ground surface
COC	contaminants of concern
DU	decision unit
EAL	Environmental Action Levels
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
ft	feet
GeoTek	GeoTek Hawaii, Inc.
Hawaii Analytical	Hawaii Analytical Laboratory LLC
HDOH	Hawaii Department of Health
HEER	Hazard Evaluation and Emergency Response Office
HPHA	Hawaii Public Housing Authority
LBP	lead-based paint
MDL	Method Detection Limit
mg/kg	milligrams per kilogram
MI	multi-incremental
ND	not detected
PID	photo-ionization detector
OC	organochlorine
PVC	polyvinyl chloride
REC	Recognized Environmental Conditions
SB	soil boring
TCLP	Toxicity Characteristic Leaching Procedure
TGM	technical guidance manual
TPH	total petroleum hydrocarbons
TPH-D	TPH in the middle distillate range
TPH-G	TPH in the gasoline range
TPH-R	TPH in the residual distillate range
VOC	volatile organic compound
WESTON	Weston Solutions, Inc.

EXECUTIVE SUMMARY

This report presents the results of the Phase II Environmental Site Assessment (ESA) activities conducted by Weston Solutions, Inc. (WESTON®) for MWH Partners, LLC. at the subject property located at 1020 Liliha Street in Honolulu, HI. A Property Location Map is provided as **Figure 1**. The subject property is approximately 14.8 acres in size. The owner of the property is Hawaii Public Housing Authority (HPHA). The property is developed with 35 multi-story buildings containing multi-family housing. The current housing units have been located on the subject property since the early 1950s. A review of the Sanborn maps indicates the subject property has been developed since at least 1914. A Property Vicinity Map is provided as **Figure 2.**

The objective of the Phase II ESA is to evaluate the Recognized Environmental Conditions (RECs) at locations identified during WESTON's Phase I ESA, conducted in June 2016. The Phase II ESA activities were conducted in April 2018 and included; the collection and analyses of soil samples from 14 soil borings, collection and analysis of surface soils from three decision units (DUs), collection and analysis of groundwater samples collected from four newly installed temporary down gradient wells as shown on the Sample Location Map, **Figure 3.** Photographs of the assessment activities are provided in **Appendix A**. All drilling activities were conducted by licensed water well driller, GeoTek Hawaii, Inc (Geotek), in accordance with State requirements. Collected samples were relinquished directly to Hawaii Analytical Laboratory, LLC (Hawaii Analytical) and Agriculture & Priority Pollutants Laboratories, Inc. (APPL) for analyses.

Multi incremental (MI) sampling procedures were used to evaluate the presence of lead in surface soil at three decision units (DUs), DU-6 (Building 6), DU-21 (Building 21) and DU-35 (Building 35). The DU locations were selected to represent a 10% subset of the all buildings on site and to ensure that all exterior building materials are represented. Samples from the DUs were collected by combining 60 small increments of soil around the base of each building. Increments were collected from the surface soils along the building drip line 3-6 inches deep, as this is the where lead contamination is usually present due to weathering (rain and wind).

Surface and subsurface soil samples were collected at 14 soil boring locations and analyzed for total petroleum hydrocarbons (TPH) in the middle distillate range (TPH-D), TPH in the residual distillate range (TPH-R), TPH in the gasoline range (TPH-G), volatile organic compounds (VOCs), mineral spirits, organochlorine (OC) pesticides, and lead.

Groundwater samples were collected from the temporary wells at four soil boring locations and analyzed for: TPH-D and TPH-R by United States Environmental Protection Agency (EPA)

Method 8015B, and TPH-G and VOCs by EPA Method 8260B, mineral spirits by EPA Method 8015B, OC pesticides by EPA Method 8081A, and lead by EPA Method 6010B. GW-01 was re-sampled to verify previous bromomethane result.

Sample results were evaluated against Hawaii Department of Health (HDOH) Environmental Action Levels (EALs) to determine the risk to human health and the environment.

CONCLUSIONS

The conclusions of the Phase II ESA activities are summarized as follows:

Soil

- No soil sample results collected from soil borings are above HDOH Unrestricted EALs.
- Two out of three decision units (DU-06 and DU-35) tested above the HDOH Unrestricted EAL for lead.

Groundwater

- One groundwater sample result (GW-01) was above the HDOH Unrestricted EAL for bromomethane. However, upon re-sample of GW-01, the bromomethane result was below the Unrestricted EAL, making all groundwater results below HDOH Unrestricted EALs for all analyzed contaminates.

RECOMMENDATIONS

Based on the results and conclusions of the Phase II ESA, lead has been identified in soil at the subject property at concentrations above the Unrestricted Use EAL that may require additional activities to be performed. WESTON recommends the following:

- Additional multi-incremental sampling should be performed around all buildings in order to evaluate the lead contamination throughout the Site.
- All contaminated soil above the Unrestricted Use EAL should be excavated and disposed of. Waste characterization soil samples should be collected and analyzed by toxicity characteristic leaching procedure (TCLP) to ensure proper disposal at an appropriate landfill.

1 INTRODUCTION

In June 2016, Weston Solutions, Inc. (WESTON®), conducted a Phase I Environmental Site Assessment (ESA) at subject property located at 1020 Liliha Street in Honolulu, HI. The results of the Phase I ESA necessitated a Phase II ESA to further evaluate the potential of subsurface impacts of contaminants of concern (COCs) in the soil and groundwater. The Site location is shown on **Figure 1.** This report presents the results of the Phase II ESA activities conducted for MWH Partners, LLC.

The objective of the Phase II ESA is to evaluate the Recognized Environmental Conditions (RECs) at locations identified during WESTON's Phase I ESA. WESTON will evaluate Site environmental concerns to facilitate redevelopment.

2 BACKGROUND

The subject property is located in a densely developed mixed use area north of downtown Honolulu. The property is approximately 14.8 acres developed with 35 multi-story, multi-family residential housing units. The housing units have been located on the subject property since the early 1950s. The owner of the property is Hawaii Public Housing Authority (HPHA).

A review of historical Sanborn maps indicates the property has been developed since at least 1914. The property is shown on the 1914 map to be residential and tenement housing. Other notable historical uses for portions of the property included the following:

- 1914 - Auto painting, Hawaiian Soy Company, candy factory, mattress factory
- 1927 and 1950 - Auto storage
- 1950 - Auto repair

3 PHASE I ESA

A Phase I ESA site visit was performed on 15 June 2016, by Lisa Waskom and Stacey Gray with WESTON (WESTON, 2016). Based on the results of the Phase I ESA the following potential sources of contamination were identified at the Site:

- Various auto repair and service facilities, which are historically associated with total petroleum hydrocarbons (TPH) and volatile organic compounds (VOCs). The auto painting shop may have used lead-based paint (LBP) onsite.
- Dry cleaning and other laundry facilities, which could cause releases of VOCs or mineral spirits.
- Historical gardens may have used organochlorine (OC) pesticides on the property.

- LBP or lead-containing paint may have been released to the surrounding environment based on the age of the buildings.

4 PHASE II ESA FIELD INVESTIGATION

To facilitate redevelopment of the property, WESTON evaluated potential environmental concerns. Based on the results of the Phase I ESA, the following COCs were identified: TPH in the middle distillate range (TPH-D), TPH in the residual distillate range (TPH-R), TPH in the gasoline range (TPH-G), VOCs, mineral spirits, OC pesticides, and lead.

Sample results were evaluated against Hawaii Department of Health (HDOH) Environmental Action Levels (EALs) to determine the risk to human health and the environment.

Phase II ESA activities performed by WESTON included the collection and analyses of soil samples from 14 soil borings, and collection and analysis of groundwater samples from four temporary wells. WESTON also collected three multi incremental surface soil samples around three of the buildings on Site.

Photographs of the assessment activities are provided in **Appendix A**. All drilling activities were conducted by GeoTek Hawaii, Inc. (GeoTek) in accordance with HDOH Technical Guidance Manual (TGM).

4.1 MULTI INCREMENTAL SOIL SAMPLING

On 28 March 2018, WESTON mobilized to 1020 Liliha Street to collect soil samples as part of the Phase II ESA. The Hawaii Hazard Evaluation and Emergency Response (HEER) office encourages the use of multi incremental (MI) sample collection strategies to enhance sample representativeness in the investigation of contaminated soil. Based on the construction date of the building prior to 1978, it was anticipated that the paint on the buildings contained LBP). Over time LBP may have been released to soil in proximity to the buildings. MI sampling procedures were used to evaluate the presence of lead in surface soil at depths ranging from 0 to 6 inches below ground surface (bgs). Three decision units (DUs) were identified on the Site, DU-6 (Building 6), DU-21 (Building 21) and DU-35 (Building 35). The targeted areas for soil sample collection was identified as surface soil 3 to 6 inches horizontally from the base of the building at the approximate location of the dripline of the buildings. Three MI samples were collected around these buildings. The samples were prepared by collecting and combining 60 small increments of soil from evenly spaced locations within the targeted DUs. Samples were identified as DU-06, DU-21, and DU-35, based on the existing building number. Triplicate MI samples were collected from Building 35 to confirm laboratory results.

4.2 SOIL SAMPLING

On 2 and 3 April 2018, WESTON mobilized to the Site to conduct Phase II ESA activities including the collection of soil samples from a total of 14 soil borings (SB), SB-01 through SB-14. The borings were installed in areas of the property with the potential for contamination from historical operations and chemical use. The borings were advanced using direct push drilling to approximately 10 feet (ft) bgs by GeoTek. WESTON field personnel provided oversight to the installation of the borings and temporary monitoring wells. Soil was not logged on boring logs unless notable conditions were observed. Samples were collected based a photo-ionization detector (PID) screening and/or visual inspection. The locations of the soil borings are shown on the Sample Location Map, **Figure 3.**

During the installation of the soil borings, a layer of hard rock, likely basalt, was encountered over most of the Site. The thick layer of basalt was encountered at depths ranging from 4 ft to 12 ft bgs.

The soil borings were sampled continuously using direct-push technology drilling equipment where applicable, or hand auger sampling using micro-core samplers. Soil samples were examined for lithology and indications of contamination, such as odor and staining, and were screened for organic vapors with a hand-held PID. The samples were immediately screened with the PID after removing the sample from the sampling tool using the ambient temperature headspace analysis method. PID readings observed were generally low in the soil borings, and no significant PID readings, odors, or staining was observed in the soil samples. PID readings are provided in **Table 4-1**.

Table 4-1

Sample ID	Interval (ft)	PID Reading
SB-01	0-2	0
	2-4	0
	4-6	0
	6-8	0
SB-02	0-2	0.1
	2-4	0.1
	4-6	0.1
	6-8	0.1
	8-10	0
SB-03	0-2	0.1
	2-4	0
	4-6	0
	6-8	0
	8-10	0

	10-12	0.1
SB-04	0-2	0.0
	2-4	0.1
	4-6	0.1
	6-8	0.1
	8-10	0.1
SB-05	0-2	0.0
	2-4	0.0
	4-6	0.0
	6-8	0.0
SB-06	0-2	0.1
	2-4	0.2
	4-6	0.0
	6-8	0.0
	8-10	0.0
	10-12	0.0
SB-07	0-2	0.0
	2-4	0.0
	4-6	0.0
SB-08	0-2	0.0
	2-4	0.0
	4-5	0.0
SB-09	0-2	0.1
	2-4	0.0
	4-6	0.0
	6-8	0.0
	8-10	0.0
	10-11.5	0.0
SB-10	0-2	0.0
	2-4	0.0
	4-6	0.0
	6-8	0.0
	8-10	0.0
	10-12	0.0
SB-11	0-2	0.0
	2-4	0.1
SB-12	0-2	0.0
	2-4	0.0
SB-13	0-2	0.1
	2-4	0.1
	4-6	0.1
	6-8	0.0
	8-10	0.1
SB-14	0-2	0.4

	2-4	0.2
	4-6	0.4
	6-8	0.4

During the sampling event, soil samples were collected and analyzed from each soil boring from the intervals shown in **Table 4-2**. The intervals were selected at the depth interval that exhibited the highest PID reading, or other field evidence of contamination, such as odors or staining. If PID readings were the same at multiple intervals, the deepest interval was selected as the sample, unless field evidence of contamination suggested otherwise. Concentrations of OC pesticides are generally expected to lie within the top 2 ft of soil, and the highest concentrations are typically in the 0 to 6 inch interval and/or 6 to 12 inch interval. The pesticide samples were collected from the 0 to 2 foot interval in areas where there were historically gardens.

Table 4-2

Sample ID	Sample Interval (ft)
SB-01	4 to 6
SB-02	6 to 8
SB-03	10 to 12
SB-04	8 to 10
SB-05	4 to 6
SB-06	4 to 6
SB-07	2 to 4
SB-08	2 to 4
SB-09	0 to 2
SB-10	0 to 2
SB-11	0 to 2 - OC pesticides 2 to 4 - Other COCs
SB-12	0 to 2 - OC pesticides 2 to 4 - Other COCs
SB-13	4 to 6
SB-14	4 to 6

Following completion of drilling, each soil boring was immediately plugged and abandoned unless a groundwater well was installed.

4.3 GROUNDWATER SAMPLING

Field activities conducted by WESTON at the subject property included the installation of temporary monitoring wells on the southeastern edge of the Site. During the installation of the soil borings, a layer of hard rock was encountered over most of the Site. Monitoring wells could not be installed at 10 of the boring locations due the rock encapsulating the groundwater ranging at depths ranging from 4 to 11 ft bgs. The thick layer of rock was at shallower depths on the

northwestern edge of the Site and deeper depths moving southeast across the Site. Geotek attempted auguring through the thick rock (as opposed to direct push) but were unsuccessful.

A total of four temporary wells were installed to assess potential COC impacts to groundwater. The temporary wells were installed using a track mounted drilling rig. The wells were constructed of 1-inch diameter, polyvinyl chloride (PVC) casing and five ft of screen. A filter pack was installed by pouring silica sand directly into the boring hole from the ground surface. The location of the temporary wells were recorded using Global Positioning System (GPS) coordinates). The well locations are shown on **Figure 3 - Sampling Location Map.** Three times the volume of water was purged from the well prior to sampling, per HDOH's TGM.

Groundwater sampling was conducted using low-flow sampling methodology at flow rates of approximately 100 to 190 milliliters per minute. At regular intervals, the purged groundwater was monitored for temperature, hydrogen ion concentration, specific conductivity, turbidity, dissolved oxygen, and oxidation-reduction potential. Water quality parameters were monitored until the parameters were within those established by HDOH's TGM and the United States Environmental Protection Agency (EPA) groundwater sampling guideline (EPA, 2002). Once groundwater parameter stabilization was achieved, the groundwater samples were collected. However, stabilization at temporary groundwater well GW-13 was not achieved due to an extremely slow flow rate. At the existing flow rate at this well, the time to achieve stabilization would be in excess of 11 hours. As a result, the GW-13 samples were collected from the well without stabilization and only sampled for TPH-G, TPH-D, TPH-R, and mineral spirits.

Prior to groundwater sample collection from the temporary monitoring wells, the depth of the standing water and the total depth of the borehole was measured using a water-level indicator. Groundwater was encountered at depths ranging from 6.50 to 9.13 ft bgs.

GW-01 was re-sampled on 5 May 2018 and analyzed for VOCs to verify the bromomethane level in the groundwater at this location.

4.4 LABORATORY ANALYSES

MI samples were collected around three representative buildings and analyzed for lead by EPA Method 6010B at Hawaii Analytical Laboratory, LLC (Hawaii Analytical).

Soil boring samples were screened in the field for VOCs using a PID and inspected for visible evidence of contamination (e.g., discoloration or sheen). All soil samples collected were analyzed for TPH-D and TPH-R by EPA Method 8015B and TPH-G and VOCs by EPA Method

8260B. Based on the historical use of the Site, select samples were analyzed for mineral spirits by EPA Method 8015B, OC pesticides by EPA Method 8081A, and lead by EPA Method 6010B.

Groundwater samples were collected from the temporary wells at soil borings SB-01, SB-02, SB-03, and SB-13, and labelled GW-01, GW-02, GW-03, and GW-13 respectively. The groundwater samples collected were analyzed for: TPH-D and TPH-R by EPA Method 8015B, and TPH-G and VOCs by EPA Method 8260B, mineral spirits by EPA Method 8015B, OC pesticides by EPA Method 8081A, and lead by EPA Method 6010B. The re-sample of GW-01 was labelled GW-01-2 and analyzed for VOCs by EPA Method 8260B. The samples were analyzed by Agriculture & Priority Pollutants Laboratories, Inc. (APPL).

5 GEOLOGY AND HYDROGEOLOGY

The Iwilei area is located on the southeast coastal plain of the Island of Oahu, which was formed on the eroded banks of two shield volcanoes, the Koolau and the Waianae. The volcanic series underlying the Site was formed by rapid succession of volcanic flows with little evidence of erosion between eruptive events. The mode of emplacement produced vesicular basalt of high permeability that is referred to as the basal aquifer (Visher and Mink, 1964).

The basal aquifer is highly permeable as a result of layers of `a`a flows, lava tubes in pahoehoe flows, irregular openings between and within the flows, and contraction joints (Visher and Mink, 1964). Overlying the basal aquifer is a wedge-shaped sequence of sedimentary rocks referred to as the Caprock unit (Wentworth, 1951). The Caprock unit has a low overall permeability, which impedes groundwater discharge from the underlying volcanic aquifers to the ocean. Thus, the unit serves as a confining layer to the basal aquifer (Hufen et al., 1980). This may have been why the groundwater was inaccessible across much of the Site.

The soil at the Site is classified by the United States Department of Agriculture Soil Conservation Service as part of the Lualualei-Fill Land-Ewa Association or fill land mixed (Foote et al., 1972).

Groundwater was encountered at the four temporary wells at depths ranging from 6.50 to 9.13 ft bgs which is a consistent groundwater depth to the rest of the Iwilei District.

6 ANALYTICAL RESULTS

6.1 ANALYTICAL DATA QUALITY REVIEW

WESTON performed a data quality review of the soil and groundwater samples analytical data reported by APPL, Inc. Data qualifiers assigned by the laboratory based on their internal data

quality review were evaluated for appropriateness in the context of the data quality objectives outlined in the scope of work. Sample condition, holding times, and standard laboratory quality control checks were evaluated to assess the overall precision, accuracy, and completeness of the data.

Samples were delivered to the laboratory in good condition. All holding times were met and no target analytes were detected in method blanks, surrogate, and laboratory spike recoveries were within control limits. All laboratory-assigned J-flags denoting estimated values due to detections below reporting limits were retained. Additionally, VOC results in soil sample SB-09 and groundwater sample GW-01 were qualified "J" (estimated values) due to exceedances in relative percent differences between field replicates of this sample. All of the laboratory method detection limits (MDLs) were below the respective Tier 1 EALs, therefore none of the "None Detected" values were qualified. None of the data were rejected. This data set is 100% complete, with all analytical results considered valid and useable in the context of the project goals.

6.2 SOIL RESULTS

A summary of the analytical results for soil samples collected to support the Phase II ESA is provided as **Tables 6-1, 6-2, and 6-3**. Sample results were compared to the Unrestricted HDOH EALs. All laboratory method detection limits (MDLs) were below HDOH Unrestricted EALs. Copies of the analytical reports and chain-of-custody documentation are provided in **Appendix B**.

TPH-G, TPH-R, TPH-D, Mineral Spirits, OC Pesticides, VOCs and lead were reported at concentrations in soil boring samples below the Unrestricted HDOH EALs. Results for all three TPH ranges, Mineral Spirits, and lead are provided in **Table 6-1,** and for OC Pesticides – in **Table 6-2**. VOC results are not tabulated due to the absence of detections in all samples with the exception of xylenes in the field duplicate of SB-09 at estimated 0.24 milligrams per kilogram (mg/kg), which is below the Tier 1 EAL for xylenes (2.1 mg/kg). Based on historical recognized environmental conditions, SB-02 was the only soil boring analyzed for lead.

Table 6-1

Sample ID/COC	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	Mineral Spirits (mg/kg)	Lead (mg/kg)
SB-01	ND	ND	ND	ND	NS
SB-02	ND	93	270	NS	75.1
SB-03	ND	ND	ND	ND	NS
SB-04	ND	ND	ND	NS	NS
SB-05	ND	ND	ND	NS	NS
SB-06	ND	10	20	ND	NS
SB-07	ND	37	74	NS	NS
SB-08	ND	ND	ND	NS	NS
SB-09	ND	12	22	NS	NS
SB-10	ND	19	40	ND	NS
SB-11	ND	51	110	NS	NS
SB-12	ND	20	41	NS	NS
SB-13	ND	ND	ND	ND	NS
SB-14	ND	ND	ND	NS	NS
Unrestricted Use EAL	*100*	*220*	*500*	*N/A*	*200*

Notes:
ND: Not detected above laboratory MDL.
NS: Not sampled per historical recognized environmental conditions.
N/A: Not available.

Table 6-2

Sample ID/COC	Aldrin (mg/kg)	Chlordane (mg/kg)	DDT (mg/kg)	Dieldrin (mg/kg)	Endrin (mg/kg)	Heptachlor (mg/kg)	Heptachlor Epoxide (mg/kg)	Methoxychlor (mg/kg)
SB-01	NS	NS	NS	NS	NS	NS	NS	NS
SB-02	NS	NS	NS	NS	NS	NS	NS	NS
SB-03	NS	NS	NS	NS	NS	NS	NS	NS
SB-04	NS	NS	NS	NS	NS	NS	NS	NS
SB-05	NS	NS	NS	NS	NS	NS	NS	NS
SB-06	NS	NS	NS	NS	NS	NS	NS	NS
SB-07	NS	NS	NS	NS	NS	NS	NS	NS
SB-08	NS	NS	NS	NS	NS	NS	NS	NS
SB-09	NS	NS	NS	NS	NS	NS	NS	NS
SB-10	ND	ND	ND	ND	ND	ND	ND	ND
SB-11	ND	ND	ND	ND	ND	ND	ND	ND
SB-12	ND	ND	0.019 J	ND	ND	ND	ND	ND
SB-13	NA	NS	NS	NS	NS	NS	NS	NS
SB-14	NS	NS	NS	NS	NS	NS	NS	NS
Unrestricted Use EAL	*3.9*	*17*	*1.8*	*2.5*	*3.8*	*1.3*	*0.2*	*16*

Notes:
ND: Not detected above laboratory Method Detection Limits.
NS: Not sampled per historical recognized environmental conditions.
J: Estimated value.

Lead concentrations exceeded the Unrestricted HDOH EALs in two of the decision units, DU-06 and DU-35. Multi incremental sampling results are provided in **Table 6-3**.

Table 6-3

Sample ID	Lead Result (mg/kg)
DU-06	240
DU-21	130
DU-35	250
Unrestricted Use EAL	*200*

Comparing the data to HDOH Unrestricted EALs is appropriate to determine whether the concentrations of COCs in soil will be protective for all receptors and exposure pathways to all population types. When concentrations are below the Unrestricted EAL, no further action is required. When concentrations are above the Unrestricted EAL they are considered too hazardous for residential use. The results for lead at DU-06 and DU-35 are above HDOH's Unrestricted Use EAL which indicates the lead concentrations around the buildings are dangerous to human health. Sample results above the EALs are shown on **Figure 4.**

6.3 GROUNDWATER RESULTS

A summary of the analytical results for the groundwater samples for VOCs is provided in **Table 6-5**. The table also includes the HDOH Unrestricted EALs for comparison purposes. Groundwater results for TPH-G, TPH-D, TPH-R, and mineral spirits are not included in the table because none of these COCs were detected in any of the groundwater samples. The concentration of lead in sample GW-02 is less than the laboratory MDL. All of the laboratory method limits are below the HDOH Unrestricted Use EALs. Copies of the analytical reports and chain-of-custody documentation are provided in **Appendix C**.

Table 6-4

COC/Sample ID	GW-01	GW-02	GW-03	GW-01-2	*Unrestricted Use EAL*
Benzene (µg/L)	ND	ND	ND	ND	*5*
Methyl ethyl ketone (µg/L)	ND	ND	ND	ND	*5600*
Carbon Tetrachloride (µg/L)	ND	ND	ND	ND	*5*
Cis-1,2-dichloroethylene (µg/L)	ND	ND	ND	ND	*70*
Trans-1,2-dichloroethylene (µg/L)	ND	ND	ND	ND	*100*
Ethylbenzene (µg/L)	ND	ND	ND	ND	*30*
Methylene Chloride (µg/L)	ND	ND	ND	ND	*5*
Tetrachloroethylene (µg/L)	ND	ND	ND	ND	*5*
Vinyl Chloride (µg/L)	ND	ND	ND	ND	*2*
Xylenes (µg/L)	ND	ND	ND	ND	*20*
Bromomethane (µg/L)	8.1 J	2.3	1.6	0.62 J	*7.6*

Chloromethane (µg/L)	120 J	52	47	5.4	*190*

Notes:
ND: Not detected above laboratory MDL.
J: Estimated value.

The only VOCs detected in groundwater samples are chloromethane and bromomethane. Low levels of chloromethane occur naturally in the environment (ATSDR, 1998) and none of the groundwater results exceeded the Tier 1 EAL, therefore, it is not a chemical of concern at this site. The bromomethane concentration in one sample (GW-01) originally exceeded the Tier 1 EAL. However, the re-sample of GW-01, showed Bromomethane below the Tier 1 EAL at this location. Bromomethane is widely used as a fumigant in soil to control fungi, nematodes, and weeds; and in storage facilities to control insects and rodents (ATSDR, 1992; Sittig, 1985). Its most prevalent use is as soil fumigant. Structural non-food treatments (e.g., residential buildings) are reportedly no longer performed (USEPA, 2009). The detection of Bromomethane in groundwater on site at that location can be attributable to the past fumigations for weed and pest control.

6.4 AFFECTED MATERIALS REQUIRING A RESPONSE ACTION

Concentrations of lead exceeding the HDOH Unrestricted Use EALs were identified in samples collected at DU-06 and DU-35. The surface soil around the buildings on site requires a response action. Additional testing should be performed around all buildings in order to confirm the extent of the lead contamination.

After the extent of lead contamination is identified, the lead affected soil with concentrations exceeding the Unrestricted EAL should be excavated and disposed. Waste characterization soil samples were collected and analyzed by toxicity characteristic leaching procedure (TCLP) to ensure proper disposal at an appropriate landfill.

7 CONCLUSIONS

The conclusions of the Phase II ESA activities are summarized as follows:

Soil

- No soil sample results collected from soil borings are above HDOH Unrestricted EALs.
- Two out of three decision units (DU-06 and DU-35) tested above the HDOH Unrestricted EAL for lead.

Groundwater

- One groundwater sample result (GW-01) was above the HDOH Unrestricted EAL for bromomethane. However, upon re-sample of GW-01, the bromomethane result was

below the Unrestricted EAL, making all groundwater results below HDOH Unrestricted EALs for all contaminates tested for.

8 RECOMMENDATIONS

Based on the results and conclusions of the Phase II ESA, lead has been identified in soil at the subject property at concentrations above 200 mg/kg that may require additional evaluation and removal. WESTON recommends the following:

- Additional multi-incremental sampling should be performed around all buildings in order to evaluate the lead contamination throughout the Site.
- All contaminated soil above the Unrestricted Use EAL should be excavated and disposed of. Excavated soil should be tested for TCLP to ensure that it is disposed of properly.

9 REFERENCES

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FIGURES

Oahu
Honolulu
Fort Shafter
Honolulu
Sand Island
Kapalama Basin
Honolulu Harbor Piers 1-2
Honolulu Harbor Piers 19-20
Honolulu Harbor Piers 31-35
Honolulu Harbor Piers 39-40
Honolulu Harbor Piers 51-53
Punchbowl Hall Memorial Cemetery
Oahu Cemetery
Oahu Country Club
University of Hawai'i at Manoa
Kakaako Waterfront Park
Ala Moana Beach Park
Dole Park
Aloha Tower
Aloha Tower Marketplace
Nimitz Hwy
Ala Moana Blvd
Kapiolani Blvd
King St
Beretania St
Vineyard Blvd
Pali Hwy
Dillingham Blvd
Kamehameha Hwy
Waialae Ave
Kalihi St
Liliha St
Nuuanu Ave
Punchbowl St
Alakea St
Bishop St
Fort St Mall
Richards St
Alapai St
Piikoi St
Keeaumoku St
Makiki St
Wilder Ave
Manoa Rd
Pensacola St
Isenberg St
Young St
Kinau St
Kapiolani Park
Ala Wai Golf Course
Ala Wai Canal
Ala Wai Yacht Harbor
Ala Wai Blvd
Kuhio Ave
Kalakaua Ave
Waikiki
Diamond Head
Kaimuki
Moiliili
Makiki
Nuuanu
Pauoa
Punchbowl
Kalihi
Iwilei
Kakaako
Ala Moana

LEGEND

- Borehole Locations
- UST
- Kids Park
- Rubbish Pit
- Storm Drain
- Borehole & Temporary Well Location
- Contours (5ft)
- Decision Units
- Site Location
- Tax Lot

0 320 Feet

N

FIGURE 3
SAMPLING LOCATIONS MAP
MAYOR WRIGHT HOUSING
HUNT DEVELOPMENT
1020 LILHA STREET
HONOLULU, HAWAII

DATE	PROJECT NO	SCALE
APR 2018	15350.002.024.4000	1 : 2100

SOURCE: Esri, HoLIS

FILE: Q:\15350_Hunt\MWH_Phase2\mxd\Figure 3 - Sampling Location Map.mxd 2:11:04 PM 4/26/2018 paynel

LEGEND

- Borehole Locations
- UST
- Kids Park
- Rubbish Pit
- Storm Drain
- Borehole & Temporary Well Location
- Contours (5ft)
- Decision Units
- Site Location
- Tax Lot

0 320 Feet

N

FIGURE 4
SAMPLING RESULTS ABOVE EALs
MAYOR WRIGHT HOUSING HUNT
DEVELOPMENT
1020 LILHA STREET HONOLULU,
HAWAII

DATE	PROJECT NO	SCALE
APR 2018	15350.002.024.4000	1 : 2100

SOURCE: Esri, HoLIS

FILE: Q:\15350_Hunt\MWH_Phase2\mxd\Figure 4 - Sampling Results Above EALs.mxd 2:13:11 PM 4/26/2018 paynel

APPENDIX A

SITE PHOTOGRAPHS

Photo 1

Multi incremental soil samples collected around the dripline at Building 6 (DU-06) on 28 March 2018.

Photo 2

Geotek Hawaii, Inc. conducting a geophysical investigation on 28 March 2018 around a proposed boring location to ensure that no utilities would be impacted during drilling activities.

Photo 3

Geotek Hawaii, Inc. drillers collecting soil boring and installing temporary well 2 April 2018.

Photo 4

Soil sample collected at soil boring SB-14 collected on 3 April 2018.

Photo 5

WESTON employee using the Photoionization Detector (PID) to determine amount of volatiles in the sample prior to collection.

Photo 6

WESTON employee placing sample material in jar.

Photo 7

Geotek Hawaii, Inc. (driller) decontaminating the drilling equipment in between soil borings.

Photo 8

Geotek Hawaii, Inc. (driller) unsuccessfully attempting to auger through the hard layer of rock encapsulating the groundwater across the Site.

Photo 9

WESTON employee developing a temporary well by purging three well volumes from the well prior to sampling.

Photo 10

Groundwater sampling at a temporary well using a low flow sampling methodology.

APPENDIX B

ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FOR SOIL

(ON CD)

Hawaii Analytical Laboratory
ANALYTICAL REPORT

Thursday, April 05, 2018

Ms. Christine Kline
Weston Solutions
841 Bishop St. #2301
Honolulu HI 96813

Phone Number: (808) 275-2936
Facsimile:
Email: christine.kline@westonsolutions.com

Lab Job No: 201802389
Date Submitted: 3/28/2018
Your Project: Mayor Wright, 3/28/2018

Total Lead (soil)

EPA Method: 3051m/7000Bm

Sample No.	Your Sample Description	Results	Units	Date Analyzed
201813567	**DU-21**	130	mg/kg	4/2/2018
Comments	Multi-incremental sampling was performed on the sample.			
201813568	**DU-35**	250	mg/kg	4/2/2018
Comments	Multi-incremental sampling was performed on the sample.			
201813569	**DU-55**	270	mg/kg	4/2/2018
Comments	Multi-incremental sampling was performed on the sample.			
201813570	**DU-45**	260	mg/kg	4/2/2018
Comments	Multi-incremental sampling was performed on the sample.			
201813571	**DU-06**	240	mg/kg	4/2/2018
Comments	Multi-incremental sampling was performed on the sample.			

Ms. Christine Kline
Weston Solutions
841 Bishop St. #2301
Honolulu HI 96813

Phone Number: (808) 275-2936
Facsimile:
Email: christine.kline@westonsolutions.com

Lab Job No: 201802389
Date Submitted: 3/28/2018
Your Project: Mayor Wright, 3/28/2018

All Quality Control data are acceptable unless otherwise noted.
MRL for lead air is 5ug.
MRL for lead wipe is 10ug.
MRL for lead paint or soil is 40 mg/kg for a 0.25g sample.

General Comments
The sample[s] analysis subject of this analytical report were conducted in general accordance with the procedures associated with the "analytical method" referenced above. Modifications to this methodology may have been made based upon the analyst's professional judgment and / or sample matrix effects encountered. The analysis of sample relates only to the sample analyzed, and may or may not be representative of the original source of the material submitted for our analysis. All analysts participate in interlaboratory quality control testing to continuously document profiency. This report is not to be duplicated except in full without the expressed written permission of Hawaii Analytical Laboratory. This report should not be construed as an endorsement for a product or a service by the AIHA LAP, LLC or any affiliated organizations. Sample and associated sampling / collection data is reported as provided by client. TWA values have been calculated based on information supplied by the client that the laboratory has not independently verified. Results have not been corrected for blank determinations unless noted in remarks. Unless otherwise indicated the sample condition at the time of receipt was acceptable.

Results and Symbols Definitions
> This testing result is greater than the numerical value listed.
< This testing result is less than the numerical value listed.
# = Analytical methods marked with an "#" are not within our AIHA LAP, LLC Scope of Accreditation.
MRL = Method Reporting Limit.

Jennifer Hsu Liao
Laboratory Manager

APPL LABS
908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422
Certification Number: CA1312 WW & DW)
NELAP Certification number: CA00046 (HW)

April 25, 2018

Weston Solutions
841 Bishop Street, Suite 2301
Honolulu, Hawaii 96813

Attn: Christine Kline

Subject: Report of Data: 85411

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dear Ms. Kline:

Sixteen soil samples for the "Mayor Wright" project were received April 6, 2018, at 2.5°C. Written results are being provided on this April 25, 2018, for the requested analyses. All holding times were met.

For the EPA 8015B analysis, the samples were extracted according to EPA method 3550B.

For the EPA 8081A analysis, the samples were extracted according to EPA method 3550B.

For the EPA 8260B analysis, the samples were purged according to EPA method 5035.

For the EPA 6010B analysis, the sample was digested according to EPA method 3050B.

No unusual problem or complication was encountered with this sample set.

If you have any questions or require further information, please contact us at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

for PM

Paula McCartney, Laboratory Director
APPL, Inc.

PM/rp
Enclosure
cc: File

Number of pages in this report ____

EPA 8015 SOIL

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline

Project: Mayor Wright

Sample ID: SB-01

Sample Collection Date: 04/02/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85411

APPL ID: AZ71109

QCG: #TPHDR-180409A-228425

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 35.1 Percent Moisture.)							
EPA 8015B-e	DIESEL FUEL	Not detected	1.50	0.920	mg/kg	04/09/18	04/12/18
EPA 8015B-e	MINERAL SPIRITS	Not detected	15.0	5.10	mg/kg	04/09/18	04/12/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	Not detected	15.0	5.40	mg/kg	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	73.2	47-140		%	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	98.4	58-128		%	04/09/18	04/12/18

Quant Method: TPHD0321.M
Run #: 411038
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

Printed: 04/12/18 10:18:19 AM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8015 SOIL

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline

Project: Mayor Wright

Sample ID: SB-02

Sample Collection Date: 04/02/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85411

APPL ID: AZ71110

QCG: #TPHDR-180409A-228425

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 24.8 Percent Moisture.)							
EPA 8015B-e	DIESEL FUEL	93 ++	1.30	0.800	mg/kg	04/09/18	04/12/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	270	13.0	4.70	mg/kg	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	82.1	47-140		%	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	101	58-128		%	04/09/18	04/12/18

++(T3M) The analyst has noted that the chromatogram of this sample is mainly higher boiling hydrocarbons.

Quant Method: TPHD0321.M
Run #: 411042
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

Printed: 04/12/18 10:18:19 AM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8015 SOIL

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-03
Sample Collection Date: 04/02/18

ARF: 85411
APPL ID: AZ71111
QCG: #TPHDR-180409A-228425

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 33.2 Percent Moisture.)							
EPA 8015B-e	DIESEL FUEL	Not detected	1.50	0.900	mg/kg	04/09/18	04/12/18
EPA 8015B-e	MINERAL SPIRITS	Not detected	15.0	4.90	mg/kg	04/09/18	04/12/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	Not detected	15.0	5.30	mg/kg	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	65.7	47-140		%	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	99.8	58-128		%	04/09/18	04/12/18

Quant Method: TPHD0321.M
Run #: 411043
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

Printed: 04/12/18 10:18:19 AM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8015 SOIL

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-13
Sample Collection Date: 04/02/18

ARF: 85411
APPL ID: AZ71112
QCG: #TPHDR-180409A-228425

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 35.3 Percent Moisture.)							
EPA 8015B-e	DIESEL FUEL	Not detected	1.50	0.930	mg/kg	04/09/18	04/12/18
EPA 8015B-e	MINERAL SPIRITS	Not detected	15.0	5.10	mg/kg	04/09/18	04/12/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	Not detected	15.0	5.40	mg/kg	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	66.6	47-140		%	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	102	58-128		%	04/09/18	04/12/18

Quant Method: TPHD0321.M
Run #: 411044
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

Printed: 04/12/18 10:18:19 AM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8015 SOIL

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline

Project: Mayor Wright

ARF: 85411

Sample ID: SB-14

APPL ID: AZ71113

Sample Collection Date: 04/03/18

QCG: #TPHDR-180409A-228425

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 30.3 Percent Moisture.)							
EPA 8015B-e	DIESEL FUEL	Not detected	1.40	0.860	mg/kg	04/09/18	04/12/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	Not detected	14.0	5.00	mg/kg	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	64.4	47-140		%	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	104	58-128		%	04/09/18	04/12/18

Quant Method: TPHD0321.M
Run #: 411045
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

Printed: 04/12/18 10:18:19 AM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8015 SOIL

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline

Project: Mayor Wright

ARF: 85411

Sample ID: SB-24

APPL ID: AZ71114

Sample Collection Date: 04/03/18

QCG: #TPHDR-180409A-228425

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 32.6 Percent Moisture.)							
EPA 8015B-e	DIESEL FUEL	Not detected	1.50	0.890	mg/kg	04/09/18	04/12/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	Not detected	15.0	5.20	mg/kg	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	59.3	47-140		%	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	97.2	58-128		%	04/09/18	04/12/18

Quant Method: TPHD0321.M
Run #: 411046
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

Printed: 04/12/18 10:18:19 AM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8015 SOIL

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-04
Sample Collection Date: 04/03/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85411
APPL ID: AZ71115
QCG: #TPHDR-180409A-228425

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 19.6 Percent Moisture.)							
EPA 8015B-e	DIESEL FUEL	Not detected	1.20	0.750	mg/kg	04/09/18	04/12/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	Not detected	12.0	4.40	mg/kg	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	51.9	47-140		%	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	98.5	58-128		%	04/09/18	04/12/18

Quant Method: TPHD0321.M
Run #: 411047
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

Printed: 04/12/18 10:18:19 AM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8015 SOIL

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-05
Sample Collection Date: 04/03/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85411
APPL ID: AZ71116
QCG: #TPHDR-180409A-228425

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 26.5 Percent Moisture.)							
EPA 8015B-e	DIESEL FUEL	Not detected	1.40	0.820	mg/kg	04/09/18	04/12/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	Not detected	14.0	4.80	mg/kg	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	62.2	47-140		%	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	103	58-128		%	04/09/18	04/12/18

Quant Method: TPHD0321.M
Run #: 411048
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

Printed: 04/12/18 10:18:19 AM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8015 SOIL

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Project: Mayor Wright
ARF: 85411
Sample ID: SB-06
APPL ID: AZ71117
Sample Collection Date: 04/03/18
QCG: #TPHDR-180409A-228425

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 14.9 Percent Moisture.)							
EPA 8015B-e	DIESEL FUEL	10 ++	1.20	0.710	mg/kg	04/09/18	04/12/18
EPA 8015B-e	MINERAL SPIRITS	Not detected	12.0	3.90	mg/kg	04/09/18	04/12/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	20	12.0	4.10	mg/kg	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	70.2	47-140		%	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	103	58-128		%	04/09/18	04/12/18

++(T3M) The analyst has noted that the chromatogram of this sample is mainly higher boiling hydrocarbons.

Quant Method: TPHD0321.M
Run #: 411049
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

Printed: 04/12/18 10:18:19 AM
APPL-F1-SC-MCRes/MCPOL-REG MDLs

EPA 8015 SOIL

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Project: Mayor Wright
ARF: 85411
Sample ID: SB-08
APPL ID: AZ71118
Sample Collection Date: 04/03/18
QCG: #TPHDR-180409A-228425

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 16.4 Percent Moisture.)							
EPA 8015B-e	DIESEL FUEL	Not detected	1.20	0.720	mg/kg	04/09/18	04/12/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	Not detected	12.0	4.20	mg/kg	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	54.2	47-140		%	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	100.0	58-128		%	04/09/18	04/12/18

Quant Method: TPHD0321.M
Run #: 411050
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

Printed: 04/12/18 10:18:19 AM
APPL-F1-SC-MCRes/MCPOL-REG MDLs

EPA 8015 SOIL

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-07
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71119
QCG: #TPHDR-180409A-228425

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 29.3 Percent Moisture.)							
EPA 8015B-e	DIESEL FUEL	37 ++	1.40	0.850	mg/kg	04/09/18	04/12/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	74	14.0	5.00	mg/kg	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	125	47-140		%	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	97.2	58-128		%	04/09/18	04/12/18

++(T3I) The analyst has noted that the chromatogram of this sample includes higher boiling hydrocarbons.

Quant Method: TPHD0321.M
Run #: 411051
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8015 SOIL

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Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-09
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71120
QCG: #TPHDR-180409A-228425

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 33.6 Percent Moisture.)							
EPA 8015B-e	DIESEL FUEL	12 ++	1.50	0.900	mg/kg	04/09/18	04/12/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	22	15.0	5.30	mg/kg	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	74.2	47-140		%	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	101	58-128		%	04/09/18	04/12/18

++(T3M) The analyst has noted that the chromatogram of this sample is mainly higher boiling hydrocarbons.

Quant Method: TPHD0321.M
Run #: 411055
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

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EPA 8015 SOIL

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Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-10
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71121
QCG: #TPHDR-180409A-228425

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 14.9 Percent Moisture.)							
EPA 8015B-e	DIESEL FUEL	19 ++	1.20	0.710	mg/kg	04/09/18	04/12/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	40	12.0	4.10	mg/kg	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	73.0	47-140		%	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	99.4	58-128		%	04/09/18	04/12/18

++(T3M) The analyst has noted that the chromatogram of this sample is mainly higher boiling hydrocarbons.

Quant Method: TPHD0321.M
Run #: 411056
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8015 SOIL

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Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-29
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71122
QCG: #TPHDR-180409A-228425

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 31.3 Percent Moisture.)							
EPA 8015B-e	DIESEL FUEL	16 ++	1.50	0.870	mg/kg	04/09/18	04/12/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	34	15.0	5.10	mg/kg	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	73.7	47-140		%	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	97.3	58-128		%	04/09/18	04/12/18

++(T3M) The analyst has noted that the chromatogram of this sample is mainly higher boiling hydrocarbons.

Quant Method: TPHD0321.M
Run #: 411057
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8015 SOIL

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Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-11
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71123
QCG: #TPHDR-180409A-228425

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 33.7 Percent Moisture.)							
EPA 8015B-e	DIESEL FUEL	51 ++	1.50	0.900	mg/kg	04/09/18	04/12/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	110	15.0	5.30	mg/kg	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	117	47-140		%	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	100	58-128		%	04/09/18	04/12/18

++(T3M) The analyst has noted that the chromatogram of this sample is mainly higher boiling hydrocarbons.

Quant Method: TPHD0321.M
Run #: 411058
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8015 SOIL

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APPL Inc.
908 North Temperance Avenue
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Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-12
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71124
QCG: #TPHDR-180409A-228425

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 28.7 Percent Moisture.)							
EPA 8015B-e	DIESEL FUEL	20 ++	1.40	0.840	mg/kg	04/09/18	04/12/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	41	14.0	4.90	mg/kg	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	74.4	47-140		%	04/09/18	04/12/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	100	58-128		%	04/09/18	04/12/18

++(T3M) The analyst has noted that the chromatogram of this sample is mainly higher boiling hydrocarbons.

Quant Method: TPHD0321.M
Run #: 411059
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8081A

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Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-10
Sample Collection Date: 04/03/18

APPL Inc.
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Clovis, CA 93611

ARF: 85411
APPL ID: AZ71121
QCG: #8081S-180412A-228557

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 14.9 Percent Moisture.)							
EPA 8081A	4,4'-DDE	Not detected	59.0	1.90	ug/kg	04/12/18	04/16/18
EPA 8081A	4,4'-DDT	Not detected	59.0	0.47	ug/kg	04/12/18	04/16/18
EPA 8081A	4,4'-TDE/DDD	Not detected	59.0	2.10	ug/kg	04/12/18	04/16/18
EPA 8081A	A-BHC	Not detected	59.0	1.20	ug/kg	04/12/18	04/16/18
EPA 8081A	A-CHLORDANE	Not detected	59.0	2.50	ug/kg	04/12/18	04/16/18
EPA 8081A	ALDRIN	Not detected	59.0	1.60	ug/kg	04/12/18	04/16/18
EPA 8081A	B-BHC	Not detected	59.0	1.20	ug/kg	04/12/18	04/16/18
EPA 8081A	D-BHC	Not detected	59.0	1.30	ug/kg	04/12/18	04/16/18
EPA 8081A	DIELDRIN	Not detected	59.0	1.30	ug/kg	04/12/18	04/16/18
EPA 8081A	ENDOSULFAN I	Not detected	59.0	0.52	ug/kg	04/12/18	04/16/18
EPA 8081A	ENDOSULFAN II	Not detected	59.0	0.52	ug/kg	04/12/18	04/16/18
EPA 8081A	ENDOSULFAN SULFATE	Not detected	59.0	0.52	ug/kg	04/12/18	04/16/18
EPA 8081A	ENDRIN	Not detected	59.0	1.30	ug/kg	04/12/18	04/16/18
EPA 8081A	ENDRIN ALDEHYDE	Not detected	59.0	3.40	ug/kg	04/12/18	04/16/18
EPA 8081A	ENDRIN KETONE	Not detected	59.0	4.10	ug/kg	04/12/18	04/16/18
EPA 8081A	G-BHC (LINDANE)	Not detected	59.0	1.10	ug/kg	04/12/18	04/16/18
EPA 8081A	G-CHLORDANE	Not detected	59.0	2.50	ug/kg	04/12/18	04/16/18
EPA 8081A	HEPTACHLOR	Not detected	59.0	1.30	ug/kg	04/12/18	04/16/18
EPA 8081A	HEPTACHLOR EPOXIDE	Not detected	59.0	1.30	ug/kg	04/12/18	04/16/18
EPA 8081A	METHOXYCHLOR	Not detected	59.0	1.60	ug/kg	04/12/18	04/16/18
EPA 8081A	TOXAPHENE	Not detected	1200	18.0	ug/kg	04/12/18	04/16/18
EPA 8081A	SURROGATE: DECACHLOROBIPHEN	86.2	44-147		%	04/12/18	04/16/18
EPA 8081A	SURROGATE: TCMX (S)	92.3	25-147		%	04/12/18	04/16/18

Quant Method: OCL0413.M
Run #: 0413019
Instrument: Ethel
Sequence: 180413
Dilution Factor: 1
Initials: DPO

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EPA 8081A

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Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-11
Sample Collection Date: 04/03/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85411
APPL ID: AZ71123
QCG: #8081S-180412A-228557

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 33.7 Percent Moisture.)							
EPA 8081A	4,4'-DDE	Not detected	75.0	2.40	ug/kg	04/12/18	04/16/18
EPA 8081A	4,4'-DDT	Not detected	75.0	0.60	ug/kg	04/12/18	04/16/18
EPA 8081A	4,4'-TDE/DDD	Not detected	75.0	2.70	ug/kg	04/12/18	04/16/18
EPA 8081A	A-BHC	Not detected	75.0	1.50	ug/kg	04/12/18	04/16/18
EPA 8081A	A-CHLORDANE	Not detected	75.0	3.20	ug/kg	04/12/18	04/16/18
EPA 8081A	ALDRIN	Not detected	75.0	2.10	ug/kg	04/12/18	04/16/18
EPA 8081A	B-BHC	Not detected	75.0	1.50	ug/kg	04/12/18	04/16/18
EPA 8081A	D-BHC	Not detected	75.0	1.70	ug/kg	04/12/18	04/16/18
EPA 8081A	DIELDRIN	Not detected	75.0	1.70	ug/kg	04/12/18	04/16/18
EPA 8081A	ENDOSULFAN I	Not detected	75.0	0.66	ug/kg	04/12/18	04/16/18
EPA 8081A	ENDOSULFAN II	Not detected	75.0	0.66	ug/kg	04/12/18	04/16/18
EPA 8081A	ENDOSULFAN SULFATE	Not detected	75.0	0.66	ug/kg	04/12/18	04/16/18
EPA 8081A	ENDRIN	Not detected	75.0	1.70	ug/kg	04/12/18	04/16/18
EPA 8081A	ENDRIN ALDEHYDE	Not detected	75.0	4.40	ug/kg	04/12/18	04/16/18
EPA 8081A	ENDRIN KETONE	Not detected	75.0	5.30	ug/kg	04/12/18	04/16/18
EPA 8081A	G-BHC (LINDANE)	Not detected	75.0	1.40	ug/kg	04/12/18	04/16/18
EPA 8081A	G-CHLORDANE	Not detected	75.0	3.20	ug/kg	04/12/18	04/16/18
EPA 8081A	HEPTACHLOR	Not detected	75.0	1.70	ug/kg	04/12/18	04/16/18
EPA 8081A	HEPTACHLOR EPOXIDE	Not detected	75.0	1.70	ug/kg	04/12/18	04/16/18
EPA 8081A	METHOXYCHLOR	Not detected	75.0	2.10	ug/kg	04/12/18	04/16/18
EPA 8081A	TOXAPHENE	Not detected	1500	24.0	ug/kg	04/12/18	04/16/18
EPA 8081A	SURROGATE: DECACHLOROBIPHEN	84.1	44-147		%	04/12/18	04/16/18
EPA 8081A	SURROGATE: TCMX (S)	89.6	25-147		%	04/12/18	04/16/18

Quant Method: OCL0413.M
Run #: 0413020
Instrument: Ethel
Sequence: 180413
Dilution Factor: 1
Initials: DPO

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EPA 8081A

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Honolulu, HI 96813

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908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-12
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71124
QCG: #8081S-180412A-228557

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 28.7 Percent Moisture.)							
EPA 8081A	4,4'-DDE	19 J	70.0	2.20	ug/kg	04/12/18	04/16/18
EPA 8081A	4,4'-DDT	17 J	70.0	0.56	ug/kg	04/12/18	04/16/18
EPA 8081A	4,4'-TDE/DDD	Not detected	70.0	2.50	ug/kg	04/12/18	04/16/18
EPA 8081A	A-BHC	Not detected	70.0	1.40	ug/kg	04/12/18	04/16/18
EPA 8081A	A-CHLORDANE	Not detected	70.0	2.90	ug/kg	04/12/18	04/16/18
EPA 8081A	ALDRIN	Not detected	70.0	2.00	ug/kg	04/12/18	04/16/18
EPA 8081A	B-BHC	Not detected	70.0	1.40	ug/kg	04/12/18	04/16/18
EPA 8081A	D-BHC	Not detected	70.0	1.50	ug/kg	04/12/18	04/16/18
EPA 8081A	DIELDRIN	Not detected	70.0	1.50	ug/kg	04/12/18	04/16/18
EPA 8081A	ENDOSULFAN I	Not detected	70.0	0.62	ug/kg	04/12/18	04/16/18
EPA 8081A	ENDOSULFAN II	Not detected	70.0	0.62	ug/kg	04/12/18	04/16/18
EPA 8081A	ENDOSULFAN SULFATE	Not detected	70.0	0.62	ug/kg	04/12/18	04/16/18
EPA 8081A	ENDRIN	Not detected	70.0	1.50	ug/kg	04/12/18	04/16/18
EPA 8081A	ENDRIN ALDEHYDE	Not detected	70.0	4.10	ug/kg	04/12/18	04/16/18
EPA 8081A	ENDRIN KETONE	Not detected	70.0	4.90	ug/kg	04/12/18	04/16/18
EPA 8081A	G-BHC (LINDANE)	Not detected	70.0	1.30	ug/kg	04/12/18	04/16/18
EPA 8081A	G-CHLORDANE	Not detected	70.0	2.90	ug/kg	04/12/18	04/16/18
EPA 8081A	HEPTACHLOR	Not detected	70.0	1.50	ug/kg	04/12/18	04/16/18
EPA 8081A	HEPTACHLOR EPOXIDE	Not detected	70.0	1.50	ug/kg	04/12/18	04/16/18
EPA 8081A	METHOXYCHLOR	Not detected	70.0	2.00	ug/kg	04/12/18	04/16/18
EPA 8081A	TOXAPHENE	Not detected	1400	22.0	ug/kg	04/12/18	04/16/18
EPA 8081A	SURROGATE: DECACHLOROBIPHEN	80.7	44-147		%	04/12/18	04/16/18
EPA 8081A	SURROGATE: TCMX (S)	87.6	25-147		%	04/12/18	04/16/18

J = Estimated value.

Quant Method: OCL0413.M
Run #: 0413021
Instrument: Ethel
Sequence: 180413
Dilution Factor: 1
Initials: DPO

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

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Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-01
Sample Collection Date: 04/02/18

ARF: 85411
APPL ID: AZ71109
QCG: #8260S-180411AM-228427

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 35.1 Percent Moisture.)							
EPA 8260B-M	1,1,1,2-TETRACHLOROETHANE	Not detected	39.0	10.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,1-TRICHLOROETHANE	Not detected	39.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,2,2-TETRACHLOROETHANE	Not detected	39.0	21.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,2-TRICHLOROETHANE	Not detected	39.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1-DICHLOROETHANE	Not detected	77.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1-DICHLOROETHENE	Not detected	39.0	23.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROBENZENE	Not detected	39.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROETHANE	Not detected	39.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROPROPANE	Not detected	39.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,3-DICHLOROBENZENE	Not detected	39.0	8.50	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,4-DICHLOROBENZENE	Not detected	39.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BENZENE	Not detected	39.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOBENZENE	Not detected	39.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMODICHLOROMETHANE	Not detected	39.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOFORM	Not detected	39.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOMETHANE	Not detected	77.0	18.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CARBON TETRACHLORIDE	Not detected	39.0	7.70	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROBENZENE	Not detected	39.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROETHANE	Not detected	39.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROFORM	Not detected	39.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROMETHANE	Not detected	39.0	24.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CIS-1,2-DICHLOROETHENE	Not detected	39.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CIS-1,3-DICHLOROPROPENE	Not detected	39.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DIBROMOCHLOROMETHANE	Not detected	39.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DIBROMOMETHANE	Not detected	39.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DICHLORODIFLUOROMETHANE	Not detected	77.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	ETHYL BENZENE	Not detected	39.0	18.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	FREON-113	Not detected	39.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	METHYLENE CHLORIDE	Not detected	390.0	27.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	MTBE	Not detected	39.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TETRACHLOROETHENE	Not detected	39.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TOLUENE	Not detected	39.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRANS-1,2-DICHLOROETHENE	Not detected	39.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRANS-1,3-DICHLOROPROPENE	Not detected	39.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRICHLOROETHENE	Not detected	39.0	12.00	ug/Kg	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M20
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:31 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline

Project: Mayor Wright

ARF: 85411

Sample ID: SB-01

APPL ID: AZ71109

Sample Collection Date: 04/02/18

QCG: #8260S-180411AM-228427

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B-M	TRICHLOROFLUOROMETHANE	Not detected	39.0	18.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	VINYL CHLORIDE	Not detected	39.0	18.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	XYLENES	Not detected	39.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 1,2-DICHLOROETHAN	102	70-125		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	99.5	72-133		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: DIBROMOFLUOROME	102	78-125		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: TOLUENE-D8 (S)	98.6	73-124		%	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M20
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:31 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline

Project: Mayor Wright

ARF: 85411

Sample ID: SB-02

APPL ID: AZ71110

Sample Collection Date: 04/02/18

QCG: #8260S-180411AM-228427

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 24.8 Percent Moisture.)							
EPA 8260B-M	1,1,1,2-TETRACHLOROETHANE	Not detected	33.0	8.60	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,1-TRICHLOROETHANE	Not detected	33.0	9.30	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,2,2-TETRACHLOROETHANE	Not detected	33.0	18.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,2-TRICHLOROETHANE	Not detected	33.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1-DICHLOROETHANE	Not detected	66.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1-DICHLOROETHENE	Not detected	33.0	20.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROBENZENE	Not detected	33.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROETHANE	Not detected	33.0	9.30	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROPROPANE	Not detected	33.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,3-DICHLOROBENZENE	Not detected	33.0	7.30	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,4-DICHLOROBENZENE	Not detected	33.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BENZENE	Not detected	33.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOBENZENE	Not detected	33.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMODICHLOROMETHANE	Not detected	33.0	9.30	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOFORM	Not detected	33.0	9.30	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOMETHANE	Not detected	66.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CARBON TETRACHLORIDE	Not detected	33.0	6.60	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROBENZENE	Not detected	33.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROETHANE	Not detected	33.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROFORM	Not detected	33.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROMETHANE	Not detected	33.0	21.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CIS-1,2-DICHLOROETHENE	Not detected	33.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CIS-1,3-DICHLOROPROPENE	Not detected	33.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DIBROMOCHLOROMETHANE	Not detected	33.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DIBROMOMETHANE	Not detected	33.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DICHLORODIFLUOROMETHANE	Not detected	66.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	ETHYL BENZENE	Not detected	33.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	FREON-113	Not detected	33.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	METHYLENE CHLORIDE	Not detected	330.0	23.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	MTBE	Not detected	33.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TETRACHLOROETHENE	Not detected	33.0	10.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TOLUENE	Not detected	33.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRANS-1,2-DICHLOROETHENE	Not detected	33.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRANS-1,3-DICHLOROPROPENE	Not detected	33.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRICHLOROETHENE	Not detected	33.0	11.00	ug/Kg	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M21
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:31 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-02
Sample Collection Date: 04/02/18

ARF: 85411
APPL ID: AZ71110
QCG: #8260S-180411AM-228427

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B-M	TRICHLOROFLUOROMETHANE	Not detected	33.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	VINYL CHLORIDE	Not detected	33.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	XYLENES	Not detected	33.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 1,2-DICHLOROETHAN	94.2	70-125		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	98.1	72-133		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: DIBROMOFLUOROME	96.3	78-125		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: TOLUENE-D8 (S)	99.0	73-124		%	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M21
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:31 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-03
Sample Collection Date: 04/02/18

ARF: 85411
APPL ID: AZ71111
QCG: #8260S-180411AM-228427

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 33.2 Percent Moisture.)							
EPA 8260B-M	1,1,1,2-TETRACHLOROETHANE	Not detected	37.0	9.70	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,1-TRICHLOROETHANE	Not detected	37.0	10.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,2,2-TETRACHLOROETHANE	Not detected	37.0	20.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,2-TRICHLOROETHANE	Not detected	37.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1-DICHLOROETHANE	Not detected	75.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1-DICHLOROETHENE	Not detected	37.0	22.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROBENZENE	Not detected	37.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROETHANE	Not detected	37.0	10.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROPROPANE	Not detected	37.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,3-DICHLOROBENZENE	Not detected	37.0	8.20	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,4-DICHLOROBENZENE	Not detected	37.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BENZENE	Not detected	37.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOBENZENE	Not detected	37.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMODICHLOROMETHANE	Not detected	37.0	10.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOFORM	Not detected	37.0	10.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOMETHANE	Not detected	75.0	18.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CARBON TETRACHLORIDE	Not detected	37.0	7.50	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROBENZENE	Not detected	37.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROETHANE	Not detected	37.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROFORM	Not detected	37.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROMETHANE	Not detected	37.0	23.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CIS-1,2-DICHLOROETHENE	Not detected	37.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CIS-1,3-DICHLOROPROPENE	Not detected	37.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DIBROMOCHLOROMETHANE	Not detected	37.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DIBROMOMETHANE	Not detected	37.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DICHLORODIFLUOROMETHANE	Not detected	75.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	ETHYL BENZENE	Not detected	37.0	17.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	FREON-113	Not detected	37.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	METHYLENE CHLORIDE	Not detected	370.0	26.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	MTBE	Not detected	37.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TETRACHLOROETHENE	Not detected	37.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TOLUENE	Not detected	37.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRANS-1,2-DICHLOROETHENE	Not detected	37.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRANS-1,3-DICHLOROPROPENE	Not detected	37.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRICHLOROETHENE	Not detected	37.0	12.00	ug/Kg	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M22
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:31 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-03
Sample Collection Date: 04/02/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85411
APPL ID: AZ71111
QCG: #8260S-180411AM-228427

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B-M	TRICHLOROFLUOROMETHANE	Not detected	37.0	18.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	VINYL CHLORIDE	Not detected	37.0	17.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	XYLENES	Not detected	37.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 1,2-DICHLOROETHAN	101	70-125		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	97.8	72-133		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: DIBROMOFLUOROME	99.1	78-125		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: TOLUENE-D8 (S)	98.0	73-124		%	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M22
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:31 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-13
Sample Collection Date: 04/02/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85411
APPL ID: AZ71112
QCG: #8260S-180411AM-228427

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 35.3 Percent Moisture.)							
EPA 8260B-M	1,1,1,2-TETRACHLOROETHANE	Not detected	39.0	10.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,1-TRICHLOROETHANE	Not detected	39.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,2,2-TETRACHLOROETHANE	Not detected	39.0	21.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,2-TRICHLOROETHANE	Not detected	39.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1-DICHLOROETHANE	Not detected	77.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1-DICHLOROETHENE	Not detected	39.0	23.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROBENZENE	Not detected	39.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROETHANE	Not detected	39.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROPROPANE	Not detected	39.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,3-DICHLOROBENZENE	Not detected	39.0	8.50	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,4-DICHLOROBENZENE	Not detected	39.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BENZENE	Not detected	39.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOBENZENE	Not detected	39.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMODICHLOROMETHANE	Not detected	39.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOFORM	Not detected	39.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOMETHANE	Not detected	77.0	19.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CARBON TETRACHLORIDE	Not detected	39.0	7.70	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROBENZENE	Not detected	39.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROETHANE	Not detected	39.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROFORM	Not detected	39.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROMETHANE	Not detected	39.0	24.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CIS-1,2-DICHLOROETHENE	Not detected	39.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CIS-1,3-DICHLOROPROPENE	Not detected	39.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DIBROMOCHLOROMETHANE	Not detected	39.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DIBROMOMETHANE	Not detected	39.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DICHLORODIFLUOROMETHANE	Not detected	77.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	ETHYL BENZENE	Not detected	39.0	18.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	FREON-113	Not detected	39.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	METHYLENE CHLORIDE	Not detected	390.0	27.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	MTBE	Not detected	39.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TETRACHLOROETHENE	Not detected	39.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TOLUENE	Not detected	39.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRANS-1,2-DICHLOROETHENE	Not detected	39.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRANS-1,3-DICHLOROPROPENE	Not detected	39.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRICHLOROETHENE	Not detected	39.0	12.00	ug/Kg	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M23
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:31 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-13
Sample Collection Date: 04/02/18

ARF: 85411
APPL ID: AZ71112
QCG: #8260S-180411AM-228427

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B-M	TRICHLOROFLUOROMETHANE	Not detected	39.0	19.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	VINYL CHLORIDE	Not detected	39.0	18.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	XYLENES	Not detected	39.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 1,2-DICHLOROETHAN	99.0	70-125		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	95.5	72-133		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: DIBROMOFLUOROME	98.3	78-125		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: TOLUENE-D8 (S)	101	73-124		%	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M23
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:32 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-14
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71113
QCG: #8260S-180411AM-228427

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 30.3 Percent Moisture.)							
EPA 8260B-M	1,1,1,2-TETRACHLOROETHANE	Not detected	36.0	9.30	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,1-TRICHLOROETHANE	Not detected	36.0	10.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,2,2-TETRACHLOROETHANE	Not detected	36.0	19.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,2-TRICHLOROETHANE	Not detected	36.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1-DICHLOROETHANE	Not detected	72.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1-DICHLOROETHENE	Not detected	36.0	22.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROBENZENE	Not detected	36.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROETHANE	Not detected	36.0	10.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROPROPANE	Not detected	36.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,3-DICHLOROBENZENE	Not detected	36.0	7.90	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,4-DICHLOROBENZENE	Not detected	36.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BENZENE	Not detected	36.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOBENZENE	Not detected	36.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMODICHLOROMETHANE	Not detected	36.0	10.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOFORM	Not detected	36.0	10.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOMETHANE	Not detected	72.0	17.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CARBON TETRACHLORIDE	Not detected	36.0	7.20	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROBENZENE	Not detected	36.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROETHANE	Not detected	36.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROFORM	Not detected	36.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROMETHANE	Not detected	36.0	22.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CIS-1,2-DICHLOROETHENE	Not detected	36.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CIS-1,3-DICHLOROPROPENE	Not detected	36.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DIBROMOCHLOROMETHANE	Not detected	36.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DIBROMOMETHANE	Not detected	36.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DICHLORODIFLUOROMETHANE	Not detected	72.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	ETHYL BENZENE	Not detected	36.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	FREON-113	Not detected	36.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	METHYLENE CHLORIDE	Not detected	360.0	25.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	MTBE	Not detected	36.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TETRACHLOROETHENE	Not detected	36.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TOLUENE	Not detected	36.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRANS-1,2-DICHLOROETHENE	Not detected	36.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRANS-1,3-DICHLOROPROPENE	Not detected	36.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRICHLOROETHENE	Not detected	36.0	11.00	ug/Kg	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M24
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:32 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-14
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71113
QCG: #8260S-180411AM-228427

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B-M	TRICHLOROFLUOROMETHANE	Not detected	36.0	17.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	VINYL CHLORIDE	Not detected	36.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	XYLENES	Not detected	36.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 1,2-DICHLOROETHAN	98.9	70-125		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	96.0	72-133		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: DIBROMOFLUOROME	99.8	78-125		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: TOLUENE-D8 (S)	98.3	73-124		%	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M24
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:32 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-24
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71114
QCG: #8260S-180411AM-228427

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 32.6 Percent Moisture.)							
EPA 8260B-M	1,1,1,2-TETRACHLOROETHANE	Not detected	0.7	0.19	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,1-TRICHLOROETHANE	Not detected	0.7	0.21	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,2,2-TETRACHLOROETHANE	Not detected	0.7	0.40	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,2-TRICHLOROETHANE	Not detected	0.7	0.30	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1-DICHLOROETHANE	Not detected	1.5	0.28	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1-DICHLOROETHENE	Not detected	0.7	0.45	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROBENZENE	Not detected	0.7	0.25	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROETHANE	Not detected	0.7	0.21	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROPROPANE	Not detected	0.7	0.25	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,3-DICHLOROBENZENE	Not detected	0.7	0.16	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,4-DICHLOROBENZENE	Not detected	0.7	0.28	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BENZENE	Not detected	0.7	0.24	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOBENZENE	Not detected	0.7	0.24	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMODICHLOROMETHANE	Not detected	0.7	0.21	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOFORM	Not detected	0.7	0.21	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOMETHANE	Not detected	1.5	0.36	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CARBON TETRACHLORIDE	Not detected	0.7	0.15	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROBENZENE	Not detected	0.7	0.31	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROETHANE	Not detected	0.7	0.31	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROFORM	Not detected	0.7	0.24	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROMETHANE	Not detected	0.7	0.46	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CIS-1,2-DICHLOROETHENE	Not detected	0.7	0.28	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CIS-1,3-DICHLOROPROPENE	Not detected	0.7	0.27	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DIBROMOCHLOROMETHANE	Not detected	0.7	0.28	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DIBROMOMETHANE	Not detected	0.7	0.30	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DICHLORODIFLUOROMETHANE	Not detected	1.5	0.28	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	ETHYL BENZENE	Not detected	0.7	0.34	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	FREON-113	Not detected	0.7	0.31	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	METHYLENE CHLORIDE	Not detected	7.4	0.52	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	MTBE	Not detected	0.7	0.28	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TETRACHLOROETHENE	Not detected	0.7	0.22	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TOLUENE	Not detected	0.7	0.25	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRANS-1,2-DICHLOROETHENE	Not detected	0.7	0.28	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRANS-1,3-DICHLOROPROPENE	Not detected	0.7	0.27	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRICHLOROETHENE	Not detected	0.7	0.24	ug/Kg	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M25
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/19/18 3:01:32 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Project: Mayor Wright

ARF: 85411

Sample ID: SB-24

APPL ID: AZ71114

Sample Collection Date: 04/03/18

QCG: #8260S-180411AM-228427

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B-M	TRICHLOROFLUOROMETHANE	Not detected	0.7	0.36	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	VINYL CHLORIDE	Not detected	0.7	0.34	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	XYLENES	Not detected	0.7	0.28	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 1,2-DICHLOROETHAN	97.7	70-125		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	98.1	72-133		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: DIBROMOFLUOROME	100	78-125		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: TOLUENE-D8 (S)	98.0	73-124		%	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M25
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/19/18 3:01:32 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Project: Mayor Wright

ARF: 85411

Sample ID: SB-04

APPL ID: AZ71115

Sample Collection Date: 04/03/18

QCG: #8260S-180412AM-228468

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 19.6 Percent Moisture.)							
EPA 8260B-M	1,1,1,2-TETRACHLOROETHANE	Not detected	31.0	8.10	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,1-TRICHLOROETHANE	Not detected	31.0	8.70	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,2,2-TETRACHLOROETHANE	Not detected	31.0	17.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,2-TRICHLOROETHANE	Not detected	31.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1-DICHLOROETHANE	Not detected	62.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1-DICHLOROETHENE	Not detected	31.0	19.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROBENZENE	Not detected	31.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROETHANE	Not detected	31.0	8.70	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROPROPANE	Not detected	31.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,3-DICHLOROBENZENE	Not detected	31.0	6.80	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,4-DICHLOROBENZENE	Not detected	31.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BENZENE	Not detected	31.0	10.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOBENZENE	Not detected	31.0	10.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMODICHLOROMETHANE	Not detected	31.0	8.70	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOFORM	Not detected	31.0	8.70	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOMETHANE	Not detected	62.0	15.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CARBON TETRACHLORIDE	Not detected	31.0	6.20	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROBENZENE	Not detected	31.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROETHANE	Not detected	31.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROFORM	Not detected	31.0	10.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROMETHANE	Not detected	31.0	19.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CIS-1,2-DICHLOROETHENE	Not detected	31.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CIS-1,3-DICHLOROPROPENE	Not detected	31.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DIBROMOCHLOROMETHANE	Not detected	31.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DIBROMOMETHANE	Not detected	31.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DICHLORODIFLUOROMETHANE	Not detected	62.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	ETHYL BENZENE	Not detected	31.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	FREON-113	Not detected	31.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	METHYLENE CHLORIDE	Not detected	310.0	22.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	MTBE	Not detected	31.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TETRACHLOROETHENE	Not detected	31.0	9.30	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TOLUENE	Not detected	31.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRANS-1,2-DICHLOROETHENE	Not detected	31.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRANS-1,3-DICHLOROPROPENE	Not detected	31.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRICHLOROETHENE	Not detected	31.0	10.00	ug/Kg	04/12/18	04/12/18

Quant Method: MGAS0111.M
Run #: 0412M20
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:32 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Project: Mayor Wright
ARF: 85411
Sample ID: SB-04
APPL ID: AZ71115
Sample Collection Date: 04/03/18
QCG: #8260S-180412AM-228468

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B-M	TRICHLOROFLUOROMETHANE	Not detected	31.0	15.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	VINYL CHLORIDE	Not detected	31.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	XYLENES	Not detected	31.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 1,2-DICHLOROETHAN	97.2	70-125		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	101	72-133		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: DIBROMOFLUOROME	98.5	78-125		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: TOLUENE-D8 (S)	97.0	73-124		%	04/12/18	04/12/18

Quant Method: MGAS0111.M
Run #: 0412M20
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:32 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Project: Mayor Wright
ARF: 85411
Sample ID: SB-05
APPL ID: AZ71116
Sample Collection Date: 04/03/18
QCG: #8260S-180412AM-228468

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 26.5 Percent Moisture.)							
EPA 8260B-M	1,1,1,2-TETRACHLOROETHANE	Not detected	34.0	8.80	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,1-TRICHLOROETHANE	Not detected	34.0	9.50	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,2,2-TETRACHLOROETHANE	Not detected	34.0	18.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,2-TRICHLOROETHANE	Not detected	34.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1-DICHLOROETHANE	Not detected	34.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1-DICHLOROETHENE	Not detected	34.0	20.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROBENZENE	Not detected	34.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROETHANE	Not detected	34.0	9.50	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROPROPANE	Not detected	34.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,3-DICHLOROBENZENE	Not detected	34.0	7.50	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,4-DICHLOROBENZENE	Not detected	34.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BENZENE	Not detected	34.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOBENZENE	Not detected	34.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMODICHLOROMETHANE	Not detected	34.0	9.50	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOFORM	Not detected	34.0	9.50	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOMETHANE	Not detected	68.0	16.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CARBON TETRACHLORIDE	Not detected	34.0	6.80	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROBENZENE	Not detected	34.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROETHANE	Not detected	34.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROFORM	Not detected	34.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROMETHANE	Not detected	34.0	21.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CIS-1,2-DICHLOROETHENE	Not detected	34.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CIS-1,3-DICHLOROPROPENE	Not detected	34.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DIBROMOCHLOROMETHANE	Not detected	34.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DIBROMOMETHANE	Not detected	34.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DICHLORODIFLUOROMETHANE	Not detected	68.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	ETHYL BENZENE	Not detected	34.0	16.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	FREON-113	Not detected	34.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	METHYLENE CHLORIDE	Not detected	340.0	24.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	MTBE	Not detected	34.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TETRACHLOROETHENE	Not detected	34.0	10.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TOLUENE	Not detected	34.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRANS-1,2-DICHLOROETHENE	Not detected	34.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRANS-1,3-DICHLOROPROPENE	Not detected	34.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRICHLOROETHENE	Not detected	34.0	11.00	ug/Kg	04/12/18	04/12/18

Quant Method: MALLW.M
Run #: 0412M21
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:32 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-05
Sample Collection Date: 04/03/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85411
APPL ID: AZ71116
QCG: #8260S-180412AM-228468

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B-M	TRICHLOROFLUOROMETHANE	Not detected	34.0	16.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	VINYL CHLORIDE	Not detected	34.0	16.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	XYLENES	Not detected	34.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 1,2-DICHLOROETHAN	99.5	70-125		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	101	72-133		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: DIBROMOFLUOROME	98.9	78-125		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: TOLUENE-D8 (S)	101	73-124		%	04/12/18	04/12/18

Quant Method: MALLW.M
Run #: 0412M21
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:32 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-06
Sample Collection Date: 04/03/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85411
APPL ID: AZ71117
QCG: #8260S-180412AM-228468

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 14.9 Percent Moisture.)							
EPA 8260B-M	1,1,1,2-TETRACHLOROETHANE	Not detected	29.0	7.60	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,1-TRICHLOROETHANE	Not detected	29.0	8.20	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,2,2-TETRACHLOROETHANE	Not detected	29.0	16.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,2-TRICHLOROETHANE	Not detected	29.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1-DICHLOROETHANE	Not detected	59.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1-DICHLOROETHENE	Not detected	29.0	18.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROBENZENE	Not detected	29.0	10.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROETHANE	Not detected	29.0	8.20	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROPROPANE	Not detected	29.0	10.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,3-DICHLOROBENZENE	Not detected	29.0	6.50	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,4-DICHLOROBENZENE	Not detected	29.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BENZENE	Not detected	29.0	9.40	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOBENZENE	Not detected	29.0	9.40	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMODICHLOROMETHANE	Not detected	29.0	8.20	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOFORM	Not detected	29.0	8.20	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOMETHANE	Not detected	59.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CARBON TETRACHLORIDE	Not detected	29.0	5.90	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROBENZENE	Not detected	29.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROETHANE	Not detected	29.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROFORM	Not detected	29.0	9.40	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROMETHANE	Not detected	29.0	18.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CIS-1,2-DICHLOROETHENE	Not detected	29.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CIS-1,3-DICHLOROPROPENE	Not detected	29.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DIBROMOCHLOROMETHANE	Not detected	29.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DIBROMOMETHANE	Not detected	29.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DICHLORODIFLUOROMETHANE	Not detected	59.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	ETHYL BENZENE	Not detected	29.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	FREON-113	Not detected	29.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	METHYLENE CHLORIDE	Not detected	290.0	21.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	MTBE	Not detected	29.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TETRACHLOROETHENE	Not detected	29.0	8.80	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TOLUENE	Not detected	29.0	10.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRANS-1,2-DICHLOROETHENE	Not detected	29.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRANS-1,3-DICHLOROPROPENE	Not detected	29.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRICHLOROETHENE	Not detected	29.0	9.40	ug/Kg	04/12/18	04/12/18

Quant Method: MALLW.M
Run #: 0412M22
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:32 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-06
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71117
QCG: #8260S-180412AM-228468

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B-M	TRICHLOROFLUOROMETHANE	Not detected	29.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	VINYL CHLORIDE	Not detected	29.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	XYLENES	Not detected	29.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 1,2-DICHLOROETHAN	98.3	70-125		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	98.0	72-133		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: DIBROMOFLUOROME	96.1	78-125		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: TOLUENE-D8 (S)	98.6	73-124		%	04/12/18	04/12/18

Quant Method: MALLW.M
Run #: 0412M22
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:33 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-08
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71118
QCG: #8260S-180412AM-228468

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 16.4 Percent Moisture.)							
EPA 8260B-M	1,1,1,2-TETRACHLOROETHANE	Not detected	30.0	7.80	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,1-TRICHLOROETHANE	Not detected	30.0	8.40	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,2,2-TETRACHLOROETHANE	Not detected	30.0	16.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,2-TRICHLOROETHANE	Not detected	30.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1-DICHLOROETHANE	Not detected	60.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1-DICHLOROETHENE	Not detected	30.0	18.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROBENZENE	Not detected	30.0	10.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROETHANE	Not detected	30.0	8.40	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROPROPANE	Not detected	30.0	10.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,3-DICHLOROBENZENE	Not detected	30.0	6.60	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,4-DICHLOROBENZENE	Not detected	30.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BENZENE	Not detected	30.0	9.60	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOBENZENE	Not detected	30.0	9.60	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMODICHLOROMETHANE	Not detected	30.0	8.40	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOFORM	Not detected	30.0	8.40	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOMETHANE	Not detected	60.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CARBON TETRACHLORIDE	Not detected	30.0	6.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROBENZENE	Not detected	30.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROETHANE	Not detected	30.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROFORM	Not detected	30.0	9.60	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROMETHANE	Not detected	30.0	19.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CIS-1,2-DICHLOROETHENE	Not detected	30.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CIS-1,3-DICHLOROPROPENE	Not detected	30.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DIBROMOCHLOROMETHANE	Not detected	30.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DIBROMOMETHANE	Not detected	30.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DICHLORODIFLUOROMETHANE	Not detected	60.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	ETHYL BENZENE	Not detected	30.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	FREON-113	Not detected	30.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	METHYLENE CHLORIDE	Not detected	300.0	21.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	MTBE	Not detected	30.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TETRACHLOROETHENE	Not detected	30.0	9.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TOLUENE	Not detected	30.0	10.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRANS-1,2-DICHLOROETHENE	Not detected	30.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRANS-1,3-DICHLOROPROPENE	Not detected	30.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRICHLOROETHENE	Not detected	30.0	9.60	ug/Kg	04/12/18	04/12/18

Quant Method: MGAS0111.M
Run #: 0412M23
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:33 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-08
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71118
QCG: #8260S-180412AM-228468

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B-M	TRICHLOROFLUOROMETHANE	Not detected	30.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	VINYL CHLORIDE	Not detected	30.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	XYLENES	Not detected	30.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 1,2-DICHLOROETHAN	97.1	70-125		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	99.4	72-133		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: DIBROMOFLUOROME	95.7	78-125		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: TOLUENE-D8 (S)	98.5	73-124		%	04/12/18	04/12/18

Quant Method: MGAS0111.M
Run #: 0412M23
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:33 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-07
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71119
QCG: #8260S-180412AM-228468

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 29.3 Percent Moisture.)							
EPA 8260B-M	1,1,1,2-TETRACHLOROETHANE	Not detected	35.0	9.20	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,1-TRICHLOROETHANE	Not detected	35.0	9.90	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,2,2-TETRACHLOROETHANE	Not detected	35.0	19.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,2-TRICHLOROETHANE	Not detected	35.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1-DICHLOROETHANE	Not detected	35.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1-DICHLOROETHENE	Not detected	35.0	21.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROBENZENE	Not detected	35.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROETHANE	Not detected	35.0	9.90	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROPROPANE	Not detected	35.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,3-DICHLOROBENZENE	Not detected	35.0	7.80	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,4-DICHLOROBENZENE	Not detected	35.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BENZENE	Not detected	35.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOBENZENE	Not detected	35.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMODICHLOROMETHANE	Not detected	35.0	9.90	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOFORM	Not detected	35.0	9.90	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOMETHANE	Not detected	71.0	17.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CARBON TETRACHLORIDE	Not detected	35.0	7.10	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROBENZENE	Not detected	35.0	15.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROETHANE	Not detected	35.0	15.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROFORM	Not detected	35.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROMETHANE	Not detected	35.0	22.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CIS-1,2-DICHLOROETHENE	Not detected	35.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CIS-1,3-DICHLOROPROPENE	Not detected	35.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DIBROMOCHLOROMETHANE	Not detected	35.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DIBROMOMETHANE	Not detected	35.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DICHLORODIFLUOROMETHANE	Not detected	71.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	ETHYL BENZENE	Not detected	35.0	16.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	FREON-113	Not detected	35.0	15.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	METHYLENE CHLORIDE	Not detected	350.0	25.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	MTBE	Not detected	35.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TETRACHLOROETHENE	Not detected	35.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TOLUENE	Not detected	35.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRANS-1,2-DICHLOROETHENE	Not detected	35.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRANS-1,3-DICHLOROPROPENE	Not detected	35.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRICHLOROETHENE	Not detected	35.0	11.00	ug/Kg	04/12/18	04/12/18

Quant Method: MGAS0111.M
Run #: 0412M24
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:33 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-07
Sample Collection Date: 04/03/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85411
APPL ID: AZ71119
QCG: #8260S-180412AM-228468

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B-M	TRICHLOROFLUOROMETHANE	Not detected	35.0	17.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	VINYL CHLORIDE	Not detected	35.0	16.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	XYLENES	Not detected	35.0	13.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 1,2-DICHLOROETHAN	92.2	70-125		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	95.7	72-133		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: DIBROMOFLUOROME	93.2	78-125		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: TOLUENE-D8 (S)	96.6	73-124		%	04/12/18	04/12/18

Quant Method: MGAS0111.M
Run #: 0412M24
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:33 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-09
Sample Collection Date: 04/03/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85411
APPL ID: AZ71120
QCG: #8260S-180412AM-228468

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 33.6 Percent Moisture.)							
EPA 8260B-M	1,1,1,2-TETRACHLOROETHANE	Not detected	0.8	0.20	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,1-TRICHLOROETHANE	Not detected	0.8	0.21	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,2,2-TETRACHLOROETHANE	Not detected	0.8	0.41	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,2-TRICHLOROETHANE	Not detected	0.8	0.30	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1-DICHLOROETHANE	Not detected	1.5	0.29	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1-DICHLOROETHENE	Not detected	0.8	0.45	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROBENZENE	Not detected	0.8	0.26	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROETHANE	Not detected	0.8	0.21	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROPROPANE	Not detected	0.8	0.26	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,3-DICHLOROBENZENE	Not detected	0.8	0.17	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,4-DICHLOROBENZENE	Not detected	0.8	0.29	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BENZENE	Not detected	0.8	0.24	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOBENZENE	Not detected	0.8	0.24	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMODICHLOROMETHANE	Not detected	0.8	0.21	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOFORM	Not detected	0.8	0.21	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOMETHANE	Not detected	1.5	0.36	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CARBON TETRACHLORIDE	Not detected	0.8	0.15	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROBENZENE	Not detected	0.8	0.32	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROETHANE	Not detected	0.8	0.32	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROFORM	Not detected	0.8	0.24	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROMETHANE	Not detected	0.8	0.47	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CIS-1,2-DICHLOROETHENE	Not detected	0.8	0.29	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CIS-1,3-DICHLOROPROPENE	Not detected	0.8	0.27	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DIBROMOCHLOROMETHANE	Not detected	0.8	0.29	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DIBROMOMETHANE	Not detected	0.8	0.30	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DICHLORODIFLUOROMETHANE	Not detected	1.5	0.29	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	ETHYL BENZENE	Not detected	0.8	0.35	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	FREON-113	Not detected	0.8	0.32	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	METHYLENE CHLORIDE	Not detected	7.5	0.53	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	MTBE	Not detected	0.8	0.29	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TETRACHLOROETHENE	Not detected	0.8	0.23	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TOLUENE	Not detected	0.8	0.26	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRANS-1,2-DICHLOROETHENE	Not detected	0.8	0.29	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRANS-1,3-DICHLOROPROPENE	Not detected	0.8	0.27	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRICHLOROETHENE	Not detected	0.8	0.24	ug/Kg	04/12/18	04/12/18

Quant Method: MALLW.M
Run #: 0412M25
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/19/18 3:01:33 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Project: Mayor Wright
ARF: 85411
Sample ID: SB-09
APPL ID: AZ71120
Sample Collection Date: 04/03/18
QCG: #8260S-180412AM-228468

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B-M	TRICHLOROFLUOROMETHANE	Not detected	0.8	0.36	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	VINYL CHLORIDE	Not detected	0.8	0.35	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	XYLENES	Not detected	0.8	0.29	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 1,2-DICHLOROETHAN	97.3	70-125		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	99.3	72-133		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: DIBROMOFLUOROME	96.2	78-125		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: TOLUENE-D8 (S)	98.5	73-124		%	04/12/18	04/12/18

Quant Method: MALLW.M
Run #: 0412M25
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/19/18 3:01:33 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Project: Mayor Wright
ARF: 85411
Sample ID: SB-10
APPL ID: AZ71121
Sample Collection Date: 04/03/18
QCG: #8260S-180412AM-228468

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 14.9 Percent Moisture.)							
EPA 8260B-M	1,1,1,2-TETRACHLOROETHANE	Not detected	29.0	7.60	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,1-TRICHLOROETHANE	Not detected	29.0	8.20	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,2,2-TETRACHLOROETHANE	Not detected	29.0	16.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1,2-TRICHLOROETHANE	Not detected	29.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1-DICHLOROETHANE	Not detected	59.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,1-DICHLOROETHENE	Not detected	29.0	18.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROBENZENE	Not detected	29.0	10.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROETHANE	Not detected	29.0	8.20	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,2-DICHLOROPROPANE	Not detected	29.0	10.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,3-DICHLOROBENZENE	Not detected	29.0	6.50	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	1,4-DICHLOROBENZENE	Not detected	29.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BENZENE	Not detected	29.0	9.40	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOBENZENE	Not detected	29.0	9.40	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMODICHLOROMETHANE	Not detected	29.0	8.20	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOFORM	Not detected	29.0	8.20	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	BROMOMETHANE	Not detected	59.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CARBON TETRACHLORIDE	Not detected	29.0	5.90	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROBENZENE	Not detected	29.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROETHANE	Not detected	29.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROFORM	Not detected	29.0	9.40	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CHLOROMETHANE	Not detected	29.0	18.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CIS-1,2-DICHLOROETHENE	Not detected	29.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	CIS-1,3-DICHLOROPROPENE	Not detected	29.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DIBROMOCHLOROMETHANE	Not detected	29.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DIBROMOMETHANE	Not detected	29.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	DICHLORODIFLUOROMETHANE	Not detected	59.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	ETHYL BENZENE	Not detected	29.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	FREON-113	Not detected	29.0	12.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	METHYLENE CHLORIDE	Not detected	290.0	21.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	MTBE	Not detected	29.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TETRACHLOROETHENE	Not detected	29.0	8.80	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TOLUENE	Not detected	29.0	10.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRANS-1,2-DICHLOROETHENE	Not detected	29.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRANS-1,3-DICHLOROPROPENE	Not detected	29.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	TRICHLOROETHENE	Not detected	29.0	9.40	ug/Kg	04/12/18	04/12/18

Quant Method: MGAS0111.M
Run #: 0412M26
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:33 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-10
Sample Collection Date: 04/03/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85411
APPL ID: AZ71121
QCG: #8260S-180412AM-228468

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B-M	TRICHLOROFLUOROMETHANE	Not detected	29.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	VINYL CHLORIDE	Not detected	29.0	14.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	XYLENES	Not detected	29.0	11.00	ug/Kg	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 1,2-DICHLOROETHAN	93.9	70-125		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	98.3	72-133		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: DIBROMOFLUOROME	93.7	78-125		%	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: TOLUENE-D8 (S)	102	73-124		%	04/12/18	04/12/18

Quant Method: MGAS0111.M
Run #: 0412M26
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:33 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-29
Sample Collection Date: 04/03/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85411
APPL ID: AZ71122
QCG: #8260S-180414AL-228541

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 31.3 Percent Moisture.)							
EPA 8260B-M	1,1,1,2-TETRACHLOROETHANE	Not detected	36.0	9.50	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,1,1-TRICHLOROETHANE	Not detected	36.0	10.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,1,2,2-TETRACHLOROETHANE	Not detected	36.0	20.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,1,2-TRICHLOROETHANE	Not detected	36.0	15.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,1-DICHLOROETHANE	Not detected	73.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,1-DICHLOROETHENE	Not detected	36.0	22.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,2-DICHLOROBENZENE	Not detected	36.0	12.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,2-DICHLOROETHANE	Not detected	36.0	10.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,2-DICHLOROPROPANE	Not detected	36.0	12.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,3-DICHLOROBENZENE	Not detected	36.0	8.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,4-DICHLOROBENZENE	Not detected	36.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	BENZENE	Not detected	36.0	12.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	BROMOBENZENE	Not detected	36.0	12.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	BROMODICHLOROMETHANE	Not detected	36.0	10.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	BROMOFORM	Not detected	36.0	10.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	BROMOMETHANE	Not detected	73.0	17.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CARBON TETRACHLORIDE	Not detected	36.0	7.30	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CHLOROBENZENE	Not detected	36.0	15.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CHLOROETHANE	Not detected	36.0	15.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CHLOROFORM	Not detected	36.0	12.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CHLOROMETHANE	Not detected	36.0	23.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CIS-1,2-DICHLOROETHENE	Not detected	36.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CIS-1,3-DICHLOROPROPENE	Not detected	36.0	13.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	DIBROMOCHLOROMETHANE	Not detected	36.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	DIBROMOMETHANE	Not detected	36.0	15.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	DICHLORODIFLUOROMETHANE	Not detected	73.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	ETHYL BENZENE	Not detected	36.0	17.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	FREON-113	Not detected	36.0	15.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	METHYLENE CHLORIDE	Not detected	360.0	25.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	MTBE	Not detected	36.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	TETRACHLOROETHENE	Not detected	36.0	11.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	TOLUENE	Not detected	36.0	12.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	TRANS-1,2-DICHLOROETHENE	Not detected	36.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	TRANS-1,3-DICHLOROPROPENE	Not detected	36.0	13.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	TRICHLOROETHENE	Not detected	36.0	12.00	ug/Kg	04/14/18	04/14/18

Quant Method: LCDOD5W.M
Run #: 0414L26
Instrument: Loki
Sequence: 180413
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:33 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-29
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71122
QCG: #8260S-180414AL-228541

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B-M	TRICHLOROFLUOROMETHANE	Not detected	36.0	17.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	VINYL CHLORIDE	Not detected	36.0	17.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	XYLENES	240	36.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	SURROGATE: 1,2-DICHLOROETHAN	100	70-125		%	04/14/18	04/14/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	90.6	72-133		%	04/14/18	04/14/18
EPA 8260B-M	SURROGATE: DIBROMOFLUOROME	104	78-125		%	04/14/18	04/14/18
EPA 8260B-M	SURROGATE: TOLUENE-D8 (S)	89.5	73-124		%	04/14/18	04/14/18

Quant Method: LCDOD5W.M
Run #: 0414L26
Instrument: Loki
Sequence: 180413
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:33 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-11
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71123
QCG: #8260S-180414AL-228541

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 33.7 Percent Moisture.)							
EPA 8260B-M	1,1,1,2-TETRACHLOROETHANE	Not detected	38.0	9.80	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,1,1-TRICHLOROETHANE	Not detected	38.0	11.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,1,2,2-TETRACHLOROETHANE	Not detected	38.0	20.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,1,2-TRICHLOROETHANE	Not detected	38.0	15.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,1-DICHLOROETHANE	Not detected	75.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,1-DICHLOROETHENE	Not detected	38.0	23.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,2-DICHLOROBENZENE	Not detected	38.0	13.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,2-DICHLOROETHANE	Not detected	38.0	11.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,2-DICHLOROPROPANE	Not detected	38.0	13.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,3-DICHLOROBENZENE	Not detected	38.0	8.30	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,4-DICHLOROBENZENE	Not detected	38.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	BENZENE	Not detected	38.0	12.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	BROMOBENZENE	Not detected	38.0	12.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	BROMODICHLOROMETHANE	Not detected	38.0	11.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	BROMOFORM	Not detected	38.0	11.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	BROMOMETHANE	Not detected	75.0	18.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CARBON TETRACHLORIDE	Not detected	38.0	7.50	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CHLOROBENZENE	Not detected	38.0	16.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CHLOROETHANE	Not detected	38.0	16.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CHLOROFORM	Not detected	38.0	12.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CHLOROMETHANE	Not detected	38.0	23.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CIS-1,2-DICHLOROETHENE	Not detected	38.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CIS-1,3-DICHLOROPROPENE	Not detected	38.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	DIBROMOCHLOROMETHANE	Not detected	38.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	DIBROMOMETHANE	Not detected	38.0	15.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	DICHLORODIFLUOROMETHANE	Not detected	75.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	ETHYL BENZENE	Not detected	38.0	17.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	FREON-113	Not detected	38.0	16.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	METHYLENE CHLORIDE	Not detected	380.0	26.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	MTBE	Not detected	38.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	TETRACHLOROETHENE	Not detected	38.0	11.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	TOLUENE	Not detected	38.0	13.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	TRANS-1,2-DICHLOROETHENE	Not detected	38.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	TRANS-1,3-DICHLOROPROPENE	Not detected	38.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	TRICHLOROETHENE	Not detected	38.0	12.00	ug/Kg	04/14/18	04/14/18

Quant Method: LCDOD5W.M
Run #: 0414L27
Instrument: Loki
Sequence: 180413
Dilution Factor: 50
Initials: SV

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-11
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71123
QCG: #8260S-180414AL-228541

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B-M	TRICHLOROFLUOROMETHANE	Not detected	38.0	18.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	VINYL CHLORIDE	Not detected	38.0	17.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	XYLENES	Not detected	38.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	SURROGATE: 1,2-DICHLOROETHAN	99.3	70-125		%	04/14/18	04/14/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	92.8	72-133		%	04/14/18	04/14/18
EPA 8260B-M	SURROGATE: DIBROMOFLUOROME	104	78-125		%	04/14/18	04/14/18
EPA 8260B-M	SURROGATE: TOLUENE-D8 (S)	93.0	73-124		%	04/14/18	04/14/18

Quant Method: LCDOD5W.M
Run #: 0414L27
Instrument: Loki
Sequence: 180413
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:33 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-12
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71124
QCG: #8260S-180414AL-228541

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 28.7 Percent Moisture.)							
EPA 8260B-M	1,1,1,2-TETRACHLOROETHANE	Not detected	35.0	9.10	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,1,1-TRICHLOROETHANE	Not detected	35.0	9.80	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,1,2,2-TETRACHLOROETHANE	Not detected	35.0	19.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,1,2-TRICHLOROETHANE	Not detected	35.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,1-DICHLOROETHANE	Not detected	70.0	13.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,1-DICHLOROETHENE	Not detected	35.0	21.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,2-DICHLOROBENZENE	Not detected	35.0	12.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,2-DICHLOROETHANE	Not detected	35.0	9.80	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,2-DICHLOROPROPANE	Not detected	35.0	12.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,3-DICHLOROBENZENE	Not detected	35.0	7.70	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	1,4-DICHLOROBENZENE	Not detected	35.0	13.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	BENZENE	Not detected	35.0	11.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	BROMOBENZENE	Not detected	35.0	11.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	BROMODICHLOROMETHANE	Not detected	35.0	9.80	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	BROMOFORM	Not detected	35.0	9.80	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	BROMOMETHANE	Not detected	70.0	17.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CARBON TETRACHLORIDE	Not detected	35.0	7.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CHLOROBENZENE	Not detected	35.0	15.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CHLOROETHANE	Not detected	35.0	15.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CHLOROFORM	Not detected	35.0	11.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CHLOROMETHANE	Not detected	35.0	22.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CIS-1,2-DICHLOROETHENE	Not detected	35.0	13.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	CIS-1,3-DICHLOROPROPENE	Not detected	35.0	13.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	DIBROMOCHLOROMETHANE	Not detected	35.0	13.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	DIBROMOMETHANE	Not detected	35.0	14.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	DICHLORODIFLUOROMETHANE	Not detected	70.0	13.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	ETHYL BENZENE	Not detected	35.0	16.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	FREON-113	Not detected	35.0	15.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	METHYLENE CHLORIDE	Not detected	350.0	25.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	MTBE	Not detected	35.0	13.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	TETRACHLOROETHENE	Not detected	35.0	11.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	TOLUENE	Not detected	35.0	12.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	TRANS-1,2-DICHLOROETHENE	Not detected	35.0	13.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	TRANS-1,3-DICHLOROPROPENE	Not detected	35.0	13.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	TRICHLOROETHENE	Not detected	35.0	11.00	ug/Kg	04/14/18	04/14/18

Quant Method: LCDOD5W.M
Run #: 0414L28
Instrument: Loki
Sequence: 180413
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:33 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline

Project: Mayor Wright

ARF: 85411

Sample ID: SB-12

APPL ID: AZ71124

Sample Collection Date: 04/03/18

QCG: #8260S-180414AL-228541

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B-M	TRICHLOROFLUOROMETHANE	Not detected	35.0	17.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	VINYL CHLORIDE	Not detected	35.0	16.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	XYLENES	Not detected	35.0	13.00	ug/Kg	04/14/18	04/14/18
EPA 8260B-M	SURROGATE: 1,2-DICHLOROETHAN	103	70-125		%	04/14/18	04/14/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	92.6	72-133		%	04/14/18	04/14/18
EPA 8260B-M	SURROGATE: DIBROMOFLUOROME	106	78-125		%	04/14/18	04/14/18
EPA 8260B-M	SURROGATE: TOLUENE-D8 (S)	94.4	73-124		%	04/14/18	04/14/18

Quant Method: LCDOD5W.M
Run #: 0414L28
Instrument: Loki
Sequence: 180413
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:01:33 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH SOIL -GRO

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline

Project: Mayor Wright

ARF: 85411

Sample ID: SB-01

APPL ID: AZ71109

Sample Collection Date: 04/02/18

QCG: #GRO86-180411AM1-22843

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 35.1 Percent Moisture.)							
EPA 8260B-M	GASOLINE	Not detected	1.500	0.4700	mg/Kg	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	99.5	79-119		%	04/11/18	04/11/18

Quant Method: MGAS0111.M
Run #: 0411M20
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:08:40 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH SOIL -GRO

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-02
Sample Collection Date: 04/02/18

ARF: 85411
APPL ID: AZ71110
QCG: #GRO86-180411AM1-22843

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 24.8 Percent Moisture.)							
EPA 8260B-M	GASOLINE	Not detected	1.300	0.4100	mg/Kg	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	98.1	79-119		%	04/11/18	04/11/18

Quant Method: MGAS0111.M
Run #: 0411M21
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:08:40 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH SOIL -GRO

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-03
Sample Collection Date: 04/02/18

ARF: 85411
APPL ID: AZ71111
QCG: #GRO86-180411AM1-22843

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 33.2 Percent Moisture.)							
EPA 8260B-M	GASOLINE	Not detected	1.500	0.4600	mg/Kg	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	97.8	79-119		%	04/11/18	04/11/18

Quant Method: MGAS0111.M
Run #: 0411M22
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:08:40 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH SOIL -GRO

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline

Project: Mayor Wright

ARF: 85411

Sample ID: SB-13

APPL ID: AZ71112

Sample Collection Date: 04/02/18

QCG: #GRO86-180411AM1-22843

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 35.3 Percent Moisture.)							
EPA 8260B-M	GASOLINE	Not detected	1.500	0.4700	mg/Kg	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	95.5	79-119		%	04/11/18	04/11/18

Quant Method: MGAS0111.M
Run #: 0411M23
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:08:40 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH SOIL -GRO

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline

Project: Mayor Wright

ARF: 85411

Sample ID: SB-14

APPL ID: AZ71113

Sample Collection Date: 04/03/18

QCG: #GRO86-180411AM1-22843

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 30.3 Percent Moisture.)							
EPA 8260B-M	GASOLINE	Not detected	1.400	0.4400	mg/Kg	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	96.0	79-119		%	04/11/18	04/11/18

Quant Method: MGAS0111.M
Run #: 0411M24
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:08:40 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH SOIL -GRO

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-24
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71114
QCG: #GRO86-180411AM1-22843

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 32.6 Percent Moisture.)							
EPA 8260B-M	GASOLINE	Not detected	0.030	0.0091	mg/Kg	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	98.1	79-119		%	04/11/18	04/11/18

Quant Method: MGAS0111.M
Run #: 0411M25
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/19/18 3:08:40 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH SOIL -GRO

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-04
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71115
QCG: #GRO86-180412AM-228469

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 19.6 Percent Moisture.)							
EPA 8260B-M	GASOLINE	Not detected	1.200	0.3800	mg/Kg	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	101	79-119		%	04/12/18	04/12/18

Quant Method: MGAS0111.M
Run #: 0412M20
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:08:40 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH SOIL -GRO

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-05
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71116
QCG: #GRO86-180412AM-228469

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 26.5 Percent Moisture.)							
EPA 8260B-M	GASOLINE	Not detected	1.400	0.4100	mg/Kg	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	101	79-119		%	04/12/18	04/12/18

Quant Method: MGAS0111.M
Run #: 0412M21
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:08:40 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH SOIL -GRO

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-06
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71117
QCG: #GRO86-180412AM-228469

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 14.9 Percent Moisture.)							
EPA 8260B-M	GASOLINE	Not detected	1.200	0.3600	mg/Kg	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	98.0	79-119		%	04/12/18	04/12/18

Quant Method: MGAS0111.M
Run #: 0412M22
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:08:40 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH SOIL -GRO

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-08
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71118
QCG: #GRO86-180412AM-228469

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 16.4 Percent Moisture.)							
EPA 8260B-M	GASOLINE	Not detected	1.200	0.3600	mg/Kg	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	99.4	79-119		%	04/12/18	04/12/18

Quant Method: MGAS0111.M
Run #: 0412M23
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:08:40 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH SOIL -GRO

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-07
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71119
QCG: #GRO86-180412AM-228469

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 29.3 Percent Moisture.)							
EPA 8260B-M	GASOLINE	Not detected	1.400	0.4300	mg/Kg	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	95.7	79-119		%	04/12/18	04/12/18

Quant Method: MGAS0111.M
Run #: 0412M24
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:08:40 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH SOIL -GRO

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-09
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71120
QCG: #GRO86-180412AM-228469

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 33.6 Percent Moisture.)							
EPA 8260B-M	GASOLINE	Not detected	0.030	0.0092	mg/Kg	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	99.3	79-119		%	04/12/18	04/12/18

Quant Method: MGAS0111.M
Run #: 0412M25
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/19/18 3:08:40 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH SOIL -GRO

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-10
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71121
QCG: #GRO86-180412AM-228469

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 14.9 Percent Moisture.)							
EPA 8260B-M	GASOLINE	Not detected	1.200	0.3600	mg/Kg	04/12/18	04/12/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	98.3	79-119		%	04/12/18	04/12/18

Quant Method: MGAS0111.M
Run #: 0412M26
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:08:40 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH SOIL -GRO

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-29
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71122
QCG: #GRO86-180414AL-228537

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 31.3 Percent Moisture.)							
EPA 8260B-M	GASOLINE	Not detected	1.500	0.4400	mg/Kg	04/14/18	04/14/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	90.6	79-119		%	04/14/18	04/14/18

Quant Method: LGAS6414.M
Run #: 0414L26
Instrument: Loki
Sequence: 180413
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:08:40 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH SOIL -GRO

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: SB-11
Sample Collection Date: 04/03/18

ARF: 85411
APPL ID: AZ71123
QCG: #GRO86-180414AL-228537

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 33.7 Percent Moisture.)							
EPA 8260B-M	GASOLINE	Not detected	1.500	0.4600	mg/Kg	04/14/18	04/14/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	92.8	79-119		%	04/14/18	04/14/18

Quant Method: LGAS6414.M
Run #: 0414L27
Instrument: Loki
Sequence: 180413
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:08:40 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH SOIL -GRO

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline

Project: Mayor Wright

Sample ID: SB-12

Sample Collection Date: 04/03/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85411

APPL ID: AZ71124

QCG: #GRO86-180414AL-228537

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 28.7 Percent Moisture.)							
EPA 8260B-M	GASOLINE	Not detected	1.400	0.4300	mg/Kg	04/14/18	04/14/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	92.6	79-119		%	04/14/18	04/14/18

Quant Method: LGAS6414.M
Run #: 0414L28
Instrument: Loki
Sequence: 180413
Dilution Factor: 50
Initials: SV

Printed: 04/19/18 3:08:40 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

Metals Results

ARF: 85411

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
APPL ID: AZ71110 -Client Sample ID: SB-02			-Sample Collection Date: 04/02/18		Project: Mayor Wright			
(Solid Concentrations and Limits have been adjusted to reflect 24.8 Percent Moisture.)								
6010B	LEAD (PB)	75.1	0.7	0.12	mg/kg	1	04/09/18	04/11/18

Printed: 04/18/18 1:19:34 PM
PL-F1-SC-MCRes/MCPQL-REG MDLs

Wetlab Results

ARF: 85411

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date
APPL ID: AZ71109 -Client Sample ID: SB-01			-Sample Collection Date: 04/02/18			Project: Mayor Wright	
CLP MOIST	MOISTURE	35.1	2.0		%	04/09/18	04/10/18
APPL ID: AZ71110 -Client Sample ID: SB-02			-Sample Collection Date: 04/02/18			Project: Mayor Wright	
CLP MOIST	MOISTURE	24.8	2.0		%	04/09/18	04/10/18
APPL ID: AZ71111 -Client Sample ID: SB-03			-Sample Collection Date: 04/02/18			Project: Mayor Wright	
CLP MOIST	MOISTURE	33.2	2.0		%	04/09/18	04/10/18
APPL ID: AZ71112 -Client Sample ID: SB-13			-Sample Collection Date: 04/02/18			Project: Mayor Wright	
CLP MOIST	MOISTURE	35.3	2.0		%	04/09/18	04/10/18
APPL ID: AZ71113 -Client Sample ID: SB-14			-Sample Collection Date: 04/03/18			Project: Mayor Wright	
CLP MOIST	MOISTURE	30.3	2.0		%	04/09/18	04/10/18
APPL ID: AZ71114 -Client Sample ID: SB-24			-Sample Collection Date: 04/03/18			Project: Mayor Wright	
CLP MOIST	MOISTURE	32.6	2.0		%	04/09/18	04/10/18
APPL ID: AZ71115 -Client Sample ID: SB-04			-Sample Collection Date: 04/03/18			Project: Mayor Wright	
CLP MOIST	MOISTURE	19.6	2.0		%	04/09/18	04/10/18
APPL ID: AZ71116 -Client Sample ID: SB-05			-Sample Collection Date: 04/03/18			Project: Mayor Wright	
CLP MOIST	MOISTURE	26.5	2.0		%	04/09/18	04/10/18
APPL ID: AZ71117 -Client Sample ID: SB-06			-Sample Collection Date: 04/03/18			Project: Mayor Wright	
CLP MOIST	MOISTURE	14.9	2.0		%	04/09/18	04/10/18
APPL ID: AZ71118 -Client Sample ID: SB-08			-Sample Collection Date: 04/03/18			Project: Mayor Wright	
CLP MOIST	MOISTURE	16.4	2.0		%	04/09/18	04/10/18

Printed: 04/17/18 5:34:52 PM

Wetlab Results

ARF: 85411

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date
APPL ID: AZ71119 -Client Sample ID: SB-07			-Sample Collection Date: 04/03/18			Project: Mayor Wright	
CLP MOIST	MOISTURE	29.3	2.0		%	04/09/18	04/10/18
APPL ID: AZ71120 -Client Sample ID: SB-09			-Sample Collection Date: 04/03/18			Project: Mayor Wright	
CLP MOIST	MOISTURE	33.6	2.0		%	04/09/18	04/10/18
APPL ID: AZ71121 -Client Sample ID: SB-10			-Sample Collection Date: 04/03/18			Project: Mayor Wright	
CLP MOIST	MOISTURE	14.9	2.0		%	04/09/18	04/10/18
APPL ID: AZ71122 -Client Sample ID: SB-29			-Sample Collection Date: 04/03/18			Project: Mayor Wright	
CLP MOIST	MOISTURE	31.3	2.0		%	04/09/18	04/10/18
APPL ID: AZ71123 -Client Sample ID: SB-11			-Sample Collection Date: 04/03/18			Project: Mayor Wright	
CLP MOIST	MOISTURE	33.7	2.0		%	04/09/18	04/10/18
APPL ID: AZ71124 -Client Sample ID: SB-12			-Sample Collection Date: 04/03/18			Project: Mayor Wright	
CLP MOIST	MOISTURE	28.7	2.0		%	04/09/18	04/10/18

Printed: 04/17/18 5:34:52 PM

Method Blank
EPA 8015 SOIL

Blank Name/QCG: **180409S-71109 - 228425**
Batch ID: #TPHDR-180409A

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	DIESEL FUEL	Not detected	1.00	0.600	mg/kg	04/09/18	04/12/18
BLANK	MINERAL SPIRITS	Not detected	10.0	3.30	mg/kg	04/09/18	04/12/18
BLANK	RESIDUAL RANGE ORGANICS	Not detected	10.0	3.51	mg/kg	04/09/18	04/12/18
BLANK	SURROGATE: OCTACOSANE (S)	112	47-140		%	04/09/18	04/12/18
BLANK	SURROGATE: ORTHO-TERPHENYL (	98.7	58-128		%	04/09/18	04/12/18

Quant Method:TPHD0321.M
Run #:411031
Instrument:Apollo
Sequence:180411
Initials:DPO

GC SC-Blank-REG MDLs
Printed: 04/12/18 10:18:32 AM

Laboratory Control Spike Recovery
EPA 8015 SOIL

APPL ID: **180409S-71109 LCS - 228425**
Batch ID: #TPHDR-180409A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits
DIESEL FUEL	40.0	37.7	94.3	64-122
MINERAL SPIRITS	40.0	33.2	83.0	60-120
RESIDUAL RANGE ORGANICS	40.0	42.2	106	60-120
SURROGATE: OCTACOSANE (S)	3.00	2.24	74.7	47-140
SURROGATE: ORTHO-TERPHENYL (S)	3.00	2.86	95.3	58-128

Comments:

Primary	SPK
Quant Method :	TPHD0321.M
Extraction Date :	04/09/18
Analysis Date :	04/12/18
Instrument :	Apollo
Run :	411032
Initials :	DPO

Printed: 04/12/18 4:26:27 PM
APPL Standard LCS

Method Blank
EPA 8081A

Blank Name/QCG: **180412S-71121 - 228557**
Batch ID: #8081S-180412A

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	4,4'-DDE	Not detected	50.0	1.60	ug/kg	04/12/18	04/16/18
BLANK	4,4'-DDT	Not detected	50.0	0.40	ug/kg	04/12/18	04/16/18
BLANK	4,4'-TDE/DDD	Not detected	50.0	1.80	ug/kg	04/12/18	04/16/18
BLANK	A-BHC	Not detected	50.0	1.00	ug/kg	04/12/18	04/16/18
BLANK	A-CHLORDANE	Not detected	50.0	2.10	ug/kg	04/12/18	04/16/18
BLANK	ALDRIN	Not detected	50.0	1.40	ug/kg	04/12/18	04/16/18
BLANK	B-BHC	Not detected	50.0	1.00	ug/kg	04/12/18	04/16/18
BLANK	D-BHC	Not detected	50.0	1.10	ug/kg	04/12/18	04/16/18
BLANK	DIELDRIN	Not detected	50.0	1.10	ug/kg	04/12/18	04/16/18
BLANK	ENDOSULFAN I	Not detected	50.0	0.44	ug/kg	04/12/18	04/16/18
BLANK	ENDOSULFAN II	Not detected	50.0	0.44	ug/kg	04/12/18	04/16/18
BLANK	ENDOSULFAN SULFATE	Not detected	50.0	0.44	ug/kg	04/12/18	04/16/18
BLANK	ENDRIN	Not detected	50.0	1.10	ug/kg	04/12/18	04/16/18
BLANK	ENDRIN ALDEHYDE	Not detected	50.0	2.90	ug/kg	04/12/18	04/16/18
BLANK	ENDRIN KETONE	Not detected	50.0	3.50	ug/kg	04/12/18	04/16/18
BLANK	G-BHC (LINDANE)	Not detected	50.0	0.90	ug/kg	04/12/18	04/16/18
BLANK	G-CHLORDANE	Not detected	50.0	2.10	ug/kg	04/12/18	04/16/18
BLANK	HEPTACHLOR	Not detected	50.0	1.10	ug/kg	04/12/18	04/16/18
BLANK	HEPTACHLOR EPOXIDE	Not detected	50.0	1.10	ug/kg	04/12/18	04/16/18
BLANK	METHOXYCHLOR	Not detected	50.0	1.40	ug/kg	04/12/18	04/16/18
BLANK	TOXAPHENE	Not detected	1000	15.7	ug/kg	04/12/18	04/16/18
BLANK	SURROGATE: DECACHLOROBIPHEN	87.9	44-147		%	04/12/18	04/16/18
BLANK	SURROGATE: TCMX (S)	90.4	25-147		%	04/12/18	04/16/18

Quant Method:OCL0413.M
Run #:0413016
Instrument:Ethel
Sequence:180413
Initials:DPO

GC SC-Blank-REG MDLs
Printed: 04/16/18 1:01:19 PM

Laboratory Control Spike Recovery
EPA 8081A

APPL ID: **180412S-71121 LCS - 228557**
Batch ID: #8081S-180412A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/kg	SPK Result ug/kg	SPK % Recovery	Recovery Limits
4,4'-DDE	167	170	102	55-124
4,4'-DDT	167	159	95.2	48-138
4,4'-TDE/DDD	167	168	101	53-130
A-BHC	167	181	108	44-131
A-CHLORDANE	167	157	94.0	51-125
ALDRIN	167	173	104	45-124
B-BHC	167	174	104	58-131
D-BHC	167	144	86.2	40-136
DIELDRIN	167	172	103	58-127
ENDOSULFAN I	167	161	96.4	66-124
ENDOSULFAN II	167	150	89.8	54-131
ENDOSULFAN SULFATE	167	143	85.6	49-134
ENDRIN	167	156	93.4	49-143
ENDRIN ALDEHYDE	167	143	85.6	25-125
ENDRIN KETONE	167	168	101	46-129
G-BHC (LINDANE)	167	178	107	53-129
G-CHLORDANE	167	166	99.4	52-123
HEPTACHLOR	167	172	103	48-133
HEPTACHLOR EPOXIDE	167	170	102	53-124
METHOXYCHLOR	167	163	97.6	51-140
TOXAPHENE	1670	1770	106	52-122
SURROGATE: DECACHLOROBIPHENYL	333	309	92.8	44-147
SURROGATE: TCMX (S)	333	316	94.9	25-147

Comments: _____

Primary	SPK
Quant Method :	OCL0413.M
Extraction Date :	04/12/18
Analysis Date :	04/16/18
Instrument :	Ethel
Run :	0413017
Initials :	DPO

Printed: 04/16/18 1:01:13 PM
APPL Standard LCS

Method Blank
EPA 8260B MEOH

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **180411S-71110 - 228427**
Batch ID: #8260S-180411AM

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	1,1,1,2-TETRACHLOROETHANE	Not detected	25.0	6.50	ug/Kg	04/11/18	04/11/18
BLANK	1,1,1-TRICHLOROETHANE	Not detected	25.0	7.00	ug/Kg	04/11/18	04/11/18
BLANK	1,1,2,2-TETRACHLOROETHANE	Not detected	25.0	13.50	ug/Kg	04/11/18	04/11/18
BLANK	1,1,2-TRICHLOROETHANE	Not detected	25.0	10.00	ug/Kg	04/11/18	04/11/18
BLANK	1,1-DICHLOROETHANE	Not detected	50.0	9.50	ug/Kg	04/11/18	04/11/18
BLANK	1,1-DICHLOROETHENE	Not detected	25.0	15.00	ug/Kg	04/11/18	04/11/18
BLANK	1,2-DICHLOROBENZENE	Not detected	25.0	8.50	ug/Kg	04/11/18	04/11/18
BLANK	1,2-DICHLOROETHANE	Not detected	25.0	7.00	ug/Kg	04/11/18	04/11/18
BLANK	1,2-DICHLOROPROPANE	Not detected	25.0	8.50	ug/Kg	04/11/18	04/11/18
BLANK	1,3-DICHLOROBENZENE	Not detected	25.0	5.50	ug/Kg	04/11/18	04/11/18
BLANK	1,4-DICHLOROBENZENE	Not detected	25.0	9.50	ug/Kg	04/11/18	04/11/18
BLANK	BENZENE	Not detected	25.0	8.00	ug/Kg	04/11/18	04/11/18
BLANK	BROMOBENZENE	Not detected	25.0	8.00	ug/Kg	04/11/18	04/11/18
BLANK	BROMODICHLOROMETHANE	Not detected	25.0	7.00	ug/Kg	04/11/18	04/11/18
BLANK	BROMOFORM	Not detected	25.0	7.00	ug/Kg	04/11/18	04/11/18
BLANK	BROMOMETHANE	Not detected	50.0	12.00	ug/Kg	04/11/18	04/11/18
BLANK	CARBON TETRACHLORIDE	Not detected	25.0	5.00	ug/Kg	04/11/18	04/11/18
BLANK	CHLOROBENZENE	Not detected	25.0	10.50	ug/Kg	04/11/18	04/11/18
BLANK	CHLOROETHANE	Not detected	25.0	10.50	ug/Kg	04/11/18	04/11/18
BLANK	CHLOROFORM	Not detected	25.0	8.00	ug/Kg	04/11/18	04/11/18
BLANK	CHLOROMETHANE	Not detected	25.0	15.50	ug/Kg	04/11/18	04/11/18
BLANK	CIS-1,2-DICHLOROETHENE	Not detected	25.0	9.50	ug/Kg	04/11/18	04/11/18
BLANK	CIS-1,3-DICHLOROPROPENE	Not detected	25.0	9.00	ug/Kg	04/11/18	04/11/18
BLANK	DIBROMOCHLOROMETHANE	Not detected	25.0	9.50	ug/Kg	04/11/18	04/11/18
BLANK	DIBROMOMETHANE	Not detected	25.0	10.00	ug/Kg	04/11/18	04/11/18
BLANK	DICHLORODIFLUOROMETHANE	Not detected	50.0	9.50	ug/Kg	04/11/18	04/11/18
BLANK	ETHYL BENZENE	Not detected	25.0	11.50	ug/Kg	04/11/18	04/11/18
BLANK	FREON-113	Not detected	25.0	10.50	ug/Kg	04/11/18	04/11/18
BLANK	METHYLENE CHLORIDE	Not detected	250.0	17.50	ug/Kg	04/11/18	04/11/18
BLANK	MTBE	Not detected	25.0	9.50	ug/Kg	04/11/18	04/11/18
BLANK	TETRACHLOROETHENE	Not detected	25.0	7.50	ug/Kg	04/11/18	04/11/18
BLANK	TOLUENE	Not detected	25.0	8.50	ug/Kg	04/11/18	04/11/18
BLANK	TRANS-1,2-DICHLOROETHENE	Not detected	25.0	9.50	ug/Kg	04/11/18	04/11/18
BLANK	TRANS-1,3-DICHLOROPROPENE	Not detected	25.0	9.00	ug/Kg	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M12
Instrument: Max
Sequence: M180410A
Initials: SV

GC SC-Blank-REG MDLs
Printed: 04/19/18 3:01:22 PM

Method Blank
EPA 8260B MEOH

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **180411S-71110 - 228427**
Batch ID: #8260S-180411AM

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	TRICHLOROETHENE	Not detected	25.0	8.00	ug/Kg	04/11/18	04/11/18
BLANK	TRICHLOROFLUOROMETHANE	Not detected	25.0	12.00	ug/Kg	04/11/18	04/11/18
BLANK	VINYL CHLORIDE	Not detected	25.0	11.50	ug/Kg	04/11/18	04/11/18
BLANK	XYLENES	Not detected	25.0	9.50	ug/Kg	04/11/18	04/11/18
BLANK	SURROGATE: 1,2-DICHLOROETHAN	96.3	70-125		%	04/11/18	04/11/18
BLANK	SURROGATE: 4-BROMOFLUOROBEN	97.9	72-133		%	04/11/18	04/11/18
BLANK	SURROGATE: DIBROMOFLUOROMET	99.7	78-125		%	04/11/18	04/11/18
BLANK	SURROGATE: TOLUENE-D8 (S)	98.2	73-124		%	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M12
Instrument: Max
Sequence: M180410A
Initials: SV

GC SC-Blank-REG MDLs
Printed: 04/19/18 3:01:22 PM

Method Blank
EPA 8260B MEOH

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **180412S-71115 - 228468**
Batch ID: #8260S-180412AM

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	1,1,1,2-TETRACHLOROETHANE	Not detected	25.0	6.50	ug/Kg	04/12/18	04/12/18
BLANK	1,1,1-TRICHLOROETHANE	Not detected	25.0	7.00	ug/Kg	04/12/18	04/12/18
BLANK	1,1,2,2-TETRACHLOROETHANE	Not detected	25.0	13.50	ug/Kg	04/12/18	04/12/18
BLANK	1,1,2-TRICHLOROETHANE	Not detected	25.0	10.00	ug/Kg	04/12/18	04/12/18
BLANK	1,1-DICHLOROETHANE	Not detected	50.0	9.50	ug/Kg	04/12/18	04/12/18
BLANK	1,1-DICHLOROETHENE	Not detected	25.0	15.00	ug/Kg	04/12/18	04/12/18
BLANK	1,2-DICHLOROBENZENE	Not detected	25.0	8.50	ug/Kg	04/12/18	04/12/18
BLANK	1,2-DICHLOROETHANE	Not detected	25.0	7.00	ug/Kg	04/12/18	04/12/18
BLANK	1,2-DICHLOROPROPANE	Not detected	25.0	8.50	ug/Kg	04/12/18	04/12/18
BLANK	1,3-DICHLOROBENZENE	Not detected	25.0	5.50	ug/Kg	04/12/18	04/12/18
BLANK	1,4-DICHLOROBENZENE	Not detected	25.0	9.50	ug/Kg	04/12/18	04/12/18
BLANK	BENZENE	Not detected	25.0	8.00	ug/Kg	04/12/18	04/12/18
BLANK	BROMOBENZENE	Not detected	25.0	8.00	ug/Kg	04/12/18	04/12/18
BLANK	BROMODICHLOROMETHANE	Not detected	25.0	7.00	ug/Kg	04/12/18	04/12/18
BLANK	BROMOFORM	Not detected	25.0	7.00	ug/Kg	04/12/18	04/12/18
BLANK	BROMOMETHANE	Not detected	50.0	12.00	ug/Kg	04/12/18	04/12/18
BLANK	CARBON TETRACHLORIDE	Not detected	25.0	5.00	ug/Kg	04/12/18	04/12/18
BLANK	CHLOROBENZENE	Not detected	25.0	10.50	ug/Kg	04/12/18	04/12/18
BLANK	CHLOROETHANE	Not detected	25.0	10.50	ug/Kg	04/12/18	04/12/18
BLANK	CHLOROFORM	Not detected	25.0	8.00	ug/Kg	04/12/18	04/12/18
BLANK	CHLOROMETHANE	Not detected	25.0	15.50	ug/Kg	04/12/18	04/12/18
BLANK	CIS-1,2-DICHLOROETHENE	Not detected	25.0	9.50	ug/Kg	04/12/18	04/12/18
BLANK	CIS-1,3-DICHLOROPROPENE	Not detected	25.0	9.00	ug/Kg	04/12/18	04/12/18
BLANK	DIBROMOCHLOROMETHANE	Not detected	25.0	9.50	ug/Kg	04/12/18	04/12/18
BLANK	DIBROMOMETHANE	Not detected	25.0	10.00	ug/Kg	04/12/18	04/12/18
BLANK	DICHLORODIFLUOROMETHANE	Not detected	50.0	9.50	ug/Kg	04/12/18	04/12/18
BLANK	ETHYL BENZENE	Not detected	25.0	11.50	ug/Kg	04/12/18	04/12/18
BLANK	FREON-113	Not detected	25.0	10.50	ug/Kg	04/12/18	04/12/18
BLANK	METHYLENE CHLORIDE	Not detected	250.0	17.50	ug/Kg	04/12/18	04/12/18
BLANK	MTBE	Not detected	25.0	9.50	ug/Kg	04/12/18	04/12/18
BLANK	TETRACHLOROETHENE	Not detected	25.0	7.50	ug/Kg	04/12/18	04/12/18
BLANK	TOLUENE	Not detected	25.0	8.50	ug/Kg	04/12/18	04/12/18
BLANK	TRANS-1,2-DICHLOROETHENE	Not detected	25.0	9.50	ug/Kg	04/12/18	04/12/18
BLANK	TRANS-1,3-DICHLOROPROPENE	Not detected	25.0	9.00	ug/Kg	04/12/18	04/12/18

Quant Method: MALLW.M
Run #: 0412M11
Instrument: Max
Sequence: M180410A
Initials: SV

GC SC-Blank-REG MDLs
Printed: 04/19/18 3:01:22 PM

Method Blank
EPA 8260B MEOH

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **180412S-71115 - 228468**
Batch ID: #8260S-180412AM

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	TRICHLOROETHENE	Not detected	25.0	8.00	ug/Kg	04/12/18	04/12/18
BLANK	TRICHLOROFLUOROMETHANE	Not detected	25.0	12.00	ug/Kg	04/12/18	04/12/18
BLANK	VINYL CHLORIDE	Not detected	25.0	11.50	ug/Kg	04/12/18	04/12/18
BLANK	XYLENES	Not detected	25.0	9.50	ug/Kg	04/12/18	04/12/18
BLANK	SURROGATE: 1,2-DICHLOROETHAN	95.9	70-125		%	04/12/18	04/12/18
BLANK	SURROGATE: 4-BROMOFLUOROBEN	95.2	72-133		%	04/12/18	04/12/18
BLANK	SURROGATE: DIBROMOFLUOROMET	96.5	78-125		%	04/12/18	04/12/18
BLANK	SURROGATE: TOLUENE-D8 (S)	93.1	73-124		%	04/12/18	04/12/18

Quant Method: MALLW.M
Run #: 0412M11
Instrument: Max
Sequence: M180410A
Initials: SV

GC SC-Blank-REG MDLs
Printed: 04/19/18 3:01:22 PM

Method Blank
EPA 8260B MEOH

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **180414S-71122 - 228541**
Batch ID: #8260S-180414AL

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	1,1,1,2-TETRACHLOROETHANE	Not detected	25.0	6.50	ug/Kg	04/14/18	04/14/18
BLANK	1,1,1-TRICHLOROETHANE	Not detected	25.0	7.00	ug/Kg	04/14/18	04/14/18
BLANK	1,1,2,2-TETRACHLOROETHANE	Not detected	25.0	13.50	ug/Kg	04/14/18	04/14/18
BLANK	1,1,2-TRICHLOROETHANE	Not detected	25.0	10.00	ug/Kg	04/14/18	04/14/18
BLANK	1,1-DICHLOROETHANE	Not detected	50.0	9.50	ug/Kg	04/14/18	04/14/18
BLANK	1,1-DICHLOROETHENE	Not detected	25.0	15.00	ug/Kg	04/14/18	04/14/18
BLANK	1,2-DICHLOROBENZENE	Not detected	25.0	8.50	ug/Kg	04/14/18	04/14/18
BLANK	1,2-DICHLOROETHANE	Not detected	25.0	7.00	ug/Kg	04/14/18	04/14/18
BLANK	1,2-DICHLOROPROPANE	Not detected	25.0	8.50	ug/Kg	04/14/18	04/14/18
BLANK	1,3-DICHLOROBENZENE	Not detected	25.0	5.50	ug/Kg	04/14/18	04/14/18
BLANK	1,4-DICHLOROBENZENE	Not detected	25.0	9.50	ug/Kg	04/14/18	04/14/18
BLANK	BENZENE	Not detected	25.0	8.00	ug/Kg	04/14/18	04/14/18
BLANK	BROMOBENZENE	Not detected	25.0	8.00	ug/Kg	04/14/18	04/14/18
BLANK	BROMODICHLOROMETHANE	Not detected	25.0	7.00	ug/Kg	04/14/18	04/14/18
BLANK	BROMOFORM	Not detected	25.0	7.00	ug/Kg	04/14/18	04/14/18
BLANK	BROMOMETHANE	Not detected	50.0	12.00	ug/Kg	04/14/18	04/14/18
BLANK	CARBON TETRACHLORIDE	Not detected	25.0	5.00	ug/Kg	04/14/18	04/14/18
BLANK	CHLOROBENZENE	Not detected	25.0	10.50	ug/Kg	04/14/18	04/14/18
BLANK	CHLOROETHANE	Not detected	25.0	10.50	ug/Kg	04/14/18	04/14/18
BLANK	CHLOROFORM	Not detected	25.0	8.00	ug/Kg	04/14/18	04/14/18
BLANK	CHLOROMETHANE	Not detected	25.0	15.50	ug/Kg	04/14/18	04/14/18
BLANK	CIS-1,2-DICHLOROETHENE	Not detected	25.0	9.50	ug/Kg	04/14/18	04/14/18
BLANK	CIS-1,3-DICHLOROPROPENE	Not detected	25.0	9.00	ug/Kg	04/14/18	04/14/18
BLANK	DIBROMOCHLOROMETHANE	Not detected	25.0	9.50	ug/Kg	04/14/18	04/14/18
BLANK	DIBROMOMETHANE	Not detected	25.0	10.00	ug/Kg	04/14/18	04/14/18
BLANK	DICHLORODIFLUOROMETHANE	Not detected	50.0	9.50	ug/Kg	04/14/18	04/14/18
BLANK	ETHYL BENZENE	Not detected	25.0	11.50	ug/Kg	04/14/18	04/14/18
BLANK	FREON-113	Not detected	25.0	10.50	ug/Kg	04/14/18	04/14/18
BLANK	METHYLENE CHLORIDE	Not detected	250.0	17.50	ug/Kg	04/14/18	04/14/18
BLANK	MTBE	Not detected	25.0	9.50	ug/Kg	04/14/18	04/14/18
BLANK	TETRACHLOROETHENE	Not detected	25.0	7.50	ug/Kg	04/14/18	04/14/18
BLANK	TOLUENE	Not detected	25.0	8.50	ug/Kg	04/14/18	04/14/18
BLANK	TRANS-1,2-DICHLOROETHENE	Not detected	25.0	9.50	ug/Kg	04/14/18	04/14/18
BLANK	TRANS-1,3-DICHLOROPROPENE	Not detected	25.0	9.00	ug/Kg	04/14/18	04/14/18

Quant Method:LCDOD5W.M
Run #:0414L23
Instrument:Loki
Sequence:180413
Initials:SV

GC SC-Blank-REG MDLs
Printed: 04/19/18 3:01:22 PM

Method Blank
EPA 8260B MEOH

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **180414S-71122 - 228541**
Batch ID: #8260S-180414AL

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	TRICHLOROETHENE	Not detected	25.0	8.00	ug/Kg	04/14/18	04/14/18
BLANK	TRICHLOROFLUOROMETHANE	Not detected	25.0	12.00	ug/Kg	04/14/18	04/14/18
BLANK	VINYL CHLORIDE	Not detected	25.0	11.50	ug/Kg	04/14/18	04/14/18
BLANK	XYLENES	Not detected	25.0	9.50	ug/Kg	04/14/18	04/14/18
BLANK	SURROGATE: 1,2-DICHLOROETHAN	98.3	70-125		%	04/14/18	04/14/18
BLANK	SURROGATE: 4-BROMOFLUOROBEN	91.2	72-133		%	04/14/18	04/14/18
BLANK	SURROGATE: DIBROMOFLUOROMET	102	78-125		%	04/14/18	04/14/18
BLANK	SURROGATE: TOLUENE-D8 (S)	89.9	73-124		%	04/14/18	04/14/18

Quant Method:LCDOD5W.M
Run #:0414L23
Instrument:Loki
Sequence:180413
Initials:SV

GC SC-Blank-REG MDLs
Printed: 04/19/18 3:01:22 PM

Laboratory Control Spike Recovery
EPA 8260B MEOH

APPL ID: **180411S-71110 LCS - 228427**
Batch ID: #8260S-180411AM

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/Kg	SPK Result ug/Kg	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	500	538	108	73-124
1,1,1-TRICHLOROETHANE	500	523	105	67-125
1,1,2,2-TETRACHLOROETHANE	500	507	101	71-127
1,1,2-TRICHLOROETHANE	500	517	103	74-121
1,1-DICHLOROETHANE	500	518	104	62-132
1,1-DICHLOROETHENE	500	532	106	70-125
1,2-DICHLOROBENZENE	500	527	105	70-129
1,2-DICHLOROETHANE	500	515	103	68-123
1,2-DICHLOROPROPANE	500	521	104	77-125
1,3-DICHLOROBENZENE	500	521	104	69-129
1,4-DICHLOROBENZENE	500	501	100	71-126
BENZENE	500	519	104	68-124
BROMOBENZENE	500	512	102	65-130
BROMODICHLOROMETHANE	500	535	107	69-124
BROMOFORM	500	534	107	67-125
BROMOMETHANE	500	579	116	71-131
CARBON TETRACHLORIDE	500	536	107	70-122
CHLOROBENZENE	500	533	107	72-125
CHLOROETHANE	500	500	100	78-125
CHLOROFORM	500	537	107	69-122
CHLOROMETHANE	500	481	96.2	71-124
CIS-1,2-DICHLOROETHENE	500	516	103	72-123
CIS-1,3-DICHLOROPROPENE	500	526	105	70-125
DIBROMOCHLOROMETHANE	500	525	105	70-125
DIBROMOMETHANE	500	522	104	66-126
DICHLORODIFLUOROMETHANE	500	558	112	68-131
ETHYL BENZENE	500	537	107	70-123
FREON-113	500	541	108	74-138
METHYLENE CHLORIDE	500	527	105	78-118
MTBE	500	531	106	72-125
TETRACHLOROETHENE	500	564	113	62-136

Primary	SPK
Quant Method :	MALLW.M
Extraction Date :	04/11/18
Analysis Date :	04/11/18
Instrument :	Max
Run :	0411M04
Initials :	SV

Comments:

Printed: 04/19/18 3:01:26 PM
APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B MEOH

APPL ID: **180411S-71110 LCS - 228427**
Batch ID: #8260S-180411AM

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/Kg	SPK Result ug/Kg	SPK % Recovery	Recovery Limits
TOLUENE	500	532	106	69-122
TRANS-1,2-DICHLOROETHENE	500	550	110	68-126
TRANS-1,3-DICHLOROPROPENE	500	526	105	62-127
TRICHLOROETHENE	500	530	106	70-128
TRICHLOROFLUOROMETHANE	500	543	109	66-132
VINYL CHLORIDE	500	542	108	79-138
XYLENES	1500	1630	109	73-145
SURROGATE: 1,2-DICHLOROETHANE-D	25.0	25.5	102	70-125
SURROGATE: 4-BROMOFLUOROBENZE	25.0	24.7	98.8	72-133
SURROGATE: DIBROMOFLUOROMETH	25.0	25.3	101	78-125
SURROGATE: TOLUENE-D8 (S)	25.0	24.9	99.6	73-124

Primary	SPK
Quant Method :	MALLW.M
Extraction Date :	04/11/18
Analysis Date :	04/11/18
Instrument :	Max
Run :	0411M04
Initials :	SV

Comments:

Printed: 04/19/18 3:01:26 PM
APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B MEOH

APPL ID: **180412S-71115 LCS - 228468**
Batch ID: #8260S-180412AM

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/Kg	SPK Result ug/Kg	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	500	510	102	73-124
1,1,1-TRICHLOROETHANE	500	522	104	67-125
1,1,2,2-TETRACHLOROETHANE	500	520	104	71-127
1,1,2-TRICHLOROETHANE	500	469	93.8	74-121
1,1-DICHLOROETHANE	500	515	103	62-132
1,1-DICHLOROETHENE	500	530	106	70-125
1,2-DICHLOROBENZENE	500	517	103	70-129
1,2-DICHLOROETHANE	500	474	94.8	68-123
1,2-DICHLOROPROPANE	500	495	99.0	77-125
1,3-DICHLOROBENZENE	500	520	104	69-129
1,4-DICHLOROBENZENE	500	493	98.6	71-126
BENZENE	500	497	99.4	68-124
BROMOBENZENE	500	493	98.6	65-130
BROMODICHLOROMETHANE	500	503	101	69-124
BROMOFORM	500	469	93.8	67-125
BROMOMETHANE	500	524	105	71-131
CARBON TETRACHLORIDE	500	543	109	70-122
CHLOROBENZENE	500	511	102	72-125
CHLOROETHANE	500	485	97.0	78-125
CHLOROFORM	500	505	101	69-122
CHLOROMETHANE	500	446	89.2	71-124
CIS-1,2-DICHLOROETHENE	500	515	103	72-123
CIS-1,3-DICHLOROPROPENE	500	479	95.8	70-125
DIBROMOCHLOROMETHANE	500	492	98.4	70-125
DIBROMOMETHANE	500	487	97.4	66-126
DICHLORODIFLUOROMETHANE	500	587	117	68-131
ETHYL BENZENE	500	523	105	70-123
FREON-113	500	543	109	74-138
METHYLENE CHLORIDE	500	456	91.2	78-118
MTBE	500	475	95.0	72-125
TETRACHLOROETHENE	500	547	109	62-136

Primary	SPK
Quant Method :	MALLW.M
Extraction Date :	04/12/18
Analysis Date :	04/12/18
Instrument :	Max
Run :	0412M05
Initials :	SV

Comments:

Printed: 04/19/18 3:01:26 PM
APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B MEOH

APPL ID: **180412S-71115 LCS - 228468**
Batch ID: #8260S-180412AM

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/Kg	SPK Result ug/Kg	SPK % Recovery	Recovery Limits
TOLUENE	500	501	100	69-122
TRANS-1,2-DICHLOROETHENE	500	509	102	68-126
TRANS-1,3-DICHLOROPROPENE	500	474	94.8	62-127
TRICHLOROETHENE	500	521	104	70-128
TRICHLOROFLUOROMETHANE	500	532	106	66-132
VINYL CHLORIDE	500	507	101	79-138
XYLENES	1500	1570	105	73-145
SURROGATE: 1,2-DICHLOROETHANE-D	25.0	24.5	98.0	70-125
SURROGATE: 4-BROMOFLUOROBENZE	25.0	24.9	99.6	72-133
SURROGATE: DIBROMOFLUOROMETH	25.0	25.0	100	78-125
SURROGATE: TOLUENE-D8 (S)	25.0	25.2	101	73-124

Primary	SPK
Quant Method :	MALLW.M
Extraction Date :	04/12/18
Analysis Date :	04/12/18
Instrument :	Max
Run :	0412M05
Initials :	SV

Comments:

Printed: 04/19/18 3:01:26 PM
APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B MEOH

APPL ID: **180414S-71122 LCS - 228541**
Batch ID: #8260S-180414AL

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/Kg	SPK Result ug/Kg	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	500	488	97.6	73-124
1,1,1-TRICHLOROETHANE	500	470	94.0	67-125
1,1,2,2-TETRACHLOROETHANE	500	550	110	71-127
1,1,2-TRICHLOROETHANE	500	487	97.4	74-121
1,1-DICHLOROETHANE	500	469	93.8	62-132
1,1-DICHLOROETHENE	500	466	93.2	70-125
1,2-DICHLOROBENZENE	500	522	104	70-129
1,2-DICHLOROETHANE	500	459	91.8	68-123
1,2-DICHLOROPROPANE	500	486	97.2	77-125
1,3-DICHLOROBENZENE	500	546	109	69-129
1,4-DICHLOROBENZENE	500	517	103	71-126
BENZENE	500	496	99.2	68-124
BROMOBENZENE	500	533	107	65-130
BROMODICHLOROMETHANE	500	458	91.6	69-124
BROMOFORM	500	490	98.0	67-125
BROMOMETHANE	500	519	104	71-131
CARBON TETRACHLORIDE	500	490	98.0	70-122
CHLOROBENZENE	500	503	101	72-125
CHLOROETHANE	500	499	99.8	78-125
CHLOROFORM	500	464	92.8	69-122
CHLOROMETHANE	500	482	96.4	71-124
CIS-1,2-DICHLOROETHENE	500	490	98.0	72-123
CIS-1,3-DICHLOROPROPENE	500	503	101	70-125
DIBROMOCHLOROMETHANE	500	491	98.2	70-125
DIBROMOMETHANE	500	464	92.8	66-126
DICHLORODIFLUOROMETHANE	500	540	108	68-131
ETHYL BENZENE	500	495	99.0	70-123
FREON-113	500	484	96.8	74-138
METHYLENE CHLORIDE	500	490	98.0	78-118
MTBE	500	519	104	72-125
TETRACHLOROETHENE	500	498	99.6	62-136

Comments: _____

Primary	SPK
Quant Method :	LCDOD5W.M
Extraction Date :	04/14/18
Analysis Date :	04/14/18
Instrument :	Loki
Run :	0414L17
Initials :	SV

Printed: 04/19/18 3:01:26 PM
APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B MEOH

APPL ID: **180414S-71122 LCS - 228541**
Batch ID: #8260S-180414AL

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/Kg	SPK Result ug/Kg	SPK % Recovery	Recovery Limits
TOLUENE	500	527	105	69-122
TRANS-1,2-DICHLOROETHENE	500	486	97.2	68-126
TRANS-1,3-DICHLOROPROPENE	500	515	103	62-127
TRICHLOROETHENE	500	538	108	70-128
TRICHLOROFLUOROMETHANE	500	488	97.6	66-132
VINYL CHLORIDE	500	477	95.4	79-138
XYLENES	1500	1480	98.7	73-145
SURROGATE: 1,2-DICHLOROETHANE-D	25.0	23.9	95.6	70-125
SURROGATE: 4-BROMOFLUOROBENZE	25.0	25.9	104	72-133
SURROGATE: DIBROMOFLUOROMETH	25.0	24.0	96.0	78-125
SURROGATE: TOLUENE-D8 (S)	25.0	24.6	98.4	73-124

Comments: _____

Primary	SPK
Quant Method :	LCDOD5W.M
Extraction Date :	04/14/18
Analysis Date :	04/14/18
Instrument :	Loki
Run :	0414L17
Initials :	SV

Printed: 04/19/18 3:01:26 PM
APPL Standard LCS

Method Blank
EPA 8260B MEOH SOIL -GRO

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **180411S-71109 - 228430**
Batch ID: #GRO86-180411AM1

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE	Not detected	1.000	0.3030	mg/Kg	04/11/18	04/11/18
BLANK	SURROGATE: 4-BROMOFLUOROBEN	97.9	79-119		%	04/11/18	04/11/18

Quant Method: MGAS0111.M
Run #: 0411M12
Instrument: Max
Sequence: M180410A
Initials: SV

GC SC-Blank-REG MDLs
Printed: 04/19/18 3:08:32 PM

Method Blank
EPA 8260B MEOH SOIL -GRO

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **180412S-71115 - 228469**
Batch ID: #GRO86-180412AM

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE	Not detected	1.000	0.3030	mg/Kg	04/12/18	04/12/18
BLANK	SURROGATE: 4-BROMOFLUOROBEN	95.2	79-119		%	04/12/18	04/12/18

Quant Method: MGAS0111.M
Run #: 0412M11
Instrument: Max
Sequence: M180410A
Initials: SV

GC SC-Blank-REG MDLs
Printed: 04/19/18 3:08:32 PM

Method Blank
EPA 8260B MEOH SOIL -GRO

Blank Name/QCG: **180414S-71122 - 228537**
Batch ID: #GRO86-180414AL

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE	Not detected	1.000	0.3030	mg/Kg	04/14/18	04/14/18
BLANK	SURROGATE: 4-BROMOFLUOROBEN	91.2	79-119		%	04/14/18	04/14/18

Quant Method: LGAS6414.M
Run #: 0414L23
Instrument: Loki
Sequence: 180413
Initials: SV

GC SC-Blank-REG MDLs
Printed: 04/19/18 3:08:32 PM

Laboratory Control Spike Recovery
EPA 8260B MEOH SOIL -GRO

APPL ID: **180411S-71109 LCS - 228430**
Batch ID: #GRO86-180411AM1

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level mg/Kg	SPK Result mg/Kg	SPK % Recovery	Recovery Limits
GASOLINE	15.0	14.1	94.0	79-122
SURROGATE: 4-BROMOFLUOROBENZE	0.025	0.0238	95.2	79-119

Comments:

Primary	SPK
Quant Method :	MGAS0111.M
Extraction Date :	04/11/18
Analysis Date :	04/11/18
Instrument :	Max
Run :	0411M07
Initials :	SV

Printed: 04/19/18 3:08:36 PM
APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B MEOH SOIL -GRO

APPL ID: **180412S-71115 LCS - 228469**
Batch ID: #GRO86-180412AM

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level mg/Kg	SPK Result mg/Kg	SPK % Recovery	Recovery Limits
GASOLINE	15.0	13.2	88.0	79-122
SURROGATE: 4-BROMOFLUOROBENZE	0.025	0.024	96.0	79-119

Comments: _____

Primary	SPK
Quant Method :	MGAS0111.M
Extraction Date :	04/12/18
Analysis Date :	04/12/18
Instrument :	Max
Run :	0412M08
Initials :	SV

Printed: 04/23/18 2:01:57 PM
APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B MEOH SOIL -GRO

APPL ID: **180414S-71122 LCS - 228537**
Batch ID: #GRO86-180414AL

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level mg/Kg	SPK Result mg/Kg	SPK % Recovery	Recovery Limits
GASOLINE	15.0	14.1	94.0	79-122
SURROGATE: 4-BROMOFLUOROBENZE	0.025	0.0241	96.4	79-119

Comments: _____

Primary	SPK
Quant Method :	LGAS6414.M
Extraction Date :	04/14/18
Analysis Date :	04/14/18
Instrument :	Loki
Run :	0414L22
Initials :	SV

Printed: 04/23/18 2:01:57 PM
APPL Standard LCS

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	Not detected	0.5	0.09	mg/kg	04/09/18	04/09/18	#MTL3-180409A-AZ71110

Laboratory Control Spike Recoveries
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/kg	SPK Res mg/kg	DUP Res mg/kg	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 6010B	LEAD (PB)	25.0	25.1	24.9	100	99.6	0.8	20	80-120	04/09/18	04/09/18	04/09/18	04/09/18	#MTL3-180409A-AZ71110

Comments: _____

WETLAB

Sample/Sample Duplicate Results

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright

Sample ID: AZ71115
Client ID: SB-04

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

ARF: 85411

Method	Analyte	Sample ID	Sample Result	Sample Dup Result	RPD	RPD Max	MDL	PQL	Units	Sample Extract Date	Sample Analysis Date	Sample Dup Extract Date	Sample Dup Analysis Date
CLP MOIST	MOISTURE	AZ71115	19.6	19.9	1.5	20		2.0	%	04/09/18	04/10/18	04/09/18	04/10/18

Printed: 04/17/18 5:34:53 PM
Dup-SCII (NoMC)

WETLAB

Sample/Sample Duplicate Results

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright

Sample ID: AZ71117
Client ID: SB-06

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

ARF: 85411

Method	Analyte	Sample ID	Sample Result	Sample Dup Result	RPD	RPD Max	MDL	PQL	Units	Sample Extract Date	Sample Analysis Date	Sample Dup Extract Date	Sample Dup Analysis Date
CLP MOIST	MOISTURE	AZ71117	14.9	14.6	2.0	20		2.0	%	04/09/18	04/10/18	04/09/18	04/10/18

Printed: 04/17/18 5:34:53 PM
Dup-SCII (NoMC)

85411 2:5

APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
Phone: (559) 275-2175
Fax: (559) 275-4422

CHAIN OF CUSTODY RECORD

C.O.C. 48819

Report to: PLEASE PRINT	Invoice to: PLEASE PRINT
Company Name: Weston Solutions	Company Name: Same
Address: 841 Bishop St Suite 2301 Honolulu HI 96813	Address:
Attn: Christine Kline	Attn:
Phone: 808-275-2936	Phone:
Fax:	Fax:

Project Name/Number	Sampler (Print)	Date Shipped:
Purchase Order Number	Sampler (Signature)	Carrier: / Waybill No.: / Comments:

Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Matrix: Aq.	Sed.	Soil	Analysis Requested/Method Number: TPH-D	TPH-G	TPH-G	VOCs	Mineral Spirits	Lead	Pesticides
SB-01	Mayor Wright	4-2-18	0915	HI	2			X	X	X	X	X	X		
SB-02	" "	"	1035	HI	2			X	X	X	X	X		X	
SB-03	" "	"	1150	HI	2			X	X	X	X	X	X		
SB-13	" "	"	1305	HI	2			X	X	X	X	X	X		
SB-14	" "	4-3-18	0905	HI	2			X	X	X	X	X			
SB-24	" "	"	0930	HI	2			X	X	X	X	X			
SB-04	" "	"	0950	HI	2			X	X	X	X	X			
SB-05	" "	"	1030	HI	2			X	X	X	X	X			
SB-06	" "	"	1100	HI	2			X	X	X	X	X	X		
SB-08	" "	"	1145	HI	2			X	X	X	X	X			
SB-07			1205	HI	2			X	X	X	X	X			

Shuttle Temperature:

Turnaround Requested: Check one
☒ Standard 2-3 wk (10 days) ☐ One week ☐ 24/48 Hrs. ☐ Other

Sample Disposal:
☐ Return to client ☒ Disposal by Lab (30-day retention)

Relinquished by sampler:	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:
	4/4/18	1200					
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by:
					4.6.18	1005	

White: Return to client with report Yellow: Laboratory Copy Pink: Sampler

See reverse side for Container Preservative and Sampling Information

APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
Phone: (559) 275-2175
Fax: (559) 275-4422

CHAIN OF CUSTODY RECORD

C.O.C. 42246

Report to: PLEASE PRINT	Invoice to: PLEASE PRINT
Company Name: Weston Solutions	Company Name: Same
Address: 841 Bishop St Suite 2301 Honolulu HI 96813	Address:
Attn:	Attn:
Phone: 808-275-2936	Phone:
Fax:	Fax:

Project Name/Number	Sampler (Print)	Date Shipped:
Purchase Order Number	Sampler (Signature)	Carrier: / Waybill No.: / Comments:

Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Matrix: Aq.	Sed.	Soil	Analysis Requested/Method Number: TPH-D	TPH-G	TPH-G	VOCs	Mineral Spirits	Pesticides
SB-09	Mayor Wright	4-3-18	1345	HI	2			X	X	X	X	X		X (no pesticides SC)
SB-10	" "	"	1420	HI	2			X	X	X	X	X		X
SB-29	" "	"	1230	HI	2			X	X	X	X	X		
SB-11	" "	"	1445	HI	3			X	X	X	X	X		X
SB-12	" "	"	1515	HI	3			X	X	X	X	X		X

Shuttle Temperature:

Turnaround Requested: Check one
☒ Standard 2-3 wk (10 days) ☐ One week ☐ 24/48 Hrs. ☐ Other

Sample Disposal:
☐ Return to client ☒ Disposal by Lab (30-day retention)

Relinquished by sampler:	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:
	4/4/18	1200					
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by:
					04/06/18	1005	

White: Return to client with report Yellow: Laboratory Copy Pink: Sampler

See reverse side for Container Preservative and Sampling Information

APPENDIX C

ANALYTICAL REPORTS AND CHAIN-OF-CUSTODIES FOR GROUNDWATER

(ON CD)

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

Certification Number: CA1312 WW & DW)
NELAP Certification number: CA00046 (HW)

April 26, 2018

Weston Solutions
841 Bishop Street, Suite 2301
Honolulu, Hawaii 96813

Attn: Christine Kline

Subject: Report of Data: 85427

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dear Ms. Kline:

One soil and five water samples for the "Mayor Wright" project were received April 07, 2018, at 1.3°C. Written results are being provided on this April 26, 2018, for the requested analyses. All holding times were met.

For the EPA 8015B analysis, the water samples were extracted according to EPA method 3510C, and the soil sample was extracted according to EPA method 3550B.

For the EPA 8082 analysis, the soil sample was extracted according to EPA method 3550B.

For the EPA 8260B analysis, the water samples were purged according to EPA method 5030B, and the soil sample was purged according to EPA method 5035.

For the EPA 6010B analysis, the water sample was digested according to EPA method 3010A, and the soil sample was digested according to EPA method 3050B.

For the EPA 7471A analysis, the sample was digested according to the method.

No unusual problem or complication was encountered with this sample set.

If you have any questions or require further information, please contact us at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

Paula McCartney, Laboratory Director
APPL, Inc.

PM/rp
Enclosure
cc: File

1 Number of pages in this report ____

EPA 8015B TPH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Project: Mayor Wright
ARF: 85427
Sample ID: GW-01
APPL ID: AZ71144
Sample Collection Date: 04/05/18
QCG: #TPHDR-180409B-228485

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL FUEL	Not detected	50.0	40.40	ug/L	04/09/18	04/11/18
EPA 8015B-e	MINERAL SPIRITS	Not detected	500	106.0	ug/L	04/09/18	04/11/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	Not detected	500	106.0	ug/L	04/09/18	04/11/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	78.5	28-142		%	04/09/18	04/11/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	69.5	45-145		%	04/09/18	04/11/18

Quant Method: TPHD0321.M
Run #: 411026
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

Printed: 04/13/18 11:14:47 AM
APPL-F1-SC-NoMC-REG MDLs

EPA 8015B TPH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn. Christine Kline

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Project: Mayor Wright
ARF: 85427
Sample ID: GW-11
APPL ID: AZ71145
Sample Collection Date: 04/05/18
QCG: #TPHDR-180409B-228485

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL FUEL	Not detected	50.0	40.40	ug/L	04/09/18	04/11/18
EPA 8015B-e	MINERAL SPIRITS	Not detected	500	106.0	ug/L	04/09/18	04/11/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	Not detected	500	106.0	ug/L	04/09/18	04/11/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	87.8	28-142		%	04/09/18	04/11/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	83.2	45-145		%	04/09/18	04/11/18

Quant Method: TPHD0321.M
Run #: 411027
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

Printed: 04/13/18 11:14:47 AM
APPL-F1-SC-NoMC-REG MDLs

EPA 8015B TPH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: GW-02
Sample Collection Date: 04/05/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85427
APPL ID: AZ71146
QCG: #TPHDR-180409B-228485

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL FUEL	Not detected	50.0	40.40	ug/L	04/09/18	04/11/18
EPA 8015B-e	MINERAL SPIRITS	Not detected	500	106.0	ug/L	04/09/18	04/11/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	Not detected	500	106.0	ug/L	04/09/18	04/11/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	85.2	28-142		%	04/09/18	04/11/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	78.2	45-145		%	04/09/18	04/11/18

Quant Method: TPHD0321.M
Run #: 411028
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

Printed: 04/13/18 11:14:47 AM
APPL-F1-SC-NoMC-REG MDLs

EPA 8015B TPH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: GW-03
Sample Collection Date: 04/06/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85427
APPL ID: AZ71147
QCG: #TPHDR-180409B-228485

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL FUEL	Not detected	50.0	40.40	ug/L	04/09/18	04/11/18
EPA 8015B-e	MINERAL SPIRITS	Not detected	500	106.0	ug/L	04/09/18	04/11/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	Not detected	500	106.0	ug/L	04/09/18	04/11/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	77.9	28-142		%	04/09/18	04/11/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	70.0	45-145		%	04/09/18	04/11/18

Quant Method: TPHD0321.M
Run #: 411029
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

Printed: 04/13/18 11:14:47 AM
APPL-F1-SC-NoMC-REG MDLs

EPA 8015B TPH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: GW-13
Sample Collection Date: 04/06/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85427
APPL ID: AZ71148
QCG: #TPHDR-180409B-228485

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL FUEL	Not detected	50.0	40.40	ug/L	04/09/18	04/11/18
EPA 8015B-e	MINERAL SPIRITS	Not detected	500	106.0	ug/L	04/09/18	04/11/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	Not detected	500	106.0	ug/L	04/09/18	04/11/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	87.7	28-142		%	04/09/18	04/11/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	79.1	45-145		%	04/09/18	04/11/18

Quant Method: TPHD0321.M
Run #: 411030
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

Printed: 04/13/18 11:14:47 AM
APPL-F1-SC-NoMC-REG MDLs

EPA 8015 SOIL

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: WC-01
Sample Collection Date: 04/06/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85427
APPL ID: AZ71149
QCG: #TPHDR-180412A-228459

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 42.2 Percent Moisture.)							
EPA 8015B-e	DIESEL FUEL	Not detected	1.70	1.000	mg/kg	04/12/18	04/12/18
EPA 8015B-e	RESIDUAL RANGE ORGANICS	Not detected	17.0	6.10	mg/kg	04/12/18	04/12/18
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	94.6	47-140		%	04/12/18	04/12/18
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (	98.1	58-128		%	04/12/18	04/12/18

Quant Method: TPHD0321.M
Run #: 411071
Instrument: Apollo
Sequence: 180411
Dilution Factor: 1
Initials: DPO

Printed: 04/12/18 5:04:20 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8082 SOIL

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: WC-01
Sample Collection Date: 04/06/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85427
APPL ID: AZ71149
QCG: #80PS-180412A-228595

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 42.2 Percent Moisture.)							
EPA 8082	PCB-1016	Not detected	570	17.0	ug/Kg	04/12/18	04/16/18
EPA 8082	PCB-1221	Not detected	570	9.5	ug/Kg	04/12/18	04/16/18
EPA 8082	PCB-1232	Not detected	570	6.9	ug/Kg	04/12/18	04/16/18
EPA 8082	PCB-1242	Not detected	570	4.5	ug/Kg	04/12/18	04/16/18
EPA 8082	PCB-1248	Not detected	570	2.4	ug/Kg	04/12/18	04/16/18
EPA 8082	PCB-1254	Not detected	570	2.8	ug/Kg	04/12/18	04/16/18
EPA 8082	PCB-1260	Not detected	570	6.2	ug/Kg	04/12/18	04/16/18
EPA 8082	SURROGATE: DECACHLOROBIPHEN	91.9	44-147		%	04/12/18	04/16/18
EPA 8082	SURROGATE: TCMX (S)	76.2	25-147		%	04/12/18	04/16/18

Quant Method: PCB0208.M
Run #: 0322200
Instrument: Lucy
Sequence: 180322
Dilution Factor: 1
Initials: DPO

Printed: 04/17/18 9:56:08 AM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: GW-01
Sample Collection Date: 04/05/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85427
APPL ID: AZ71144
QCG: #8260-180411AM-228422

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-TETRACHLOROETHANE	Not detected	0.5	0.13	ug/L	04/11/18	04/11/18
EPA 8260B	1,1,1-TRICHLOROETHANE	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	Not detected	0.5	0.10	ug/L	04/11/18	04/11/18
EPA 8260B	1,1,2-TRICHLOROETHANE	Not detected	0.5	0.20	ug/L	04/11/18	04/11/18
EPA 8260B	1,1-DICHLOROETHANE	Not detected	1.0	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	1,1-DICHLOROETHENE	Not detected	0.5	0.30	ug/L	04/11/18	04/11/18
EPA 8260B	1,2-DICHLOROBENZENE	Not detected	0.5	0.17	ug/L	04/11/18	04/11/18
EPA 8260B	1,2-DICHLOROETHANE	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
EPA 8260B	1,2-DICHLOROPROPANE	Not detected	0.5	0.17	ug/L	04/11/18	04/11/18
EPA 8260B	1,3-DICHLOROBENZENE	Not detected	0.5	0.11	ug/L	04/11/18	04/11/18
EPA 8260B	1,4-DICHLOROBENZENE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	BENZENE	Not detected	0.5	0.16	ug/L	04/11/18	04/11/18
EPA 8260B	BROMOBENZENE	Not detected	0.5	0.16	ug/L	04/11/18	04/11/18
EPA 8260B	BROMODICHLOROMETHANE	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
EPA 8260B	BROMOFORM	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
EPA 8260B	BROMOMETHANE	8.1	1.0	0.24	ug/L	04/11/18	04/11/18
EPA 8260B	CARBON TETRACHLORIDE	Not detected	0.5	0.10	ug/L	04/11/18	04/11/18
EPA 8260B	CHLOROBENZENE	Not detected	0.5	0.21	ug/L	04/11/18	04/11/18
EPA 8260B	CHLOROETHANE	Not detected	0.5	0.21	ug/L	04/11/18	04/11/18
EPA 8260B	CHLOROFORM	Not detected	0.5	0.07	ug/L	04/11/18	04/11/18
EPA 8260B	CHLOROMETHANE	120	0.5	0.42	ug/L	04/11/18	04/11/18
EPA 8260B	CIS-1,2-DICHLOROETHENE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	CIS-1,3-DICHLOROPROPENE	Not detected	0.5	0.18	ug/L	04/11/18	04/11/18
EPA 8260B	DIBROMOCHLOROMETHANE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	DIBROMOMETHANE	Not detected	0.5	0.20	ug/L	04/11/18	04/11/18
EPA 8260B	DICHLORODIFLUOROMETHANE	Not detected	1.0	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	ETHYL BENZENE	Not detected	0.5	0.23	ug/L	04/11/18	04/11/18
EPA 8260B	FREON-113	Not detected	0.5	0.21	ug/L	04/11/18	04/11/18
EPA 8260B	METHYLENE CHLORIDE	Not detected	5.0	0.35	ug/L	04/11/18	04/11/18
EPA 8260B	MTBE	Not detected	0.5	0.26	ug/L	04/11/18	04/11/18
EPA 8260B	TETRACHLOROETHENE	Not detected	0.5	0.24	ug/L	04/11/18	04/11/18
EPA 8260B	TOLUENE	Not detected	0.5	0.17	ug/L	04/11/18	04/11/18
EPA 8260B	TRANS-1,2-DICHLOROETHENE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	TRANS-1,3-DICHLOROPROPENE	Not detected	0.5	0.18	ug/L	04/11/18	04/11/18
EPA 8260B	TRICHLOROETHENE	Not detected	0.5	0.16	ug/L	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M14
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/20/18 2:08:28 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: GW-01
Sample Collection Date: 04/05/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85427
APPL ID: AZ71144
QCG: #8260-180411AM-228422

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	TRICHLOROFLUOROMETHANE	Not detected	0.5	0.24	ug/L	04/11/18	04/11/18
EPA 8260B	VINYL CHLORIDE	Not detected	0.5	0.23	ug/L	04/11/18	04/11/18
EPA 8260B	XYLENES	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	SURROGATE: 1,2-DICHLOROETHAN	95.7	70-125		%	04/11/18	04/11/18
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	95.8	72-133		%	04/11/18	04/11/18
EPA 8260B	SURROGATE: DIBROMOFLUOROME	95.3	78-125		%	04/11/18	04/11/18
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	96.4	73-124		%	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M14
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/20/18 2:08:29 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: GW-11
Sample Collection Date: 04/05/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85427
APPL ID: AZ71145
QCG: #8260-180411AM-228422

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-TETRACHLOROETHANE	Not detected	0.5	0.13	ug/L	04/11/18	04/11/18
EPA 8260B	1,1,1-TRICHLOROETHANE	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	Not detected	0.5	0.10	ug/L	04/11/18	04/11/18
EPA 8260B	1,1,2-TRICHLOROETHANE	Not detected	0.5	0.20	ug/L	04/11/18	04/11/18
EPA 8260B	1,1-DICHLOROETHANE	Not detected	1.0	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	1,1-DICHLOROETHENE	Not detected	0.5	0.30	ug/L	04/11/18	04/11/18
EPA 8260B	1,2-DICHLOROBENZENE	Not detected	0.5	0.17	ug/L	04/11/18	04/11/18
EPA 8260B	1,2-DICHLOROETHANE	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
EPA 8260B	1,2-DICHLOROPROPANE	Not detected	0.5	0.17	ug/L	04/11/18	04/11/18
EPA 8260B	1,3-DICHLOROBENZENE	Not detected	0.5	0.11	ug/L	04/11/18	04/11/18
EPA 8260B	1,4-DICHLOROBENZENE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	BENZENE	Not detected	0.5	0.16	ug/L	04/11/18	04/11/18
EPA 8260B	BROMOBENZENE	Not detected	0.5	0.16	ug/L	04/11/18	04/11/18
EPA 8260B	BROMODICHLOROMETHANE	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
EPA 8260B	BROMOFORM	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
EPA 8260B	BROMOMETHANE	1.8	1.0	0.24	ug/L	04/11/18	04/11/18
EPA 8260B	CARBON TETRACHLORIDE	Not detected	0.5	0.10	ug/L	04/11/18	04/11/18
EPA 8260B	CHLOROBENZENE	Not detected	0.5	0.21	ug/L	04/11/18	04/11/18
EPA 8260B	CHLOROETHANE	Not detected	0.5	0.21	ug/L	04/11/18	04/11/18
EPA 8260B	CHLOROFORM	Not detected	0.5	0.07	ug/L	04/11/18	04/11/18
EPA 8260B	CHLOROMETHANE	33	0.5	0.42	ug/L	04/11/18	04/11/18
EPA 8260B	CIS-1,2-DICHLOROETHENE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	CIS-1,3-DICHLOROPROPENE	Not detected	0.5	0.18	ug/L	04/11/18	04/11/18
EPA 8260B	DIBROMOCHLOROMETHANE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	DIBROMOMETHANE	Not detected	0.5	0.20	ug/L	04/11/18	04/11/18
EPA 8260B	DICHLORODIFLUOROMETHANE	Not detected	1.0	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	ETHYL BENZENE	Not detected	0.5	0.23	ug/L	04/11/18	04/11/18
EPA 8260B	FREON-113	Not detected	0.5	0.21	ug/L	04/11/18	04/11/18
EPA 8260B	METHYLENE CHLORIDE	Not detected	5.0	0.35	ug/L	04/11/18	04/11/18
EPA 8260B	MTBE	Not detected	0.5	0.26	ug/L	04/11/18	04/11/18
EPA 8260B	TETRACHLOROETHENE	Not detected	0.5	0.24	ug/L	04/11/18	04/11/18
EPA 8260B	TOLUENE	Not detected	0.5	0.17	ug/L	04/11/18	04/11/18
EPA 8260B	TRANS-1,2-DICHLOROETHENE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	TRANS-1,3-DICHLOROPROPENE	Not detected	0.5	0.18	ug/L	04/11/18	04/11/18
EPA 8260B	TRICHLOROETHENE	Not detected	0.5	0.16	ug/L	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M15
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/20/18 2:08:29 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: GW-11
Sample Collection Date: 04/05/18

ARF: 85427
APPL ID: AZ71145
QCG: #8260-180411AM-228422

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	TRICHLOROFLUOROMETHANE	Not detected	0.5	0.24	ug/L	04/11/18	04/11/18
EPA 8260B	VINYL CHLORIDE	Not detected	0.5	0.23	ug/L	04/11/18	04/11/18
EPA 8260B	XYLENES	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	SURROGATE: 1,2-DICHLOROETHAN	101	70-125		%	04/11/18	04/11/18
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	97.9	72-133		%	04/11/18	04/11/18
EPA 8260B	SURROGATE: DIBROMOFLUOROME	98.5	78-125		%	04/11/18	04/11/18
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	99.9	73-124		%	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M15
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/20/18 2:08:29 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: GW-02
Sample Collection Date: 04/05/18

ARF: 85427
APPL ID: AZ71146
QCG: #8260-180411AM-228422

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-TETRACHLOROETHANE	Not detected	0.5	0.13	ug/L	04/11/18	04/11/18
EPA 8260B	1,1,1-TRICHLOROETHANE	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	Not detected	0.5	0.10	ug/L	04/11/18	04/11/18
EPA 8260B	1,1,2-TRICHLOROETHANE	Not detected	0.5	0.20	ug/L	04/11/18	04/11/18
EPA 8260B	1,1-DICHLOROETHANE	Not detected	1.0	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	1,1-DICHLOROETHENE	Not detected	0.5	0.30	ug/L	04/11/18	04/11/18
EPA 8260B	1,2-DICHLOROBENZENE	Not detected	0.5	0.17	ug/L	04/11/18	04/11/18
EPA 8260B	1,2-DICHLOROETHANE	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
EPA 8260B	1,2-DICHLOROPROPANE	Not detected	0.5	0.17	ug/L	04/11/18	04/11/18
EPA 8260B	1,3-DICHLOROBENZENE	Not detected	0.5	0.11	ug/L	04/11/18	04/11/18
EPA 8260B	1,4-DICHLOROBENZENE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	BENZENE	Not detected	0.5	0.16	ug/L	04/11/18	04/11/18
EPA 8260B	BROMOBENZENE	Not detected	0.5	0.16	ug/L	04/11/18	04/11/18
EPA 8260B	BROMODICHLOROMETHANE	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
EPA 8260B	BROMOFORM	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
EPA 8260B	BROMOMETHANE	2.3	1.0	0.24	ug/L	04/11/18	04/11/18
EPA 8260B	CARBON TETRACHLORIDE	Not detected	0.5	0.10	ug/L	04/11/18	04/11/18
EPA 8260B	CHLOROBENZENE	Not detected	0.5	0.21	ug/L	04/11/18	04/11/18
EPA 8260B	CHLOROETHANE	Not detected	0.5	0.21	ug/L	04/11/18	04/11/18
EPA 8260B	CHLOROFORM	Not detected	0.5	0.07	ug/L	04/11/18	04/11/18
EPA 8260B	CHLOROMETHANE	52	0.5	0.42	ug/L	04/11/18	04/11/18
EPA 8260B	CIS-1,2-DICHLOROETHENE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	CIS-1,3-DICHLOROPROPENE	Not detected	0.5	0.18	ug/L	04/11/18	04/11/18
EPA 8260B	DIBROMOCHLOROMETHANE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	DIBROMOMETHANE	Not detected	0.5	0.20	ug/L	04/11/18	04/11/18
EPA 8260B	DICHLORODIFLUOROMETHANE	Not detected	1.0	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	ETHYL BENZENE	Not detected	0.5	0.23	ug/L	04/11/18	04/11/18
EPA 8260B	FREON-113	Not detected	0.5	0.21	ug/L	04/11/18	04/11/18
EPA 8260B	METHYLENE CHLORIDE	Not detected	5.0	0.35	ug/L	04/11/18	04/11/18
EPA 8260B	MTBE	Not detected	0.5	0.26	ug/L	04/11/18	04/11/18
EPA 8260B	TETRACHLOROETHENE	Not detected	0.5	0.24	ug/L	04/11/18	04/11/18
EPA 8260B	TOLUENE	Not detected	0.5	0.17	ug/L	04/11/18	04/11/18
EPA 8260B	TRANS-1,2-DICHLOROETHENE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	TRANS-1,3-DICHLOROPROPENE	Not detected	0.5	0.18	ug/L	04/11/18	04/11/18
EPA 8260B	TRICHLOROETHENE	Not detected	0.5	0.16	ug/L	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M16
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/20/18 2:08:29 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline

Project: Mayor Wright

ARF: 85427

Sample ID: GW-02

APPL ID: AZ71146

Sample Collection Date: 04/05/18

QCG: #8260-180411AM-228422

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	TRICHLOROFLUOROMETHANE	Not detected	0.5	0.24	ug/L	04/11/18	04/11/18
EPA 8260B	VINYL CHLORIDE	Not detected	0.5	0.23	ug/L	04/11/18	04/11/18
EPA 8260B	XYLENES	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	SURROGATE: 1,2-DICHLOROETHAN	97.6	70-125		%	04/11/18	04/11/18
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	95.5	72-133		%	04/11/18	04/11/18
EPA 8260B	SURROGATE: DIBROMOFLUOROME	98.4	78-125		%	04/11/18	04/11/18
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	94.9	73-124		%	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M16
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/20/18 2:08:29 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline

Project: Mayor Wright

ARF: 85427

Sample ID: GW-03

APPL ID: AZ71147

Sample Collection Date: 04/06/18

QCG: #8260-180411AM-228422

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-TETRACHLOROETHANE	Not detected	0.5	0.13	ug/L	04/11/18	04/11/18
EPA 8260B	1,1,1-TRICHLOROETHANE	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	Not detected	0.5	0.10	ug/L	04/11/18	04/11/18
EPA 8260B	1,1,2-TRICHLOROETHANE	Not detected	0.5	0.20	ug/L	04/11/18	04/11/18
EPA 8260B	1,1-DICHLOROETHANE	Not detected	1.0	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	1,1-DICHLOROETHENE	Not detected	0.5	0.30	ug/L	04/11/18	04/11/18
EPA 8260B	1,2-DICHLOROBENZENE	Not detected	0.5	0.17	ug/L	04/11/18	04/11/18
EPA 8260B	1,2-DICHLOROETHANE	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
EPA 8260B	1,2-DICHLOROPROPANE	Not detected	0.5	0.17	ug/L	04/11/18	04/11/18
EPA 8260B	1,3-DICHLOROBENZENE	Not detected	0.5	0.11	ug/L	04/11/18	04/11/18
EPA 8260B	1,4-DICHLOROBENZENE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	BENZENE	Not detected	0.5	0.16	ug/L	04/11/18	04/11/18
EPA 8260B	BROMOBENZENE	Not detected	0.5	0.16	ug/L	04/11/18	04/11/18
EPA 8260B	BROMODICHLOROMETHANE	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
EPA 8260B	BROMOFORM	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
EPA 8260B	BROMOMETHANE	1.6	1.0	0.24	ug/L	04/11/18	04/11/18
EPA 8260B	CARBON TETRACHLORIDE	Not detected	0.5	0.10	ug/L	04/11/18	04/11/18
EPA 8260B	CHLOROBENZENE	Not detected	0.5	0.21	ug/L	04/11/18	04/11/18
EPA 8260B	CHLOROETHANE	Not detected	0.5	0.21	ug/L	04/11/18	04/11/18
EPA 8260B	CHLOROFORM	Not detected	0.5	0.07	ug/L	04/11/18	04/11/18
EPA 8260B	CHLOROMETHANE	47	0.5	0.42	ug/L	04/11/18	04/11/18
EPA 8260B	CIS-1,2-DICHLOROETHENE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	CIS-1,3-DICHLOROPROPENE	Not detected	0.5	0.18	ug/L	04/11/18	04/11/18
EPA 8260B	DIBROMOCHLOROMETHANE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	DIBROMOMETHANE	Not detected	0.5	0.20	ug/L	04/11/18	04/11/18
EPA 8260B	DICHLORODIFLUOROMETHANE	Not detected	1.0	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	ETHYL BENZENE	Not detected	0.5	0.23	ug/L	04/11/18	04/11/18
EPA 8260B	FREON-113	Not detected	0.5	0.21	ug/L	04/11/18	04/11/18
EPA 8260B	METHYLENE CHLORIDE	Not detected	5.0	0.35	ug/L	04/11/18	04/11/18
EPA 8260B	MTBE	Not detected	0.5	0.26	ug/L	04/11/18	04/11/18
EPA 8260B	TETRACHLOROETHENE	Not detected	0.5	0.24	ug/L	04/11/18	04/11/18
EPA 8260B	TOLUENE	Not detected	0.5	0.17	ug/L	04/11/18	04/11/18
EPA 8260B	TRANS-1,2-DICHLOROETHENE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	TRANS-1,3-DICHLOROPROPENE	Not detected	0.5	0.18	ug/L	04/11/18	04/11/18
EPA 8260B	TRICHLOROETHENE	Not detected	0.5	0.16	ug/L	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M17
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/20/18 2:08:29 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: GW-03
Sample Collection Date: 04/06/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85427
APPL ID: AZ71147
QCG: #8260-180411AM-228422

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	TRICHLOROFLUOROMETHANE	Not detected	0.5	0.24	ug/L	04/11/18	04/11/18
EPA 8260B	VINYL CHLORIDE	Not detected	0.5	0.23	ug/L	04/11/18	04/11/18
EPA 8260B	XYLENES	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
EPA 8260B	SURROGATE: 1,2-DICHLOROETHAN	96.1	70-125		%	04/11/18	04/11/18
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	96.7	72-133		%	04/11/18	04/11/18
EPA 8260B	SURROGATE: DIBROMOFLUOROME	96.2	78-125		%	04/11/18	04/11/18
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	98.1	73-124		%	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M17
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/20/18 2:08:29 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: WC-01
Sample Collection Date: 04/06/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85427
APPL ID: AZ71149
QCG: #8260S-180411AM-228427

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 42.2 Percent Moisture.)							
EPA 8260B-M	1,1,1,2-TETRACHLOROETHANE	Not detected	43.0	11.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,1-TRICHLOROETHANE	Not detected	43.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,2,2-TETRACHLOROETHANE	Not detected	43.0	23.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1,2-TRICHLOROETHANE	Not detected	43.0	17.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1-DICHLOROETHANE	Not detected	87.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,1-DICHLOROETHENE	Not detected	43.0	26.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROBENZENE	Not detected	43.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROETHANE	Not detected	43.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,2-DICHLOROPROPANE	Not detected	43.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,3-DICHLOROBENZENE	Not detected	43.0	9.50	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	1,4-DICHLOROBENZENE	Not detected	43.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BENZENE	Not detected	43.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOBENZENE	Not detected	43.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMODICHLOROMETHANE	Not detected	43.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOFORM	Not detected	43.0	12.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	BROMOMETHANE	Not detected	87.0	21.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CARBON TETRACHLORIDE	Not detected	43.0	8.70	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROBENZENE	Not detected	43.0	18.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROETHANE	Not detected	43.0	18.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROFORM	Not detected	43.0	14.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CHLOROMETHANE	Not detected	43.0	27.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CIS-1,2-DICHLOROETHENE	Not detected	43.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	CIS-1,3-DICHLOROPROPENE	Not detected	43.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DIBROMOCHLOROMETHANE	Not detected	43.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DIBROMOMETHANE	Not detected	43.0	17.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	DICHLORODIFLUOROMETHANE	Not detected	87.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	ETHYL BENZENE	Not detected	43.0	20.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	FREON-113	Not detected	43.0	18.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	METHYLENE CHLORIDE	Not detected	430.0	30.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	MTBE	Not detected	43.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TETRACHLOROETHENE	Not detected	43.0	13.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TOLUENE	Not detected	43.0	15.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRANS-1,2-DICHLOROETHENE	Not detected	43.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRANS-1,3-DICHLOROPROPENE	Not detected	43.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	TRICHLOROETHENE	Not detected	43.0	14.00	ug/Kg	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M19
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/20/18 2:09:29 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
ARF: 85427
Sample ID: WC-01
APPL ID: AZ71149
Sample Collection Date: 04/06/18
QCG: #8260S-180411AM-228427

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B-M	TRICHLOROFLUOROMETHANE	Not detected	43.0	21.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	VINYL CHLORIDE	Not detected	43.0	20.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	XYLENES	Not detected	43.0	16.00	ug/Kg	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 1,2-DICHLOROETHAN	95.1	70-125		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	98.1	72-133		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: DIBROMOFLUOROME	94.7	78-125		%	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: TOLUENE-D8 (S)	95.5	73-124		%	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M19
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/20/18 2:08:29 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B GRO WATER

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
ARF: 85427
Sample ID: GW-01
APPL ID: AZ71144
Sample Collection Date: 04/05/18
QCG: #GRO86-180411AM-228429

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	Not detected	20	8.6	ug/L	04/11/18	04/11/18
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	95.8	85-114		%	04/11/18	04/11/18

Quant Method: MGAS0111.M
Run #: 0411M14
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/20/18 2:13:43 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B GRO WATER

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: GW-11
Sample Collection Date: 04/05/18

ARF: 85427
APPL ID: AZ71145
QCG: #GRO86-180411AM-228429

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	Not detected	20	8.6	ug/L	04/11/18	04/11/18
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	97.9	85-114		%	04/11/18	04/11/18

Quant Method: MGAS0111.M
Run #: 0411M15
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/20/18 2:13:43 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B GRO WATER

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: GW-02
Sample Collection Date: 04/05/18

ARF: 85427
APPL ID: AZ71146
QCG: #GRO86-180411AM-228429

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	Not detected	20	8.6	ug/L	04/11/18	04/11/18
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	95.5	85-114		%	04/11/18	04/11/18

Quant Method: MGAS0111.M
Run #: 0411M16
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/20/18 2:13:43 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B GRO WATER

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: GW-03
Sample Collection Date: 04/06/18

ARF: 85427
APPL ID: AZ71147
QCG: #GRO86-180411AM-228429

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	Not detected	20	8.6	ug/L	04/11/18	04/11/18
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	96.7	85-114		%	04/11/18	04/11/18

Quant Method: MGAS0111.M
Run #: 0411M17
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/20/18 2:13:43 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B GRO WATER

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline
Project: Mayor Wright
Sample ID: GW-13
Sample Collection Date: 04/06/18

ARF: 85427
APPL ID: AZ71148
QCG: #GRO86-180411AM-228429

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	Not detected	20	8.6	ug/L	04/11/18	04/11/18
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	98.2	85-114		%	04/11/18	04/11/18

Quant Method: MGAS0111.M
Run #: 0411M18
Instrument: Max
Sequence: M180410A
Dilution Factor: 1
Initials: SV

Printed: 04/20/18 2:13:43 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B MEOH SOIL -GRO

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: WC-01
Sample Collection Date: 04/06/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85427
APPL ID: AZ71149
QCG: #GRO86-180411AM1-22843

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
(Solid Concentrations and Limits have been adjusted to reflect 42.2 Percent Moisture.)							
EPA 8260B-M	GASOLINE	Not detected	1.700	0.5300	mg/Kg	04/11/18	04/11/18
EPA 8260B-M	SURROGATE: 4-BROMOFLUOROBEN	98.1	79-119		%	04/11/18	04/11/18

Quant Method: MGAS0111.M
Run #: 0411M19
Instrument: Max
Sequence: M180410A
Dilution Factor: 50
Initials: SV

Printed: 04/20/18 2:13:43 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

Metals Results

ARF: 85427

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Christine Kline

Method	Analyte	Result	RL	MDL	Units	DF	Prep Date	Analysis Date
APPL ID: AZ71146 -Client Sample ID: GW-02			-Sample Collection Date: 04/05/18				Project: Mayor Wright	
6010B	LEAD (PB)	Not detected	5.0	1.58	ug/L	1	04/17/18	04/19/18
APPL ID: AZ71149 -Client Sample ID: WC-01			-Sample Collection Date: 04/06/18				Project: Mayor Wright	
(Solid Concentrations and Limits have been adjusted to reflect 42.2 Percent Moisture.)								
6010B	ARSENIC (AS)	45.7	0.9	0.16	mg/kg	1	04/12/18	04/14/18
6010B	BARIUM (BA)	981	0.9	0.09	mg/kg	1	04/12/18	04/14/18
6010B	CADMIUM (CD)	1.9	0.9	0.05	mg/kg	1	04/12/18	04/14/18
6010B	CHROMIUM (CR)	108	0.9	0.05	mg/kg	1	04/12/18	04/14/18
6010B	LEAD (PB)	23.0	0.9	0.16	mg/kg	1	04/12/18	04/14/18
6010B	SELENIUM (SE)	2.9	0.9	0.42	mg/kg	1	04/12/18	04/14/18
6010B	SILVER (AG)	Not detected	0.2	0.07	mg/kg	1	04/12/18	04/14/18
7471A	MERCURY	0.069 J	0.9	0.04	mg/Kg	1	04/12/18	04/12/18

J = Estimated value.

Printed: 04/20/18 10:26:15 AM
PL-F1-SC-MCRes/MCPQL-REG MDLs

Wetlab Results

ARF: 85427

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date
APPL ID: AZ71149 -Client Sample ID: WC-01 -Sample Collection Date: 04/06/18 Project: Mayor Wright							
CLP MOIST	MOISTURE	42.2	2.0		%	04/09/18	04/10/18

Printed: 04/17/18 5:34:52 PM

Method Blank
EPA 8015B TPH

Blank Name/QCG: **180409W-71144 - 228485**
Batch ID: #TPHDR-180409B

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	DIESEL FUEL	Not detected	50.0	40.40	ug/L	04/09/18	04/11/18
BLANK	MINERAL SPIRITS	Not detected	500	106.0	ug/L	04/09/18	04/11/18
BLANK	RESIDUAL RANGE ORGANICS	Not detected	500	106.0	ug/L	04/09/18	04/11/18
BLANK	SURROGATE: OCTACOSANE (S)	85.2	28-142		%	04/09/18	04/11/18
BLANK	SURROGATE: ORTHO-TERPHENYL (	79.4	45-145		%	04/09/18	04/11/18

Quant Method: TPHD0321.M
Run #: 411023
Instrument: Apollo
Sequence: 180411
Initials: DPO

GC SC-Blank-REG MDLs
Printed: 04/13/18 11:14:48 AM

Method Blank
EPA 8015 SOIL

Blank Name/QCG: **180412S-71149 - 228459**
Batch ID: #TPHDR-180412A

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	DIESEL FUEL	Not detected	1.00	0.600	mg/kg	04/12/18	04/12/18
BLANK	RESIDUAL RANGE ORGANICS	Not detected	10.0	3.51	mg/kg	04/12/18	04/12/18
BLANK	SURROGATE: OCTACOSANE (S)	99.4	47-140		%	04/12/18	04/12/18
BLANK	SURROGATE: ORTHO-TERPHENYL (	100	58-128		%	04/12/18	04/12/18

Quant Method:TPHD0321.M
Run #:411063
Instrument:Apollo
Sequence:180411
Initials:DPO

GC SC-Blank-REG MDLs
Printed: 04/12/18 5:04:22 PM

Laboratory Control Spike Recovery
EPA 8015B TPH

APPL ID: **180409W-71144 LCS - 228485**
Batch ID: #TPHDR-180409B

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
DIESEL FUEL	2000	1710	85.5	61-143
RESIDUAL RANGE ORGANICS	2000	1470	73.5	40-140
SURROGATE: OCTACOSANE (S)	150	194	129	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	154	103	45-145

Comments:

Primary	SPK
Quant Method :	TPHD0321.M
Extraction Date :	04/09/18
Analysis Date :	04/18/18
Instrument :	Apollo
Run :	411207
Initials :	DPO

Printed: 04/18/18 12:30:08 PM
APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8015 SOIL

APPL ID: **180412S-71149 LCS - 228459**
Batch ID: #TPHDR-180412A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits
DIESEL FUEL	40.0	35.7	89.3	64-122
RESIDUAL RANGE ORGANICS	40.0	38.9	97.3	60-120
SURROGATE: OCTACOSANE (S)	3.00	3.32	111	47-140
SURROGATE: ORTHO-TERPHENYL (S)	3.00	2.94	98.0	58-128

Comments: _____

Primary	SPK
Quant Method :	TPHD0321.M
Extraction Date :	04/12/18
Analysis Date :	04/12/18
Instrument :	Apollo
Run :	411064
Initials :	DPO

Printed: 04/12/18 5:04:18 PM
APPL Standard LCS

Method Blank
EPA 8082 SOIL

Blank Name/QCG: **180412S-71149 - 228595**
Batch ID: #80PS-180412A

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	PCB-1016	Not detected	330	9.8	ug/Kg	04/12/18	04/13/18
BLANK	PCB-1221	Not detected	330	5.5	ug/Kg	04/12/18	04/13/18
BLANK	PCB-1232	Not detected	330	4.0	ug/Kg	04/12/18	04/13/18
BLANK	PCB-1242	Not detected	330	2.6	ug/Kg	04/12/18	04/13/18
BLANK	PCB-1248	Not detected	330	1.4	ug/Kg	04/12/18	04/13/18
BLANK	PCB-1254	Not detected	330	1.6	ug/Kg	04/12/18	04/13/18
BLANK	PCB-1260	Not detected	330	3.6	ug/Kg	04/12/18	04/13/18
BLANK	SURROGATE: DECACHLOROBIPHEN	96.1	44-147		%	04/12/18	04/13/18
BLANK	SURROGATE: TCMX (S)	75.7	25-147		%	04/12/18	04/13/18

Quant Method:PCB0208.M
Run #:0322169
Instrument:Lucy
Sequence:180322
Initials:DPO

GC SC-Blank-REG MDLs
Printed: 04/17/18 9:55:10 AM

Laboratory Control Spike Recovery
EPA 8082 SOIL

APPL ID: **180412S-71149 LCS - 228595**
Batch ID: #80PS-180412A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/Kg	SPK Result ug/Kg	SPK % Recovery	Recovery Limits
PCB-1016	417	413	99.0	29-154
PCB-1260	417	447	107	27-156
SURROGATE: DECACHLOROBIPHENYL	333	328	98.5	44-147
SURROGATE: TCMX (S)	333	247	74.2	25-147

Comments:

Primary	SPK
Quant Method :	PCB0208.M
Extraction Date :	04/12/18
Analysis Date :	04/13/18
Instrument :	Lucy
Run :	0322170
Initials :	DPO

Printed: 04/17/18 9:55:06 AM
APPL Standard LCS

Method Blank
EPA 8260B

Blank Name/QCG: **180411W-71144 - 228422**
Batch ID: #8260-180411AM

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	1,1,1,2-TETRACHLOROETHANE	Not detected	0.5	0.13	ug/L	04/11/18	04/11/18
BLANK	1,1,1-TRICHLOROETHANE	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
BLANK	1,1,2,2-TETRACHLOROETHANE	Not detected	0.5	0.10	ug/L	04/11/18	04/11/18
BLANK	1,1,2-TRICHLOROETHANE	Not detected	0.5	0.20	ug/L	04/11/18	04/11/18
BLANK	1,1-DICHLOROETHANE	Not detected	1.0	0.19	ug/L	04/11/18	04/11/18
BLANK	1,1-DICHLOROETHENE	Not detected	0.5	0.30	ug/L	04/11/18	04/11/18
BLANK	1,2-DICHLOROBENZENE	Not detected	0.5	0.17	ug/L	04/11/18	04/11/18
BLANK	1,2-DICHLOROETHANE	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
BLANK	1,2-DICHLOROPROPANE	Not detected	0.5	0.17	ug/L	04/11/18	04/11/18
BLANK	1,3-DICHLOROBENZENE	Not detected	0.5	0.11	ug/L	04/11/18	04/11/18
BLANK	1,4-DICHLOROBENZENE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
BLANK	BENZENE	Not detected	0.5	0.16	ug/L	04/11/18	04/11/18
BLANK	BROMOBENZENE	Not detected	0.5	0.16	ug/L	04/11/18	04/11/18
BLANK	BROMODICHLOROMETHANE	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
BLANK	BROMOFORM	Not detected	0.5	0.14	ug/L	04/11/18	04/11/18
BLANK	BROMOMETHANE	Not detected	1.0	0.24	ug/L	04/11/18	04/11/18
BLANK	CARBON TETRACHLORIDE	Not detected	0.5	0.10	ug/L	04/11/18	04/11/18
BLANK	CHLOROBENZENE	Not detected	0.5	0.21	ug/L	04/11/18	04/11/18
BLANK	CHLOROETHANE	Not detected	0.5	0.21	ug/L	04/11/18	04/11/18
BLANK	CHLOROFORM	Not detected	0.5	0.07	ug/L	04/11/18	04/11/18
BLANK	CHLOROMETHANE	Not detected	0.5	0.42	ug/L	04/11/18	04/11/18
BLANK	CIS-1,2-DICHLOROETHENE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
BLANK	CIS-1,3-DICHLOROPROPENE	Not detected	0.5	0.18	ug/L	04/11/18	04/11/18
BLANK	DIBROMOCHLOROMETHANE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
BLANK	DIBROMOMETHANE	Not detected	0.5	0.20	ug/L	04/11/18	04/11/18
BLANK	DICHLORODIFLUOROMETHANE	Not detected	1.0	0.19	ug/L	04/11/18	04/11/18
BLANK	ETHYL BENZENE	Not detected	0.5	0.23	ug/L	04/11/18	04/11/18
BLANK	FREON-113	Not detected	0.5	0.21	ug/L	04/11/18	04/11/18
BLANK	METHYLENE CHLORIDE	Not detected	5.0	0.35	ug/L	04/11/18	04/11/18
BLANK	MTBE	Not detected	0.5	0.26	ug/L	04/11/18	04/11/18
BLANK	TETRACHLOROETHENE	Not detected	0.5	0.24	ug/L	04/11/18	04/11/18
BLANK	TOLUENE	Not detected	0.5	0.17	ug/L	04/11/18	04/11/18
BLANK	TRANS-1,2-DICHLOROETHENE	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
BLANK	TRANS-1,3-DICHLOROPROPENE	Not detected	0.5	0.18	ug/L	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M13
Instrument: Max
Sequence: M180410A
Initials: SV

GC SC-Blank-REG MDLs
Printed: 04/20/18 2:08:21 PM

Method Blank
EPA 8260B

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **180411W-71144 - 228422**
Batch ID: #8260-180411AM

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	TRICHLOROETHENE	Not detected	0.5	0.16	ug/L	04/11/18	04/11/18
BLANK	TRICHLOROFLUOROMETHANE	Not detected	0.5	0.24	ug/L	04/11/18	04/11/18
BLANK	VINYL CHLORIDE	Not detected	0.5	0.23	ug/L	04/11/18	04/11/18
BLANK	XYLENES	Not detected	0.5	0.19	ug/L	04/11/18	04/11/18
BLANK	SURROGATE: 1,2-DICHLOROETHAN	101	70-125		%	04/11/18	04/11/18
BLANK	SURROGATE: 4-BROMOFLUOROBEN	100	72-133		%	04/11/18	04/11/18
BLANK	SURROGATE: DIBROMOFLUOROMET	102	78-125		%	04/11/18	04/11/18
BLANK	SURROGATE: TOLUENE-D8 (S)	101	73-124		%	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M13
Instrument: Max
Sequence: M180410A
Initials: SV

GC SC-Blank-REG MDLs
Printed: 04/20/18 2:08:21 PM

Method Blank
EPA 8260B MEOH

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **180411S-71110 - 228427**
Batch ID: #8260S-180411AM

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	1,1,1,2-TETRACHLOROETHANE	Not detected	25.0	6.50	ug/Kg	04/11/18	04/11/18
BLANK	1,1,1-TRICHLOROETHANE	Not detected	25.0	7.00	ug/Kg	04/11/18	04/11/18
BLANK	1,1,2,2-TETRACHLOROETHANE	Not detected	25.0	13.50	ug/Kg	04/11/18	04/11/18
BLANK	1,1,2-TRICHLOROETHANE	Not detected	25.0	10.00	ug/Kg	04/11/18	04/11/18
BLANK	1,1-DICHLOROETHANE	Not detected	50.0	9.50	ug/Kg	04/11/18	04/11/18
BLANK	1,1-DICHLOROETHENE	Not detected	25.0	15.00	ug/Kg	04/11/18	04/11/18
BLANK	1,2-DICHLOROBENZENE	Not detected	25.0	8.50	ug/Kg	04/11/18	04/11/18
BLANK	1,2-DICHLOROETHANE	Not detected	25.0	7.00	ug/Kg	04/11/18	04/11/18
BLANK	1,2-DICHLOROPROPANE	Not detected	25.0	8.50	ug/Kg	04/11/18	04/11/18
BLANK	1,3-DICHLOROBENZENE	Not detected	25.0	5.50	ug/Kg	04/11/18	04/11/18
BLANK	1,4-DICHLOROBENZENE	Not detected	25.0	9.50	ug/Kg	04/11/18	04/11/18
BLANK	BENZENE	Not detected	25.0	8.00	ug/Kg	04/11/18	04/11/18
BLANK	BROMOBENZENE	Not detected	25.0	8.00	ug/Kg	04/11/18	04/11/18
BLANK	BROMODICHLOROMETHANE	Not detected	25.0	7.00	ug/Kg	04/11/18	04/11/18
BLANK	BROMOFORM	Not detected	25.0	7.00	ug/Kg	04/11/18	04/11/18
BLANK	BROMOMETHANE	Not detected	50.0	12.00	ug/Kg	04/11/18	04/11/18
BLANK	CARBON TETRACHLORIDE	Not detected	25.0	5.00	ug/Kg	04/11/18	04/11/18
BLANK	CHLOROBENZENE	Not detected	25.0	10.50	ug/Kg	04/11/18	04/11/18
BLANK	CHLOROETHANE	Not detected	25.0	10.50	ug/Kg	04/11/18	04/11/18
BLANK	CHLOROFORM	Not detected	25.0	8.00	ug/Kg	04/11/18	04/11/18
BLANK	CHLOROMETHANE	Not detected	25.0	15.50	ug/Kg	04/11/18	04/11/18
BLANK	CIS-1,2-DICHLOROETHENE	Not detected	25.0	9.50	ug/Kg	04/11/18	04/11/18
BLANK	CIS-1,3-DICHLOROPROPENE	Not detected	25.0	9.00	ug/Kg	04/11/18	04/11/18
BLANK	DIBROMOCHLOROMETHANE	Not detected	25.0	9.50	ug/Kg	04/11/18	04/11/18
BLANK	DIBROMOMETHANE	Not detected	25.0	10.00	ug/Kg	04/11/18	04/11/18
BLANK	DICHLORODIFLUOROMETHANE	Not detected	50.0	9.50	ug/Kg	04/11/18	04/11/18
BLANK	ETHYL BENZENE	Not detected	25.0	11.50	ug/Kg	04/11/18	04/11/18
BLANK	FREON-113	Not detected	25.0	10.50	ug/Kg	04/11/18	04/11/18
BLANK	METHYLENE CHLORIDE	Not detected	250.0	17.50	ug/Kg	04/11/18	04/11/18
BLANK	MTBE	Not detected	25.0	9.50	ug/Kg	04/11/18	04/11/18
BLANK	TETRACHLOROETHENE	Not detected	25.0	7.50	ug/Kg	04/11/18	04/11/18
BLANK	TOLUENE	Not detected	25.0	8.50	ug/Kg	04/11/18	04/11/18
BLANK	TRANS-1,2-DICHLOROETHENE	Not detected	25.0	9.50	ug/Kg	04/11/18	04/11/18
BLANK	TRANS-1,3-DICHLOROPROPENE	Not detected	25.0	9.00	ug/Kg	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M12
Instrument: Max
Sequence: M180410A
Initials: SV

GC SC-Blank-REG MDLs
Printed: 04/20/18 2:08:21 PM

Method Blank
EPA 8260B MEOH

Blank Name/QCG: **180411S-71110 - 228427**
Batch ID: #8260S-180411AM

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	TRICHLOROETHENE	Not detected	25.0	8.00	ug/Kg	04/11/18	04/11/18
BLANK	TRICHLOROFLUOROMETHANE	Not detected	25.0	12.00	ug/Kg	04/11/18	04/11/18
BLANK	VINYL CHLORIDE	Not detected	25.0	11.50	ug/Kg	04/11/18	04/11/18
BLANK	XYLENES	Not detected	25.0	9.50	ug/Kg	04/11/18	04/11/18
BLANK	SURROGATE: 1,2-DICHLOROETHAN	96.3	70-125		%	04/11/18	04/11/18
BLANK	SURROGATE: 4-BROMOFLUOROBEN	97.9	72-133		%	04/11/18	04/11/18
BLANK	SURROGATE: DIBROMOFLUOROMET	99.7	78-125		%	04/11/18	04/11/18
BLANK	SURROGATE: TOLUENE-D8 (S)	98.2	73-124		%	04/11/18	04/11/18

Quant Method: MALLW.M
Run #: 0411M12
Instrument: Max
Sequence: M180410A
Initials: SV

GC SC-Blank-REG MDLs
Printed: 04/20/18 2:08:21 PM

Laboratory Control Spike Recovery
EPA 8260B

APPL ID: **180411W-71144 LCS - 228422**
Batch ID: #8260-180411AM

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	10.3	103	73-124
1,1,1-TRICHLOROETHANE	10.00	10.0	100	67-125
1,1,2,2-TETRACHLOROETHANE	10.00	10.1	101	71-127
1,1,2-TRICHLOROETHANE	10.00	9.80	98.0	74-121
1,1-DICHLOROETHANE	10.00	9.86	98.6	62-132
1,1-DICHLOROETHENE	10.00	10.3	103	70-125
1,2-DICHLOROBENZENE	10.00	10.2	102	70-129
1,2-DICHLOROETHANE	10.00	9.89	98.9	68-123
1,2-DICHLOROPROPANE	10.00	9.99	99.9	77-125
1,3-DICHLOROBENZENE	10.00	10.2	102	69-129
1,4-DICHLOROBENZENE	10.00	9.94	99.4	71-126
BENZENE	10.00	9.96	99.6	68-124
BROMOBENZENE	10.00	10.0	100	65-130
BROMODICHLOROMETHANE	10.00	10.1	101	69-124
BROMOFORM	10.00	10.1	101	67-125
BROMOMETHANE	10.00	13.0	130	71-131
CARBON TETRACHLORIDE	10.00	10.5	105	70-122
CHLOROBENZENE	10.00	10.2	102	72-125
CHLOROETHANE	10.00	9.58	95.8	78-125
CHLOROFORM	10.00	10.1	101	69-122
CHLOROMETHANE	10.00	9.72	97.2	71-124
CIS-1,2-DICHLOROETHENE	10.00	10.2	102	72-123
CIS-1,3-DICHLOROPROPENE	10.00	9.84	98.4	70-125
DIBROMOCHLOROMETHANE	10.00	9.80	98.0	70-125
DIBROMOMETHANE	10.00	10.3	103	66-126
DICHLORODIFLUOROMETHANE	10.00	10.7	107	68-131
ETHYL BENZENE	10.00	10.3	103	70-123
FREON-113	10.00	10.5	105	74-138
METHYLENE CHLORIDE	10.00	10.2	102	78-118
MTBE	10.00	9.72	97.2	72-125
TETRACHLOROETHENE	10.00	10.7	107	82-136

Comments: _____

Primary	SPK
Quant Method :	MALLW.M
Extraction Date :	04/11/18
Analysis Date :	04/11/18
Instrument :	Max
Run :	0411M03
Initials :	SV

Printed: 04/20/18 2:08:26 PM
APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B

APPL ID: **180411W-71144 LCS - 228422**
Batch ID: #8260-180411AM

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
TOLUENE	10.00	10.0	100	69-122
TRANS-1,2-DICHLOROETHENE	10.00	10.1	101	68-126
TRANS-1,3-DICHLOROPROPENE	10.00	9.97	99.7	62-127
TRICHLOROETHENE	10.00	9.87	98.7	70-128
TRICHLOROFLUOROMETHANE	10.00	10.5	105	66-132
VINYL CHLORIDE	10.00	10.5	105	79-138
SURROGATE: 1,2-DICHLOROETHANE-D	25.0	25.3	101	70-125
SURROGATE: 4-BROMOFLUOROBENZE	25.0	25.1	100	72-133
SURROGATE: DIBROMOFLUOROMETH	25.0	24.8	99.2	78-125
SURROGATE: TOLUENE-D8 (S)	25.0	25.1	100	73-124

Comments:

Primary	SPK
Quant Method :	MALLW.M
Extraction Date :	04/11/18
Analysis Date :	04/11/18
Instrument :	Max
Run :	0411M03
Initials :	SV

Printed: 04/20/18 2:08:26 PM
APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B MEOH

APPL ID: **180411S-71110 LCS - 228427**
Batch ID: #8260S-180411AM

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/Kg	SPK Result ug/Kg	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	500	538	108	73-124
1,1,1-TRICHLOROETHANE	500	523	105	67-125
1,1,2,2-TETRACHLOROETHANE	500	507	101	71-127
1,1,2-TRICHLOROETHANE	500	517	103	74-121
1,1-DICHLOROETHANE	500	518	104	62-132
1,1-DICHLOROETHENE	500	532	106	70-125
1,2-DICHLOROBENZENE	500	527	105	70-129
1,2-DICHLOROETHANE	500	515	103	68-123
1,2-DICHLOROPROPANE	500	521	104	77-125
1,3-DICHLOROBENZENE	500	521	104	69-129
1,4-DICHLOROBENZENE	500	501	100	71-126
BENZENE	500	519	104	68-124
BROMOBENZENE	500	512	102	65-130
BROMODICHLOROMETHANE	500	535	107	69-124
BROMOFORM	500	534	107	67-125
BROMOMETHANE	500	579	116	71-131
CARBON TETRACHLORIDE	500	536	107	70-122
CHLOROBENZENE	500	533	107	72-125
CHLOROETHANE	500	500	100	78-125
CHLOROFORM	500	537	107	69-122
CHLOROMETHANE	500	481	96.2	71-124
CIS-1,2-DICHLOROETHENE	500	516	103	72-123
CIS-1,3-DICHLOROPROPENE	500	526	105	70-125
DIBROMOCHLOROMETHANE	500	525	105	70-125
DIBROMOMETHANE	500	522	104	66-126
DICHLORODIFLUOROMETHANE	500	558	112	68-131
ETHYL BENZENE	500	537	107	70-123
FREON-113	500	541	108	74-138
METHYLENE CHLORIDE	500	527	105	78-118
MTBE	500	531	106	72-125
TETRACHLOROETHENE	500	564	113	62-136

Comments:

Primary	SPK
Quant Method :	MALLW.M
Extraction Date :	04/11/18
Analysis Date :	04/11/18
Instrument :	Max
Run :	0411M04
Initials :	SV

Printed: 04/20/18 2:08:26 PM
APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B MEOH

APPL ID: **180411S-71110 LCS - 228427**
Batch ID: #8260S-180411AM

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/Kg	SPK Result ug/Kg	SPK % Recovery	Recovery Limits
TOLUENE	500	532	106	69-122
TRANS-1,2-DICHLOROETHENE	500	550	110	68-126
TRANS-1,3-DICHLOROPROPENE	500	526	105	62-127
TRICHLOROETHENE	500	530	106	70-128
TRICHLOROFLUOROMETHANE	500	543	109	66-132
VINYL CHLORIDE	500	542	108	79-138
XYLENES	1500	1630	109	73-145
SURROGATE: 1,2-DICHLOROETHANE-D	25.0	25.5	102	70-125
SURROGATE: 4-BROMOFLUOROBENZE	25.0	24.7	98.8	72-133
SURROGATE: DIBROMOFLUOROMETH	25.0	25.3	101	78-125
SURROGATE: TOLUENE-D8 (S)	25.0	24.9	99.6	73-124

Comments: _____

Primary	SPK
Quant Method :	MALLW.M
Extraction Date :	04/11/18
Analysis Date :	04/11/18
Instrument :	Max
Run :	0411M04
Initials :	SV

Printed: 04/20/18 2:08:26 PM
APPL Standard LCS

Method Blank
EPA 8260B GRO WATER

Blank Name/QCG: **180411W-71144 - 228429**
Batch ID: #GRO86-180411AM

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE RANGE ORGANICS	Not detected	20	8.6	ug/L	04/11/18	04/11/18
BLANK	SURROGATE: 4-BROMOFLUOROBEN	100	85-114		%	04/11/18	04/11/18

Quant Method: MGAS0111.M
Run #: 0411M13
Instrument: Max
Sequence: M180410A
Initials: SV

GC SC-Blank-REG MDLs
Printed: 04/20/18 2:13:35 PM

Method Blank
EPA 8260B MEOH SOIL -GRO

Blank Name/QCG: **180411S-71109 - 228430**
Batch ID: #GRO86-180411AM1

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE	Not detected	1.000	0.3030	mg/Kg	04/11/18	04/11/18
BLANK	SURROGATE: 4-BROMOFLUOROBEN	97.9	79-119		%	04/11/18	04/11/18

Quant Method: MGAS0111.M
Run #: 0411M12
Instrument: Max
Sequence: M180410A
Initials: SV

GC SC-Blank-REG MDLs
Printed: 04/20/18 2:13:35 PM

Laboratory Control Spike Recovery
EPA 8260B GRO WATER

APPL ID: **180411W-71144 LCS - 228429**
Batch ID: #GRO86-180411AM

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
GASOLINE RANGE ORGANICS	300	278	92.7	78-122
SURROGATE: 4-BROMOFLUOROBENZE	25.0	24.6	98.4	85-114

Comments:

Primary	SPK
Quant Method :	MGAS0111.M
Extraction Date :	04/11/18
Analysis Date :	04/11/18
Instrument :	Max
Run :	0411M06
Initials :	SV

Printed: 04/20/18 2:13:40 PM
APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B MEOH SOIL -GRO

APPL ID: **180411S-71109 LCS - 228430**
Batch ID: #GRO86-180411AM1

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level mg/Kg	SPK Result mg/Kg	SPK % Recovery	Recovery Limits
GASOLINE	15.0	14.1	94.0	79-122
SURROGATE: 4-BROMOFLUOROBENZE	0.025	0.0238	95.2	79-119

Comments:

Primary	SPK
Quant Method :	MGAS0111.M
Extraction Date :	04/11/18
Analysis Date :	04/11/18
Instrument :	Max
Run :	0411M07
Initials :	SV

Printed: 04/20/18 2:13:40 PM
APPL Standard LCS

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	Not detected	5.0	1.58	ug/L	04/17/18	04/18/18	#MTL1-180417A-AZ71146
7471A	MERCURY	Not detected	0.5	0.02	mg/Kg	04/12/18	04/12/18	#HGS-180412A1-AZ71149
6010B	ARSENIC (AS)	Not detected	0.5	0.09	mg/kg	04/12/18	04/14/18	#MTL3-180412A-AZ71149
6010B	BARIUM (BA)	0.078 J	0.5	0.05	mg/kg	04/12/18	04/14/18	#MTL3-180412A-AZ71149
6010B	CADMIUM (CD)	Not detected	0.5	0.03	mg/kg	04/12/18	04/14/18	#MTL3-180412A-AZ71149
6010B	CHROMIUM (CR)	0.046 J	0.5	0.03	mg/kg	04/12/18	04/14/18	#MTL3-180412A-AZ71149
6010B	LEAD (PB)	Not detected	0.5	0.09	mg/kg	04/12/18	04/14/18	#MTL3-180412A-AZ71149
6010B	SELENIUM (SE)	Not detected	0.5	0.24	mg/kg	04/12/18	04/14/18	#MTL3-180412A-AZ71149
6010B	SILVER (AG)	Not detected	0.1	0.04	mg/kg	04/12/18	04/14/18	#MTL3-180412A-AZ71149

J = Estimated value.

Metals SC-Blank-REG MDLs
Printed: 04/20/18 10:26:06 AM

Laboratory Control Spike Recoveries
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 6010B	LEAD (PB)	250	244	237	97.6	94.8	2.9	20	80-120	04/17/18	04/18/18	04/17/18	04/18/18	#MTL1-180417A-AZ71146

Comments:

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	ARSENIC (AS)	25.0	22.4	89.6	80-120	04/12/18	04/14/18	#MTL3-180412A-AZ71149
EPA 6010B	BARIUM (BA)	25.0	24.1	96.4	80-120	04/12/18	04/14/18	#MTL3-180412A-AZ71149
EPA 6010B	CADMIUM (CD)	5.00	4.9	98.0	80-120	04/12/18	04/14/18	#MTL3-180412A-AZ71149
EPA 6010B	CHROMIUM (CR)	25.0	24.6	98.4	80-120	04/12/18	04/14/18	#MTL3-180412A-AZ71149
EPA 6010B	LEAD (PB)	25.0	24.2	96.8	80-120	04/12/18	04/14/18	#MTL3-180412A-AZ71149
EPA 6010B	SELENIUM (SE)	25.0	21.6	86.4	80-120	04/12/18	04/14/18	#MTL3-180412A-AZ71149
EPA 6010B	SILVER (AG)	10.00	8.9	89.0	80-120	04/12/18	04/14/18	#MTL3-180412A-AZ71149
EPA 7471A	MERCURY	0.67	0.68	101	80-120	04/12/18	04/12/18	#HGS-180412A1-AZ71149

Comments:

85427 1.3°C

APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
www.applinc.com

Phone: (559) 275-2175
Fax: (559) 275-4422
coc@applinc.com

CHAIN OF CUSTODY RECORD

C.O.C. 60204

Report to: PLEASE PRINT
Company Name: WESTON SOLUTIONS Phone: 808 285 9959
Address: 841 Bishop Suite 2301 Fax:
Attn: Christine Kline
Email: Christine.Kline@WESTONSOLUTIONS.COM

Invoice to: PLEASE PRINT
Company Name: SAME Phone:
Address: Fax:
Attn:
Email:

Project Name/Number: MAYOR WRIGHT
Purchase Order Number:
Sampler (Print): Christine Kline
Sampler (Signature):

Date Shipped: 4-6-18
Carrier:
Waybill No.:
Comments:

Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Matrix: Aq	Sed.	Soil	VOCs	TPH-G	TPH-D	TPH-R	Mineral Spirits	Lead
GW-01	MAYOR WRIGHT	4-5-18	1303	H1	6	X			X	X	X	X	X	
GW-11	" "	"	1335	"	6	X			X	X	X	X	X	
GW-02	" "	"	1459	"	7	X			X	X	X	X	X	X
GW-03	" "	4-6-18	0854	"	6				X	X	X	X	X	
GW-13	" "	"	1215	"	3					X	X	X	X	

Shuttle Temperature:

Turnaround Requested: Check one:
☒ Standard 2-3 wk ☐ One week ☐ 3 days ☐ 24/48 Hrs. ☐ Other:
10 days

Sample Disposal:
☐ Return to client ☒ Disposal by Lab (30-day retention)

Relinquished by sampler:	Date: 4/6/18	Time: 1300	Received by:	Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by: Maya Cats 4/7/18 1:00PM

White: Return to client with report Yellow: Laboratory Copy See reverse side for Container Preservative and Sampling Information

APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
www.applinc.com

Phone: (559) 275-2175
Fax: (559) 275-4422
coc@applinc.com

CHAIN OF CUSTODY RECORD

C.O.C. 60205

Report to: PLEASE PRINT
Company Name: WESTON SOLUTIONS Phone: 808 2859959
Address: 841 Bishop St Suite 2301 Fax:
Attn: Christine Kline
Email: Christine.Kline@westonsolutions.com

Invoice to: PLEASE PRINT
Company Name: SAME Phone:
Address: Fax:
Attn:
Email:

Project Name/Number: MAYOR WRIGHT
Purchase Order Number:
Sampler (Print): Christine Kline
Sampler (Signature):

Date Shipped: 4-6-18
Carrier: Fedex
Waybill No.:
Comments:

Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Matrix: Aq	Sed.	Soil	TPH-G	TPH-D	TPH-R	MBTEX	TCL PAHs & METALS	PCBs	Pesticides
WC-01	MAYOR WRIGHT	4-6-18	1120	H1	4			X	X	X	X	X	X	X	

Shuttle Temperature:

Turnaround Requested: Check one
☐ Standard 2-3 wk ☐ One week ☐ 3 days ☐ 24/48 Hrs ☐ Other:

Sample Disposal:
☐ Return to client ☐ Disposal by Lab (30-day retention)

Relinquished by sampler:	Date: 4/6/18	Time: 1120	Received by:	Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by: Maya Cats 4/7/18 1:00PM

White: Return to client with report Yellow: Laboratory Copy See reverse side for Container Preservative and Sampling Information

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

Certification Number: CA1312 WW & DW)
NELAP Certification number: CA00046 (HW)

June 13, 2018

Weston Solutions
841 Bishop Street, Suite 2301
Honolulu, Hawaii 96813

Attn: Christine Kline

Subject: Report of Data: 85903

Results in this report apply to the sample analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dear Ms. Kline:

One water sample for the "Mayor Wright" project was received May 26, 2018, at 3.0°C. Written results are being provided on this June 13, 2018, for the requested analysis. All holding times were met.

For the EPA 8260B analysis, the sample was purged according to EPA method 5030B.

No unusual problem or complication was encountered with this sample set.

If you have any questions or require further information, please contact us at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

for PM

Paula McCartney, Laboratory Director
APPL, Inc.

PM/rp
Enclosure
cc: File

Number of pages in this report ____

EPA 8260B

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline
Project: Mayor Wright
Sample ID: GW-01-2
Sample Collection Date: 05/25/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85903
APPL ID: AZ74103
QCG: #8260-180530AL-230364

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-TETRACHLOROETHANE	Not detected	0.5	0.13	ug/L	05/31/18	05/31/18
EPA 8260B	1,1,1-TRICHLOROETHANE	Not detected	0.5	0.14	ug/L	05/31/18	05/31/18
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	Not detected	0.5	0.10	ug/L	05/31/18	05/31/18
EPA 8260B	1,1,2-TRICHLOROETHANE	Not detected	0.5	0.20	ug/L	05/31/18	05/31/18
EPA 8260B	1,1-DICHLOROETHANE	Not detected	1.0	0.15	ug/L	05/31/18	05/31/18
EPA 8260B	1,1-DICHLOROETHENE	Not detected	0.5	0.25	ug/L	05/31/18	05/31/18
EPA 8260B	1,2-DICHLOROBENZENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
EPA 8260B	1,2-DICHLOROETHANE	Not detected	0.5	0.14	ug/L	05/31/18	05/31/18
EPA 8260B	1,2-DICHLOROPROPANE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
EPA 8260B	1,3-DICHLOROBENZENE	Not detected	0.5	0.11	ug/L	05/31/18	05/31/18
EPA 8260B	1,4-DICHLOROBENZENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
EPA 8260B	BENZENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
EPA 8260B	BROMOBENZENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
EPA 8260B	BROMODICHLOROMETHANE	Not detected	0.5	0.14	ug/L	05/31/18	05/31/18
EPA 8260B	BROMOFORM	Not detected	0.5	0.14	ug/L	05/31/18	05/31/18
EPA 8260B	BROMOMETHANE	0.62 J	1.0	0.24	ug/L	05/31/18	05/31/18
EPA 8260B	CARBON TETRACHLORIDE	Not detected	0.5	0.10	ug/L	05/31/18	05/31/18
EPA 8260B	CHLOROBENZENE	Not detected	0.5	0.21	ug/L	05/31/18	05/31/18
EPA 8260B	CHLOROETHANE	Not detected	0.5	0.21	ug/L	05/31/18	05/31/18
EPA 8260B	CHLOROFORM	Not detected	0.5	0.07	ug/L	05/31/18	05/31/18
EPA 8260B	CHLOROMETHANE	5.4	0.5	0.25	ug/L	05/31/18	05/31/18
EPA 8260B	CIS-1,2-DICHLOROETHENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
EPA 8260B	CIS-1,3-DICHLOROPROPENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
EPA 8260B	DIBROMOCHLOROMETHANE	Not detected	0.5	0.19	ug/L	05/31/18	05/31/18
EPA 8260B	DIBROMOMETHANE	Not detected	0.5	0.20	ug/L	05/31/18	05/31/18
EPA 8260B	DICHLORODIFLUOROMETHANE	Not detected	1.0	0.15	ug/L	05/31/18	05/31/18
EPA 8260B	ETHYL BENZENE	Not detected	0.5	0.23	ug/L	05/31/18	05/31/18
EPA 8260B	FREON-113	Not detected	0.5	0.21	ug/L	05/31/18	05/31/18
EPA 8260B	METHYLENE CHLORIDE	Not detected	5.0	0.35	ug/L	05/31/18	05/31/18
EPA 8260B	MTBE	Not detected	0.5	0.26	ug/L	05/31/18	05/31/18
EPA 8260B	TETRACHLOROETHENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
EPA 8260B	TOLUENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
EPA 8260B	TRANS-1,2-DICHLOROETHENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
EPA 8260B	TRANS-1,3-DICHLOROPROPENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
EPA 8260B	TRICHLOROETHENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18

J = Estimated value.

Quant Method: LALLW,M
Run #: 0530L27
Instrument: Loki
Sequence: 180530
Dilution Factor: 1
Initials: SV

Printed: 06/13/18 12:02:56 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8260B

Weston Solutions
841 Bishop St., ste 2301
Honolulu, HI 96813

Attn: Christine Kline

Project: Mayor Wright

Sample ID: GW-01-2

Sample Collection Date: 05/25/18

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 85903

APPL ID: AZ74103

QCG: #8260-180530AL-230364

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	TRICHLOROFLUOROMETHANE	Not detected	0.5	0.24	ug/L	05/31/18	05/31/18
EPA 8260B	VINYL CHLORIDE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
EPA 8260B	XYLENES	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
EPA 8260B	SURROGATE: 1,2-DICHLOROETHAN	102	70-125		%	05/31/18	05/31/18
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	90.8	72-133		%	05/31/18	05/31/18
EPA 8260B	SURROGATE: DIBROMOFLUOROME	103	78-125		%	05/31/18	05/31/18
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	98.9	73-124		%	05/31/18	05/31/18

J = Estimated value

Quant Method: LALLW.M
Run #: 0530L27
Instrument: Loki
Sequence: 180530
Dilution Factor: 1
Initials: SV

Printed: 06/13/18 12:02:56 PM
APPL-F1-SC-NoMC-REG MDLs

Method Blank
EPA 8260B

Blank Name/QCG: **180530W-74107 - 230364**
Batch ID: #8260-180530AL

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	1,1,1,2-TETRACHLOROETHANE	Not detected	0.5	0.13	ug/L	05/31/18	05/31/18
BLANK	1,1,1-TRICHLOROETHANE	Not detected	0.5	0.14	ug/L	05/31/18	05/31/18
BLANK	1,1,2,2-TETRACHLOROETHANE	Not detected	0.5	0.10	ug/L	05/31/18	05/31/18
BLANK	1,1,2-TRICHLOROETHANE	Not detected	0.5	0.20	ug/L	05/31/18	05/31/18
BLANK	1,1-DICHLOROETHANE	Not detected	1.0	0.15	ug/L	05/31/18	05/31/18
BLANK	1,1-DICHLOROETHENE	Not detected	0.5	0.25	ug/L	05/31/18	05/31/18
BLANK	1,2-DICHLOROBENZENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
BLANK	1,2-DICHLOROETHANE	Not detected	0.5	0.14	ug/L	05/31/18	05/31/18
BLANK	1,2-DICHLOROPROPANE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
BLANK	1,3-DICHLOROBENZENE	Not detected	0.5	0.11	ug/L	05/31/18	05/31/18
BLANK	1,4-DICHLOROBENZENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
BLANK	BENZENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
BLANK	BROMOBENZENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
BLANK	BROMODICHLOROMETHANE	Not detected	0.5	0.14	ug/L	05/31/18	05/31/18
BLANK	BROMOFORM	Not detected	0.5	0.14	ug/L	05/31/18	05/31/18
BLANK	BROMOMETHANE	Not detected	1.0	0.24	ug/L	05/31/18	05/31/18
BLANK	CARBON TETRACHLORIDE	Not detected	0.5	0.10	ug/L	05/31/18	05/31/18
BLANK	CHLOROBENZENE	Not detected	0.5	0.21	ug/L	05/31/18	05/31/18
BLANK	CHLOROETHANE	Not detected	0.5	0.21	ug/L	05/31/18	05/31/18
BLANK	CHLOROFORM	Not detected	0.5	0.07	ug/L	05/31/18	05/31/18
BLANK	CHLOROMETHANE	Not detected	0.5	0.25	ug/L	05/31/18	05/31/18
BLANK	CIS-1,2-DICHLOROETHENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
BLANK	CIS-1,3-DICHLOROPROPENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
BLANK	DIBROMOCHLOROMETHANE	Not detected	0.5	0.19	ug/L	05/31/18	05/31/18
BLANK	DIBROMOMETHANE	Not detected	0.5	0.20	ug/L	05/31/18	05/31/18
BLANK	DICHLORODIFLUOROMETHANE	Not detected	1.0	0.15	ug/L	05/31/18	05/31/18
BLANK	ETHYL BENZENE	Not detected	0.5	0.23	ug/L	05/31/18	05/31/18
BLANK	FREON-113	Not detected	0.5	0.21	ug/L	05/31/18	05/31/18
BLANK	METHYLENE CHLORIDE	Not detected	5.0	0.35	ug/L	05/31/18	05/31/18
BLANK	MTBE	Not detected	0.5	0.26	ug/L	05/31/18	05/31/18
BLANK	TETRACHLOROETHENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
BLANK	TOLUENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
BLANK	TRANS-1,2-DICHLOROETHENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
BLANK	TRANS-1,3-DICHLOROPROPENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18

Quant Method: LALLW.M
Run #: 0530L23
Instrument: Loki
Sequence: 180530
Initials: DG

GC SC-Blank-REG MDLs
Printed: 06/13/18 12:02:47 PM

Method Blank
EPA 8260B

Blank Name/QCG: **180530W-74107 - 230364**
Batch ID: #8260-180530AL

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	TRICHLOROETHENE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
BLANK	TRICHLOROFLUOROMETHANE	Not detected	0.5	0.24	ug/L	05/31/18	05/31/18
BLANK	VINYL CHLORIDE	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
BLANK	XYLENES	Not detected	0.5	0.15	ug/L	05/31/18	05/31/18
BLANK	SURROGATE: 1,2-DICHLOROETHAN	91.2	70-125		%	05/31/18	05/31/18
BLANK	SURROGATE: 4-BROMOFLUOROBEN	82.7	72-133		%	05/31/18	05/31/18
BLANK	SURROGATE: DIBROMOFLUOROMET	91.3	78-125		%	05/31/18	05/31/18
BLANK	SURROGATE: TOLUENE-D8 (S)	90.2	73-124		%	05/31/18	05/31/18

Quant Method:LALLW.M
Run #:0530L23
Instrument:Loki
Sequence:180530
Initials:DG

GC SC-Blank-REG MDLs
Printed: 06/13/18 12:02:47 PM

Laboratory Control Spike Recovery
EPA 8260B

APPL ID: **180531W-74107 LCS - 230364**
Batch ID: #8260-180530AL

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	9.94	99.4	73-124
1,1,1-TRICHLOROETHANE	10.00	9.46	94.6	67-125
1,1,2,2-TETRACHLOROETHANE	10.00	8.71	87.1	71-127
1,1,2-TRICHLOROETHANE	10.00	9.06	90.6	74-121
1,1-DICHLOROETHANE	10.00	9.54	95.4	62-132
1,1-DICHLOROETHENE	10.00	9.82	98.2	70-125
1,2-DICHLOROBENZENE	10.00	9.66	96.6	70-129
1,2-DICHLOROETHANE	10.00	9.64	96.4	68-123
1,2-DICHLOROPROPANE	10.00	9.45	94.5	77-125
1,3-DICHLOROBENZENE	10.00	9.97	99.7	69-129
1,4-DICHLOROBENZENE	10.00	9.47	94.7	71-126
BENZENE	10.00	9.94	99.4	68-124
BROMOBENZENE	10.00	9.22	92.2	65-130
BROMODICHLOROMETHANE	10.00	9.61	96.1	69-124
BROMOFORM	10.00	9.70	97.0	67-125
BROMOMETHANE	10.00	8.76	87.6	71-131
CARBON TETRACHLORIDE	10.00	10.0	100	70-122
CHLOROBENZENE	10.00	9.76	97.6	72-125
CHLOROETHANE	10.00	8.56	85.6	78-125
CHLOROFORM	10.00	9.63	96.3	69-122
CHLOROMETHANE	10.00	8.55	85.5	71-124
CIS-1,2-DICHLOROETHENE	10.00	9.82	98.2	72-123
CIS-1,3-DICHLOROPROPENE	10.00	9.36	93.6	70-125
DIBROMOCHLOROMETHANE	10.00	9.46	94.6	70-125
DIBROMOMETHANE	10.00	9.44	94.4	66-126
DICHLORODIFLUOROMETHANE	10.00	9.74	97.4	68-131
ETHYL BENZENE	10.00	10.4	104	70-123
FREON-113	10.00	9.55	95.5	74-138
METHYLENE CHLORIDE	10.00	10.6	106	78-118
MTBE	10.00	9.42	94.2	72-125
TETRACHLOROETHENE	10.00	9.62	96.2	62-136

Comments:

Primary	SPK
Quant Method :	LALLW.M
Extraction Date :	05/31/18
Analysis Date :	05/31/18
Instrument :	Loki
Run :	0530L18
Initials :	SV

Printed: 06/13/18 12:02:51 PM
APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B

APPL ID: **180531W-74107 LCS - 230364**
Batch ID: #8260-180530AL

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
TOLUENE	10.00	10.2	102	69-122
TRANS-1,2-DICHLOROETHENE	10.00	9.55	95.5	68-126
TRANS-1,3-DICHLOROPROPENE	10.00	9.72	97.2	62-127
TRICHLOROETHENE	10.00	9.29	92.9	70-128
TRICHLOROFLUOROMETHANE	10.00	9.00	90.0	66-132
VINYL CHLORIDE	10.00	9.31	93.1	79-138
XYLENES	30.0	28.7	95.7	73-145
SURROGATE: 1,2-DICHLOROETHANE-D	25.0	24.2	96.8	70-125
SURROGATE: 4-BROMOFLUOROBENZE	25.0	25.6	102	72-133
SURROGATE: DIBROMOFLUOROMETH	25.0	24.3	97.2	78-125
SURROGATE: TOLUENE-D8 (S)	25.0	25.0	100	73-124

Comments:

Primary	SPK
Quant Method :	LALLW.M
Extraction Date :	05/31/18
Analysis Date :	05/31/18
Instrument :	Loki
Run :	0530L18
Initials :	SV

Printed: 06/13/18 12:02:51 PM
APPL Standard LCS

APPL LABS

APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611

Phone: (559) 275-2175
Fax: (559) 275-4422

CHAIN OF CUSTODY RECORD

C.O.C. 50633

Report to: PLEASE PRINT
Company Name: WESTON SOLUTIONS Phone: 808-275-2936
Address: 841 Bishop St. Suite 2301 Fax:
Attn: Christine Kline

Invoice to: PLEASE PRINT
Company Name: SAME Phone:
Address: Fax:
Attn:

Project Name/Number: MAYOR WRIGHT
Purchase Order Number:
Sampler (Print): Christine Kline
Sampler (Signature):

Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Matrix: Aq.	Matrix: Sed.	Matrix: Soil	Analysis Requested/Method Number: VOCs
GW-01-2	MAYOR WRIGHT	5/25/18	1300	HI	3	X			X

Date Shipped:
Carrier:
Waybill No.:
Comments:

Shuttle Temperature:
Turnaround Requested: Check one: ☒ Standard 2-3 wk. ☐ One week ☐ 24/48 Hrs. ☐ Other 180242
Sample Disposal: ☐ Return to client ☐ Disposal by Lab (30-day retention)

Relinquished by sampler:	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:
	5/25/18	1330					
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by:
					5/26/18	09:50	

White: Return to client with report Yellow: Laboratory Copy Pink: Sampler
See reverse side for Container Preservative and Sampling Information

EXHIBIT 7

BIOLOGICAL RESOURCES SURVEY

for the

MAYOR WRIGHT HOMES REDEVELOPMENT PROJECT

HONOLULU, O'AHU

by

Robert W. Hobdy
Environmental Consultant
Kokomo, Maui
May 2016

Prepared for:
PBR Hawaii

INTRODUCTION

The Mayor Wright Homes Redevelopment Project is located in Honolulu on an approximately 14.5 acre block between Vineyard Boulevard, Liliha Street, King Street and Pua Lane. The subject area was the focus of a biological resources study conducted in fulfillment of environmental requirements of the planning process.

SITE DESCRIPTION

The project area lies on a gently sloping coastal plain at elevations between 10 and 22 feet above sea level. It lies within a commercial and light industrial urban setting. The area includes 37 two story and three story low income condominium structures with about 400 units. Vegetation consists mainly of lawns and some hedges, trees and shrubs. Soils are characterized as Ewa silty clay loam, moderately shallow, 1 – 2 % slopes (Foote et al, 1972) that overlies coral limestone substrate. Rainfall averages around 30 inches per year (Armstrong, 1983).

SURVEY OBJECTIVES

This report summarizes the findings of a biological resources survey of the proposed Mayor Wright Homes Redevelopment Project which was conducted in May 2016. The objectives of the survey were to:

1. Document what plant and animal species occur on the property or may likely occur in the existing habitat.

2. Document the status and abundance of each species.

3. Determine the presence or likely occurrence of any native flora and fauna, particularly any that are federally listed as Threatened or Endangered. If such occur, identify what features of the habitat may be essential for these species.

4. Determine if the project area contains any special habitats which if lost or altered might result in a significant negative impact on the flora and fauna in this part of the island.

BOTANICAL SURVEY REPORT

SURVEY METHODS

A walk-through botanical survey method was used selecting routes to cover the entire area and all habitat types. Areas most likely to harbor native or rare plants were more intensively examined. Notes were made on plant species, distribution and abundance as well as on terrain and substrate.

DESCRIPTION OF THE VEGETATION

The vegetation was made up primarily of a variety of low maintenance grasses and urban weeds that survive mowing. In addition, there are hedges and a variety of ornamental plantings around some of the units. A total of 91 plant species were recorded during the survey. Not recorded were ornamental plants in pots around unit entrances.

Eight plant species were common throughout the project, nut sedge (*Cyperus rotundus*), Bermuda grass (*Cynodon dactylon*), wiregrass (*Eleusine indica*), Dallis grass (*Paspalum dilatatum*), pink tecoma (*Tabebuia heterophylla*), pepperwort (*Lepidium virginicum*), bracted fanpetals (*Sida ciliaris*) and scarlet spiderling (*Boerhavia coccinea*). Three species were of Polynesian introduction, kalo (*Colocasia esculenta*), ki (*Cordyline fruticosa*) and ‘ihi’ai (*Oxalis corniculata*). About half the plants recorded were purposely planted ornamental species and a few food plants being raised by tenants.

Not a single native plant was found during the survey in this densely populated urban environment.

DISCUSSION AND RECOMMENDATIONS

The vegetation within the project area consists entirely of non-native plants. The three plants of Polynesian origin were, likewise, common and had been purposely introduced into the landscape.

No federally listed Endangered or Threatened plant species (USFWS, 2016) were found in the project area, and none were found that are candidates for such status. No special habitats were identified within the project area. This project area lies within the heart of urban Honolulu, distant from any natural habitats.

Because of the above existing conditions, it has been determined that there is little of botanical concern in the project area, and that the anticipated disturbances associated with the proposed redevelopment work are not expected to have a significant negative impact on the botanical resources in this part of O'ahu.

It is recommended, however, that coastal and lowland native plant species might be incorporated into future landscape designs.

PLANT SPECIES LIST

Following is a checklist of all those vascular plant species inventoried during the field studies. Plant families are arranged alphabetically within two groups: Monocots and Dicots. Taxonomy and nomenclature of the flowering plants are in accordance with Wagner et al. (1999) and Staples & Herbst (2005).

For each species, the following information is provided:

1. Scientific name with author citation.

2. Common English or Hawaiian name.

3. Bio-geographical status. The following symbols are used:

   endemic = native only to the Hawaiian Islands; not naturally occurring anywhere else in the world.

   indigenous = native to the Hawaiian Islands and also to one or more other geographic area(s).

   Polynesian introduction = plants introduced to Hawai’i in the course of Polynesian migrations and prior to western contact.

   non-native = all those plants brought to the islands intentionally or accidentally after western contact.

4. Abundance of each species within the project area:

   abundant = forming a major part of the vegetation within the project area.

   common = widely scattered throughout the area or locally abundant within a portion of it.

   uncommon = scattered sparsely throughout the area or occurring in a few small patches.

   rare = only a few isolated individuals within the project area.

SCIENTIFIC NAME	COMMON NAME	STATUS	ABUNDANCE
MONOCOTS			
AMARYLLIDACEAE (Amaryllis Family)			
Crinum augustum Roxb.	Queen Emma lily	non-native	uncommon
ARACACEAE (Aroid Family)			
Colocasia esculenta (L.) Schott	kalo	Polynesian	rare
Philodendron bipinnatifidum Endl.	selloum	non-native	rare
Syngonium podophyllum Schott	nephthytis	non-native	rare
ARECACEAE (Palm Family)			
Dypsis lutescens (H.Wendl.) Beentjie & J. Dransfield	golden-fruited palm	non-native	rare
Veitchia merrillii (Becc.) H.E. Moore	Manila palm	non-native	rare
ASPARAGACEAE (Asparagus Family)			
Agave americana L.	century plant	non-native	rare
Asparagus densiflorus (Kunth) Jessop	asparagus fern	non-native	rare
Cordyline fruticosa (L.) A. Chev.	*ki, ti*	Polynesian	uncommon
Dracaena fragrans (L.) Ker Gawler	fragrant dracaena	non-native	rare
Dracaena marginata Lamarck	money tree	non-native	rare
Dracaena reflexa Lamarck	song of India	non-native	uncommon
Dracaena sanderiana M.J. Masters	lucky bamboo	non-native	rare
CANNACEAE (Canna Family)			
Canna indica L.	canna	non-native	rare
COMMELINACEAE (Dayflower Family)			
Tradescantia spathacea Swartz	oyster plant	non-native	rare
CYPERACEAE (Sedge Family)			
Cyperus gracilis R. Brown	McCoy grass	non-native	uncommon
Cyperus rotundus L.	nut sedge	non-native	common
Kyllinga brevifolia Rottb.	*kili'o'opu*	non-native	rare
Kyllinga nemoralis (J.R. Forster & G. Forster) Dandy	*kili'o'opu*	non-native	uncommon
MUSACEAE (Banana Family)			
Musa acuminata x balbisiana Colla	banana	non-native	rare
POACEAE (Grass Family)			
Bothriochloa bladhii (Retz.) S. T. Blake	beardgrass	non-native	uncommon
Bothriochloa pertusa (L.) A. Camus	pitted beardgrass	non-native	rare
Cenchrus echinatus L.	common sandbur	non-native	uncommon
Chloris barbata (L.) Sw.	swollen fingergrass	non-native	uncommon
Cymbopogon citratus (DC.) Stapf	lemon grass	non-native	rare
Cynodon dactylon (L.) Pers.	Bermuda grass	non-native	common
Dicanthium aristatum (Poir.) Hubb.	Wilder grass	non-native	rare
Digitaria insularis (L.) Mez ex Ekman	sourgrass	non-native	rare
Echinochloa colona (L.) Link	jungle rice	non-native	rare
Eleusine indica (L.) Gaertn.	wiregrass	non-native	common
Eragrostis pectinacea (Michx.) Nees	Carolina lovegrass	non-native	uncommon
Megathyrsus maximus (Jacq.) Simon & Jacobs	Guinea grass	non-native	rare
Paspalum conjugatum Bergius	Hilo grass	non-native	uncommon

SCIENTIFIC NAME	COMMON NAME	STATUS	ABUNDANCE
Paspalum dilatatum Poir.	Dallis grass	non-native	common
Setaria verticillata (L.) P. Beauv.	bristly foxtail	non-native	rare
Sporobolus diander (Retz.) P. Beauv.	Indian dropseed	non-native	uncommon
XANTHORRHOEACEAE (Grass Tree Family)			
Aloe vera (L.) N.L. Burm.	common aloe	non-native	rare
ZINGIBERACEAE (Ginger Family)			
Alpinia purpurata (Vieill.) K. Schum.	red ginger	non-native	rare
Hedychium coronarium J. Konig	white ginger	non-native	rare
Hedychium flavescens N. Carey	yellow ginger	non-native	rare
DICOTS			
ACANTHACEAE (Acanthus Family)			
Asystasia gangetica (L.) T. Anderson	Chinese violet	non-native	rare
Pachystachys lutea C. Nees	yellow lollipop plant	non-native	rare
Pseuderanthemum carruthersii (Seem.) Guill.	false eranthemum	non-native	rare
AMARANTHACEAE (Amaranth Family)			
Alternanthera pungens Kunth	khaki weed	non-native	uncommon
Amaranthus spinosus L.	spiny amaranth	non-native	rare
Amaranthus viridis L.	slender amaranth	non-native	uncommon
APOCYNACEAE (Dogbane Family)			
Calotropis gigantea (L.) W.T. Aiton	crownflower	non-native	rare
Plumeria obtusa L.	Singapore plumeria	non-native	rare
Plumeria rubra L.	plumeria	non-native	uncommon
ARALIACEAE (Ginseng Family)			
Polyscias guilfoylei (W.Bull) L.H. Bailey	panax	non-native	uncommon
Schefflera actinophylla (Endl.) Harms	ocotpus tree	non-native	rare
ASTERACEAE (Sunflower Family)			
Calyptocarpus vialis Less	straggler daisy	non-native	uncommon
Conyza bonariensis (L.) Cronq.	hairy horseweed	non-native	uncommon
Emilia fosbergii Nicolson	red pualele	non-native	rare
Tridax procumbens L.	coat buttons	non-native	uncommon
BIGNONIACEAE (Bignonia Family)			
Spathodea campanulata P. Beauv.	African tulip tree	non-native	rare
Tabebuia heterophylla (A.P. deCandolle) Britton	pink tecoma	non-native	common
BRASSICACEAE (Mustard Family)			
Coronopus didymus (L.) Sm.	swinecress	non-native	uncommon
Lepidium virginicum L.	pepperwort	non-native	common
CARICACEAE (Papaya Family)			
Carica papaya L.	papaya	non-native	rare
CONVOLVULACEAE (Morning Glory Family)			
Ipomoea obscura (L.) Ker-Gawl.	----------	non-native	uncommon
EUPHORBIACEAE (Spurge Family)			
Codiaeum variegatum (L.) Blume	croton	non-native	uncommon
Euphorbia hirta L.	hairy spurge	non-native	uncommon

SCIENTIFIC NAME	COMMON NAME	STATUS	ABUNDANCE
Euphorbia hypericifolia L.	graceful spurge	non-native	rare
Euphorbia millii Des Moulins	crown-of-thorns	non-native	rare
Euphorbia prostrata Aiton	prostrate spurge	non-native	uncommon
Euphorbia thymifolia	thyme-leaved spurge	non-native	rare
FABACEAE (Pea Family)			
Cassia fistula L.	golden shower	non-native	uncommon
Cassia javanica L.	pink and white shower	non-native	rare
Indigofera spicata Forssk.	creeping indigo	non-native	uncommon
Sesbania grandflora (L.) Poiret	sesban	non-native	rare
LAMIACEAE (Mint Family)			
Ocimum basilicum L.	common basil	non-native	rare
MAGNOLIACEAE (Magnolia Family)			
Michelia x alba A.P. de Candolle	white champak, paklan	non-native	rare
MALVACEAE (Mallow Family)			
Hibiscus rosa-sinensis L.	hybrid hibiscus	non-native	uncommon
Malvastrum coromandelianum (L.) Garcke	false mallow	non-native	uncommon
Sida ciliaris L.	bracted fanpetals	non-native	common
MORACEAE (Fig Family)			
Ficus benjamina L.	weeping fig	non-native	rare
Ficus religiosa L.	Bo tree	non-native	rare
NYCTAGINACEAE (Four-o'clock Family)			
Boerhavia coccinea Mill.	scarlet spiderling	non-native	common
Bougainvillea spectabilis Willd.	bougainvillea	non-native	uncommon
Mirabilis jalapa L.	four-o'clock	non-native	rare
OCHNACEAE (Ochna Family)			
Ochna thomasiana Engler & Gilg	mickey mouse plant	non-native	rare
OXALIDACEAE (Wood Sorrel Family)			
Oxalis corniculata L.	yellow wood sorrel	non-native	rare
PASSIFLORACEAE (Passion Flower Family)			
Turnera ulmifolia L.	yellow alder	non-native	rare
PORTULACACEAE (Purslane Family)			
Portulaca oleracea L.	pig weed	non-native	uncommon
ROSACEAE (Rose Family)			
Rosa x	hybrid rose	non-native	rare
RUBIACEAE (Coffee Family)			
Morinda citrifolia L.	noni	Polynesian	rare
RUTACEAE (Rue Family)			
Citrus x limon Osbeck	lime	non-native	rare
Clausenia lansium (Lour.) Skeels	wampi	non-native	rare
Murraya paniculata (L.) W. Jack	mock orange	non-native	rare
VERBENACEAE (Verbena Family)			
Stachytarpheta cayennensis (Rich.) Vahl	nettle-leaved vervain	non-native	rare

FAUNA SURVEY REPORT

SURVEY METHODS

A walk-through fauna survey method was conducted in conjunction with the botanical survey. All parts of the project area were covered. Field observations were made with the aid of binoculars and by listening to vocalizations. Notes were made on species, abundance, activities and location as well as observations of trails, tracks, scat and signs of feeding. In addition an evening visit was made to the area to record crepuscular activities and vocalizations and to see if there was any evidence of occurrence of the Hawaiian hoary bat (*Lasiurus semotus*) in the area.

RESULTS

MAMMALS

Just one non-native mammal species was observed in the project area during two site visits. Taxonomy and nomenclature follow Tomich (1986). Domestic cats (*Felis catus*) were seen within the area. Domestic dogs (*Canis familiaris*) may also frequent the area as leashed animals with their owners who are walking or jogging. Other mammal species one might expect to see in the area include mice (*Mus domesticus*), rats (*Rattus* spp.) and mongoose (*Herpestes auropunctatus*).

An evening survey was conducted within the project area using a bat detecting device (Batbox IIID), set to the frequency of 27,000 Hertz that the Hawaiian hoary bats are known to use for echolocation in their pursuit of nocturnal flying insects. No bats were detected.

BIRDS

Bird life was modest in the diversity of species observed but fairly well represented in total numbers. Taxonomy and nomenclature follow American Ornithologists' Union (2014). A total of five non-native bird species were observed during two site visits. Four non-native bird species were common in the project area, the common myna (*Acridotheres tristis*), the zebra dove (*Geopelia striata*), the spotted dove (*Streptopelia chinensis*) and the house sparrow (*Passer domesticus*). A couple of chickens (*Gallus gallus*) were also present.

INSECTS

Insect life was sparse throughout the project area due primarily to the lack of habitat diversity. Just four non-native insect species were observed during two site visits. Taxonomy and nomenclature follow Nishida et al (1992). One species was found to be abundant throughout the area, the dung fly (*Musca sorbens*). The long tailed blue butterfly (*Lampides boeticus*) was common. Two other insect species were rare. No native insect species were found.

REPTILES

One non-native reptile, the brown anole lizard (*Anolis sagrei*) was seen on a hollow tile wall.

DISCUSSION AND RECOMMENDATIONS

The Mayor Wright Homes Redevelopment Project area is a densely populated residential complex that is sparsely vegetated. This discourages many forms of wildlife from utilizing the habitat. All types of wildlife, including mammals, birds, insects and reptiles, were poorly represented. Only a few hardy species, adapted to human activities, were observed in the project area.

No native wildlife species were observed in the project area during the survey. All mammal, bird, insect and reptile species were common non-native species that are of no special conservation concern. As a result, no federal or state listed endangered or threatened wildlife species occur in the project area, and no species were found that are candidates for such status.

The endemic and protected Hawaiian hoary bat was not detected during the survey. These bats are not known from urban Honolulu and are not expected to occur in the project area.

No Endangered nēnē or Hawaiian goose are known from Oahu except in captivity and are not expected in the project area.

No Blackburn's sphinx moths (*Manduca blackburni*) were found during the survey. They are not presently known from Oahu and none of their special host plants were found either.

No protected waterbirds, the ae'o or Hawaiian stilt (*Himantopus mexicanus knudseni*), 'alae ke'oke'o or Hawaiian coot (*Fulica alai*), 'alae'ula or common moorhen (*Gallinula chloropus sandvicensis*) or the koloa or Hawaiian duck (*Anas wyvilliana*) were seen during the survey and no suitable wetland habitat occurs on or near to the project area.

None of the endangered manu o kū or white tern (*Gygis alba rothschildi*) were seen during the survey. while their numbers have been increasing in urban Honolulu in recent years, the project area does not represent good habitat for these terns.

Hawaiian petrels (*Pterodroma phaeopygia sandwichensis*) and Newell's shearwaters (*Puffinus auricularis newellii*), (collectively known as seabirds) may transit over the project area when flying between the ocean and nesting sites in the mountains during their breeding season (March through November). Fatalities to these seabirds resulting from collisions with artificial structures that extend above the surrounding vegetation have been documented in Hawaii where high densities of transiting seabirds occur. Additionally, artificial lighting such as floodlighting for construction work can adversely impact seabirds by causing disorientation which may result in collision with utility lines, buildings, fences and vehicles. Fledgling seabirds are especially affected by artificial lighting and have a tendency to exhaust themselves while circling the light sources and become grounded. Too weak to fly, these birds become vulnerable to predation by predators such as mongoose (*Herpestes auropunctatus*), cats (*Felis catus*) and dogs (*Canis familiaris*). These threats can be minimized by the shielding of any outdoor lighting so that the light is visible only from below.

No other recommendations regarding wildlife are deemed necessary.

Because of the above existing conditions, it has been determined that there is little of wildlife concern in the project area, and that the anticipated disturbances associated with the proposed redevelopment work are not expected to have a significant negative impact on the wildlife resources in this part of Oahu.

ANIMAL SPECIES LIST

Following is a checklist of the animal species inventoried during the field work. Animal species are arranged in descending abundance within four groups: Mammals, Birds, Insects and Reptiles. For each species the following information is provided:

1. Common name.

2. Scientific name.

3. Bio-geographical status. The following symbols are used:

   endemic = native only to Hawaii; not naturally occurring anywhere else in the world.

   indigenous = native to the Hawaiian Islands and also to one or more other geographic area(s).

   non-native = all those animals brought to Hawaii intentionally or accidentally after western contact.

   migratory = spending a portion of the year in Hawaii and a portion elsewhere. In Hawaii the migratory birds are usually in the overwintering/non-breeding phase of their life cycle.

4. Abundance of each species within the project area:

   abundant = many flocks or individuals seen throughout the area at all times of day.

   common = a few flocks or well scattered individuals throughout the area.

   uncommon = only one flock or several individuals seen within the project area.

   rare = only one or two seen within the project area.

SCIENTIFIC NAME	COMMON NAME	STATUS	ABUNDANCE
MAMMALS			
Felis catus L.	domestic cat	non-native	rare
BIRDS			
Geopelia striata L.	zebra dove	non-native	common
Streptopelia chinensis Scopoli	spotted dove	non-native	common
Acridotheres tristis L.	common myna	non-native	common
Passer domesticus L.	house sparrow	non-native	common
Gallus gallus L.	chicken	non-native	uncommon
REPTILES			
Anolis sagrei Dumeril & Bibron	brown anole	non-native	rare

SCIENTIFIC NAME	COMMON NAME	STATUS	ABUNDANCE
INSECTS			
Order DIPTERA - flies			
MUSCIDAE (House Fly Family)			
Musca sorbens Wiedemann	dung fly	non-native	abundant
Order LEPIDOPTERA - butterflies, moths			
LYCAENIDAE (Gossamer-winged Butterfly Family)			
Lampides boeticus L.	long tail blue butterfly	non-native	common
NYMPHALIDAE (Brush-footed Butterfly Family)			
Agraulis vanillae L.	passion flower butterfly	non-native	rare
Danaus plexippus L.	monarch butterfly	non-native	rare

Literature Cited

American Ornithologists' Union, 2014. Check-list of North American Birds. 7th edition. American Ornithologists' Union. Washington D.C.

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Staples, G.W., D.R. Herbst. 2005. A Tropical Garden Flora. Bishop Museum Press. Honolulu.

Tomich, P.Q. 1986. Mammals in Hawaii. Bishop Museum Press, Honolulu.

U.S. Fish and Wildlife Service. 2016. Endangered and threatened wildlife and Plants. Listings and Occurrences for Hawaii. www.fws.gov/endangered

Wagner, W. L., D.R. Herbst, and S. H. Sohmer, 1999. Manual of the flowering plants of Hawai'i. Univ. of Hawai'i Press and Bishop Museum Press. Honolulu.

EXHIBIT 8

Soil Map—Island of Oahu, Hawaii
(Mayor Wright Homes)

Map Scale: 1:3,040 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 45 90 180 270

Feet
0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 4N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Island of Oahu, Hawaii
Survey Area Data: Version 14, Sep 17, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 31, 2009—Aug 14, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
EmA	Ewa silty clay loam, moderately shallow, 0 to 2 percent slopes	35.8	89.3%
KaB	Kaena clay, 2 to 6 percent slopes	4.3	10.7%
Totals for Area of Interest		**40.1**	**100.0%**

EXHIBIT 9

DAVID Y. IGE
GOVERNOR OF HAWAII

SUZANNE D. CASE
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

ROBERT K. MASUDA
FIRST DEPUTY

JEFFREY T. PEARSON
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE HISTORIC PRESERVATION DIVISION
KAKUHIHEWA BUILDING
601 KAMOKILA BLVD, STE 555
KAPOLEI, HAWAII 96707

August 25, 2017

IN REPLY REFER TO:
LOG NO: 2017.01892
DOC NO: 1708KN25
Architecture

Hakim Ouansafi, Executive Director
Hawai'i Public Housing Authority
1002 North School Street
Honolulu, HI 96817

Dear Mr. Ouansafi:

SUBJECT: **HRS Chapter 6E-8 & NHPA Section 106 Historic Preservation Review**
Mayor Wright Homes Redevelopment
521 North Kukui Street Honolulu, HI 96817
Owner Name: State of Hawaii
Honolulu Ahupua'a, Kona District, Island of O'ahu
TMK: (1) 1-7-029:003

Thank you for the opportunity to comment on this request from the Hawaii Public Housing Authority (HPHA) for Chapter 6E-42, HRS, and Section 106, NHPA, review. This letter is in response to SHPD's request for Reconnaissance Level Surveys (RLS) for architectural resources within the Area of Potential Effect (LOG NO. 2016.01289; DOC NO. 1706JLP23). The submittal included the RLS Inventory Forms, the Survey Report, and a map of the Survey Findings, and the State Historic Preservation Division (SHPD) received this submittal on August 23, 2017.

SHPD accepts the RLS reports and has received filing fees per §13-284-4(3), HAR.

Currently, the project scope of work has not been finalized, particularly the future disposition of the properties located on the 4 parcels (1 on the corner of N. Vineyard and Liliha, and 3 along N. King) that complete the Mayor Wright Homes block. Therefore, SHPD looks forward to continued consultation to provide complete and meaningful comment as to the effects the proposed project may have on historic properties within the APE.

Please contact Kaiwi Yoon, Architecture Branch Chief, at (808) 692-8032 or at Kaiwi.N.Yoon@hawaii.gov regarding architectural resources or this letter.

Aloha,

Alan Downer

Alan S. Downer, PhD
Administrator, State Historic Preservation Division
Deputy State Historic Preservation Officer

cc: tonia@funghawaii.com

MAYOR WRIGHT HOMES REDEVELOPMENT PROJECT IDENTIFICATION OF HISTORIC PROPERTIES

RECONNAISSANCE LEVEL SURVEY

OF MULTIPLE PROPERTIES LOCATED WITHIN THE

SELECTED AREA OF POTENTIAL EFFECT

PROVIDED TO:

HAWAII PUBLIC HOUSING AUTHORITY

AUGUST 2017

PREPARED by:

FUNG ASSOCIATES, INC.

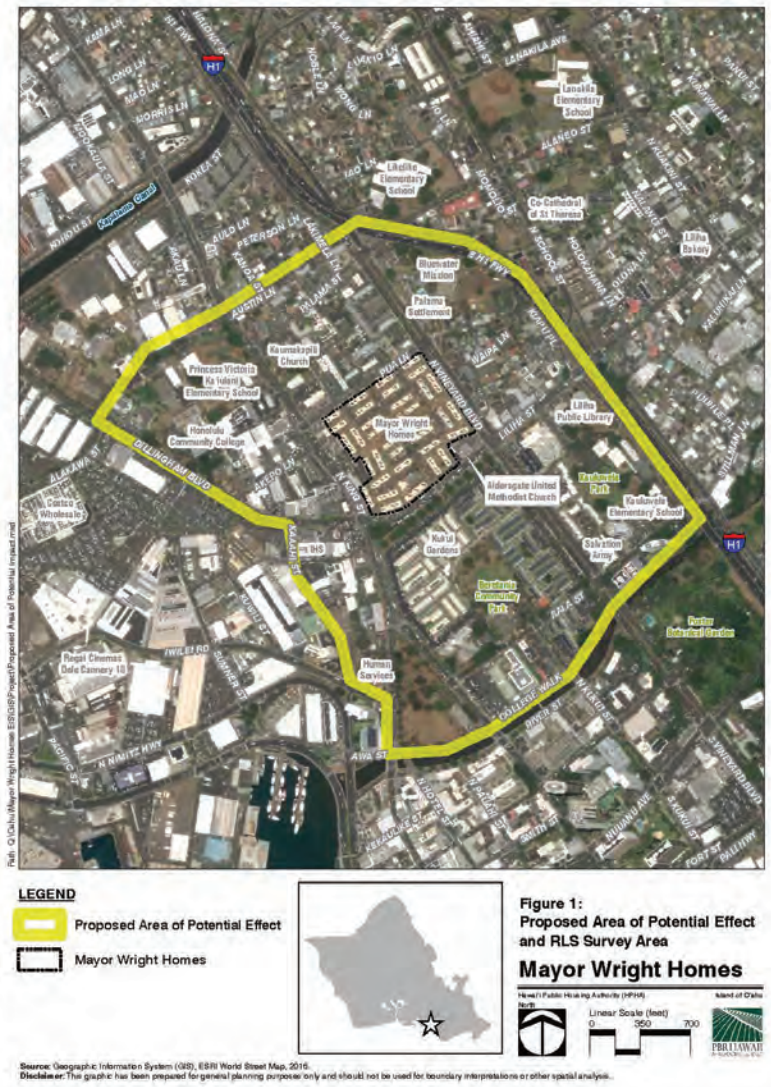
for PBR HAWAII & ASSOCIATES, INC.

Architectural Reconnaissance Survey of Mayor Wright Housing APE

Research Design

This architectural reconnaissance survey was undertaken in anticipation of the future development of the Mayor Wright Homes Redevelopment project (Tax Map Key 1-7-029: 003). As a result of Hawaii Revised Statutes Chapter 6E and Section 106 consultation between the Hawaii State Historic Preservation Division (SHPD) and Hawaii Public Housing Authority (HPHA), a one- to one-and-a-half block radius surrounding the proposed project area was determined to be an appropriate Area of Potential Effect (APE) for any proposed undertaking. (See Figure 1: Proposed Area of Potential Effect and RLS Survey Area.) During initial stages of consultation, SHPD requested a reconnaissance level survey of architectural historic resources within the APE, in order to provide a baseline of information which will be useful in evaluating and assessing potential impacts to identified, eligible historic resources as a result of the proposed redevelopment project. The objective of the survey is to ascertain whether any possible historic properties are located in the APE, which encompasses Tax Map plats: 1-7-023, 1-7-026, 1-7-027, 1-7-029, 1-7-031, and 1-7-032, as well as 1-5-006, and portions of 1-5-005, 1-5-007, 1-5-017, and 1-6-001. No historic contexts were prepared as a part of this survey.

The survey followed a methodology which included performing background research, completing a site visit, gathering basic information on the buildings identified as significant, and writing up the results of the survey so any identified properties may be placed in the SHPD's Statewide Inventory of Historic Places.



Coverage and Methodology

The area surveyed encompasses approximately 100 acres. The survey examined all the properties within the APE built prior to 1977, with the exception of a handful of properties, which were inaccessible or not visible from the public right-of-way. Properties constructed between 1967 and 1977 were included in the survey due to the anticipated length of the project. Some properties that are not yet historic are anticipated to be eligible once they meet the 50 year requirement. In these cases surveyed, each of these properties do not currently meet the National Register criteria considerations that would render them exceptional; therefore, they are determined not eligible for listing until they meet the minimum age value of 50 years old. In these cases, the date the property will become historic and may be potentially eligible for listing to the State or National Registers of Historic Places is denoted on the reconnaissance level survey form, as well as identified in the compiled table summary of all surveyed properties in Appendix A.

Prior to the start of any fieldwork, background research was undertaken. The preliminary background research involved an examination of pertinent materials provided by the client. SHPD records disclosed the O.R. & L. Depot and Document Storage buildings, and Kaumakapili Church to be listed in the Hawaii or National Register of Historic Places. In addition, six properties are included in the Statewide Inventory of Historic Places. These are: the Izuma Taisha Mission, Aala Park, the Tong Fat Building and apartments, the Tamura Building on Kaaahi Street, the Palama Settlement, and the HPHA's Kalanihuia elderly housing project.

Don Hibbard, Alison Chiu, and Anna Broverman, all of whom meet the Secretary of Interior's Professional Qualifications Standards as an architectural historian, conducted field surveys on the morning of March 21, 2017, and on the afternoons of April 19, 2017, and May 16 and 18, 2017, examining all the buildings in the survey area. Approximately twelve hours were spent in the field photographing and taking notes on the physical character of the buildings within the study area. One hundred percent of the survey area was investigated. Following the site survey, additional research was undertaken at the Hawaii State Archives, City & County Tax Office, Department of Planning and Permitting, University of Hawaii, Department of Education, and Hawaii State Library. This included a review of tax records, newspaper articles, original drawings, and building permits. Following the gathering of information, this report was prepared, reviewed, and finalized. RLS inventory forms were completed for 161 properties.

Survey Results

Of the 161 properties examined in the course of the reconnaissance survey and included in this report, 2 are presently listed in either the Hawaii or National Registers of Historic Places. In addition, another 47 properties appear to meet the criteria for listing in the Hawaii and National Registers for their associations with the architectural traditions of Hawaii; of these properties, 6 are already identified in the Statewide Inventory of Historic Places. An additional 13 properties were determined potentially eligible once they meet the 50 year age requirement. The other 83 properties do not appear to meet the criteria for listing in either historic register because their historic integrity has been compromised. There are 4 properties that were determined ineligible as individual properties, but they are eligible as contributing features to a historic district. Unknown determinations were given to 13 properties not visible from the public right of way. (See Figure 2: Eligibility of Properties Surveyed.)

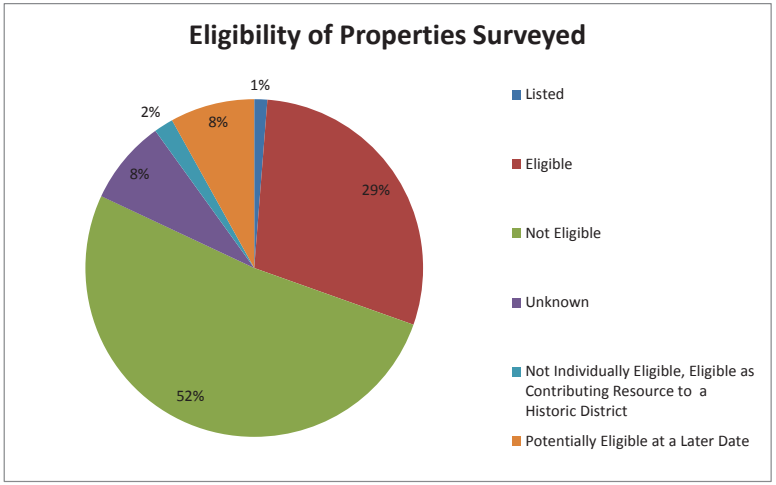


Figure 2: Eligibility of Properties Surveyed

Clusters of historic properties were found throughout the survey area. Five historic properties were found on the same block as the Mayor Wright Housing complex. Additional groupings of listed properties were found along the northeastern side of North Vineyard Boulevard, the southern side of Akepo Lane, the northern side of Liliha Street, and the southern end of North King Street. (See Figure 3: Survey Findings.)

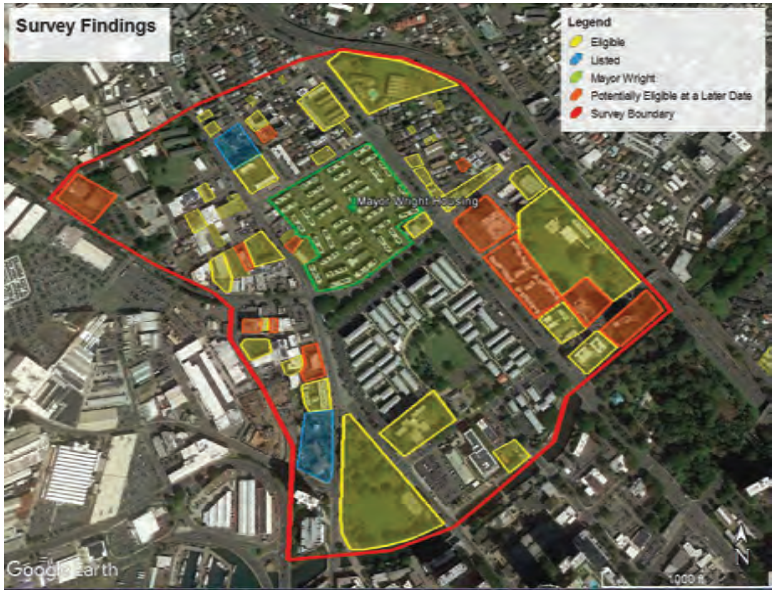


Figure 3: Survey Findings

Two possible historic districts were identified within the APE.

The first possible historic district runs *mauka* (northeast) along Liliha Street from Vineyard Boulevard. (See Figure 4: Potential Liliha Street Historic District.) This potential district would include HPL Company LLC's building at 1408 Liliha Street, the American Security Bank (now First Hawaiian Bank), Lung Kong Kung Shaw Society Hall, and Liliha Sunrise (TMKs: 1-7-032: 021, 022, 023, 099) – all of which are considered to individually meet the criteria for listing in the Hawaii and National Registers of Historic Places. In addition, the district might also include TMK 1-7-032: 020, as a contributing property, and could be extended *makai* (southwest) of Vineyard Boulevard to include the Agmata Building at 1386 Liliha designed by Ray Akagi (TMK: 1-7-029: 001), as a contributing property, and the Aldersgate United Methodist Church (TMK: 1-7-029: 002). The Aldersgate United Methodist Church is considered to individually meet the criteria for listing in the Hawaii and National Registers of Historic Places.

All of the structures identified in the potential Liliha Street Historic District were built between 1947–1962; they well reflect the design proclivities of the mid-century modern design period and thus the

potential district may be eligible under Criterion C. These buildings were identified in the *Hawaii Modernism Context Study* (2011) as an intact streetscape of low-rise retail buildings.

> *The block on Liliha Street between Vineyard and the entrance to the Lunalilo Freeway, with its wide array of modern forms, may be one of the few groupings of post-war low-rise commercial buildings to remain intact, and efforts should be exerted to retain this block of time.*[1]

The only other relatively intact commercial streetscapes of the mid-century modern period in Honolulu, which may be considered of comparable quality are in Kaimuki along Waialae Avenue and along Kapahulu Avenue.

Figure 4: Potential Liliha Street Historic District

[1] *Hawaii Modernism Context Study*, prepared for Historic Hawaii Foundation by Fung Associates, Inc. (November 2011): 4-6, 4-7.

The second possible historic district is the Kauluwela Redevelopment Area, which is bounded by Vineyard Boulevard and the Lunalilo Freeway, and Liliha Street and Nuuanu Stream. (See Figure 5: Potential Kauluwela Redevelopment Area Historic District.) This district well reflects the efforts of the Honolulu Redevelopment Agency (HRA) in the 1960s and 1970s, and therefore may be eligible under Criterion A and/or C. The HRA was formed in 1950 by the City and County of Honolulu Council to remedy slum and blight within the City and County. However, it did not have significant impact until after 1958 when federal Housing and Urban Development moneys were infused into the program. Under the HRA, the City and County and the federal government partnered to purchase and clear substandard areas and relocate the residents, with the federal government providing approximately 66% of the funds. The blighted areas were then resold to private developers who were required to build according to land use plans prescribed by the HRA.

Figure 5: Potential Kauluwela Redevelopment Area Historic District

As early as 1961, the HRA had designated Kauluwela as one of its redevelopment areas, as part of a 183 acre area which extended from Beretania Street to the Lunalilo Freeway and from Queen Emma Street to Liliha Street, and also included what is now Aala Park, an area which inspired and served as a setting for the 1954 film *Hell's Half Acre*. The HRA considered Kauluwela's thirty acre area to be beyond the point of redemption, containing 229 buildings of which 199 were deemed deficient. Nearly half of the 365 dwelling units were considered "substandard," with approximately 300 families and 150 single persons living in them. In addition, there were approximately fifty businesses.

HRA's first major project, Queen Emma Gardens, met with substantial public opposition because of an anticipated low quality of design, in part a result of the agency's recently completed Kokea Street project and earlier Hawaii Housing Authority projects following *Zeilenbau* configurations. Sensitive to public outcry, the HRA seemed to make a conscious effort to have higher design standards – this is well reflected in the Kauluwela project as well as others undertaken by the agency; HRA is responsible for some of the best designed housing projects in Hawaii during this period.

The HRA's Yamasaki designed Queen Emma Gardens project was completed in 1964, and the Caesar Pelli designed Kukui Gardens project was to finally break ground in February 1969, after approximately six years had elapsed since the clearing of the area. With the latter, a seventy five acre redevelopment project, about to be underway, the HRA turned its attention to moving Kauluwela toward completion. Land acquisition and relocation had been underway since June 1966, and by June 1967 all but one parcel was under HRA ownership. In June 1968 the HRA secured loan agreements from Continental Illinois National Bank and Trust Company and First Boston Corporation, and proceeded to start clearing and grading the site. It was anticipated this would be completed by June 1969, when the final relocations would be completed. The agency sold eight acres of these lands to be redeveloped to the Hawaii Council for Housing Action (HCHA), whose proposal for Kukui Gardens had come in second to the Clarence T. C. Ching Foundation's winning proposal. The HCHA would develop Liliha Square, Kauluwela I and II, and an elderly housing high rise, the present Keola Hoonanea. As in the past, the project designs were untaken by architects with established reputations. Geoffrey Fairfax, who worked in William Wurster's office in California prior to opening his own firm in 1967, had worked in Hawaii on the restoration of Iolani Palace and Grove Farm Homestead prior to undertaking Liliha Square, while San Francisco architect Leo S. Wou, who designed Kauluwela I and II, also designed the award winning Financial Plaza in downtown Honolulu. Frank Slavsky, the architect for the elderly housing component of the project, had already won an AIA award for Makua Alii, the elderly housing apartment he designed in 1967 for the Hawaii Housing Authority on Kalakaua Avenue. In addition to these projects, the HRA elected to retain the Liliha Library designed by Stephen Oyakawa, the apartments *makai* of the library built in 1947 and designed by George McLaughlin, and the Salvation Army building designed by Alfred Yee. They also retained and expanded Kauluwela Elementary School and playground, which occupied a preponderance of the redevelopment area. In addition the agency sold to the Aloha United Fund the corner lot at Aala Street and Vineyard Boulevard, where this non-profit had Leo S. Wou design their headquarters building. Also, the HRA cooperated with the State Parks Division, who envisioned a hiking trail the length of Nuuanu Stream, by making a landscaped promenade between King Street and the Lunalilo Freeway, which was designed by George Walters. It was the largest landscape project undertaken by the HRA.

In addition to these projects, the HRA was also responsible for the aborted attempt to redevelop Chinatown, the Cultural Plaza and the Pauahi and Kukui tower projects. In November 1974, the agency was absorbed into the City and County of Honolulu's Department of Housing and Community Development. The buildings in the Kauluwela area represent the apex of the agency's activity, with the buildings dating from 1969 to 1975. The buildings which were retained by the HRA all date from the post-war period and are consistent in design with those developed under the HRA.

Recommendations for Future Study

This survey was completed at the request of the Hawaii State Historic Preservation Division under Hawaii Revised Statutes Chapter 6E-8 and in anticipation of Section 106 of the National Historic Preservation Act consultation. The review processes are designed to identify significant historic properties in project areas/APEs and to develop and execute plans to handle impacts to significant historic properties. The survey supports the historic preservation review process by providing baseline information about historic properties within the APE and identifying potential effects that may be caused by a project.

This architectural reconnaissance survey included properties within a one-and-a-half block radius of the Mayor Wright housing development built prior to 1977. The survey area encompassed approximately 100 acres and was bounded by the H1 Freeway to the northeast, College Walk and Nuuanu Stream to the southeast, Dillingham Boulevard and Kaaahi Streets to the southwest, and Austin Lane to the northwest. In addition to two potential historic districts, individual historic properties were found throughout the survey area. The large survey boundary was meant to include all architectural properties that could be affected by the redevelopment project in the absence of a final design. The effects of the redevelopment project will have to be assessed once a design is decided upon.

The following recommendations are given to facilitate state and federal review processes, but are not necessarily included in the scope of this survey or redevelopment project.

- A historic context for the Palama neighborhood should be completed to understand how the existing built environment reflects the development of Palama in the late nineteenth throughout twentieth centuries. The context would confirm significance determinations for historic properties found in the RLS and help the community, project proponents, and government reviewers understand any potential impacts the proposed redevelopment project would have.
- A historic context documenting urban renewal in Palama. The report would include efforts by the Honolulu Redevelopment Agency to procure land in the area, the role of private developers in the redevelopment, and how the redevelopment of Palama related to other redevelopment efforts in downtown Honolulu. The report would include information about the Mayor Wright housing development, Kukui Gardens, Kauluwela Apartments 1 and 2, Kalaniuhia, College Walk, Liliha Library, and Kauluwela Elementary.
- Thematic study of community organizations, such as the On Tong Society, in Palama
- Future study for the Honolulu Redevelopment Agency

Bibliography

Honolulu Advertiser,

January 29, 1961, p. A10, "Goal of Urban Renewal, Uglification?"

January 29, 1961, p. A14, "Kauluwela New Redevelopment Project"

July 2, 1967, p.1 "Kauluwela Feels Pain of Progress"

July 2, 1967, p.AD, "HCHA Negotiating to Redevelop Site"

July 12, 1967, p. A2, "Design 'Idea" OKd for Nuuanu Project"

December 20, 1967, p. B1, "Plans for Complex at Kauluwela Told"

March 20, 1969, p.C10, "Aloha Fund Center Work to Start"

May 17, 1969, p. A9, "United Fund Center to Be Built"

August 5, 1970, p. G8, "Aloha United Fund Moving to Center"

Honolulu Star-Bulletin,

October 6, 1967, p. A9, "Kauluwela Project Following Schedule"

June 5, 1968, p. A9, "Variance Sought in Building Project for the Elderly"

June 12, 1968, p. A22, "Bids Accepted for Kauluwela Project Plan"

	PRESENT NAME	HISTORIC NAME	ADDRESS	TMK	CATEGORY	ARCHITECT/BUILDER	DATE	ELIGIBLE?*	CRITERION	PROPOSED HISTORIC DISTRICT	CONDITION
1	Palama Settlement	Palama Settlement	810 N. Vineyard Boulevard	(1)1-7-045:001	Nonprofit		1925	Eligible	A and C		Fair
2	Liliha Drive Inn	HPL Company LLC Building	1408 Liliha Street	(1)1-7-032:099	Residential/Commercial	Takashi Nakamura	1960	Eligible	C		Fair
3	n/a	n/a	532 Waipa Lane	(1)1-7-032:005	Residential	Unknown	1956	Not Eligible	n/a		
4	n/a	n/a	1440 Holelua Place	(1)1-7-032:010	Residential	Unknown	1974	Potentially Eligible After 2024	C		Good
5	n/a	n/a	1434 Holelua Lane	(1)1-7-032:011	Residential	Unknown	1956	Not Eligible	n/a		Fair
6	n/a	n/a	1430 Holelua Place	(1)1-7-032:012	Residential	Unknown	1919	Not Eligible	n/a		Excellent
7	n/a	n/a	1424 Holelua Place	(1)1-7-032:013	Residential	Unknown	1940 or 1960	Not Eligible	n/a		Excellent
8	n/a	n/a	1430A Holelua Place	(1)1-7-032:016	Residential	Unknown	1974	Unknown	n/a		Unknown: Not visible from public right-of-way
9	Central Pacific Properties	n/a	1448 and 1502 Liliha Street	(1)1-7-032:020	Commercial	Unknown	1947	Not Eligible Individually, Eligible as a Contributing Resource to a Historic District	C	Liliha Historic District	Fair
10	Liliha Sunrise	Liliha Sunrise	1440 Liliha Street	(1)1-7-032:021	Commercial	Walter Wong	1964	Eligible	C	Liliha Historic District	Good
11	Lung Kong Kung Shaw Society Hall	Lung Kong Kung Shaw Society Hall	1428 and 1432 Liliha Street	(1)1-7-032:022	Commercial	Unknown	1952	Eligible	C	Liliha Historic District	Good
12	First Hawaiian Bank, Liliha Branch	American Security Bank	1420 Liliha Street	(1)1-7-032:023	Commercial	Edwin Bauer	1960	Eligible	C	Liliha Historic District	Good
13	Buck Toy Association Building	Buck Toy Association Building	572 North Vineyard Boulevard	(1)1-7-032:025	Public/Civic	Ray Akagi	1956	Eligible	C		Excellent
14	n/a	n/a	608 North Vineyard Boulevard	(1)1-7-032:026	Residential	Unknown	1960	Eligible	C		Excellent
15	n/a	n/a	634 B North Vineyard Boulevard	(1)1-7-032:031	Residential	Unknown	Built 1930; Altered 1980	Not Eligible	n/a		Excellent
16	n/a	n/a	634 C North Vineyard Boulevard	(1)1-7-032:032	Residential	Unknown	Built 1942; Altered 1972	Not Eligible	n/a		Fair
17	n/a	n/a	634 D North Vineyard Boulevard	(1)1-7-032:033	Residential	Unknown	Built 1942; Altered 1957	Not Eligible	n/a		Fair
18	n/a	n/a	634 F North Vineyard Boulevard	(1)1-7-032:035	Residential	Unknown	1936	Not Eligible	n/a		Fair
19	n/a	n/a	634 G North Vineyard Boulevard	(1)1-7-032:036	Residential	Unknown	1961	Not Eligible	n/a		Fair
20	n/a	n/a	634 H North Vineyard Blvd.	(1)1-7-032:037	Residential	Unknown	1977	Not Eligible	n/a		Good
21	n/a	n/a	634 I North Vineyard Boulevard	(1)1-7-032:038	Residential	Unknown	Built 1930; Altered 1967	Not Eligible	n/a		Good

*Note: Resources identified as "Not Eligible" appear to have lost historic integrity

	PRESENT NAME	HISTORIC NAME	ADDRESS	TMK	CATEGORY	ARCHITECT/BUILDER	DATE	ELIGIBLE?*	CRITERION	PROPOSED HISTORIC DISTRICT	CONDITION
22	n/a	n/a	617 Waipa Lane	(1)1-7-032:039	Residential	Unknown	Built 1935; Altered 1945	Not Eligible	n/a		Good
23	n/a	n/a	607 Waipa Lane	(1)1-7-032:040	Residential	Unknown	Built 1937; Altered 1972	Not Eligible	n/a		Good
24	n/a	n/a	601 Waipa Lane	(1)1-7-032:041	Residential	Unknown	1975	Not Eligible	n/a		Excellent
25	n/a	n/a	622 B North Vineyard Boulevard	(1)1-7-032:042	Residential	Unknown	1975	Not Eligible	n/a		Fair
26	n/a	n/a	642 I North Vineyard Boulevard	(1)1-7-032:048	Residential	Unknown	1973	Not Eligible	n/a		Good
27	n/a	n/a	642 H North Vineyard Boulevard	(1)1-7-032:049	Residential	Unknown	1973	Not Eligible	n/a		Fair
28	n/a	n/a	642 F North Vineyard Boulevard	(1)1-7-032:051	Residential	Unknown	1975	Not Eligible	n/a		Good
29	n/a	n/a	642 E North Vineyard Boulevard	(1)1-7-032:052	Residential	Unknown	1947	Eligible	C		Fair
30	n/a	n/a	642 D North Vineyard Boulevard	(1) 1-7-032:053	Residential	Unknown	1976	Not Eligible	n/a		Excellent
31	n/a	n/a	642 C North Vineyard Boulevard	(1) 1-7-032:054	Residential	Unknown	1928	Not Eligible	n/a		Good
32	n/a	n/a	642 B North Vineyard Boulevard	(1) 1-7-032:055	Residential	Unknown	1931	Not Eligible	n/a		Good
33	n/a	n/a	1416 Pua Lane	(1) 1-7-032:059	Residential	Unknown	1975	Not Eligible	n/a		Good
34	n/a	n/a	1416 A Pua Lane	(1) 1-7-032:060	Residential	Unknown	1964	Not Eligible	n/a		Good
35	n/a	n/a	1416 B Pua Lane	(1) 1-7-032:061	Residential	Unknown	1965	Not Eligible	n/a		Good
36	n/a	n/a	1422 A Pua Lane	(1) 1-7-032:063	Residential	Unknown	1963	Unknown	n/a		Unknown: Not visible from public right-of-way
37	n/a	n/a	1428 Pua Lane	(1) 1-7-032:064	Residential	Unknown	1962	Not Eligible	n/a		Fair
38	n/a	n/a	1431 Pua lane	(1) 1-7-032:069	Residential	Unknown	1920, 1963, 1963, and 1968	Not Eligible	n/a		Excellent
39	n/a	n/a	621 A Waipa Lane	(1) 1-7-032:076	Residential	Unknown	1964	Not Eligible	n/a		Excellent
40	n/a	n/a	642 J North Vineyard Boulevard	(1) 1-7-032:078	Residential	Unknown	1932	Not Eligible	n/a		Good
41	n/a	n/a	621 Waipa Lane	(1) 1-7-032:079	Residential	Unknown	1967	Not Eligible	n/a		Fair
42	n/a	n/a	637 B Waipa Lane	(1) 1-7-032:081	Residential	Unknown	1960	Not Eligible	n/a		Good
43	On Tong Tung Heong Society	On Tong Tung Heong Society	544 North Vineyard Boulevard	(1) 1-7-032:082	Residential	Unknown	1937	Eligible	C		Good
44	n/a	n/a	609 Waipa Lane	(1) 1-7-032:083	Residential	Unknown	1937	Eligible	C		Fair
45	n/a	n/a	615 Waipa Lane	(1) 1-7-032:084	Residential	Unknown	1941	Eligible	C		Good
46	n/a	n/a	1427 Pua Lane	(1) 1-7-032:085	Residential	Unknown	1920	Not Eligible	n/a		Fair
47	n/a	n/a	627 Waipa Lane	(1) 1-7-032:088	Residential	Unknown	1921	Not Eligible	n/a		Good
48	n/a	n/a	627 A Waipa Lane	(1) 1-7-032:089	Residential	Unknown	1921	Not Eligible	n/a		Good
49	n/a	n/a	619 Waipa Lane	(1) 1-7-032:090	Residential	Unknown	1938	Not Eligible	n/a		Good
50	n/a	n/a	1416 C Pua Lane	(1) 1-7-032:093	Residential	Unknown	1964	Not Eligible	n/a		Good
51	Ishihara Residence	Ishihara Residence	623 Waipa Lane	(1) 1-7-032:094	Residential	Unknown	1951	Eligible	C		Fair

*Note: Resources identified as "Not Eligible" appear to have lost historic integrity

APPENDIX A
MAYOR WRIGHT HOMES REDEVELOPMENT PROJECT
IDENTIFICATION OF HISTORIC PROPERTIES

	PRESENT NAME	HISTORIC NAME	ADDRESS	TMK	CATEGORY	ARCHITECT/BUILDER	DATE	ELIGIBLE?*	CRITERION	PROPOSED HISTORIC DISTRICT	CONDITION
52	Kauluwela II Apartments	Kauluwela II Apartments	400 North Vineyard Boulevard	(1) 1-7-023:001	Residential	Leo s. Wou & Associates	1971	Potentially Eligible after 2021	C	Kauluwela Historic District	Good
53	Liliha Square Shopping Center	Liliha Square Shopping Center	1425 Liliha Street	(1) 1-7-023:008	Residential	Geoffrey Fairfax	1974	Potentially Eligible after 2024	C	Kauluwela Historic District	Excellent
54	n/a	n/a	1461 and 1507 Liliha Street	(1) 1-7-023:025	Residential	George McLaughlin	1948	Not Eligible	n/a		Good
55	Aloha United Way	The Aloha United Fund Building	200 North Vineyard Boulevard	(1) 1-7-023:034	Nonprofit	Leo s. Wou & Associates	1970	Eligible	C	Kauluwela Historic District	Good
56	Keola-Hoonanea	Keola-Hoonanea	1465 Aala Street	(1) 1-7-023:036	Residential	Frank Slavsky	1971	Potentially Eligible after 2021	C	Kauluwela Historic District	Good
57	The Salvation Army, Kauluwela Mission Corps.	The Salvation Army	296 North Vineyard Boulevard	(1) 1-7-023:038	Religious	Alfred Yee	1957	Eligible	C	Kauluwela Historic District	Excellent
58	Kauluwela I	Kauluwela I	1450 Aala Street	(1) 1-7-023:039	Residential	Leo s. Wou & Associates	1970	Potentially Eligible after 2020	A	Kauluwela Historic District	Excellent
59	Kauluwela Elementary School	Kauluwela Elementary School	1480 Aala Street	(1) 1-7-023:041	Educational	Unknown	1938-1972	Eligible	C	Kauluwela Historic District	Good
60	Liliha Public Library	Liliha Public Library	1515 Liliha Street	(1) 1-7-023:043	Public/Civic	Stephen Oyakawa	1966	Eligible	C	Kauluwela Historic District	Good
61	Kalanihuia	Kalanihuia	1220 Aala Street	(1) 1-7-026:006	Residential	James Tsugawa	1968	Eligible	A and C		Good
62	Harry and Jeanette Weinberg Kukui Center		245 North Kukui Street	(1) 1-7-026:011	Commercial	Unknown	1968 or 1975	Eligible or Potentially Eligible after 2025	C		Excellent
63	Izumo Taishakyo Mission	Izumo Taishakyo Mission	215 North Kukui Street	(1) 1-7-026:012	Residential	Hego Fuchino (architect), Ichisaburo Takata (builder)	1923	Eligible	C		Excellent
64	Kukui Gardens	Kukui Gardens	408 North Beretania Street	(1) 1-7-026:013	Residential	Cesar Pelli	1969	Not Eligible	n/a		Good
65	Kukui Gardens	Kukui Gardens	401 North Beretania Street	(1) 1-7-026:053 and :054	Residential	Cesar Pelli	1969	Not Eligible	n/a		Good
66	Agmata Building	Agmata Building	1386 Liliha Street	(1) 1-7-029:001	Commercial	Unknown	1959	Not Eligible Individually, Eligible as a Contributing Resource to a Historic District	C	Liliha Historic District	Fair
67	Aldersgate United Methodist Church	Aldersgate United Methodist Church	1340 Liliha Street	(1) 1-7-029:002	Religious	Lemmon, Freeth, Haines & Jones	1961	Eligible	C	Liliha Historic District	Excellent
68	Mayor Wright Housing	Mayor Wright Housing	606 North Kukui Street	(1) 1-7-029:003	Residential	Law & Wilson (Robert Law)	1952	Eligible	A		Fair
69	Fujii Store	Fujii Store	1023 Desha lane	(1) 1-7-029:006	Commercial	Unknown	1913	Eligible	C		Fair
70	U&M Fujii Building	U&M Fujii Building	600 North King Street	(1) 1-7-029:011	Residential	Robert Katsuyoshi	1972	Potentially Eligible after 2022	C		Good
71	Ito Building	Ito Building	622 North King Street	(1) 1-7-029	Commercial	Ernest Hara	1961	Eligible	C		Fair
72	Liu's Trading	Kenneth Shioi Building	638 North King Street	(1) 1-7-029:013	Commercial	Ed Miyamasu	1963	Not Eligible	n/a		Fair

*Note: Resources identified as "Not Eligible" appear to have lost historic integrity

APPENDIX A
MAYOR WRIGHT HOMES REDEVELOPMENT PROJECT
IDENTIFICATION OF HISTORIC PROPERTIES

	PRESENT NAME	HISTORIC NAME	ADDRESS	TMK	CATEGORY	ARCHITECT/BUILDER	DATE	ELIGIBLE?*	CRITERION	PROPOSED HISTORIC DISTRICT	CONDITION
73	n/a	n/a	666 North King Street	(1) 1-7-029:014	Commercial	Unknown	1980	Not Eligible	n/a		Good
74	n/a	n/a	703 North Vineyard Boulevard	(1) 1-7-031:001	Residential	Unknown	1928	Not Eligible	n/a		Good
75	Pualani Manor	Pualani Manor	1216 Pua Lane	(1) 1-7-031:003	Residential	Jo Paul Rognstad	1974	Not Eligible	n/a		Excellent
76	Puuhala Ltd.	Puuhala Ltd.	1202 Pua lane	(1) 1-7-031:004	Residential	Hata	1961	Eligible	C		Good
77	n/a	n/a	1118 Pua Lane	(1) 1-7-031:006	Residential	Jo Paul Rognstad	1970	Not Eligible	n/a		Excellent
78	n/a	n/a	1115 C Banyan Street	(1) 1-7-031:007	Residential	Unknown	1916	Unknown	n/a		Unknown: Not visible from public right-of-way
79	n/a	n/a	1115 B Banyan Street	(1) 1-7-031:008	Residential	Unknown	1916	Unknown	n/a		Unknown: Not visible from public right-of-way
80	n/a	n/a	1115 A Banyan Street	(1) 1-7-031:009	Residential	Unknown	1974	Unknown	n/a		Unknown: Not visible from public right-of-way
81	n/a	n/a	1115 Banyan Street	(1) 1-7-031:010	Residential	Unknown	1974	Not Eligible	n/a		Excellent
82	n/a	n/a	1119 A Banyan Street	(1) 1-7-031:013	Residential	Unknown	1917	Unknown	n/a		Unknown: Not visible from public right-of-way
83	n/a	n/a	1121 Banyan Street	(1) 1-7-031:016	Residential	Unknown	Built 1916, altered 1936	Not Eligible	n/a		Good
84	n/a	n/a	1121 B Banyan Street	(1) 1-7-031:017	Residential	Unknown	1916	Not Eligible	n/a		Good
85	n/a	n/a	1121 C Banyan Street	(1) 1-7-031:018	Residential	Unknown	1930	Not Eligible	n/a		Good
86	n/a	n/a	1121 D Banyan Street	(1) 1-7-031:019	Residential	Unknown	1930	Not Eligible	n/a		Good
87	n/a	n/a	1127 B Banyan Street	(1) 1-7-031:022	Residential	Unknown	1922	Not Eligible	n/a		Good
88	n/a	n/a	1127 C Banyan Street	(1) 1-7-031:023	Residential	Unknown	1919	Unknown	n/a		Unknown: Not visible from public right-of-way
89	n/a	n/a	1127 D Banyan Street	(1) 1-7-031:024	Residential	Unknown	1917	Not Eligible	n/a		Good
90	n/a	n/a	1127 E Banyan Street	(1) 1-7-031:025	Residential	Unknown	1920	Unknown	n/a		Unknown: Not visible from public right-of-way
91	n/a	n/a	1155 Banyan Street	(1) 1-7-031:026	Residential	Unknown	1914, 1918, 1918	Unknown	n/a		Unknown: Not visible from public right-of-way
92	n/a	n/a	1131 Banyan Street	(1) 1-7-031:027	Residential	Unknown	1950	Not Eligible	n/a		Good

*Note: Resources identified as "Not Eligible" appear to have lost historic integrity

	PRESENT NAME	HISTORIC NAME	ADDRESS	TMK	CATEGORY	ARCHITECT/BUILDER	DATE	ELIGIBLE?*	CRITERION	PROPOSED HISTORIC DISTRICT	CONDITION
93	Hale O'Kanoa	Hale O'Kanoa	1110 Banyan Street	(1) 1-7-031:028	Residential	Haines, Jones, Farrell, White, Gima	1974	Potentially Eligible after 2024	C		Good
94	n/a	n/a	1207 Palama Street	(1) 1-7-031:032	Residential	Unknown	1921	Not Eligible	n/a		Fair
95	n/a	n/a	1213 Palama Street	(1) 1-7-031:033	Residential	Unknown	1909 or 1929	Not Eligible	n/a		Fair
96	n/a	n/a	1213A Palama Street	(1) 1-7-031:034	Residential	Unknown	1940 or 1950	Not Eligible	n/a		Fair
97	Oiu Hale Kanoa Condominium	Oiu Hale Kanoa Condominium	750 Kanoa Street	(1) 1-7-031:050	Residential	Alan Kajioka & Associates	1975	Eligible	C		Excellent
98	Vineyard Courtyard Apartments	Vineyard Courtyard Apartments	801 North Vineyard Boulevard	(1) 1-7-031:040	Residential	James Fagothey	1962	Eligible	C		Good
99	n/a	n/a	717B North Vineyard Boulevard	91) 1-7-031:042	Residential	Unknown	1930	Not Eligible	n/a		Fair
100	n/a	n/a	717A North Vineyard Boulevard	(1) 1-7-031:043	Residential	Unknown	1931	Eligible	C		Good
101	n/a	n/a	717 North Vineyard Boulevard	(1) 1-7-031:044	Residential	Unknown	1959	Not Eligible	n/a		Good
102	n/a	n/a	717 C North Vineyard Boulevard	(1) 1-7-031:046	Residential	Unknown	1938 or 1955	Not Eligible	n/a		Good
103	St. Elizabeth's Episcopal Church	St. Elizabeth's Episcopal Church	1029 Banyan Street	(1) 1-7-031:048	Religious	Edwin Bauer	1957	Eligible	C		Excellent
104	n/a	n/a	709 A North Vineyard Boulevard	(1) 1-7-031:053	Residential	Unknown	1934 or 1964	Not Eligible	n/a		Good
105	n/a	n/a	709 B North Vineyard Boulevard	(1) 1-7-031:054	Residential	Unknown	1933	Eligible	C		Excellent
106	n/a	n/a	1213 B Palama Street	(1) 1-7-031:063	Residential	Unknown	1931	Unknown	n/a		Unknown: Not visible from public right-of-way
107	Kaumakapili Church	Kaumakapili Church	766 North King Street	(1) 1-7-031:064	Residential	Harry Livingston Kerr	1911	Listed	C		Good
108	Tamashiro Market	Tamashiro Market	802 North King Street	(1) 1-6-001:001	Commercial	Walter Wong	Built 1962, altered 1968	Eligible	C		Good
109	n/a	n/a	842 North King Street	(1) 1-6-001:003	Residential	Unknown	Built 1930, altered 1950	Eligible	C		Fair
110	Young Hee Building	Young Hee Building	844 North King Street	(1) 1-6-001:004	Commercial/Residential	Unknown	1923	Not Eligible	n/a		Good
111	n/a	n/a	1015 Austin Lane	(1) 1-6-001:005	Residential	Unknown	1975	Not Eligible	n/a		Good
112	n/a	n/a	809 Kanoa Street	(1) 1-6-001:008	Commercial	Unknown	1923/1960	Not Eligible	n/a		Good

*Note: Resources identified as "Not Eligible" appear to have lost historic integrity

	PRESENT NAME	HISTORIC NAME	ADDRESS	TMK	CATEGORY	ARCHITECT/BUILDER	DATE	ELIGIBLE?*	CRITERION	PROPOSED HISTORIC DISTRICT	CONDITION
113	n/a	n/a	801 Kanoa Street	(1) 1-6-001:009	Commercial	Unknown	1939/1969	Not Eligible	n/a		Good
114	n/a	n/a	1104 Palama Street	(1) 1-6-001:019	Residential	Unknown	1910	Not Eligible	n/a		Fair
115	n/a	n/a	810 Kanoa Street	(1) 1-6-001:020	Residential	Unknown	1904 or 1964	Not Eligible	n/a		Good
116	n/a	n/a	1125 Austin Lane	(1) 1-6-001:021	Residential	Unknown	1926/1936 (7 Houses)	Not Eligible	n/a		Good
117	n/a	n/a	1124 Palama Street	(1) 1-6-001:026	Residential	Unknown	1923 or 1940 (2 Houses)	Not Eligible	n/a		Fair
118	n/a	n/a	811 B Lakimela Lane	(1) 1-6-001:045	Residential	Unknown	1968	Not Eligible	n/a		Good
119	n/a	n/a	811 A Lakimela Lane	(1) 1-6-001:049	Residential	Unknown	1974	Not Eligible	n/a		Fair
120	n/a	n/a	1214 Palama Street	(1) 1-6-001:051	Residential	Unknown	1912, 1912, 1914, 1914	Eligible	C		Good
121	n/a	n/a	1210 Palama Street	(1) 1-6-001:052	Residential	Unknown	1929, 1955, 1955	Not Eligible	n/a		Fair
122	n/a	n/a	1118 Palama Street	(1) 1-6-001:090	Residential	Unknown	1929	Eligible	C		Good
123	n/a	n/a	814 Lakimela Lane	(1) 1-6-001:096	Residential	Unknown	1940, 1940, 1941	Not Eligible	n/a		Good
124	Princess Victoria Kaiulani Elementary School	Princess Victoria Kaiulani Elementary School	783 North King Street	(1) 1-5-005:016	Educational	Unknown	1952-1959	Unknown	n/a		Good
125	K. Sumiyoshi Apartments	K. Sumiyoshi Apartments	980 Robello Lane	(1) 1-5-005:019	Residential	Walter Wong	1967	Eligible	C		Good
126	Diamond Head Seafood Wholesale	n/a	966 Robello Lane	(1) 1-5-005:021	Commercial	Unknown	1971	Not Eligible	n/a		Fair
127	Honolulu Community College	Honolulu Community College	826 Dillingham Boulevard	(1) 1-5-017:006	Educational	Unknown	1971, 1973	Potentially Eligible after 2021 and 2023	C		Excellent
128	n/a	n/a	602 Dillingham Boulevard	(1) 1-5-006:007	Commercial	Unknown	1977	Not Eligible	n/a		Fair
129	n/a	Hula Land Inc. Apartments	955 Akepo Lane	(1) 1-5-006:008	Residential	Takashi Nakamura	1961	Eligible	C		Fair
130	Aloha Tofu	n/a	961 Akepo Lane	(1) 1-5-006:009	Commercial	Frank Wynkoop	1975	Potentially Eligible after 2025	C		Good
131	Akepo Arms	Akepo Arms	967 Akepo Lane	(1) 1-5-006:010	Residential	Unknown	1961	Eligible	C		Good
132	n/a	n/a	954 Akepo Lane	(1) 1-5-006:018	Commercial	Unknown	1965	Eligible	C		Fair

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	PRESENT NAME	HISTORIC NAME	ADDRESS	TMK	CATEGORY	ARCHITECT/BUILDER	DATE	ELIGIBLE?*	CRITERION	PROPOSED HISTORIC DISTRICT	CONDITION
133	n/a	n/a	942 Akepo Lane	(1) 1-5-006:020	Residential	Unknown	1919, 1927, 1942	Not Eligible	n/a		Fair
134	n/a	n/a	938 Akepo Lane	(1) 1-5-006:021	Residential	Unknown	1925	Not Eligible	n/a		Poor
135	n/a	n/a	938 A Akepo Lane	(1) 1-5-006:023	Residential	Unknown	1924	Not Eligible	n/a		Good
136	n/a	n/a	938 C Akepo Lane	(1) 1-5-006:024	Residential	Unknown	1927	Unknown	n/a		Unknown: Not visible from public right-of-way
137	n/a	n/a	940 E Akepo Lane	(1) 1-5-006:025	Residential	Unknown	1927	Unknown	n/a		Excellent
138	n/a	Sunrise Soda Waterworks Co., Ltd. 1936	967 Robello Lane	(1) 1-5-006:031	Commercial	Unknown	1909/1925/1928	Eligible	C		Good
139	n/a	n/a	979 Robello Lane	(1) 1-5-006:032	Commercial	Unknown	1961	Not Eligible	n/a		Fair
140	Centro Cristiano Su Gran Alabanza	Palama Theater, also know as Tamboanga Theatre	701 North King Street	(1) 1-5-006:033	Commercial	Louis Davis	1930	Eligible	C		Good
141	n/a	n/a	719 North King Street	(1) 1-5-006:034	Commercial	Unknown	1966	Eligible	C		Good
142	n/a	Yick Lung Company Warehouse	949 Akepo Lane	(1) 1-5-006:036	Commercial	Harold Miyamoto	Built 1959, altered 1968	Eligible	C		Good
143	DHS	n/a	961 Robello Lane	(1) 1-5-006:040	Commercial/Residential	Unknown	1960	Not Eligible	n/a		Good
144	Human Services Department	Oahu Railway and Land Company Depot - Honolulu Station	377 North King Street	(1) 1-5-007:001	Public/Civic	Guy Rothwell	1940	Listed	A and C		Good
145	Tong Fat Co. Ltd.	Tong Fat Co. Ltd.	425 North King Street	(1) 1-5-007:003	Commercial	Unknown	1915, 1921, 1953	Eligible	C		Good
146	n/a	n/a	909 Kaaahi Place	(1) 1-5-007:031	Commercial	Unknown	1967	Not Eligible	n/a		Fair
147	Richard's Meat Market	n/a	906 Kaaahi Place	(1) 1-5-007:032	Commercial	Unknown	1970	Not Eligible	n/a		Fair
148	n/a	n/a	524 Kaaahi Street	(1) 1-5-007:033	Commercial	Unknown	1968	Eligible	C		Good
149	n/a	n/a	916 Kaaahi Place	(1) 1-5-007:041	Commercial	Unknown	1924 or 1950	Eligible	C		Good
150	Sigs Collision Center	n/a	915 Kaaahi Place	(1) 1-5-007:042	Commercial	Ray Kenning	1972	Not Eligible	C		Good
151	First Hawaiian Bank	First Hawaiian Bank	445 North King Street	(1) 1-5-007:043	Commercial	Haydn Philips	1975	Potentially Eligible after 2025	C		Excellent
152	Hawaii Chinese Baptist Church	n/a	477 North King Street	(1) 1-5-007:046	Religious	Unknown	1977	Not Eligible	n/a		Good

*Note: Resources identified as "Not Eligible" appear to have lost historic integrity

	PRESENT NAME	HISTORIC NAME	ADDRESS	TMK	CATEGORY	ARCHITECT/BUILDER	DATE	ELIGIBLE?*	CRITERION	PROPOSED HISTORIC DISTRICT	CONDITION
153	Kakaako Boxing Club	Masaichi Nakaoka Building	922 Kaamahu Place	(1) 1-5-007:048	Commercial	Unknown	1968	Potentially Eligible after 2018	C		Fair
154	n/a	Rudolph Cockett Building	916 Kaamahu Place	(1) 1-5-007:049	Commercial	Unknown	1967	Eligible	C		Good
155	Institute for Human Services	Von Hamm Textiles	546 Kaahi Street	(1) 1-5-007:050	Nonprofit	Stanley Shigemura	1973	Potentially Eligible after 2023	C		Good
156	Kapalama Pet Hospital	n/a	551 Dillingham Boulevard	(1) 1-5-007:054	Commercial	Unknown	1968 or 1974	Not Eligible	n/a		Fair
157	Aala Park	Aala Park	280 North King Street	(1) 1-7-027:002	Park	Unknown	1899	Eligible	A		Fair
158	n/a	n/a	1466 Liliha Street	(1) 1-7-033:001	Commercial	Unknown	1950	Not Eligible Individually, Eligible as a Contributing Resource to a Historic District	C	Liliha Historic District	Fair
159	n/a	n/a	1502 Liliha Street	(1) 1-7-033:044	Commercial	Unknown	Built 1949, altered 1962	Eligible	C	Liliha Historic District	Fair
160	n/a	n/a	1470 Liliha Street	(1) 1-7-033:045	Residential/Commercial	Unknown	1960	Not Eligible Individually, Eligible as a Contributing Resource to a Historic District	C	Liliha Historic District	Good
161	n/a	n/a	507A Hiram Lane	(1) 1-7-033:046	Residential	Unknown	Built 1923, altered 1934	Not Eligible	n/a		Fair

*Note: Resources identified as "Not Eligible" appear to have lost historic integrity

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Palama Settlement
Historic Name: Palama Settlement
Property Owner: Palama Settlement
Address: 810 N. Vineyard Blvd.
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-045:001
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322997
Longitude: -157.863769
Parcel Number: (1)1-7-045:001
Historic District: N/A
Original Use: Nonprofit
Current Use: Nonprofit
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1925 (8 Buildings)

II. Photograph of Resource

Photo 1: View of Palama Settlement looking northeast from N. Vineyard Blvd.

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☐Commercial ☐Educational ☒Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☒A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☒Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☒Horizontal Wood Siding	☒Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☒Stone
☒Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☒Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☒Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☒Other: floor to ceiling sliding doors		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☒Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

Palama Settlement consists of six buildings and a pool on approximately 6 acres bounded by the H-1 freeway to the north, Palama St. to the northwest, N. Vineyard Street to the southwest, and a residential neighborhood to the south and east. Buildings are clustered along the western and southern sides of the property, an expansive lawn and parking characterize the eastern and northern sides.

Three of the existing buildings and the pool date from the campus' construction in 1925. These early two story buildings are characterized by raised foundations, use of horizontal and vertical wood siding, full height porticos, and multipane double hung windows. A modern style gymnasium, auxillary building, and community meeting buildings were constructed in in the late 1960s.

Additional Photographic Documentation

Photo 2: View of Palama Settlement looking southeast from Palama Street

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of Palama Settlement looking northeast from N. Vineyard Blvd.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 4: View of Palama Settlement looking northwest from N. Vineyard Blvd.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 5: View of Palama Settlement looking northeast from N. Vineyard Blvd.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 6: View of Palama Settlement looking north from N. Vineyard Blvd.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 7: View of Palama Settlement looking northeast from N. Vineyard Blvd.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Frances Hee, Raynette Tinay, and Reynold Leong
Address: 1466 Liliha St.
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-033:001
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320853
Longitude: -157.861175
Parcel Number: (1)1-7-033:001
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1950

II. Photograph of Resource

Photo 1: View of 1466 Liliha St. looking northeast from Liliha Street

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible (individually)
  - ☒Eligible (as a contributing resource to a historic district)
  - ☐Listed
  - ☒Contributing to Historic District:
    Name of District: Potential Liliha Street Historic District
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☒Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☒Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☒Other: storefront		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 1466 Liliha Street looking north from LIliha Street

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.	
Historic Name: Click here to enter text.	
Property Owner: Tony and Alan Chun, American Drug C. Ltd.,	
Address: 1502 Liliha St.	
City/ Town/ Location: Honolulu	
County: Honolulu	
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-033:044	
Subdivision/Neighborhood: Kalihi-Palama	
Latitude: 21.321045	
Longitude: -157.860832	
Parcel Number: (1)1-7-033:044	
Historic District: N/A	
Original Use: Residential	
Current Use: Residential	
Architect/ Builder (if known): Click here to enter text.	
Date of Construction (if known): Built 1949, altered 1962	

II. Photograph of Resource

Photo 1: View of 1502 Liliha Street looking northeast from Liliha Street

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☒Contributing to Historic District:
  - Name of District: Potential Liliha Street Historic District
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☒Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☒Other: Storefront		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 1502 Liliha Street looking north from Liliha Street

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Vass LLC
Address: 1470 Liliha St.
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-033:045
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320953
Longitude: -157.861108
Parcel Number: (1)1-7-033:045
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1960

II. Photograph of Resource

Photo 1: View of 1470 Liliha Street looking northwest from Liliha Street

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible (individually)
  - ☒Eligible (as a contributing resource to a historic district)
  - ☐Listed
  - ☒Contributing to Historic District:
    Name of District: Potential Liliha Street Historic District
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☒Other: Horizontal sliders, storefront		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☒Other: covered entry		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	JKA Trust
Address:	507A Hiram Lane
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-7-033:046
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.321003
Longitude:	-157.861264
Parcel Number:	(1)1-7-033:046
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	2 Buildings built 1923, altered 1934

II. Photograph of Resource

Photo 1: View of 507A Hiram Lane looking northeast from Hiram Lane

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☐Good

☒Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☒Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Liliha Drive Inn
Historic Name: HPL Company LLC Building
Property Owner: HPL Co LLC
Address: 1408 Liliha Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:099
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320022
Longitude: -157.-157.862444
Parcel Number: (1)1-7-032:099
Historic District: N/A
Original Use: Residential/Commercial
Current Use: Residential/Commercial
Architect/ Builder (if known): Takashi Nakamura
Date of Construction (if known): 1960

II. Photograph of Resource

Photo 1: View of 1408 Liliha St. looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 3
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This concrete block building houses a restaurant on the first story and residential units above. It sits at the intersection of Vineyard Boulevard and Liliha Street, and is characterized by its rounded corner.

The base of the L-shaped building runs parallel to Liliha and is two stories, while the more *mauka* (mountain facing), long side is three, with the courtyard formed by the L used for parking.

It has a flat roof with shallow overhanging eaves, and similarly shallow canopies above the first and second stories. The restaurant is entered from two sets of aluminum double doors along Liliha Street, and it features three single pane display windows, each with a set of three jalousie window transoms above. The upper stories have jalousie windows in pairs and sets of three.

On the parking lot side, on the first story a single aluminum door enters the restaurant, and in the long wing is a store with a door and two display windows. A projecting, dogleg set of concrete steps with a shed roof accesses the second story above the restaurant, and a similar set of steps at the end of the *mauka* (mountain facing) wing provides access to the units in this wing. These unit's rear lanai overlook the parking lot and have a solid CMU balustrade. Aluminum sliding doors open on these lanai and CMU partion walls provide each unit's lanai with privacy.

This building is a contributing feature to the potential Liliha Street Commercial Historic District.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Liang, Xu Ming; Li, Jin Rong; Liang, Ya Jun
Address: 532 Waipa Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:005
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320771
Longitude: -157.862109
Parcel Number: (1)1-7-032:005
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1956

II. Photograph of Resource

Photo 1: View of 532 Waipa Lane looking northeast from Waipa Lane

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☐Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☒Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Catalino Pascua
Address: 1440 Holelua Place
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:010
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321112
Longitude: -157.861747
Parcel Number: (1)1-7-032:010
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1974

II. Photograph of Resource

Photo 1: View of 1440 Holelua Place looking north

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible after 2024
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☒Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	CMU

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☒Other: horizontal sliders		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 1440 Holelua Place looking northwest

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 1440 Holelua Place looking north

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Lin, Leo; Lin, Frances
Address: 1434 Holelua Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:011
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321098
Longitude: -157.861892
Parcel Number: (1)1-7-032:011
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1956

II. Photograph of Resource

Photo 1: View of 1434 Holelua Lane looking northwest from Holelua Lane

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☒Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☒Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Lee, Hon You; Lee, Oi Ping
Address: 1430 Holelua Place
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:012
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320979
Longitude: -157.861985
Parcel Number: (1)1-7-032:012
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1919

II. Photograph of Resource

Photo 1: View of 1430 Holelua Place looking north from Holelua Place

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☒Excellent

☐Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☒Engineered Siding	T111

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☒Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☒Vinyl
☒Other: horizontal sliding		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Hou, David Trust; Hou, Geraldine Y.W.L. Trust; Lum, Rita Lill-Hou
Address: 1424 Holelua Place
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:013
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320910
Longitude: -157.862125
Parcel Number: (1)1-7-032:013
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1960

II. Photograph of Resource

Photo 1: View of 1424 Holelua Place looking north from Holelua Place

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☒Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☒Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☒Other: horizontal sliding		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Xiao Jie Liang Lu
Address: 1430A Holelua Place
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:016
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321051
Longitude: -157.862052
Parcel Number: (1)1-7-032:016
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1974

II. Photograph of Resource

Not visible from public right of way

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☐Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☐Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☒Unknown – potentially eligible after 2024

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☐Stories: Click here to enter text. ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☐None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Central Pacific Properties
Historic Name: Click here to enter text.
Property Owner: Shirai Group LLC
Address: 1448 and 1502 Liliha Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:020
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320750
Longitude: -157.861382
Parcel Number: (1)1-7-032:020
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1947

II. Photograph of Resource

Photo 1: View of 1448/1502 Liliha Street looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☒Not Eligible (individually)
  - ☒Eligible (contributing resource to historic district)
  - ☐Listed
  - ☒Contributing to Historic District:
    Name of District: Potential Liliha Street Historic District
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU and plaster

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Liliha Sunrise	
Historic Name: Liliha Sunrise	
Property Owner: Sunrise Dragon LLC	
Address: 1440 Liliha Street	
City/ Town/ Location: Honolulu	
County: Honolulu	
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:021	
Subdivision/Neighborhood: Kalihi-Palama	
Latitude: 21.320648	
Longitude: -157.861455	
Parcel Number: (1)1-7-032:021	
Historic District: N/A	
Original Use: Commercial	
Current Use: Commercial	
Architect/ Builder (if known): Walter Wong	
Date of Construction (if known): 1964	

II. Photograph of Resource

Photo 1: View of 1440 Liliha St. looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☒State Register of Historic Places

☐Not Eligible

☒Eligible

☐Listed

☒Contributing to Historic District:

Name of District: potential Liliha Street Historic District

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 3 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU and coral

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

The three story commercial-residential complex at 1436 Liliha (1963), designed by Walter Wong, features a metal screened upper two stories and split-faced, brick-sized, concrete block storefronts on the first story. In the rear is a parking lot bordered by apartments on three sides. The balustrades of the apartments' lanai/walkway are embellished by decorative blocks and split-faced, brick-sized, concrete block.

This building is a contributing feature to the potential Liliha Street Commercial Historic District.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Lung Kong Kung Shaw Society Hall
Historic Name: Lung Kong Kung Shaw Society Hall
Property Owner: Lung Kong Kung Shaw Society
Address: 1428 and 1432 Liliha Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:022
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320534
Longitude: -157.861840
Parcel Number: (1)1-7-032:022
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): George Sui
Date of Construction (if known): 1952

II. Photograph of Resource

Photo 1: View of 1428 Liliha Street looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☒Commercial ☐Educational ☒Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☒Contributing to Historic District:
    Name of District: Potential Liliha Street Historic District
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 3
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☒Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☒Other: Awning		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This three story Chinese society hall is characterized by its heavily framed second story windows and reinforced concrete left side corner, poured to resemble clapboard siding. It has three store fronts on the first story, each with a single aluminum frame door and a display window. Horizontal wood louvers serve as a transom running across each store front. The upper story windows are not all original.

The Lung Kong Kung Shaw Society, Honolulu Chapter was organized in 1919, and is comprised of members with the surnames of Lau, Quon, Chong, and Chu.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: First Hawaiian Bank, Liliha Branch
Historic Name: American Security Bank
Property Owner: FHB Properties, Inc.
Address: 1420 Liliha Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:023
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320412
Longitude: -157.861898
Parcel Number: (1)1-7-032:023
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Edwin Bauer
Date of Construction (if known): 1960

II. Photograph of Resource

Photo 1: View of 1420 Liliha Street looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☒State Register of Historic Places

☐Not Eligible

☒Eligible

☐Listed

☒Contributing to Historic District:

Name of District: Potential Liliha Street Historic District

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☒Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☒Other: hopper		

Lanai(s)

☐Arcade	☒Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

Rendered in an inspired moderne manner, this two-story concrete building is eight bays long, with each bay demarcated by ground to roof fin. The first story is recessed behind the second, and the third bay from the right has a projecting pylon which accommodates the vertical circulation. On the ground floor the two bays to the right of the pylon accommodate the ATM machine, while the two bays to the left provide entry to the building with their aluminum double doors. A bank of quadruple stacked single pane windows runs across the second story. The lowest and third windows are larger and fixed, and the smaller are inward opening hopper. Thin fins separate one set of windows in the bank from the next. There is a parking lot in the rear.

This building is a contributing feature to the potential Liliha Street Commercial Historic District.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Buck Toy Association Building
Historic Name: Buck Toy Association Building
Property Owner: Buck Toy Club
Address: 572 North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:025
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320902
Longitude: -157.862552
Parcel Number: (1)1-7-032:025
Historic District: N/A
Original Use: Public/Civic
Current Use: Public/Civic
Architect/ Builder (if known): Ray Akagi
Date of Construction (if known): 1956

II. Photograph of Resource

Photo 1: View of 572 N. Vineyard Blvd. looking northeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☐Commercial ☐Educational ☒Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☒Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☒Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☒Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

Referred to as “modified Chinese” in style by the newspapers of the time, the Buck Toy Association building engages attention with its varied textures and Chinese elements. The green-tiled, flared, hipped gablet roof, red moongate entrance with symbols of longevity, and patterned red window muntins proclaim the Chinese heritage of this fraternal society. Beyond the Chinese ornamentation, the contrasting textures and colors of the smooth white reinforced concrete walls with red brick kick panels, gray cast stone, and Roman brick veneer add another dimension of visual enticement to the building. As in other urban society halls, the first story is devoted to commercial space and the second story is for the use of society members. The Buck Toy Association is composed of families whose ancestors immigrated to Hawaii from the village of Buck Toy in China’s Chungshan district.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Souza, Patrick W.; Souza, Julia H.
Address: 608 North Vineyard Boulevard, Condominiums
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:026
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321227
Longitude: -157.862704
Parcel Number: (1)1-7-032:026
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1960

II. Photograph of Resource

Photo 1: View of 608 N. Vineyard Blvd. looking north

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☒State Register of Historic Places

☐Not Eligible

☒Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 3 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU Block

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This three story, L-shaped condominium has CMU block walls, and a flat roof with overhanging eaves. The courtyard formed by the two wings of the L is devoted to paved, uncovered parking. The sides facing the parking lot are characterized by lanai/walkway with metal railings. Doors to the apartments, as well as jalousie windows front on the lanai/walkway. Projecting concrete, dogleg steps at end of each wing provide access to the upper stories. This condominium contains 18 one bedroom units.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Padayao, Diego R.; Manzano, Editha P.
Address: 634 B North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:031
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322108
Longitude: -157.862337
Parcel Number: (1)1-7-032:031
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): Built 1930 altered 1980

II. Photograph of Resource

Photo 1: View of 634B N. Vineyard Blvd. looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☒Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☒Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☒Other: horizontal slider		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Kageyama, Sy S.; Casabar, Candee V.G.
Address: 634 C North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:032
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321616
Longitude: -157.862824
Parcel Number: (1)1-7-032:032
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): Built 1942, altered 1972

II. Photograph of Resource

Photo 1: View of 634C N. Vineyard Blvd. looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☐Good

☒Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☒Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: McDonald, Martin L.; Castillo-McDonald, Conchita; Mabanag, Anna V.
Address: 634 D North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:033
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321655
Longitude: -157.862729
Parcel Number: (1)1-7-032:033
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): Built 1942, altered 1957

II. Photograph of Resource

Photo 1: View of 634D N. Vineyard Blvd. looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☒Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Li, Ri R. Trust
Address:	634 F North Vineyard Boulevard
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-7-032:035
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.321737
Longitude:	-157.862560
Parcel Number:	(1)1-7-032:035
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1936

II. Photograph of Resource

Photo 1: View of 634F N. Vineyard Blvd. looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☐Good

☒Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Ma, Ngai; Ma, Chun; Ho, Maureen L.M.
Address: 634 G North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:036
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321836
Longitude: -157.862397
Parcel Number: (1)1-7-032:036
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1961

II. Photograph of Resource

Photo 1: View of 634G N. Vineyard Blvd. looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☒Other: post and pier		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☒Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Richard Tsuruda
Address: 634 H North Vineyard Blvd.
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:037
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321882
Longitude: -157.862299
Parcel Number: (1)1-7-032:037
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1977

II. Photograph of Resource

Photo 1: View of 634H N. Vineyard Blvd. looking east

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☒Other: post and pier		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Lau, Ping Hung; Lau, So Har Chan
Address: 634 I North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:038
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322399
Longitude: -157.862154
Parcel Number: (1)1-7-032:038
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): Constructed 1930, altered 1967

II. Photograph of Resource

Photo 1: View of 634I N. Vineyard Blvd. looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☒Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Lee, Alan K.C. and Janie Y.Y. Trust
Address:	617 Waipa Lane
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-7-032:039
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.321779
Longitude:	-157.862230
Parcel Number:	(1)1-7-032:039
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	Built 1935; altered 1945

II. Photograph of Resource

Photo 1: View of 617 Waipa Lane looking north from Waipa Lane

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☒Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☒Other: cementitious tile		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☒Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Lin, Jian Wen; Lee, Kam Mui
Address: 607 Waipa Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:040
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321603
Longitude: -157.862568
Parcel Number: (1)1-7-032:040
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): Built 1937; altered 1972

II. Photograph of Resource

Photo 1: View of 607 Waipa Lane looking west from Waipa Lane

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐Below Ground
- ☐N/A
- ☐Other: Click here to enter text.

Exterior Walls (siding):
- ☐Aluminum Siding
- ☐Asbestos
- ☐Brick
- ☐Ceramic
- ☐Concrete
- ☐Horizontal Wood Siding
- ☐Log
- ☐Metal
- ☐Shingles-Asphalt
- ☐Shingles-Wood
- ☐Stone
- ☐Stucco
- ☒Vertical Wood Siding
- ☒Engineered Siding
- ☐Plywood
- ☐OSB
- ☐Fiberboard
- ☐Fiber Cement
- ☐Vinyl Siding
- ☒Other: CMU

Roof:
- ☒Asphalt, shingle
- ☐Asphalt, roll
- ☐Metal
- ☐Other: Click here to enter text.
- ☐Slate
- ☐Built Up
- ☐Ceramic Tile
- ☐Wood Shingle
- ☐None

Foundation:
- ☐Brick
- ☐Concrete Block
- ☐Other: Click here to enter text.
- ☒Concrete Slab
- ☐Poured Concrete
- ☐Stone
- ☐Raised/Pile

Structural Support:
- ☐Baled Hay
- ☒Concrete Block
- ☐Concrete Framed
- ☐Concrete Poured
- ☐Other: Click here to enter text.
- ☒Frame-wood
- ☐Frame-metal/steel
- ☐Brick-load bearing
- ☐Stone-load bearing
- ☐Puddled Clay
- ☐Rammed Earth
- ☐Sod

Windows:
- ☐Double Hung Sash
- ☐Single Hung Sash
- ☐Casement
- ☒Fixed
- ☐Other: Click here to enter text.
- ☒Jalousie
- ☐Glass Block
- ☐None/Unknown
- ☐Ribbon
- ☐Stained Glass
- ☐Replacement
- ☐Aluminum
- ☐Vinyl

Lanai(s)
- ☐Arcade
- ☐Balcony
- ☐Porte-Cochere
- ☒Other: covered entry
- ☐Recessed
- ☐Stoop
- ☐Portico
- ☐Wrap-around
- ☐Verandah
- ☐None

Chimney
- ☐Brick
- ☐Concrete
- ☒None
- ☐Stuccoed Masonry
- ☐Stone
- ☐Other: Click here to enter text.
- ☐Stove Pipe
- ☐Siding

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Federico & Ines Foronda
Address: 601 Waipa Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:041
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321544
Longitude: -157.862668
Parcel Number: (1)1-7-032:041
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1975

II. Photograph of Resource

Photo 1: View of 601 Waipa Lane looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☒Excellent

☐Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	T-111

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☒Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☒Other: Awning		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Carol Ann Iwanaga
Address: 622 B North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:042
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321471
Longitude: -157.862731
Parcel Number: (1)1-7-032:042
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1975

II. Photograph of Resource

Photo 1: View of 622B N. Vineyard Blvd. looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☒Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☒Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Kim Chi Thi Ho
Address:	642 I North Vineyard Boulevard
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-7-032:048
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.322130
Longitude:	-157.862365
Parcel Number:	(1)1-7-032:048
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1973

II. Photograph of Resource

Photo 1: View of 642I N. Vineyard Blvd. looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☒Other: horizontal sliders		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Prescott Chun
Address: 642 H North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:049
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322075
Longitude: -157.862432
Parcel Number: (1)1-7-032:049
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1973

II. Photograph of Resource

Photo 1: View of 642H N. Vineyard Blvd. looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Benita De Vera
Address: 642 F North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:051
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321957
Longitude: -157.862683
Parcel Number: (1)1-7-032:051
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1975

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

II. Photograph of Resource

Photo 1: View of 642F N. Vineyard Blvd.

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☒Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☒Other: Front porch		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Mateo, Iris A.
Address:	642 E North Vineyard Boulevard
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-7-032:052
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.321915
Longitude:	-157.862783
Parcel Number:	(1)1-7-032:052
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1947

II. Photograph of Resource

Photo 1: View of 642E N. Vineyard Blvd. looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☐Good

☒Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☒State Register of Historic Places

☐Not Eligible

☒Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☒Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☒Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☒Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☒Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Florentino & Ester Maddela
Address: 642D N. Vineyard Blvd.
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:053
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321865
Longitude: -157.862867
Parcel Number: (1)1-7-032:053
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1976

II. Photograph of Resource

Photo 1: View of 642D N. Vineyard Blvd.

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☒Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Healing, Eugene H.
Address:	642 C North Vineyard Boulevard
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-7-032:054
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.321799
Longitude:	-157.862944
Parcel Number:	(1)1-7-032:054
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1928

II. Photograph of Resource

Photo 1: View of 642C N. Vineyard Blvd. looking west

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):

- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
  - Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)

- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☒Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☒Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Bautista, Narcisco M.; Bautista, Adoracion Q.
Address: 642 B North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:055
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321760
Longitude: -157.863043
Parcel Number: (1)1-7-032:055
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1931

II. Photograph of Resource

Photo 1: View of 642B N. Vineyard Blvd. looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☒Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Candelario Joint Trust
Address: 1416 Pua Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:059
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322116
Longitude: -157.863090
Parcel Number: (1)1-7-032:059
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1975

II. Photograph of Resource

Photo 1: View of 1416 Pua Lane looking north

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☒Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: 1416 A Pua Lane LLC
Address: 1416 A Pua Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:060
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322230
Longitude: -157.863119
Parcel Number: (1)1-7-032:060
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1964

II. Photograph of Resource

Photo 1: View of 1416A Pua Lane looking northeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Lum, Wing Yee Lau; Lum, David; Lum, Wes
Address: 1416 B Pua Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:061
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322295
Longitude: -157.863179
Parcel Number: (1)1-7-032:061
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1965

II. Photograph of Resource

Photo 1: View of 1416B Pua Lane looking northeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☒Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Chung, Lillian L.Y.; Chung, Pearl L.G.
Address: 1422 A Pua Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:063
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322283
Longitude: -157.863006
Parcel Number: (1)1-7-032:063
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1963

II. Photograph of Resource

Not visible from public right of way.

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☐Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☒Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☐Stories:
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	

☐Other: Click here to enter text.

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile

☐Other: Click here to enter text.

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	

☐Other: Click here to enter text.

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl

☐Other: Click here to enter text.

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None

☐Other: Click here to enter text.

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☐None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Chung, Pearl L.G.; Chung, Lillian L.Y.; Chung Family Trust
Address:	1428 Pua Lane
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-7-032:064
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.322270
Longitude:	-157.862850
Parcel Number:	(1)1-7-032:064
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1962

II. Photograph of Resource

Photo 1: View of 1428 Pua Lane looking north

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☐Good

☒Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Tam, Michael K.W.
Address: 1431 Pua Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:069
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322319
Longitude: -157.862550
Parcel Number: (1)1-7-032:069
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1920; 1963; 1963; 1968

II. Photograph of Resource

Photo 1: View of 1431 Pua Lane looking east

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☒Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☒Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☒Other: horizontal sliding		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 1431 Pua Lane looking northeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 1431 Pua Lane looking east

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Bagwan, Mary Ann
Address: 621 A Waipa Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:076
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322267
Longitude: -157.862360
Parcel Number: (1)1-7-032:076
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1964

II. Photograph of Resource

Photo 1: View of 621A Waipa Lane looking northwest from Waipa Lane

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☒Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1.5	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	T-111

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☒Other: horizontal sliding		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Lee, Richard K.W. Trust; Lee, Doris Y.M. H. Trust
Address:	642 J North Vineyard Boulevard
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-7-032:078
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.322072
Longitude:	-157.862243
Parcel Number:	(1)1-7-032:078
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1932

II. Photograph of Resource

Photo 1: View of 642J N. Vineyard Blvd. looking northeast from N. Vineyard Blvd.

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):

- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
  - Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)

- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☒Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☒Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☒Other: Horizontal sliding		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 642J N. Vineyard Blvd. looking southwest from Waipa Lane

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Lee, Richard K.W.; Lee, Doris Y.M.H.
Address: 621 Waipa Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:079
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321888
Longitude: -157.862170
Parcel Number: (1)1-7-032:079
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1967

II. Photograph of Resource

Photo 1: View of 621 Waipa Lane looking northwest from Waipa Lane

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☒Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☒Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Vidad, Ceasar R.V.; Vidad, Maria S.C.
Address:	637 B Waipa Lane
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-7-032:081
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.322225
Longitude:	-157.862089
Parcel Number:	(1)1-7-032:081
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1960

II. Photograph of Resource

Photo 1: View of 637B looking north from Waipa Lane

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☒Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☒Other: covered entry		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: On Tong Tung Heong Society
Historic Name: On Tong Tung Heong Society
Property Owner: On Tong Tung Heong Society
Address: 544 North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:082
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320619
Longitude: -157.862368
Parcel Number: (1)1-7-032:082
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1937

II. Photograph of Resource

Photo 1: View of 544 N. Vineyard Blvd. looking northeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☐Commercial ☐Educational ☐Public/Civic ☒Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☒Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☒Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☒Other: Projecting		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This two story, single wall building is distinguished by its centered, two story portico which is supported by square, paneled columns on the first story and has a second story balcony. It sits on a concrete slab foundation and has a composition shingled, front facing, gable roof with overhanging eaves with exposed rafter tails. Gable roofed dormers are on either side, and a shed roof projects off the Diamond Head (east) side and shelters a lanai on that side of the building. The walls are of vertical tongue and groove with a 2" x 6' girt running around the building at the mid-point of the windows. The windows are 2 x 2 double hung sash. The portico has a front facing gable roof with a rectangular wood slat ventilator in its gable end. The portico's balcony has a solid tongue and groove railing with the name of the society written in Chinese.

The On Tong Tung Heong Society is comprised of members of the Lum clan who originally came from On Tong village in China.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Balbas, Imeleta S.
Address:	609 Waipa Lane
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-7-032:083
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.321791
Longitude:	-157.862533
Parcel Number:	(1)1-7-032:083
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1937

II. Photograph of Resource

Photo 1: View of 609 Waipa Lane looking north

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☐Good

☒Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☐Not Eligible

☒Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1.5	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☒Other: lava rock		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This modest cottage sits on a lava rock foundation and has a composition shingled hipped roof with over hanging eaves and exposed rafter tails. It is single wall, with vertical tongue and groove walls with a girt at the windows; mid-point. The windows are jalousie. The house features a centered porch protected by an overhang of the main roof, supported at its outer corners by square columns. Concrete steps approach the porch from the left, running parallel to the façade. To either side of the porch are a pair of jalousie windows.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Wong, Pui Ying; Wong, Philip Y.F.
Address: 615 Waipa Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:084
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321722
Longitude: -157.862319
Parcel Number: (1)1-7-032:084
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1941

II. Photograph of Resource

Photo 1: View of 615 Waipa Lane looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1.5
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):
- ☐Aluminum Siding
- ☐Asbestos
- ☐Brick
- ☐Ceramic
- ☐Concrete
- ☐Horizontal Wood Siding
- ☐Log
- ☐Metal
- ☐Shingles-Asphalt
- ☐Shingles-Wood
- ☐Stone
- ☐Stucco
- ☒Vertical Wood Siding
- ☐Engineered Siding
- ☐Plywood
- ☐OSB
- ☐Fiberboard
- ☐Fiber Cement
- ☐Vinyl Siding
- ☐Other: Click here to enter text.

Roof:
- ☒Asphalt, shingle
- ☐Asphalt, roll
- ☐Metal
- ☐Other: Click here to enter text.
- ☐Slate
- ☐Built Up
- ☐Ceramic Tile
- ☐Wood Shingle
- ☐None

Foundation:
- ☐Brick
- ☐Concrete Block
- ☐Other: Click here to enter text.
- ☐Concrete Slab
- ☐Poured Concrete
- ☐Stone
- ☒Raised/Pile

Structural Support:
- ☐Baled Hay
- ☐Concrete Block
- ☐Concrete Framed
- ☐Concrete Poured
- ☐Other: Click here to enter text.
- ☒Frame-wood
- ☐Frame-metal/steel
- ☐Brick-load bearing
- ☐Stone-load bearing
- ☐Puddled Clay
- ☐Rammed Earth
- ☐Sod

Windows:
- ☒Double Hung Sash
- ☐Single Hung Sash
- ☐Casement
- ☐Fixed
- ☒Other: Horizontal sliding
- ☐Jalousie
- ☐Glass Block
- ☐None/Unknown
- ☐Ribbon
- ☐Stained Glass
- ☐Replacement
- ☐Aluminum
- ☐Vinyl

Lanai(s)
- ☐Arcade
- ☐Balcony
- ☐Porte-Cochere
- ☐Other: Click here to enter text.
- ☐Recessed
- ☐Stoop
- ☐Portico
- ☐Wrap-around
- ☐Verandah
- ☒None

Chimney
- ☐Brick
- ☐Concrete
- ☒None
- ☐Stuccoed Masonry
- ☐Stone
- ☐Other: Click here to enter text.
- ☐Stove Pipe
- ☐Siding

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This L-shaped cottage sits on a post and pier foundation and has a composition shingled, intersecting hipped roof. The house is single walled with vertical tongue and groove walls with two narrow girts running just above the windows' sill line. The windows are 1 x 1 double hung sash. A shed roofed carport has been placed in the intersection of the L. At the rear of the carport, concrete steps, running parallel with the base of the L lead up to a front door. Its wrought iron railing remains intact.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Lee, Frederick C.T.; Lee, Shung Wai; Lee, Wat Bo Hing
Address: 1427 Pua Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:085
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322064
Longitude: -157.862856
Parcel Number: (1)1-7-032:085
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1920

II. Photograph of Resource

Photo 1: View of 1427 Pua Lane looking southwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☐Good

☒Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 1427 Pua Lane looking east

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 1427 Pua Lane east

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Tabios, Aurora T. Trust
Address:	627 Waipa Lane
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-7-032:088
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.321969
Longitude:	-157.861999
Parcel Number:	(1)1-7-032:088
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1921

II. Photograph of Resource

Photo 1: View of 627 Waipa Lane looking north from Waipa Lane

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Llamas, Remy C.
Address: 627 A Waipa Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:089
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322096
Longitude: -157.862049
Parcel Number: (1)1-7-032:089
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1921

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

II. Photograph of Resource

Photo 1: View of 627A looking north from Waipa Lane

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☒Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☒Other: horizontal sliding		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Shigaki, Robert S. Trust; Shigaki, Nancy F. Trust
Address: 619 Waipa Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:090
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321807
Longitude: -157.862139
Parcel Number: (1)1-7-032:090
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1938

II. Photograph of Resource

Photo 1: View of 619 Waipa Lane looking west from Waipa Lane

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☒Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Valenzuela, Celia G. Trust
Address: 1416 C Pua Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:093
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322427
Longitude: -157.863207
Parcel Number: (1)1-7-032:093
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1964

II. Photograph of Resource

Photo 1: View of 1416C Pua Lane looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☒Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	Split block

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☒Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Ishihara Residence
Historic Name: Ishihara Residence
Property Owner: Ishihara, Karen C.; Ishihara, Stella M.
Address: 623 Waipa Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-032:094
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322458
Longitude: -157.862204
Parcel Number: (1)1-7-032:094
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1951

II. Photograph of Resource

Photo 1: View of 623 Waipa Lane looking east

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☒Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This two story, residence faces Ewa (west). It sits on a concrete slab foundation and has a composition shingled, intersecting hipped roof with overhanging eaves and exposed rafter tails. The walls are of CMU block on the first story and on the second, vertical tongue and groove with two narrow girts running at the mid-point of the windows. The house is L-shaped with a 12' x 18' wing projecting from the left side of the façade. A straight run of wood steps runs parallel to the façade to the house's front entry. The second story entry is in the main body of the house at the intersection of the L and a picture window is to its right. The picture window is between two 1 x 1 double hung sash windows. A shed roofed coping runs between the first and second stories, and an entrance to the first story is under the steps. All windows, other than the picture window are 1 x 1 double hung sash.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of 623 Waipa Lane looking north

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Kauluwela II Apartments
Historic Name: Kauluwela II Apartments
Property Owner: Kauluwela 2
Address: 400 N. Vineyard Blvd.
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-023:001
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.018855
Longitude: -157.860494
Parcel Number: (1)1-7-023:001
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Leo S. Wou & Associates
Date of Construction (if known): 1971

II. Photograph of Resource

Photo 1: View of 400 N. Vineyard Blvd. looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

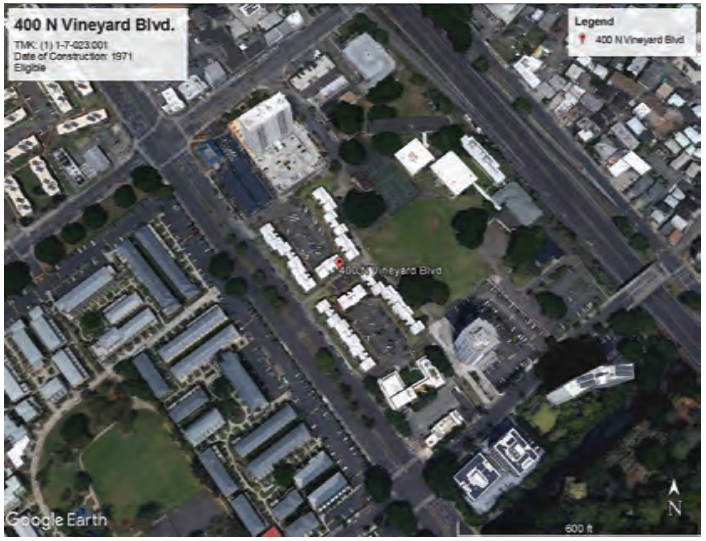
Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible (after 2021)
  - ☐Listed
  - ☒Contributing to Historic District:
    Name of District: potential Kauluwela Redevelopment Area Historic District
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP



HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 3
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☒Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☒Other: sliding doors		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

Developed under the auspices of the Honolulu Redevelopment Agency as low income housing, this apartment complex is three stories in height with built-up, shed roofs and plastered concrete walls. It is comprised of contiguous, H shaped buildings, which contain approximately 120, three and four bedroom dwelling units. Following a modified version of the perimeter block plan, the complex is arranged around two large uncovered, paved parking lots which are surrounded by the buildings on three sides. There are three buildings on both the *makai* (ocean) and *mauka* (mountain) sides of the parking lots and one building at one end, resulting in two U-shaped sets of buildings, back-to-back. However, the H shaped buildings do not always align, thus instilling a modicum of variety in the context of uniformity. A single story CMU office building stands on a raised pavilion between the two U shaped groupings. Each H-shaped building has one elevation dominated by the individual units' lanai which constitutes the entire wall, while the opposite wall is solid except for the floor-to-ceiling jalousie windows located at the ends of the walls.

This complex is a contributing feature to the potential Kauluwela Redevelopment Area Historic District.

Additional Photographic Documentation

Photo 2: View of 400 N. Vineyard Blvd. looking southeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 400 N. Vineyard Blvd. looking southeast

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 4: View of 400 N. Vineyard Blvd. looking northeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 5: View of 400 N. Vineyard Blvd. looking northeast

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Liliha Square Shopping Center
Historic Name: Liliha Square
Property Owner: Liliha Square Associates Condo Master
Address: 1425 Liliha Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-023:008
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.319778
Longitude: -157.861000
Parcel Number: (1)1-7-023:008
Historic District: N/A
Original Use: Commercial/Residential
Current Use: Commercial/Residential
Architect/ Builder (if known): Geoffrey Fairfax (architect)
Date of Construction (if known): 1974

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

II. Photograph of Resource

Photo 1: View of 1425 Liliha St. looking east

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☒Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible (after 2024)
  - ☐Listed
  - ☒Contributing to Historic District:
    Name of District: Potential Kauluwela Redevelopment Area Historic District
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 18 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☒Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☒Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☒Other: sliding, awning		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

Developed under the auspices of the Honolulu Redevelopment Agency, Liliha Square includes a seventeen story apartment building which rises from a two story podium. In addition, a free standing, two story bank building, sited at the front corner of the property, is also a part of the complex. The podium houses commercial units on the first story and parking above. A wide, cantilevered, concrete band adorned with square panels, defines the two stories. The ground level commercial units are recessed, to provide a protected walkway in front of the stores. The aluminum store fronts remain relatively intact although most of the original transoms no longer exist. Pre-stressed concrete columns, measuring either 12” x 18” or 16” x 30” provide structural support as well as a ground level rhythm.

The high rise apartment has a *mauka-makai* (mountain to ocean) orientation, with its end walls featuring three concrete panels per story. The only windows in the end walls illuminate the double stacked, central corridor. The two faces of the building are each four bays wide, with each bay comprised of an inset lanai with a metal railing and a solid wall framed by a set of three, stacked, single pane, awning windows. The solid wall is of grooved, split-faced concrete block, and aluminum framed, single paned, sliding doors access the lanai.

The bank building has a blue tiled, hip roof, with a “cornice” echoing the podium’s banding. A ridge beam follows the same motif. The L-shaped building is five bays wide, with each bay defined by the pre-stressed concrete structural members. The Ewa (eastern) most bay has a solid wall, while the other four bays are dominated by floor-to-ceiling windows on both stories. The building’s recessed entry is at the Diamond Head-*mauka* (northeastern) corner, which fronts on the complex’s ground level, paved parking lot.

Geoffery Fairfax was the author of *The Architecture of Honolulu,* published in 1971. It was one of the first books on architecture in Hawaii recognizing the unique cosmopolitan nature of Honolulu’s architecture.

This complex is a contributing feature to the potential Kauluwela Redevelopment Area Historic District.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of 1425 Liliha St. looking northeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 1425 Liliha St. looking north

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 4: View of 1425 Liliha St. looking southeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 5: View of 1425 Liliha St. looking north

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 6: View of 1425 Liliha St. looking southeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 7: View of 1425 Liliha St. looking northeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Elenita V Alvarez Trust
Address: 1461 Liliha Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-023:025
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320942
Longitude: -157.860974
Parcel Number: (1)1-7-023:025
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): George McLaughlin
Date of Construction (if known): Building 1 1948, Building 2 1960, Building 3 1960

II. Photograph of Resource

Photo 1: View of 1461 Liliha Street looking northeast from Kauluwela Place

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☒Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☒Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☒Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☒Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☒Other: horizontal sliding		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Aloha United Way
Historic Name: The Aloha United Fund Building
Property Owner: Aloha United Way Inc.
Address: 200 N. Vineyard Blvd.
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-023:034
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.317180
Longitude: -157.859673
Parcel Number: (1)1-7-023:034
Historic District: N/A
Original Use: Nonprofit
Current Use: Nonprofit
Architect/ Builder (if known): Leo S. Wou & Associates
Date of Construction (if known): 1970

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

II. Photograph of Resource

Photo 1: View of 200 N. Vineyard Blvd. midrise looking east

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☐Commercial ☐Educational ☒Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

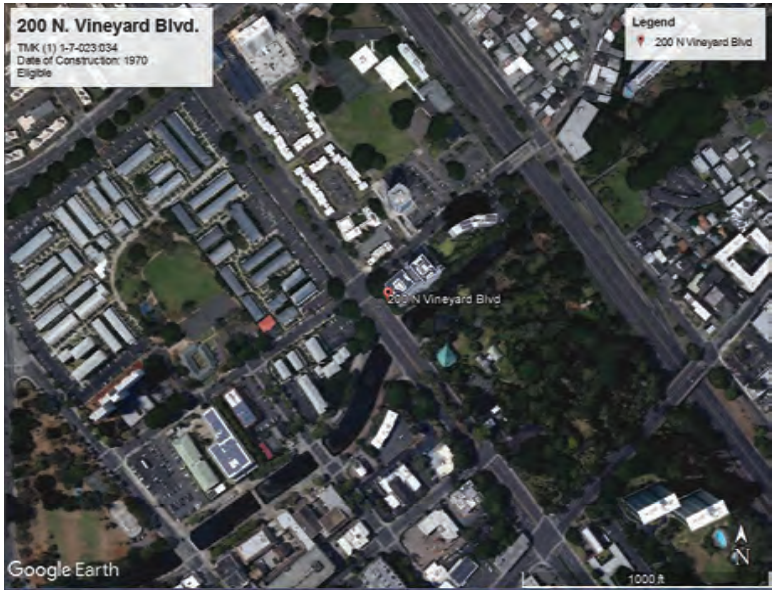
Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible (after 2020)
  - ☐Listed
  - ☒Contributing to Historic District:
    Name of District: Potential Kauluwela Redevelopment Area Historic District
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP



HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: Lowrise 3/Midrise 7
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☒Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☒Other: Plaza/Terrace		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

Developed on land acquired from the Honolulu Redevelopment Agency, the Aloha United Fund building was erected thanks to grant moneys from the Atherton estate and other charitable foundations. The community service center is elevated above the intersection of Vineyard Boulevard and Aala Street, and includes a two story and seven story building built on a terrace, with on grade parking under the terrace. Both buildings are characterized by their poured in place concrete walls with recessed single pane windows. The bottom story of both buildings features floor-to-ceiling, anodized aluminum framed windows. These are recessed from the cantilevered upper stories, adding a sense of lightness to the entire complex. A large scale, concrete pergola mediates the space between the two buildings.

The contractors for the State Capitol, Reed and Martin, were also the contractors for this building.

Planning for a building for the Community Chest, the predecessor of the Aloha United Fund, commenced in 1939 when Frank C. Atherton donated money for the project. World War II interrupted the planning, and it was not until 1967 that the organization began to seriously explore the erection of a building to house their offices and other public service organizations.

Leo Wou is most known in Hawaii for designing the Bank of Hawaii Financial Plaza in downtown Honolulu.

This complex is a contributing feature to the potential Kauluwela Redevelopment Area Historic District.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of 200 N. Vineyard Blvd. lowrise looking wouth

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 200 N. Vineyard Blvd. midrise and lowrise looking southeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 4: View of 200 N. Vineyard Blvd. looking southeast

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Keola-Hoonanea
Historic Name: Keola-Hoonanea
Property Owner: Keola Hoonanea
Address: 1465 Aala Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-023:036
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.317926
Longitude: -157.858688
Parcel Number: (1)1-7-023:036
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Frank Slavsky
Date of Construction (if known): 1971

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

II. Photograph of Resource

Photo 1: View of 1465 Aala Street looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible (after 2021)
  - ☐Listed
  - ☒Contributing to Historic District:
    Name of District: Potential Kauluwela Redevelopment Area Historic District
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 23 ☐N/A
☒Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☒Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

Developed under the auspices of the Honolulu Redevelopment Agency, this twenty three story high rise was constructed as an elderly housing project. Originally known as the Kauluwela Elderly Housing project, its name was changed to the present Keola Hoonanea within a year of the building's completion.

Sited on Nuuanu stream, this high rise has a curved footprint and closely follows the design Slavsky used for his award winning elderly housing project, Makua Alii, on Kalakaua Boulevard. As with the earlier project this 164 unit project has lanai walkways on the stream facing side of the building, while on the opposite side the building wall is upwardly curving to promote air circulation through vents under the fixed, single pane windows. The building is entered from the Ewa (eastern) side where a single story modern style, concrete portico extends out from the entry with its bronzed, anodized aluminum double doors and adjoining single pane, floor-to-ceiling, fixed windows. Concrete slats placed at a diagonal form the portico's "walls" regulating the air flow into the walkway.

In order to construct the building, the City granted a variance of three feet from the required standard thirty foot set back from Nuuanu stream.

This highrise is a contributing feature to the potential Kauluwela Redevelopment Area Historic District.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of 1465 Aala Street looking south

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 1465 Aala Street looking southeast

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

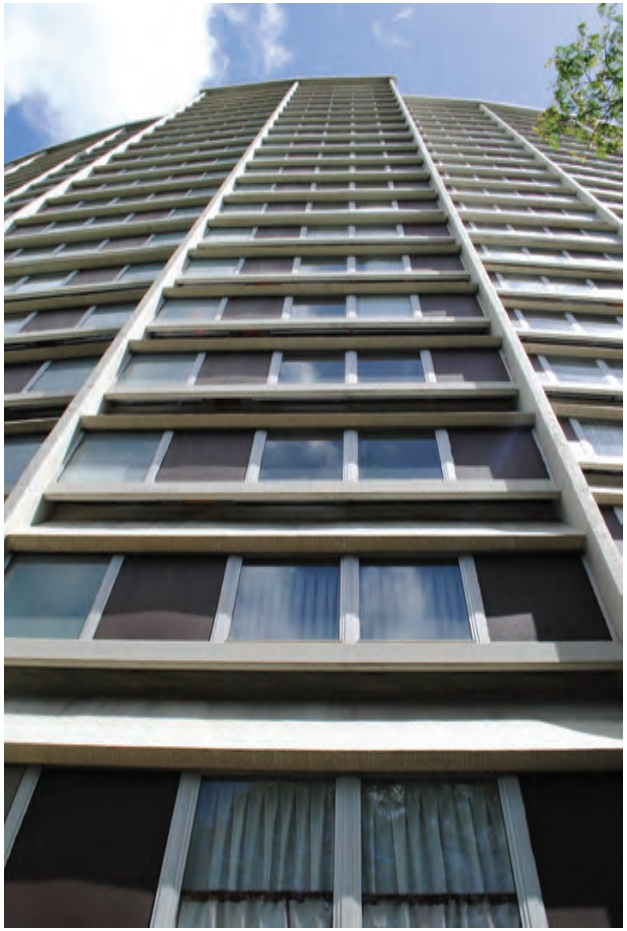


Photo 4: View of 1465 Aala Street looking southeast

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: The Salvation Army, Kauluwela Mission Corps.
Historic Name: The Salvation Army
Property Owner: The Salvation Army
Address: 296 North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-023:038
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.317662
Longitude: -157.859778
Parcel Number: (1)1-7-023:038
Historic District: N/A
Original Use: Religious
Current Use: Religious
Architect/ Builder (if known): Alfred Yee
Date of Construction (if known): 1957

II. Photograph of Resource

Photo 1: View of 296 North Vineyard Boulevard looking northeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☐Residential ☐Commercial ☐Educational ☐Public/Civic ☒Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☒Excellent

☐Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☒State Register of Historic Places

☐Not Eligible

☒Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Potential Kauluwela Redevelopment Area Historic District

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☒Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

Along with the Liliha Library, the apartments *Makai* (ocean) of the library, and Kauluwela Elementary School, this building was one of the few in the Kauluwela area to not be razed by the Honolulu Redevelopment Agency.

Built as the Honolulu Salvation Army headquarters, this reinforced concrete building is elevated above the street, with parking at ground level. Concrete steps, near the corner of Vineyard Boulevard and Aala Street, lead up to a courtyard upon which several single story structures front, including offices and chapels for Christian and Buddhist worship.

Alfred Yee is a well-known structural engineer in Hawaii and South East Asia.

This complex is a contributing feature to the potential Kauluwela Redevelopment Area Historic District.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of 296 North Vineyard Boulevard looking northeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 296 North Vineyard Boulevard looking northwest

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

Photo 4: View of 296 North Vineyard Boulevard looking northeast

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Kauluwela I
Historic Name: Kauluwela I
Property Owner: Kauluwela 1
Address: 1450 Aala Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-023:039
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.317706
Longitude: -157.859660
Parcel Number: (1)1-7-023:039
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Leo S. Wou & Associates
Date of Construction (if known): 1970

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

II. Photograph of Resource

Photo 1: View of 1450 Aala Street looking northwest

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☒Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible (after 2020)
  - ☐Listed
  - ☒Contributing to Historic District:
    Name of District: Potential Kauluwela Redevelopment Area Historic District
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☒A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 22
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☒Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☒Other: slider horizontal		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This 23 story cooperative apartment was developed under the auspices of the Honolulu Redevelopment Agency for moderate income housing. The near square tower is four bays wide on the Makai (ocean) side with the center two bays projecting out from the body of the building. All the bays on this side of the building are dominated by lanai, many of which have been enclosed. The Diamond Head (east) and Ewa (west) sides of the building are two bays wide with scored CMU block walls running up the center of each bay. Recessed windows are at the ends of each bay. The building rises from a podium which serves as space for uncovered parking, and has offices and other community function rooms on the first story, as well as entrances to the elevator lobbies.

This complex is a contributing feature to the potential Kauluwela Redevelopment Area Historic District.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of 1450 Aala Street looking north

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Kauluwela Elementary School
Historic Name: Kauluwela Elementary School
Property Owner: State of Hawaii
Address: 1480 Aala Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-023:041
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.319107
Longitude: -157.859942
Parcel Number: (1)1-7-023:041
Historic District: N/A
Original Use: Educational
Current Use: Educational
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1938-1972

II. Photograph of Resource

Photo 1: View of Kauluwela Elementary looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☐Commercial ☒Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☒Contributing to Historic District:
    Name of District: Potential Kauluwela Redevelopment Area Historic District
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):
- ☐Aluminum Siding
- ☐Asbestos
- ☐Brick
- ☐Ceramic
- ☐Concrete
- ☐Horizontal Wood Siding
- ☐Log
- ☐Metal
- ☐Shingles-Asphalt
- ☐Shingles-Wood
- ☐Stone
- ☐Stucco
- ☐Vertical Wood Siding
- ☐Engineered Siding
- ☐Plywood
- ☐OSB
- ☐Fiberboard
- ☐Fiber Cement
- ☐Vinyl Siding
- ☒Other: CMU

Roof:
- ☐Asphalt, shingle
- ☐Asphalt, roll
- ☐Metal
- ☐Other: Click here to enter text.
- ☐Slate
- ☒Built Up
- ☐Ceramic Tile
- ☐Wood Shingle
- ☐None

Foundation:
- ☐Brick
- ☐Concrete Block
- ☐Other: Click here to enter text.
- ☒Concrete Slab
- ☐Poured Concrete
- ☐Stone
- ☐Raised/Pile

Structural Support:
- ☐Baled Hay
- ☒Concrete Block
- ☐Concrete Framed
- ☐Concrete Poured
- ☐Other: Click here to enter text.
- ☐Frame-wood
- ☐Frame-metal/steel
- ☐Brick-load bearing
- ☐Stone-load bearing
- ☐Puddled Clay
- ☐Rammed Earth
- ☐Sod

Windows:
- ☐Double Hung Sash
- ☐Single Hung Sash
- ☐Casement
- ☐Fixed
- ☐Other: Click here to enter text.
- ☒Jalousie
- ☐Glass Block
- ☐None/Unknown
- ☐Ribbon
- ☐Stained Glass
- ☐Replacement
- ☐Aluminum
- ☐Vinyl

Lanai(s)
- ☐Arcade
- ☐Balcony
- ☐Porte-Cochere
- ☐Other: Click here to enter text.
- ☐Recessed
- ☐Stoop
- ☐Portico
- ☐Wrap-around
- ☐Verandah
- ☒None

Chimney
- ☐Brick
- ☐Concrete
- ☒None
- ☐Stuccoed Masonry
- ☐Stone
- ☐Other: Click here to enter text.
- ☐Stove Pipe
- ☐Siding

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

Kauluwela Elementary consists of six buildings that sit on an 8 acre campus. Open lawn and playcourts characterize the southwestern portion of the campus, and buildings are clustered along the northwestern portion. Buildings Q, M and C are one story tall, and buildings D, E and S are two stories tall. With the exception of Building M, all buildings have concrete frames, concrete block walls, and flat roofs. Building M has a wood frame, wood siding, and a combination roof.

Plans for Kauluwela Elementary were originally drawn up in 1925. At that time, the school's southwestern boundary was approximately the same, but the northeastern boundary extended to N. School St. The only building extant from the schools original design is the 1938 Cafeteria Building or Building M. The campus was redeveloped in the late 1950s, and Buildings D, E, S and Q were all constructed between 1964 and 1972.

This complex is a contributing feature to the potential Kauluwela Redevelopment Area Historic District.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of Kauluwela Elementary Building S looking northwest

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of Kauluwela Elementary Building D looking north

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 4: View of Kauluwela Elementary Building D looking north

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Liliha Public Library
Historic Name: Liliha Public Library
Property Owner: State of Hawaii
Address: 1515 Liliha Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-023:043
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320654
Longitude: -157.860328
Parcel Number: (1)1-7-023:043
Historic District: N/A
Original Use: Public/Civic
Current Use: Public/Civic
Architect/ Builder (if known): Stephen Oyakawa
Date of Construction (if known): 1966

II. Photograph of Resource

Photo 1: View of Liliha Library looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☐Commercial ☐Educational ☒Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☒Contributing to Historic District:
    Name of District: Potential Kauluwela Redevelopment Area Historic District
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1 + rooftop parking
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):
- ☐Aluminum Siding
- ☐Asbestos
- ☐Brick
- ☐Ceramic
- ☐Concrete
- ☐Horizontal Wood Siding
- ☐Log
- ☐Metal
- ☐Shingles-Asphalt
- ☐Shingles-Wood
- ☐Stone
- ☐Stucco
- ☐Vertical Wood Siding
- ☐Engineered Siding
- ☐Plywood
- ☐OSB
- ☐Fiberboard
- ☐Fiber Cement
- ☐Vinyl Siding
- ☒Other: CMU split block

Roof:
- ☐Asphalt, shingle
- ☐Asphalt, roll
- ☐Metal
- ☐Other: Click here to enter text.
- ☐Slate
- ☒Built Up
- ☐Ceramic Tile
- ☐Wood Shingle
- ☐None

Foundation:
- ☐Brick
- ☒Concrete Block
- ☐Other: Click here to enter text.
- ☐Concrete Slab
- ☐Poured Concrete
- ☐Stone
- ☐Raised/Pile

Structural Support:
- ☐Baled Hay
- ☒Concrete Block
- ☐Concrete Framed
- ☐Concrete Poured
- ☐Other: Click here to enter text.
- ☐Frame-wood
- ☐Frame-metal/steel
- ☐Brick-load bearing
- ☐Stone-load bearing
- ☐Puddled Clay
- ☐Rammed Earth
- ☐Sod

Windows:
- ☐Double Hung Sash
- ☐Single Hung Sash
- ☐Casement
- ☐Fixed
- ☐Other: Click here to enter text.
- ☒Jalousie
- ☐Glass Block
- ☐None/Unknown
- ☐Ribbon
- ☐Stained Glass
- ☐Replacement
- ☐Aluminum
- ☐Vinyl

Lanai(s)
- ☐Arcade
- ☐Balcony
- ☐Porte-Cochere
- ☒Other: outset at rear
- ☐Recessed
- ☐Stoop
- ☐Portico
- ☐Wrap-around
- ☐Verandah
- ☐None

Chimney
- ☐Brick
- ☐Concrete
- ☒None
- ☐Stuccoed Masonry
- ☐Stone
- ☐Other: Click here to enter text.
- ☐Stove Pipe
- ☐Siding

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This highly sculptural branch library sets forth a modern, yet ornate, appearance. The strong contrast of rough, mauve brick walls and smooth cast stone detailing initiate a dynamic dialogue. This is intensified by the horizontality of the building and the verticality of the cast stone screen. The library's rounded corners create another strong design thread. Elongated curvilinear shapes assert themselves in the bold awnings over the entrances and along the southern wall, the front window frames, wrought-iron gates, ceiling beams and joists, and even in the layout of the restrooms.

The spacious main reading room utilizes much of the building's 13,900 square feet. Sixteen-foot ceilings, high shelving along the three exterior walls with their clerestory windows, low bookcases on the floor, and a skylight over the main desk open up the room. Double doorways on two sides of the room lead to a walled garden, which wraps around the side and rear of the building. Unfortunately, freeway noise dominates this now inaccessible and poorly maintained area. Rooftop parking for twenty-three cars, hidden by a parapet, contributes to the serviceability of this structure.

This complex is a contributing feature to the potential Kauluwela Redevelopment Area Historic District.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of Liliha Public Library looking southeast

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of Liliha Public Library looking southeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

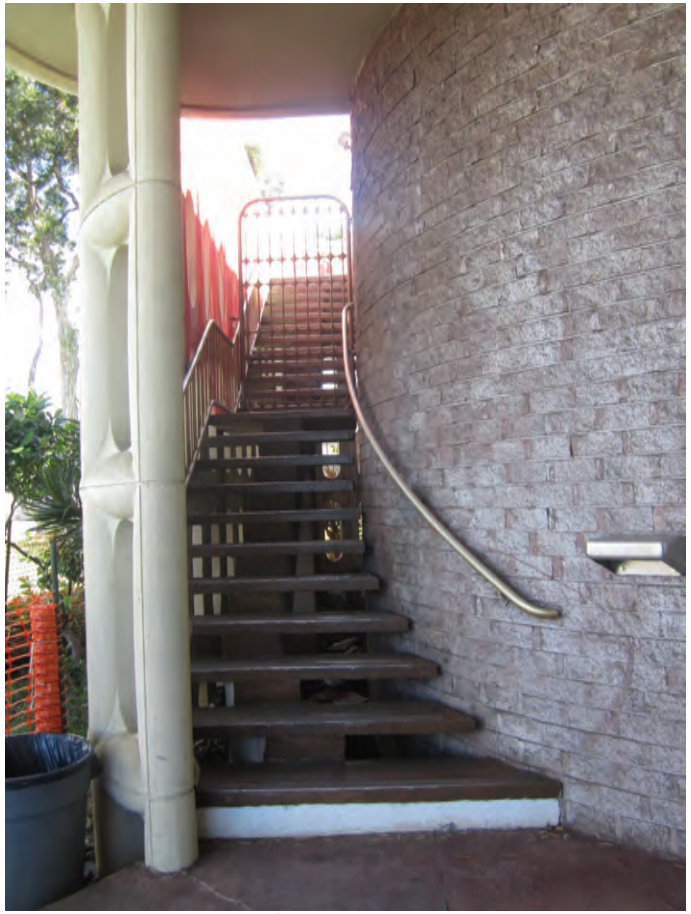


Photo 4: View of Liliha Public Library looking northeast

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 5: View of Liliha Public Library looking southeast

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Kalanihuia
Historic Name: Kalanihuia
Property Owner: Hawaii Public Housing Authority
Address: 1220 Aala Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-026:006
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.315917
Longitude: -157.862677
Parcel Number: (1)1-7-026:006
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): James Tsugawa
Date of Construction (if known): 1968

II. Photograph of Resource

Photo 1: View of Kalanihuia looking northeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):

- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible (after 2018)
  - ☐Listed
  - ☐Contributing to Historic District:
  - Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)

- ☒A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 15 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☒Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☒Other: Aluminum sliding doors		

Lanai(s)

☐Arcade	☒Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: Rendering of Kalanihuia looking north

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of Kalanihuia looking northeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 4: View within the Kalanihuia courtyard looking northeast

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Harry & Jeanette Weinberg Kukui Center
Historic Name: Click here to enter text.
Property Owner: Kukui Children's Foundation
Address: 245 North Kukui Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-026:011
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.315937
Longitude: -157.861432
Parcel Number: (1)1-7-026:011
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): Built 1968, altered 1975

II. Photograph of Resource

Photo 1: View of 245 Kukui Street looking east from N. Kukui Street

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☐Commercial ☐Educational ☒Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☒Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐Below Ground
- ☐N/A
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☒Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☒Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Description

The building at 245 N. Kukui Street is asymmetrical, rectangular and two stories tall. The concrete framed building sits on a slab foundation, and walls are made of concrete block. A tiled mansard roof extends over the building's walls and is supported by thin, full height columns on the front and rear facades. The front and rear facades are four bays wide, and the building's entrance is a small arched opening located in the second bay from the left hand side. Windows are located on the first and second floors and are separated into three different groupings on the front and rear facades: four in the first bay from the left, 9 in the third bay, and 4 in the right hand fourth bay. The sides of the building, which face northwest and southeast, have two corner windows located on each floor.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Izumo Taishakyo Mission
Historic Name: Izumo Taishakyo Mission
Property Owner: Izumo Taishakyo Mission of Hawaii
Address: 215 North Kukui Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-026:012
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.315551
Longitude: -157.861023
Parcel Number: (1)1-7-026:012
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Hego Fuchino (architect), Ichisaburo Takata (builder)
Date of Construction (if known): 1923

II. Photograph of Resource

Photo 1: View of Izumo Taishakyo Mission looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

- ☒Building(s)
  - ☐Residential ☐Commercial ☐Educational ☐Public/Civic ☒Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

- ☒Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):

- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)

- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☒Other: shoji doors		

Lanai(s)

☐Arcade	☐Recessed	☒Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

Replicating the early Shinto shrine of Izumo Taisha in Shimane Prefecture, Japan, this finely detailed shrine was constructed by Takata, a master builder brought from Japan expressly for this project. Takata used wooden pegs instead of nails in all the joinery. When the building was moved to this site from Leleo Lane in 1966, it was modified to conform to modern building codes, following plans by Robert Katsuyoshi. However, it retains many traditional elements, including the dramatic roofline with chigi (crossed roof finials) and katsuogi (ridge ornaments), and its karahafu (double curved gable)-roofed kohai (portico) with lion-head carved beam ends. The traditional elements of a Shinto shrine include a torii (gateway) accessing the spiritual realm, a wash area to the right for purification, and the entrance bell.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of Izumo Taishakyo Mission looking west

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Kukui Gardens
Historic Name: Kukui Gardens
Property Owner: Douglas Emmett Residential 2014 LLC
Address: 408 North Beretania Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-026:013
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.316381
Longitude: -157.860472
Parcel Number: (1)1-7-026:013
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Cesar Pelli (architect)
Date of Construction (if known): 1969

II. Photograph of Resource

Photo 1: View of Kukui Gardens looking north from College Walk

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):

- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)

- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 3 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☒Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of Kukui Gardens looking southwest from College Walk

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Kukui Gardens
Historic Name: Kukui Gardens
Property Owner: FKA Housing & Comm. Dev. Corp. of Hawaii; Douglas Emmett Residential 2014 LLC
Address: 401 North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-026:053 and :054
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.318916
Longitude: -157.862050
Parcel Number: (1)1-7-026:053 and :054
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Cesar Pelli (architect)
Date of Construction (if known): 1969

II. Photograph of Resource

Photo 1: View of Kukui Gardens looking southeast from Liliha Street

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 3-4	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☒Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of Kukui Gardens looking southeast from Liliha St. parking lot

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of Kukui Gardens looking northeast from Liliha St. parking lot

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Agmata Building
Historic Name: Agmata Building
Property Owner: Mah, Yong Chun; Mah, Mi Kyong
Address: 1386 Liliha Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-029:001
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.319937
Longitude: -157.862523
Parcel Number: (1)1-7-029:001
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1959

II. Photograph of Resource

Photo 1: View of 1386 Liliha St. looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☒Not Eligible (individually)
  - ☒Eligible (as a contributing resource to the potential Liliha Street Historic District)
  - ☐Listed
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory

.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other: Split block
☐Log	☐Engineered Siding	

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☒Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☒Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Description

The Agmata Building is two stories tall with a rounded corner on the corner of Liliha Street and North Vineyard Boulevard. The building sits on a concrete slab, has a concrete frame, and a flat roof. Five commercial storefronts are located on the ground floor, and apartments with jalousie windows are located on the second floor. Key features of the building include rusticated CMU blocks, mosaic panels located below the second floor windows, and the Agmata Building sign.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Aldersgate United Methodist Church
Historic Name: Aldersgate United Methodist Church
Property Owner: Methodist Episcopal Church
Address: 1340 Liliha Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-029:002
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.319771
Longitude: -157.862806
Parcel Number: (1)1-7-029:002
Historic District: N/A
Original Use: Religious
Current Use: Religious
Architect/ Builder (if known): Lemmon, Freeth, Haines & Jones
Date of Construction (if known): 1961

II. Photograph of Resource

Photo 1: View of 1340 Liliha Street looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☐Commercial ☐Educational ☐Public/Civic ☒Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☒Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☒Contributing to Historic District:
    Name of District: Potential Liliha Street Historic District
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 3 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed: stained glass	☐Ribbon	☐Vinyl
☒Other: awning		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This one and a half story ecclesiastical building has a shallow pitched, front facing gable roof. It is distinguished by its articulated, structural concrete frame and its concrete, butterfly front wall with a stained glass window running down its spine. To either side of the centered butterfly wall are recessed entry lanai, with the doors to the sanctuary located on their interior side walls. The rear walls of the lanai and the church's side walls are of CMU block. A single story, concrete office and classroom wing runs off the church on its *makai* (ocean) side. It has a flat roof and awning windows.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Mayor Wright Housing
Historic Name: Mayor Wright Housing
Property Owner: Hawaii Public Housing Authority
Address: 606 North Kukui Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-029:003
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320039
Longitude: -157.864067
Parcel Number: (1)1-7-029:003
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Law & Wilson; Chief Architect Robert Law
Date of Construction (if known): 1952

II. Photograph of Resource

Photo 1: View of 606 N. Kukui St. looking west from Waipa Lane

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☒A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2 and 3 stories
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☒Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☒Other: awning, horizontal sliding		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☒Other: laundry lanai		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Description

Mayor Wright Homes consists of 2 auxiliary buildings and 35 apartment buildings located within a single block. Open lawns and parking lots separate the two to three story walkup buildings. Buildings sit on slab foundations, have concrete block walls, and flat built up roofs with solar hot water heaters. Apartments on the second and third floors are accessed via a central staircase and walkways on one side of each building. Each apartment has a laundry room partially enclosed with decorative CMU. Several changes have been made to buildings, including moving staircases from the front to the rear of the buildings, infill lanai with Concrete block, and changing windows from steel sash and hopper windows to jalousie and awning windows respectively.

Additional Photographic Documentation

Photo 2: View of Mayor Wright Housing looking south from N. Vineyard Blvd.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of Mayor Wright Home looking southeast from Pua Lane

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 4: View of Mayor Wright Housing looking northeast from Pua Lane

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Fujii Store
Property Owner: Fujii Family Partnership
Address: 1023 Desha Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-029:006
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.319288
Longitude: -157.864883
Parcel Number: (1)1-7-029:006
Historic District: N/A
Original Use: Comnmercial
Current Use: Comnmercial
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1913

II. Photograph of Resource

Photo 1: View of 1023 Desha Lane looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

- ☒Building(s)
  - ☒Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):

- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)

- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☒Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☒Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

The Fujii Store is a two story, double walled, commercial building with residential units on the second floor. It still retains its original tongue and groove walls, although in certain places the vertical boards have been reinforced with plywood. There are two store fronts on the ground level with most of the original display windows boarded up. The second story has fourteen jalousie windows facing King Street, and a corrugated metal awning runs across the façade between the two stories. Four, rectangular, wood slat ventilators are in the attic story. A corrugated metal shed roof covers the building. Behind the building are two, two-story duplexes which have tongue and groove walls, composition shingle hipped roofs, and concrete slab foundations. Wood steps run up the front of the duplex immediately behind the Fujii Building to access the wood lanai/walkway which runs across the rear of the commercial building to access the residential units.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of 1023 Desha Lane looking southeast

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: U&M Fujii Building
Historic Name: U&M Fujii Building
Property Owner: Fujii Family Partnership
Address: 600 N. King St.
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-029:011
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.319464
Longitude: -157.865149
Parcel Number: (1)1-7-029:011
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Robert Katsuyoshi
Date of Construction (if known): 1972

II. Photograph of Resource

Photo 1: View of 600 N. King St. looking northeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☒State Register of Historic Places

☐Not Eligible

☒Eligible (after 2022)

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1
- ☐Below Ground
- ☐N/A
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☒Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This commercial building has a pentagonal floor plan and is characterized by a wide, fluted, concrete cornice, which projects out from the building's scored CMU block walls. It has a precast concrete structural frame which is in-filled by the scored blocks. A roll-up door is to the right side of the façade and serves as an entry to the commercial space. A bank of vertical jalousie transoms runs across the top of the front wall.

Additional Photographic Documentation

Photo 2: Close-up of engraved building name

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: close-up of clerestory jalousies

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.	
Historic Name: Ito Building	
Property Owner: Fujii Family Partnership	
Address: 622 North King Street	
City/ Town/ Location: Honolulu	
County: Honolulu	
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-029:012	
Subdivision/Neighborhood: Kalihi-Palama	
Latitude: 21.319619	
Longitude: -157.865262	
Parcel Number: (1)1-7-029:012	
Historic District: N/A	
Original Use: Commercial	
Current Use: Commercial	
Architect/ Builder (if known): Ernest Hara	
Date of Construction (if known): 1961	

II. Photograph of Resource

Photo 1: View of 622 N. King St. looking northeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☐Good

☒Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☐Not Eligible

☒Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☒Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This single story commercial building is characterized by a flat roof with an overhanging front eave. It is four bays wide, with each bay containing a store front. Concrete columns demarcate each bay, and each bay has an aluminum framed store front containing a display window and a single paned door. Above the window and door is a band of vertical jalousie transoms. In two places this transom line has been compromised. The kick plate is of brick sized concrete blocks.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: Close-up of 622 N. King St. shopfront

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Liu's Trading
Historic Name: Kenneth Shioi Building
Property Owner: Liu, Wilson; Liu, Linda L.
Address: 638 North King Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-029:013
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.319875
Longitude: -157.865373
Parcel Number: (1)1-7-029:013
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Ed Miyamasu
Date of Construction (if known): 1963

II. Photograph of Resource

Photo 1: View of 638 N. King St. looking northeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☐Good

☒Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☒State Register of Historic Places

☒Not Eligible, lost integrity

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☒None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Shell Gas Station
Historic Name: Click here to enter text.
Property Owner: 682 North King LLC; Aloha Petroleum Ltd. (Lessee)
Address: 666 North King Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-029:014
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320096
Longitude: -157.865671
Parcel Number: (1)1-7-029:014
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1980

II. Photograph of Resource

Photo 1: View of 666 N. King Street looking southeast from Pua Lane

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☒Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Mikami, Mariko Trust
Address: 703 North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:001
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321804
Longitude: -157.863926
Parcel Number: (1)1-7-031:001
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1928

II. Photograph of Resource

Photo 1: View of 703 N. Vineyard Blvd. looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):

- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)

- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☒Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☒Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 703 N. Vineyard Blvd. looking west

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 703 N. Vineyard Blvd. looking north

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Pualani Manor
Historic Name: Pualani Manor
Property Owner: City & County of Honolulu Pualani Manor Corp
Address: 1216 Pua Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:003
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321672
Longitude: -157.864730
Parcel Number: (1)1-7-031:003
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Jo Paul Rognstad
Date of Construction (if known): 1974

II. Photograph of Resource

Photo 1: View of 1216 Pua Lane looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☒Excellent

☐Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible, no distinctive characteristics of a period

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 8 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

Built for James Kealoha, this eight story apartment building has a rectangular footprint with a *mauka-makai* (mountain to ocean) orientation. Running parallel to Pua Lane, the building is set back from the road by an uncovered, paved parking lot, and is characterized by inset, lanai with metal railings running the length of its façade. A projecting tower, made of scored CMU block, houses the elevator. Two sets of concrete, dog leg steps are set within the body of the building along the lanai. Windows are jalousie, and a pair of aluminum sliding doors access the lanai. The walls are of scored CMU block and a wide concrete band demarcates the first story from the remainder of the building.

Additional Photographic Documentation

Photo 2: View of 1216 Pua Lane looking northwest

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Puuhala Ltd.
Property Owner: Au, Kerwin M. T. Trust; Au, Aaron W. C.; Au, Elton W. M.
Address: 1202 Pua Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:004
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321400
Longitude: -157.864676
Parcel Number: (1)1-7-031:004
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Hata (approximate, name illegible on permit)
Date of Construction (if known): 1961

II. Photograph of Resource

Photo 1: View of 1202 Pua Lane looking northeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 3
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This is a three story, walk-up apartments with five units on each floor. It sits on a concrete slab foundation, and has a flat roof with wide concrete eaves overhanging the front and rear facades. It has 8" half CMU block front and rear walls with end walls made of decorative concrete blocks laid in a pattern to form concentric squares. Lanai/walkways run across the façade on the second and third floors with outset, straight run, concrete steps at either end of the façade accessing the lanai/walkway. The steps are parallel to the façade. The lanai/walkway metal railings feature two wide bands, while the step railings have simple, thin metal balusters. Each unit has a front door with a pair of jalousie windows to either side. Also each unit has a private lanai in the rear which is set under the roof's overhang. A paved, uncovered parking lot is in front of the building and separated from the sidewalk and street by a low mock orange hedge.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of 1202 Pua Lane looking north

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 1202 Pua Lane looking north

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Banyan Gardens Condo Master
Address:	1118 Pua Lane
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-7-031:006
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.321260
Longitude:	-157.865432
Parcel Number:	(1)1-7-031:006
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Jo Paul Rognstad
Date of Construction (if known):	1970

II. Photograph of Resource

Photo 1: View of 1118 Pua Lane looking east

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☒Excellent

☐Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible, lost integrity

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 3 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This rather straight-forward, CMU apartment building is comprised of two parallel structures, one almost three times the length of the other. Two flat roofed breezeways connect the two parallel structures to form an L-shaped building. Rising three stories in height, lanai/walkway with metal railings service all the units, running down the sides of the two buildings which face each other. Five sets of enclosed concrete steps access the upper stories.

Additional Photographic Documentation

Photo 2: View of 1118 Pua Lane looking northeast

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Arios, Robert R.; Arios, Josefina R.
Address: 1115C Banyan Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:007
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321416
Longitude: -157.865225
Parcel Number: (1)1-7-031:007
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1916

II. Photograph of Resource

Not visible from public right of way

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☐Not Eligible, lost integrity
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☒Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☐Stories: Click here to enter text.
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):
- ☐Aluminum Siding
- ☐Asbestos
- ☐Brick
- ☐Ceramic
- ☐Concrete
- ☐Horizontal Wood Siding
- ☐Log
- ☐Metal
- ☐Shingles-Asphalt
- ☐Shingles-Wood
- ☐Stone
- ☐Stucco
- ☐Vertical Wood Siding
- ☐Engineered Siding
- ☐Plywood
- ☐OSB
- ☐Fiberboard
- ☐Fiber Cement
- ☐Vinyl Siding
- ☐Other: Click here to enter text.

Roof:
- ☐Asphalt, shingle
- ☐Asphalt, roll
- ☐Metal
- ☐Slate
- ☐Built Up
- ☐Ceramic Tile
- ☐Wood Shingle
- ☐None
- ☐Other: Click here to enter text.

Foundation:
- ☐Brick
- ☐Concrete Block
- ☐Concrete Slab
- ☐Poured Concrete
- ☐Stone
- ☐Raised/Pile
- ☐Other: Click here to enter text.

Structural Support:
- ☐Baled Hay
- ☐Concrete Block
- ☐Concrete Framed
- ☐Concrete Poured
- ☐Frame-wood
- ☐Frame-metal/steel
- ☐Brick-load bearing
- ☐Stone-load bearing
- ☐Puddled Clay
- ☐Rammed Earth
- ☐Sod
- ☐Other: Click here to enter text.

Windows:
- ☐Double Hung Sash
- ☐Single Hung Sash
- ☐Casement
- ☐Fixed
- ☐Jalousie
- ☐Glass Block
- ☐None/Unknown
- ☐Ribbon
- ☐Stained Glass
- ☐Replacement
- ☐Aluminum
- ☐Vinyl
- ☐Other: Click here to enter text.

Lanai(s)
- ☐Arcade
- ☐Balcony
- ☐Porte-Cochere
- ☐Recessed
- ☐Stoop
- ☐Portico
- ☐Wrap-around
- ☐Verandah
- ☐None
- ☐Other: Click here to enter text.

Chimney
- ☐Brick
- ☐Concrete
- ☐None
- ☐Stuccoed Masonry
- ☐Stone
- ☐Other: Click here to enter text.
- ☐Stove Pipe
- ☐Siding

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Albano, Robert K.O.
Address: 1115B Banyan Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:008
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321395
Longitude: -157.865210
Parcel Number: (1)1-7-031:008
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1916

II. Photograph of Resource

Not visible from public right of way

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

- ☐Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply): Unknown, unable to see

- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☐Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☒Unknown

Criteria of Significance (select all that apply)

- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☐Stories: Click here to enter text. ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☐None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Lianne and Hong Tian Shen, Lun Tao Wang
Address: 1115 A Banyan Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:009
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321395
Longitude: -157.865210
Parcel Number: (1)1-7-031:009
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1974

II. Photograph of Resource

Not visible from public right of way

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply): Unknown, unable to see
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☐Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☒Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☐Stories: Click here to enter text.
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):
- ☐Aluminum Siding
- ☐Asbestos
- ☐Brick
- ☐Ceramic
- ☐Concrete
- ☐Horizontal Wood Siding
- ☐Log
- ☐Metal
- ☐Shingles-Asphalt
- ☐Shingles-Wood
- ☐Stone
- ☐Stucco
- ☐Vertical Wood Siding
- ☐Engineered Siding
- ☐Plywood
- ☐OSB
- ☐Fiberboard
- ☐Fiber Cement
- ☐Vinyl Siding
- ☐Other: Click here to enter text.

Roof:
- ☐Asphalt, shingle
- ☐Asphalt, roll
- ☐Metal
- ☐Slate
- ☐Built Up
- ☐Ceramic Tile
- ☐Wood Shingle
- ☐None
- ☐Other: Click here to enter text.

Foundation:
- ☐Brick
- ☐Concrete Block
- ☐Concrete Slab
- ☐Poured Concrete
- ☐Stone
- ☐Raised/Pile
- ☐Other: Click here to enter text.

Structural Support:
- ☐Baled Hay
- ☐Concrete Block
- ☐Concrete Framed
- ☐Concrete Poured
- ☐Frame-wood
- ☐Frame-metal/steel
- ☐Brick-load bearing
- ☐Stone-load bearing
- ☐Puddled Clay
- ☐Rammed Earth
- ☐Sod
- ☐Other: Click here to enter text.

Windows:
- ☐Double Hung Sash
- ☐Single Hung Sash
- ☐Casement
- ☐Fixed
- ☐Jalousie
- ☐Glass Block
- ☐None/Unknown
- ☐Ribbon
- ☐Stained Glass
- ☐Replacement
- ☐Aluminum
- ☐Vinyl
- ☐Other: Click here to enter text.

Lanai(s)
- ☐Arcade
- ☐Balcony
- ☐Porte-Cochere
- ☐Recessed
- ☐Stoop
- ☐Portico
- ☐Wrap-around
- ☐Verandah
- ☐None
- ☐Other: Click here to enter text.

Chimney
- ☐Brick
- ☐Concrete
- ☐None
- ☐Stuccoed Masonry
- ☐Stone
- ☐Other: Click here to enter text.
- ☐Stove Pipe
- ☐Siding

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Honie and Flory Cambia
Address:	1115 Banyan Street
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-7-031:010
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.321608
Longitude:	-157.865461
Parcel Number:	(1)1-7-031:010
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1974

II. Photograph of Resource

Photo 1: View of 1115 Banyan St. looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

- ☒Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):

- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)

- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☒Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☒Concrete	☐Stone	☐Siding
☐None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Lee, Ah Fei; Lee, Kwok F.T.
Address: 1119A Banyan Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:013
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321758
Longitude: -157.865524
Parcel Number: (1)1-7-031:013
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1917

II. Photograph of Resource

Not visible from public right of way

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☐Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☒Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☐Stories: Click here to enter text.
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):
- ☐Aluminum Siding
- ☐Asbestos
- ☐Brick
- ☐Ceramic
- ☐Concrete
- ☐Horizontal Wood Siding
- ☐Log
- ☐Metal
- ☐Shingles-Asphalt
- ☐Shingles-Wood
- ☐Stone
- ☐Stucco
- ☐Vertical Wood Siding
- ☐Engineered Siding
- ☐Plywood
- ☐OSB
- ☐Fiberboard
- ☐Fiber Cement
- ☐Vinyl Siding
- ☐Other: Click here to enter text.

Roof:
- ☐Asphalt, shingle
- ☐Asphalt, roll
- ☐Metal
- ☐Slate
- ☐Built Up
- ☐Ceramic Tile
- ☐Wood Shingle
- ☐None
- ☐Other: Click here to enter text.

Foundation:
- ☐Brick
- ☐Concrete Block
- ☐Concrete Slab
- ☐Poured Concrete
- ☐Stone
- ☐Raised/Pile
- ☐Other: Click here to enter text.

Structural Support:
- ☐Baled Hay
- ☐Concrete Block
- ☐Concrete Framed
- ☐Concrete Poured
- ☐Frame-wood
- ☐Frame-metal/steel
- ☐Brick-load bearing
- ☐Stone-load bearing
- ☐Puddled Clay
- ☐Rammed Earth
- ☐Sod
- ☐Other: Click here to enter text.

Windows:
- ☐Double Hung Sash
- ☐Single Hung Sash
- ☐Casement
- ☐Fixed
- ☐Jalousie
- ☐Glass Block
- ☐None/Unknown
- ☐Ribbon
- ☐Stained Glass
- ☐Replacement
- ☐Aluminum
- ☐Vinyl
- ☐Other: Click here to enter text.

Lanai(s)
- ☐Arcade
- ☐Balcony
- ☐Porte-Cochere
- ☐Recessed
- ☐Stoop
- ☐Portico
- ☐Wrap-around
- ☐Verandah
- ☐None
- ☐Other: Click here to enter text.

Chimney
- ☐Brick
- ☐Concrete
- ☐None
- ☐Stuccoed Masonry
- ☐Stone
- ☐Other: Click here to enter text.
- ☐Stove Pipe
- ☐Siding

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Ching, Gone Mean; Ching, Yun Choi L.; Ching, Check Hung
Address:	1121 Banyan Street
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-7-031:016
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.322033
Longitude:	-157.865068
Parcel Number:	(1)1-7-031:016
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	Built 1916, altered 1936

II. Photograph of Resource

Photo 1: View of 1121 Banyan St. looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Lee, Yue Hung L.
Address: 1121B Banyan Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:017
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321620
Longitude: -157.865161
Parcel Number: (1)1-7-031:017
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1916

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

II. Photograph of Resource

Photo 1: View of 1121B Banyan St. looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Chua, William A.; Chua, Lilian S.
Address:	1121C Banyan Street
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-7-031:018
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.321658
Longitude:	-157.865090
Parcel Number:	(1)1-7-031:018
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1930

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

II. Photograph of Resource

Photo 1: View of 1121C Banyan Street looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)
☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
☐Structure(s)
☐Object(s)
☐Site(s)/Landscape(s)
☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent
☒Good
☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places
☐State Register of Historic Places
☒Not Eligible
☐Eligible
☐Listed
☐Contributing to Historic District:
Name of District: Click here to enter text.
☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events
☐B: Associated with Significant Person(s)
☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Chua, William A.; Chua, Lilian S.
Address: 1121D Banyan Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:019
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321631
Longitude: -157.865154
Parcel Number: (1)1-7-031:019
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1930

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

II. Photograph of Resource

Photo 1: View of 1121D Banyan St. looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
  - Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Young, Clifford
Address: 1127B Banyan Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:022
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322215
Longitude: -157.864973
Parcel Number: (1)1-7-031:022
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1922

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

II. Photograph of Resource

Photo 1: View of 1127B looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Boirum, Emily J.; Kovalanchik, Jane A.
Address: 1127C Banyan Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:023
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321597
Longitude: -157.865012
Parcel Number: (1)1-7-031:023
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1919

II. Photograph of Resource

Not visible from public right of way

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1
- ☐Below Ground
- ☐N/A
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Salazar, Paul D. S.
Address: 1127D Banyan Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:024
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321534
Longitude: -157.864951
Parcel Number: (1)1-7-031:024
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1917

II. Photograph of Resource

Not visible from the public right of way

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Sirisumphant, Apiwat
Address: 1127E Banyan Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:025
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321437
Longitude: -157.864895
Parcel Number: (1)1-7-031:025
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1920

II. Photograph of Resource

Not visible from the public right of way

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Ng, Larry Paz Trust; Ng, John P.Y.; Fiesta, Castora S. Trust
Address: 1155 Banyan Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:026
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321809
Longitude: -157.864891
Parcel Number: (1)1-7-031:026
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1914, 1918, 1918 – 3 properties: 4 BR, 4 BR, 2 BR

II. Photograph of Resource

Not visible from public right of way.

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

- ☐Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):

- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)

- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☐None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Nguyen, Samson; Doan, Diana N.
Address: 1131 Banyan Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:027
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322067
Longitude: -157.865018
Parcel Number: (1)1-7-031:027
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1950

II. Photograph of Resource

Photo 1: View of 1131 Banyan St. looking northeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☒Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☒Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 1131 Banyan St. looking east

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Hale O'Kanoa
Historic Name: Hale O'Kanoa
Property Owner: Hale O Kanoa
Address: 1110 Banyan Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:028
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321788
Longitude: -157.865926
Parcel Number: (1)1-7-031:028
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Haines, Jones, Farrell, White, Gima
Date of Construction (if known): 1974

II. Photograph of Resource

Photo 1: View of 1110 Banyan St. looking northeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):

- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible (after 2024)
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)

- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 4 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This four story, condominium contains nineteen two-bedroom units and one one-bedroom unit. It sits on a concrete slab foundation and has a flat roof with a wide parapet. The building is constructed of CMU block and features split-faced block below its jalousie windows. It follows an irregular floor plan with receding and advancing bays fronting on Kanoa Street, with four jalousie windows in each bay. Parking is at the rear (*mauka* or mountain side) of the building, where an E-shaped façade allows lanai/walkway with metal railings to access the five units on each floor.

Additional Photographic Documentation

Photo 2: View of 1110 Banyan St. looking north

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 1110 Banyan St. looking northwest

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 4: View of 1110 Banyan St. looking northwest

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 5: View of 1110 Banyan St. looking northeast

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Mariposa Properties Ltd.
Address: 1207 Palama Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:032
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322691
Longitude: -157.865614
Parcel Number: (1)1-7-031:032
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1921

II. Photograph of Resource

Photo 1: View of 1207 Palama St. looking northeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):

- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)

- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐Below Ground
- ☐N/A
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☒Other: Plywood
☐Log	☐Engineered Siding	

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other:		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 1207 Palama St. looking southeast

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 1207 Palama St. looking southeast

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Ababa, Renato A.; Ababa, Dinah C.
Address: 1213 Palama Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:033
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322691
Longitude: -157.865614
Parcel Number: (1)1-7-031:033
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1909 or 1929

II. Photograph of Resource

Photo 1: View of 1213 Palama St. looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☐Good

☒Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☒Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 1213 Palama St. looking south

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: DeVictoria, Carlota P.; Flores, Cristita P.
Address: 1213A Palama Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:034
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322722
Longitude: -157.865498
Parcel Number: (1)1-7-031:034
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1940 or 1950

II. Photograph of Resource

Photo 1: View of 1213A Palama St. looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):
- ☐Aluminum Siding
- ☐Asbestos
- ☐Brick
- ☐Ceramic
- ☐Concrete
- ☐Horizontal Wood Siding
- ☐Log
- ☐Metal
- ☐Shingles-Asphalt
- ☐Shingles-Wood
- ☐Stone
- ☐Stucco
- ☒Vertical Wood Siding
- ☐Engineered Siding
- ☐Plywood
- ☐OSB
- ☐Fiberboard
- ☐Fiber Cement
- ☐Vinyl Siding
- ☐Other: Click here to enter text.

Roof:
- ☒Asphalt, shingle
- ☐Asphalt, roll
- ☐Metal
- ☐Other: Click here to enter text.
- ☐Slate
- ☐Built Up
- ☐Ceramic Tile
- ☐Wood Shingle
- ☐None

Foundation:
- ☐Brick
- ☐Concrete Block
- ☐Other: Click here to enter text.
- ☐Concrete Slab
- ☐Poured Concrete
- ☐Stone
- ☒Raised/Pile

Structural Support:
- ☐Baled Hay
- ☐Concrete Block
- ☐Concrete Framed
- ☐Concrete Poured
- ☐Other: Click here to enter text.
- ☒Frame-wood
- ☐Frame-metal/steel
- ☐Brick-load bearing
- ☐Stone-load bearing
- ☐Puddled Clay
- ☐Rammed Earth
- ☐Sod

Windows:
- ☐Double Hung Sash
- ☐Single Hung Sash
- ☐Casement
- ☐Fixed
- ☐Other: Click here to enter text.
- ☒Jalousie
- ☐Glass Block
- ☐None/Unknown
- ☐Ribbon
- ☐Stained Glass
- ☐Replacement
- ☐Aluminum
- ☐Vinyl

Lanai(s)
- ☐Arcade
- ☐Balcony
- ☐Porte-Cochere
- ☐Other: Click here to enter text.
- ☐Recessed
- ☒Stoop
- ☐Portico
- ☐Wrap-around
- ☐Verandah
- ☐None

Chimney
- ☐Brick
- ☐Concrete
- ☒None
- ☐Stuccoed Masonry
- ☐Stone
- ☐Other: Click here to enter text.
- ☐Stove Pipe
- ☐Siding

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Oiu Hale Kanoa Condominium
Historic Name: Oiu Hale Kanoa Condominium
Property Owner: Mariposa Properties Ltd.
Address: 750 Kanoa Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:050
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322127
Longitude: -157.866051
Parcel Number: (1)1-7-031:050
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Alan Kajioka & Associates
Date of Construction (if known): 1975

II. Photograph of Resource

Photo 1: View of 750 Kanoa St. looking south

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☒Excellent

☐Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☒State Register of Historic Places

☐Not Eligible

☒Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 4
- ☐Below Ground
- ☐N/A
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This four story, L-shaped condominium has scored CMU block walls, and a flat roof with overhanging eaves with a wide fascia. Its 28 units include 25 two-bedroom and 3 studio apartments. The courtyard formed by the two wings of the L is devoted to paved, uncovered parking. The sides facing the parking lot are characterized by lanai/walkway with metal railings. Doors to the apartments, as well as jalousie windows front on the lanai/walkway. Projecting stairwells with scored CMU block walls and a flat roof provide access to the upper stories and are located at end of each wing. The wing's end walls have two floor-to-ceiling jalousie windows, and the *makai* (ocean facing) wall facing Kanoa Street is four bays wide, with each upper story bay having a pair of floor-to-ceiling jalousie windows and a recessed lanai with a balustrade featuring single cell CMU blocks laid in soldier courses to emulate breezy blocks. Aluminum sliding doors access the lanai. On the ground level the first 1.5 Ewa (western) most bays along Kanoa Street are open to accommodate additional parking.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of 750 Kanoa St. looking south

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 750 Kanoa St. looking northeast

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 4: View of 750 Kanoa St. looking northwest

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 5: View of a statute at 750 Kanoa St. looking southeast

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Vineyard Courtyard Apartments
Property Owner: Palama Settlement; Ing, Sheridan C. F. Trust
Address: 801 North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:040
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322033
Longitude: -157.864481
Parcel Number: (1)1-7-031:040
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): James Fagothey
Date of Construction (if known): 1962

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

II. Photograph of Resource

Photo 1: View of 801 N. Vineyard Blvd. looking northwest from Vineyard Blvd.

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):

- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)

- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 3 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass	
☐Single Hung Sash	☐Glass Block	☐Replacement	
☐Casement	☐None/Unknown	☐Aluminum	
☐Fixed	☐Ribbon	☐Vinyl	
☒Other: horizontal sliders			

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

Six buildings comprise this housing complex, housing 117 two bedroom units. Five buildings run perpendicular to Vineyard Boulevard, while the sixth building extends across the breadth of the property at its rear (*Makai* or ocean) side. The buildings are three stories high and have flat roofs which are overhanging to protect the cantilevered lanai/walkways which run down the front of each building. Made of CMU block, the end walls are built of decorative block which result in a recessed diamond shaped pattern concrete, dogleg steps are located at the ends of the buildings and have a CMU screen wall with decorative openings. The buildings' roofs extend outward to shelter the steps. Each unit has a door with an aluminum framed picture window flanked by jalousie windows to one side and a pair of aluminum framed sliding windows on the other side. Uncovered, paved parking is accommodated in the areas between the buildings.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of 801 N. Vineyard Blvd. looking southwest from Vineyard Blvd.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 801 N. Vineyard Blvd. looking northwest from Vineyard Blvd.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Patricio, Antonio L.; Patricio, Nida I.; Patricio, Argel I.; Patricio, Analiza L.
Address: 717B North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:042
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322003
Longitude: -157.864329
Parcel Number: (1)1-7-031:042
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1930

II. Photograph of Resource

Photo 1: View of 717B N. Vineyard Blvd. looking west

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Char, Stella O.K.
Address: 717A North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:043
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322053
Longitude: -157.864236
Parcel Number: (1)1-7-031:043
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1931

II. Photograph of Resource

Photo 1: View of 717A N. Vineyard Blvd. looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☐Not Eligible

☒Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1
- ☐Below Ground
- ☐N/A
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☒Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☒Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This single story, single wall bungalow sits on a post and pier foundation. It has a composition shingled hipped roof with overhanging eaves with exposed rafter tails. It has an inset, left of center entry porch which has a front facing, bracketed, curved gable roof. The porch is approached by three concrete steps with lave rock shoulders. Paneled, square columns, at the outer corners of the porch, support the gable roof, and small modillion-like brackets are under the gable. A paneled balustrade encloses the porch. The walls are of tongue and groove and a 6" girt is below the sill line of the windows. To the right of the porch is a pair of 1 x 1 double hung sash windows. The front door remains intact with its fifteen pane door and its ten pane side lights. A laundry shed with a five panel door and latticed openings extends out from the right side of the house and a shallow, front facing, gable roof covers the shed and its adjoining car port. A pipe column supports the outer corner of the car port.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of 717A N. Vineyard Blvd. looking northwest

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.	
Historic Name: Click here to enter text.	
Property Owner: Chun, Richard N. T.	
Address: 717 North Vineyard Boulevard	
City/ Town/ Location: Honolulu	
County: Honolulu	
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:044	
Subdivision/Neighborhood: Kalihi-Palama	
Latitude: 21.322114	
Longitude: -157.864115	
Parcel Number: (1)1-7-031:044	
Historic District: N/A	
Original Use: Residential	
Current Use: Residential	
Architect/ Builder (if known): Click here to enter text.	
Date of Construction (if known): 1959	

II. Photograph of Resource

Photo 1: View of 717 N. Vineyard Blvd. looking west

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☒Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Lam, Tat Chuen/Serlin P.C. Trust
Address: 717C North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: 1-7-031:046
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321819
Longitude: -157.864184
Parcel Number: Click here to enter text.
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1938 or 1955

II. Photograph of Resource

Photo 1: View of 717C N. Vineyard Blvd. looking south

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☒Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☒Single Hung Sash	☐Glass Block	☐Replacement
☒Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: St. Elizabeth's Episcopal Church
Historic Name: St. Elizabeth's Episcopal Church
Property Owner: St. Elizabeth's Episcopal Church; Kalihi Palama Health Center (lessee)
Address: 1029 Banyan Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:048
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321021
Longitude: -157.866090
Parcel Number: (1)1-7-031:048
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Edwin Bauer
Date of Construction (if known): 1957

II. Photograph of Resource

Photo 1: View of 1029 Banyan Street looking northeast from N. King St.

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☐Residential ☐Commercial ☐Educational ☐Public/Civic ☒Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☒Excellent

☐Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☐Not Eligible

☒Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☒Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☒Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

A well-composed modern church with Gothic overtones, St. Elizabeth's conveys a dynamic verticality through its two-story entrance, shallow pilaster-like buttresses, and side bell tower. Its Christian foundations are made evident through the use of stylized Tudor Gothic elements, yet with equal subtlety the building reflects its congregation's Chinese heritage and Hawaii's tropic balm. Masonry screens with cross patterns derive from Chinese architectural traditions, and the prominent, narrow entrance, although centered on the body of the building, is not aligned with the front gate, in accord with feng shui concepts. The side lanai with Tudor Revival archways was originally open, with sliding doors accessing the nave.

Inside is the finest ecclesiastic Tiffany window in Hawaii. This window of 1904 includes drapery glass used for the robes and shattered glass for the foliage, both innovations of Tiffany. The window was the gift of the William Procter family of Cincinnati, of Procter and Gamble fame, in memory of Charlotte Elizabeth Procter. Ardent supporters of the mission, the Procters funded the construction of the original Shingle Style church on this property. St. Elizabeth's was formed as a mission of St. Andrew's Cathedral (OA44) tending to the spiritual needs of Chinese immigrants in the Kalihi-Palama district. With the demise of the original church in 1952, the window was retained and placed in the new building. The modern windows in the nave and clerestory date from 1977 and are the work of Judson Studios of Los Angeles. The front window was designed by Bernard Atkins in 1991 and fabricated by Raymond Ho.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of 1029 Banyan Street looking north from N. King St.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 1029 Banyan Street looking east from N. King St.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 4: View of 1029 Banyan Street looking northeast from N. King St.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 5: View of 1029 Banyan Street looking north from N. King St.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 6: View of 1029 Banyan Street looking east from N. King St.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 7: View of 1029 Banyan Street looking northeast from N. King St.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 8: View of 1029 Banyan Street looking east from N. King St.

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Sedyana, Padma; Triwinarsih, Anastasia
Address: 709A North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:053
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321921
Longitude: -157.864011
Parcel Number: (1)1-7-031:053
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1934 or 1964

II. Photograph of Resource

Photo 1: View of 709A N. Vineyard Blvd. looking south

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

- ☒Building(s)
  - ☐Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):

- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)

- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Matsubara, Herbert H. Trust; Matsubara, Beatrice S. F. Trust
Address: 709B North Vineyard Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:054
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321876
Longitude: -157.864070
Parcel Number: (1)1-7-031:054
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1933

II. Photograph of Resource

Photo 1: View of 709B N. Vineyard Blvd. looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☒Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1.5
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):
- ☐Aluminum Siding
- ☐Asbestos
- ☐Brick
- ☐Ceramic
- ☐Concrete
- ☐Horizontal Wood Siding
- ☐Log
- ☐Metal
- ☐Shingles-Asphalt
- ☐Shingles-Wood
- ☐Stone
- ☐Stucco
- ☒Vertical Wood Siding
- ☐Engineered Siding
- ☐Plywood
- ☐OSB
- ☐Fiberboard
- ☐Fiber Cement
- ☐Vinyl Siding
- ☐Other: Click here to enter text.

Roof:
- ☒Asphalt, shingle
- ☐Asphalt, roll
- ☐Metal
- ☐Other: Click here to enter text.
- ☐Slate
- ☐Built Up
- ☐Ceramic Tile
- ☐Wood Shingle
- ☐None

Foundation:
- ☐Brick
- ☐Concrete Block
- ☐Other: Click here to enter text.
- ☐Concrete Slab
- ☐Poured Concrete
- ☐Stone
- ☒Raised/Pile

Structural Support:
- ☐Baled Hay
- ☐Concrete Block
- ☐Concrete Framed
- ☐Concrete Poured
- ☐Other: Click here to enter text.
- ☒Frame-wood
- ☐Frame-metal/steel
- ☐Brick-load bearing
- ☐Stone-load bearing
- ☐Puddled Clay
- ☐Rammed Earth
- ☐Sod

Windows:
- ☒Double Hung Sash
- ☐Single Hung Sash
- ☐Casement
- ☐Fixed
- ☐Other: Click here to enter text.
- ☐Jalousie
- ☐Glass Block
- ☐None/Unknown
- ☐Ribbon
- ☐Stained Glass
- ☐Replacement
- ☐Aluminum
- ☐Vinyl

Lanai(s)
- ☐Arcade
- ☐Balcony
- ☐Porte-Cochere
- ☐Other: Click here to enter text.
- ☐Recessed
- ☒Stoop
- ☐Portico
- ☐Wrap-around
- ☐Verandah
- ☐None

Chimney
- ☐Brick
- ☐Concrete
- ☒None
- ☐Stuccoed Masonry
- ☐Stone
- ☐Other: Click here to enter text.
- ☐Stove Pipe
- ☐Siding

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

The 1.5 story residence located at 709B N. Vineyard Blvd. is sited midblock on a residential cul-de-sac. The building consists of two connected rectangular structures set perpendicular to each other. The structure located closest to the street is one story tall; the structure on the rear of the property has a sunken first floor and second story. Both structures sit on a post and pier foundation, utilize single wall construction, and have gable on hip roofs. Both structures have a girt.

Additional Photographic Documentation

Photo 2: View of 709B N. Vineyard Blvd. looking northwet

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Hawaiian Association 7th Day Adventist
Address: 1213B Palama Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:063
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322526
Longitude: -157.865498
Parcel Number: (1)1-7-031:063
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1931

II. Photograph of Resource

Not visible from public right of way

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):

- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)

- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	T-111

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Kaumakapili Church
Historic Name: Kaumakapili Church
Property Owner: Hawaii Conference Foundation; Kaumakapili Church (lessee)
Address: 766 North King Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-031:064
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321542
Longitude: -157.866253
Parcel Number: (1)1-7-031:064
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Harry Livingston Kerr
Date of Construction (if known): 1911

II. Photograph of Resource

Photo 1: View of Kaumakapili Church looking north from N. King St.

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☐Commercial ☐Educational ☐Public/Civic ☒Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☒National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☐Eligible
  - ☒Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1
- ☐Below Ground
- ☐N/A
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☒Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☒Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☒Double Hung Sash	☐Jalousie	☒Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Photo 2: View of Kaumakapili Church looking southwest from Kanoa St.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of Kaumakapili Church looking north from N. King St.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 4: View of Kaumakapili Church looking north from N. King St.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 5: View of Kaumakapili Church looking northeast from N. King St.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 6: View of Kaumakapili Church looking southwest from Kanoa St.

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Tamashiro Market
Historic Name: Tamashiro Market
Property Owner: Tamashiro, Walter H. Trustee; Tamashiro, Chogen Trust
Address: 802 North King Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-6-001:001
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.321998
Longitude: -157.867018
Parcel Number: (1)1-6-001:001
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Walter Chong Wong
Date of Construction (if known): 1962, third story addition 1968

II. Photograph of Resource

Photo 1: View of 802 N. King St. looking north

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☒State Register of Historic Places

☐Not Eligible

☒Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 3 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☒Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

Sitting at the corner of King and Palama Streets, this three story retail-apartment complex with its third story red crab sign is a local landmark. Constructed of 8" half CMU block it has an asphalt shingle hip-gablet roof with overhanging eaves and exposed rafter tails. It sits on a concrete slab foundation and has paved, uncovered, customer parking in the courtyard formed by its L shaped footprint.

The first floor houses Tamashiro Market, which specializes in seafood products, including fresh fish. An aluminum framed double doorway is situated right-of-center on the *Makai* (ocean) side of the building and serves as the fish market's entry. The corner to the right of the entry has a lava rock veneer, and an up-turned, concrete awning wraps this corner. Dog leg, concrete steps run up the Palama Street elevation accessing the second story lanai walkway and a door into a third story apartment. The second story lanai/walkway wraps around the front, King Street elevation and services three apartment units on this floor. At the Ewa (western) end of the walkway is another set of dog leg steps which project out from the façade to form the base of the building's L shape. These steps also service a lanai/walkway which runs across the front of the third story. The lanai/walkways have metal railings and all windows are jalousie.

The building was built for the Tamashiro Market and it continues to fulfill its original function. It was erected in 1962 as a two story building, with the third story added in 1968.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of 802 N. King St. looking east

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: Photo 4: View of 802 N. King St. looking northwest

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

Photo 5: Photo 6: View of 802 N. King St. looking northwest

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: R & D Contractors
Address: 842 North King Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-6-001:003
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322279
Longitude: -157.867144
Parcel Number: (1)1-6-001:003
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1930 / 1950

II. Photograph of Resource

Photo 1: View of 842 N. King St. looking east

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☐Good

☒Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☐Not Eligible

☒Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☒Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☒Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☒Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This two story, single family house is set back from King Street by an unkept front yard. It has a composition shingled hip gablet roof with overhanging eaves with exposed rafter tails. It is a double wall house with vertical tongue and groove walls and 1 x 1 double hung sash windows. A projecting front porch runs across the façade and has a corrugated metal shed roof supported by square Tuscan columns. Five centered, wood steps lead up to the front porch, and the front entry aligns with the steps. The entry has a set of double doors with a transom above. The transom and the screen doors utilize an arts and crafts motif of long thin panes framing the main pane.

A single story, concrete, deco style garage is to the left of the house in the front yard. It features a roll up front door and eight pane steel framed windows on the side. Fluted pilasters define the front corners and a ribbed band runs around the building above the window and front door opening. The frieze on the front elevation above the band is embellished with three raised diamond shaped lozenges.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of 842 N. King St. looking northeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 842 N. King St. looking northeast

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 4: View of 842 N. King St. looking northeast

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Young Hee Building
Historic Name: Click here to enter text.
Property Owner: Trang, George G.N. Trust; Trang, Lana K. Q. Trust
Address: 844 North King Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-6-001:004
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322320
Longitude: -157.867310
Parcel Number: (1)1-6-001:004
Historic District: N/A
Original Use: Commercial / Residential
Current Use: Commercial / Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1923

II. Photograph of Resource

Photo 1: View of 844 N. King St. looking northeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s) 2 buildings

☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☒Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 844 N. King St. looking east, blue building is commercial storefront

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 844 N. King St. looking southeast

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Kwai & Doris Chan
Address:	1015 Austin Lane
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-6-001:005
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.322500
Longitude:	-157.867040
Parcel Number:	(1)1-6-001:005
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1975

II. Photograph of Resource

Photo 1: View of 1015 Austin Lane looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☒State Register of Historic Places

☒Not Eligible, no distinctive characteristics of a period

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☒Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Cao, Xiu Ying
Address: 809 Kanoa Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-6-001:008
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322283
Longitude: -157.866906
Parcel Number: (1)1-6-001:008
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1923 / 1960

II. Photograph of Resource

Photo 1: View of 809 Kanoa St. looking southwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other:		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☒Other: vinyl sliders		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Tran, Hoang T.; Truong, Tuan Anh; Tran, Khan Ann Hoang; Truong, Nga Thi
Address: 801 Kanoa Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-6-001:009
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322194
Longitude: -157.866685
Parcel Number: (1)1-6-001:009
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1939 / 1969

II. Photograph of Resource

Photo 1: View of 801 Kanoa Street looking southwest from Kanoa Street

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Bakke, Lowell V.; Kim, Yong
Address: 1104 Palama Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-6-001:019
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322365
Longitude: -157.866412
Parcel Number: (1)1-6-001:019
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1910

II. Photograph of Resource

Photo 1: View of 1104 Palama St. looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	T-111

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 1104 Palama St. looking east

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 1104 Palama St. looking west

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Lam, Lambert K.Y. Trust; Lam, Christina L. Trust
Address: 810 Kanoa Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-6-001:020
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322513
Longitude: -157.866439
Parcel Number: (1)1-6-001:020
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1904 or 1964

II. Photograph of Resource

Photo 1: View of 810 Kanoa St. looking east

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Lum, Eulalia W.M. Trust; Kamigaki, Eugenia W. Trust
Address:	1125 Austin Lane
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-6-001:021
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.322724
Longitude:	-157.866768
Parcel Number:	(1)1-6-001:021
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1926 / 1936 – 7 houses

II. Photograph of Resource

Photo 1: View of 1125 Austin Lane looking east

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:
Historic Name:
Property Owner: Li, De Xing; He, Qiang Qing
Address: 1124 Palama Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-6-001:026
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.322715
Longitude: -157.866065
Parcel Number: (1)1-6-001:026
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known):
Date of Construction (if known): 1923 or 1940; 1923 or 1940 – 2 houses

II. Photograph of Resource

Photo 1: View of 1124 Palama St. looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):
- ☐Aluminum Siding
- ☐Asbestos
- ☐Brick
- ☐Ceramic
- ☐Concrete
- ☐Horizontal Wood Siding
- ☐Log
- ☐Metal
- ☐Shingles-Asphalt
- ☐Shingles-Wood
- ☐Stone
- ☐Stucco
- ☒Vertical Wood Siding
- ☐Engineered Siding
- ☐Plywood
- ☐OSB
- ☐Fiberboard
- ☐Fiber Cement
- ☐Vinyl Siding
- ☐Other: Click here to enter text.

Roof:
- ☒Asphalt, shingle
- ☐Asphalt, roll
- ☒Metal
- ☐Other: Click here to enter text.
- ☐Slate
- ☐Built Up
- ☐Ceramic Tile
- ☐Wood Shingle
- ☐None

Foundation:
- ☐Brick
- ☐Concrete Block
- ☐Other: Click here to enter text.
- ☐Concrete Slab
- ☐Poured Concrete
- ☐Stone
- ☒Raised/Pile

Structural Support:
- ☐Baled Hay
- ☐Concrete Block
- ☐Concrete Framed
- ☐Concrete Poured
- ☐Other: Click here to enter text.
- ☒Frame-wood
- ☐Frame-metal/steel
- ☐Brick-load bearing
- ☐Stone-load bearing
- ☐Puddled Clay
- ☐Rammed Earth
- ☐Sod

Windows:
- ☐Double Hung Sash
- ☐Single Hung Sash
- ☐Casement
- ☐Fixed
- ☐Other: Click here to enter text.
- ☒Jalousie
- ☐Glass Block
- ☐None/Unknown
- ☐Ribbon
- ☐Stained Glass
- ☐Replacement
- ☐Aluminum
- ☐Vinyl

Lanai(s)
- ☐Arcade
- ☐Balcony
- ☐Porte-Cochere
- ☐Other: Click here to enter text.
- ☐Recessed
- ☒Stoop
- ☐Portico
- ☐Wrap-around
- ☐Verandah
- ☐None

Chimney
- ☐Brick
- ☐Concrete
- ☒None
- ☐Stuccoed Masonry
- ☐Stone
- ☐Other: Click here to enter text.
- ☐Stove Pipe
- ☐Siding

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Photo 2: View of 1124 Palama St. looking northwest

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Dolor, Fausto A. Trust; Dolor, Carlota P. Trust
Address: 811B Lakimela Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-6-001:045
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.323265
Longitude: -157.865771
Parcel Number: (1)1-6-001:045
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1968

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

II. Photograph of Resource

Photo 1: View of 811B Lakimela Lane looking southwest

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Cherrylin Cabuslay
Address: 811A Lakimela Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-6-001:049
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.323392
Longitude: -157.865702
Parcel Number: (1)1-6-001:049
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1974

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

II. Photograph of Resource

Photo 1: View of 811A Lakimela Lane looking west

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☒Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Choy, Walter W. F. Trust; Choy, Elsie L. Trust
Address: 1214 Palama Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-6-001:051
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.323118
Longitude: -157.865622
Parcel Number: (1)1-6-001:051
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1912, 1912, 1914, 1914 – 4 Houses

II. Photograph of Resource

Photo 1: View of 1214 Palama St. looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):

- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
  - Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)

- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

Although these cottages have been re-sided with T-111 and have had their original windows replaced with jalousies, they are significant as rather uncommon examples of a relatively intact, pre-World War I urban worker housing complex in Honolulu. The houses retain their steep, composition shingled, hip gablet roofs with overhanging eaves and exposed rafter tails. They sit on post and pier foundations and retain their balanced asymmetric facades with a recessed entry porch on one side and a canted bay window on the other. Wood steps lead up to the porch. Two houses front on Palama Street and the other two are behind them, with a central walkway providing access to the rear dwellings.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Gao, Ji Kang; Lu, Di
Address: 1210 Palama Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-6-001:052
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.323008
Longitude: -157.865799
Parcel Number: (1)1-6-001:052
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1929, 1955, 1955 – 3 Houses

II. Photograph of Resource

Photo 1: View of 1210 Palama Street looking west

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	
Historic Name:	
Property Owner: Kaya, Thomas T. Trust; Kaya, Sherrie S.	
Address: 1118 Palama Street	
City/ Town/ Location: Honolulu	
County: Honolulu	
TMK [(X)-X-X-XXX:XXX)]: (1)1-6-001:090	
Subdivision/Neighborhood: Kalihi-Palama	
Latitude: 21.322606	
Longitude: -157.866210	
Parcel Number: (1)1-6-001:090	
Historic District: N/A	
Original Use: Residential	
Current Use: Residential	
Architect/ Builder (if known):	
Date of Construction (if known): 1929	

II. Photograph of Resource

Photo 1: View of 1118 Palama Street looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☐Not Eligible

☒Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☒Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This double wall, single family residence has a steep, composition shingled, hip gablet roof with overhanging eaves and exposed rafter tails. It sits on a post and pier foundation with a horizontal slat apron with three narrow slats alternating with one wide slat. It retains its 2 x 2 double hung sash windows and its vertical tongue and groove walls. Its façade has a recessed entry porch to the right and a pair of double hung sash windows to the left. A new elevated ramp runs from the street to the front porch, presumably for ADA purposes.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Lee, Danny W.K.
Address: 814 Lakimela Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-6-001:096
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.323535
Longitude: -157.865477
Parcel Number: (1)1-6-001:096
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1940, 1940, 1941

II. Photograph of Resource

Photo 1: View of 814 Lakimela Lane

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):
- ☐Aluminum Siding
- ☐Asbestos
- ☐Brick
- ☐Ceramic
- ☐Concrete
- ☐Horizontal Wood Siding
- ☐Log
- ☐Metal
- ☐Shingles-Asphalt
- ☐Shingles-Wood
- ☐Stone
- ☐Stucco
- ☒Vertical Wood Siding
- ☐Engineered Siding
- ☐Plywood
- ☐OSB
- ☐Fiberboard
- ☐Fiber Cement
- ☐Vinyl Siding
- ☐Other: Click here to enter text.

Roof:
- ☒Asphalt, shingle
- ☐Asphalt, roll
- ☐Metal
- ☐Other: Click here to enter text.
- ☐Slate
- ☐Built Up
- ☐Ceramic Tile
- ☐Wood Shingle
- ☐None

Foundation:
- ☐Brick
- ☐Concrete Block
- ☐Other: Click here to enter text.
- ☐Concrete Slab
- ☐Poured Concrete
- ☐Stone
- ☒Raised/Pile

Structural Support:
- ☐Baled Hay
- ☐Concrete Block
- ☐Concrete Framed
- ☐Concrete Poured
- ☐Other: Click here to enter text.
- ☒Frame-wood
- ☐Frame-metal/steel
- ☐Brick-load bearing
- ☐Stone-load bearing
- ☐Puddled Clay
- ☐Rammed Earth
- ☐Sod

Windows:
- ☐Double Hung Sash
- ☐Single Hung Sash
- ☐Casement
- ☒Fixed
- ☐Other: Click here to enter text.
- ☐Jalousie
- ☐Glass Block
- ☐None/Unknown
- ☐Ribbon
- ☐Stained Glass
- ☐Replacement
- ☐Aluminum
- ☐Vinyl

Lanai(s)
- ☐Arcade
- ☐Balcony
- ☐Porte-Cochere
- ☐Other: Click here to enter text.
- ☐Recessed
- ☒Stoop
- ☐Portico
- ☐Wrap-around
- ☐Verandah
- ☐None

Chimney
- ☐Brick
- ☐Concrete
- ☒None
- ☐Stuccoed Masonry
- ☐Stone
- ☐Other: Click here to enter text.
- ☐Stove Pipe
- ☐Siding

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Princess Victoria Kaiulani Elementary School
Historic Name: Princess Victoria Kaiulani Elementary School
Property Owner: State of Hawaii
Address: 783 N. King St.
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1) 1-5-005:016
Subdivision/Neighborhood: Click here to enter text.
Latitude: 21.321195
Longitude: -157.867198
Parcel Number: (1) 1-5-005:016
Historic District: Click here to enter text.
Original Use: Educational
Current Use: Educational
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): Constructed between 1952 and 1959

II. Photograph of Resource

Photo 1: View of Kaiulani Elementary looking southwest from N. King St.

Prepared By: Alison Chiu
Address: 1833 Kalakaua Ave. #1008
Telephone Number: 808-941-3000
Consulting Firm: Fung Associates
Email:Alison@funghawaii.com
Date: 6-9-2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☐Residential ☐Commercial ☒Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☐Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☒Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1-2 ☐Other: Click here to enter text.
☐Below Ground
☐N/A

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☒Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

Princess Kaiulani Elementary School consists of five buildings that sit on a 5 acre campus. Three classroom buildings and the cafeteria are clustered on the northwestern side of the campus, and the administration building and parking lot are located on the southeastern portion. The Administration and classroom buildings are two stories tall. Second story classrooms and offices are accessed via stairwells on either side of each building and recessed balconies that span the entire width of each building. All buildings have hipped roofs and are linked by covered walkways.

Additional Photographic Documentation

Photo 2: View of Kaiulani Elementary looking southwest from N. King St.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: K. Sumiyoshi Apartments
Historic Name: Click here to enter text.
Property Owner: K. Sumiyoshi, Inc.
Address: 980 Robello Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-005:019
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320540
Longitude: -157.867002
Parcel Number: (1)1-5-005:019
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Walter Chong Wong
Date of Construction (if known): 1967

II. Photograph of Resource

Photo 1: View of 980 Robello Lane looking southwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 3
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description:
This three story, CMU block, apartment building faces *mauka* (towards the mountains) and runs perpendicular to Robello Lane. It has a flat, built-up roof with overhanging eaves which shelter the front lanai/walkway and the rear lanai. It sits on a concrete slab foundation and features an end wall with decorative block to provide an appearance of vertical bands running up the building.

The lanai walkways run the length of the façade on each story and feature metal railings. Concrete, dogleg steps provide vertical circulation at either end of the façade. There are five units per floor and all windows are jalousie. A paved, uncovered parking lot is in front of the building. The rear lanai are accessed by a hinged door with a jalousie window in its upper panel. CMU partition walls separate each unit's lanai from the other. The rear lanai railings are covered with corrugated metal on the out facing side.

Additional Photographic Documentation

Photo 2: View of 980 Robello Lane looking northeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Diamond Head Seafood Wholesale
Historic Name: Click here to enter text.
Property Owner: M&S Properties LLC (Fee Owner), Diamond Head Seafood Whol (Lessee) L Kang Inc. (Lessee)
Address: 966 Robello Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-005:021
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320431
Longitude: -157.867379
Parcel Number: (1)1-5-005:021
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1971

II. Photograph of Resource

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☐Good

☒Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☒Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☒None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: University of Hawaii
Address: 826 Dillingham Boulevard
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-017:006
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320508
Longitude: -157.869551
Parcel Number: (1)1-5-017:004
Historic District: N/A
Original Use: Education
Current Use: Education
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): Building 1 1971, Building 2 1973

II. Photograph of Resource

Photo 1: View of 826 Dillingham Blvd. looking northeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☒Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible (after 2021 and 2023)
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☒Concrete Poured	☐Stone-load bearing	
☒Other: precast concrete		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☒Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☒Other: terrace/plaza		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description
Honolulu Community College Administration Building

Wilson, Okamoto, 1973

This two story, flat roofed, reinforced concrete building faces *makai* (towards the ocean) and fronts a parking lot. It has an asymmetric façade with a projecting first story, and is distinguished by canted, cantilevered, concrete parapets, which run part way across the façade above both the first and second stories. The parapets are adorned with raised, rectangular panels. The façade is eighteen bays wide, with the twelve Ewa-most (western-most), first story bays projecting out from the rest of the first story. Each of these bays has a recessed, single pane fixed window. The thirteenth bay from the Ewa end has a large, nine pane, bronzed anodized aluminum window. It is sheltered by the parapet, which wraps around the corner and concludes at this juncture. The remaining five bays are solid concrete wall, with each bay demarcated by a panel scored in the concrete. Raised letters proclaim, “University of Hawai`i Honolulu Community College” with the University seal above the lettering.

On the second story the parapet extends across sixteen bays, each of which has a window similar to those on the first story. The last four bays are again solid wall, with each bay demarcated by a panel scored in the concrete. This concrete wall rises above the height of the parapet in a pylon-like fashion.

Entries on either side of the building enter into lobbies which access the interior of the building. These entries have concrete canopies which follow the motif of the parapets.

Honolulu Community College Cosmetology and Apparel Trades Building

Vernon M. Kim, 1971

This two story, flat roofed building faces *makai* onto a parking lot. It sits on a raised concrete foundation and has an articulated, reinforced concrete structural frame which is in-filled by scored, split-faced CMU block. It is distinguished by projecting lanai/walkways which wrap around the four sides of this rectangular structure. The flat roof has overhanging eaves which protects the upper lanai/walkway from the elements. The eave’s scored concrete fascia is scalloped. A heavy, concrete balustrade with canted square balusters adorns the second story

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

lanai/walkway, while metal railings adorn the first story. A set of centered, concrete steps lead from the ground to the first story lanai on the *makai* (ocean) and *mauka (mountain)* sides. Double doorways at the tops of the steps access a central hallway which accesses offices and classrooms, as well as stairs to the second floor. There are no windows on either story, with only classroom and restroom doorways fronting on the lanai/walkways. Clerestory wood slat jalousies provide the classrooms with light and ventilation.

Additional Photographic Documentation

Photo 2: View of 826 Dillingham Blvd. looking northeast

Photo 3: View of 826 Dillingham Blvd. looking northeast

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 4: View of 826 Dillingham Blvd. looking northwest

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 5: View of 826 Dillingham Blvd. looking southwest

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 6: View of 826 Dillingham Blvd. looking southeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Aala Properties LLC
Address:	602 Dillingham Boulevard
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-5-006:007
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.318696
Longitude:	-157.866716
Parcel Number:	(1)1-5-006:007
Historic District:	N/A
Original Use:	Commercial
Current Use:	Commercial
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1977

II. Photograph of Resource

Photo 1: View of 602 Dillingham Blvd. looking north

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☐Good

☒Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Hula Land Inc. Apartments
Property Owner: Island-West Investment Corp.
Address: 955 Akepo Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-006:008
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.319110
Longitude: -157.866333
Parcel Number: (1)1-5-006:008
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Takashi Nakamura
Date of Construction (if known): 1961

II. Photograph of Resource

Photo 1: View of 955 Akepo Lane looking east

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 4
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This four story, CMU block, apartment building sits perpendicular to Akepo Lane and is distinguished by the breezy block in its end wall. It has a flat, built up roof with overhanging eaves and sits on a concrete slab foundation. It features jalousie windows and flat, concrete hoods run down both sides of the building immediately above the window heads to delineate each story. The building is entered from the end wall through a pair of non-historic metal gates, with the breezy blocks screening the concrete steps, which access each floor's double stacked central hallway. On the ground level, to the right of the entry gates, is a single story office wing which is made of split faced blocks and has a flat roof with overhanging eaves. The original windows in this wing have been replaced with sliding windows.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of 955 Akepo Lane looking southeast

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 955 Akepo Lane looking south

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Aloha Tofu
Historic Name: Click here to enter text.
Property Owner: Aloha Tofu Factory Inc.
Address: 961 Akepo Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-006:009
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.319082
Longitude: -157.866034
Parcel Number: (1)1-5-006:009
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Frank Wynkoop
Date of Construction (if known): 1975

II. Photograph of Resource

Photo 1: View of 961 Akepo Lane looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☒State Register of Historic Places

☐Not Eligible

☒Eligible (after 2025)

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☒Other: Horizontal Slider		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description:

This two story, CMU block building has a rectangular floor plan. It is two bays wide with split face block pilaster-walls demarcating the ends of the building and the two recessed bays with their split face block walls. The flat roof has a metal parapet with the name, “Aloha Tofu Factory, Inc” written across it in raised letters. To either side of the name is a turtle and a bird, which do not appear to be original. The right side bay is dominated by a roll up door. The left bay has two hinged doors on the first story and a lanai with a concrete railing on the second. At the rear of the lanai are offices with sliding single pane windows.

Additional Photographic Documentation

Photo 2: View of 961 Akepo Lane looking south

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Akepo Arms
Historic Name: Akepo Arms
Property Owner: Island-West Investment Corp.
Address: 967 Akepo Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-006:010
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.319256
Longitude: -157.865904
Parcel Number: (1)1-5-006:010
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1961

II. Photograph of Resource

Photo 1: View of 967 Akepo Lane looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☐Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 4
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

Located at the corner of King Street and Akepo Lane, this four story building follows a U-shaped plan with the paved, uncovered parking in the courtyard area fronting on Akepo Lane. It has a flat, built-up roof with overhanging eaves, and sits on a concrete slab foundation. Its walls are of 8" square half CMU blocks and each wing is five bays long with concrete pilasters demarcating each bay. Each bay contains two small bathroom jalousie windows, which are flanked on either side by a pair of jalousie windows. It follows a central hall plan with dogleg steps at the ends of the two wings. The King Street elevation at the Diamond Head includes a commercial space with single pane display windows on the ground level as well as a recessed entry to the building. Initially the building served as a dormitory, with approximately 291 rooms.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of 967 Akepo Lane looking south

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 967 Akepo Lane looking east

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Wu, Darius R; Wu, Van T.L.
Address:	954 Akepo Lane
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-5-006:018
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.319732
Longitude:	-157.866833
Parcel Number:	(1)1-5-006:018
Historic District:	N/A
Original Use:	Commercial
Current Use:	Commercial
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1965

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

II. Photograph of Resource

Photo 1: View of 954 Akepo Lane looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 3
- ☐Below Ground
- ☐N/A
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

The building located at 954 Akepo Lane is a three story, rectangular building, with four apartments on each floor located midblock on a small lane. The building sits on a concrete slab foundation, has CMU block walls, and is capped by a flat roof with overhanging eaves. The building's twelve apartments face the mountains and sea and are accessed by two staircases on the *mauka* (northeastern) side of the building. Each apartment has a balcony on the *makai* (southwestern) side of the building.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of 954 Akepo Lane looking northwest

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Holland, Patricia C.C.; Kinipopo Properties LLC
Address: 942 Akepo Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-006:020
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.319487
Longitude: -157.867215
Parcel Number: (1)1-5-006:020
Historic District: N/A
Original Use: Residential
Current Use: Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1919, 1927, 1942 – 3 buildings?

II. Photograph of Resource

Photo 1: View of 942 Akepo Lane looking northwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1
- ☐Below Ground
- ☐N/A
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☒Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:CMU
☐Log	☐Engineered Siding	

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☒Metal	☐Ceramic Tile	

☐Other: Click here to enter text.

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile

☐Other: Click here to enter text.

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	

☐Other: Click here to enter text.

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl

☐Other: Click here to enter text.

Lanai(s)

☐Arcade	☒Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None

☐Other: Click here to enter text.

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 942 Akepo Lane looking northwest

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Tomita, Vivian T. Trust
Address:	938 Akepo Lane
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-5-006:021
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.319173
Longitude:	-157.866947
Parcel Number:	(1)1-5-006:021
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1925

II. Photograph of Resource

Photo 1: View of 938 Akepo Lane looking southwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☐Good

☐Fair

☒Poor

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☒Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☒Other: Wood slider		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 938 Akepo Lane looking northwest

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 938 Akepo Lane looking northeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Holland, Patricia C.C.; Lauhoana Properties LLC
Address:	938A Akepo Lane
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-5-006:023
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.319273
Longitude:	-157.867273
Parcel Number:	(1)1-5-006:023
Historic District:	N/A
Original Use:	Commercial
Current Use:	Commercial
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1924

II. Photograph of Resource

Photo 1: View of 938A Akepo Lane looking west

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☒Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☒Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☒Other: post and pier		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 938A Akepo Lane looking west

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Vina, Cruz J., Jr.; Jose, Josephine Trust
Address: 938C Akepo Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-006:024
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.319390
Longitude: -157.867339
Parcel Number: (1)1-5-006:024
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1927

II. Photograph of Resource

Not visible from public right of way

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☐Fair
- ☐Poor

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☐Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☒Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: ___ ☐N/A
- ☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: post and pier		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☐None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Branner, John M.; Branner, Yvette Y.S.
Address:	940E Akepo Lane
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-5-006:025
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.319505
Longitude:	-157.867399
Parcel Number:	(1)1-5-006:025
Historic District:	N/A
Original Use:	Residential
Current Use:	Residential
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1927

II. Photograph of Resource

Photo 1: View of 940E Akepo Lane looking souteast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☒Excellent

☐Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☒Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☒Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☒Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Sunrise Soda Waterworks Co., Ltd. 1936
Historic Name: Click here to enter text.
Property Owner: Alpac Corp; Tom, Daniel M. C. A/S
Address: 967 Robello Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-006:031
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.319974
Longitude: -157.867214
Parcel Number: (1)1-5-006:031
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1909/1925/1928

II. Photograph of Resource

Photo 1: View of 967 Robello Lane looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☐Building(s)
  - ☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☒Other: unknown		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☒None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This building appears to have been the result of three building episodes spanning from 1928 to at least 1936, as it is comprised of three adjoining, stuccoed, masonry structures with common walls. All three have front facing gable roofs, with the two end ones having chevron parapets.

The *Makai* (towards the ocean) section has an asymmetric facade with a roll-up door to the right and a recessed hinged door to the left, which is flanked by former window openings which are now in-filled. Its chevron has a wood slat, segmental arched ventilator, and carries in raised letters the name "Sunrise Soda Water Works Co., Ltd" as well as the dates 1909 and 1928.

The *mauka*-most (mountain most) section has a centered, recessed hinged door flanked on either side by display window openings which have been boarded up. The transom above the door is also boarded up. Above the transom, raised letters proclaim, "Sunrise Soda Waterworks Co., Ltd, 1936". A wood slat, pointed arched ventilator is in its chevron.

The middle section has a recessed roll up door on the first story and a pair of metal doors in a corrugated metal frame on the second. It terminates with a gable end with the corrugated gable roof having no overhang.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Additional Photographic Documentation

Photo 2: View of 967 Robello Lane looking east

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 967 Robello Lane looking southeast

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 4: View of 967 Robello Lane looking southeast

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 5: View of 967 Robello Lane looking southeast

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Nakamura, David M. Trust; Nakamura, David M. DBA Urban Investments
Address: 979 Robello Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-006:032
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320056
Longitude: -157.866873
Parcel Number: (1)1-5-006:032
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1961

II. Photograph of Resource

Photo 1: View of 979 Robello Lane looking southeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☐Building(s)
☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
☐Structure(s)
☐Object(s)
☐Site(s)/Landscape(s)
☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent
☐Good
☒Fair

Eligibility (select all that apply):

☐National Register of Historic Places
☐State Register of Historic Places
☒Not Eligible
☐Eligible
☐Listed
☐Contributing to Historic District:
Name of District: Click here to enter text.
☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events
☐B: Associated with Significant Person(s)
☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: Click here to enter text. ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☒Metal – Standing Seam	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 979 Robello Lane looking east

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Centro Cristiano Su Gran Alabanza
Historic Name: Palama Theater
Property Owner: Dharma Realm Buddhist Association
Address: 701 North King Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-006:033
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320352
Longitude: -157.866256
Parcel Number: (1)1-5-006:033
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Louis Davis
Date of Construction (if known): 1930

II. Photograph of Resource

Photo 1: View of 701 N. King St. looking southwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☐Commercial ☐Educational ☐Public/Civic ☒Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 1
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☒Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☒Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Description from Buildings of Hawaii (2011), by Don Hibbard, p.87:

> The Honolulu press greeted the opening of the Palama Theater in 1930 with pronouncements ranging from "a major step in the beautification of the populous Palama district" to "unique in design and bizarre in decorations." With its green tile roof with flared eaves and exposed rafters, three-tiered pagoda tower, and assertive entrance, the theater, situated in a predominantly Asian neighborhood, makes a strong architectural statement. Although the reinforced concrete theater has seen better days, its Chinese motifs still evoke its former grandeur. Alas, its once-colorful facade has been painted, the freestanding pagoda-shaped ticket office no longer exists, and the neon sign carried by the smaller rectangular tower has also disappeared, as have the cast-stone dragons which ornamented the corners of the roof.

Additional Photographic Documentation

Photo 2: View of 701 N. King St. looking southeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 701 N. King St. looking southwest

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Toyama, Ivan K. / Fay K. Trust
Address: 719 North King Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-006:034
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.320452
Longitude: -157.866443
Parcel Number: (1)1-5-006:034
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1966

II. Photograph of Resource

Photo 1: View of 719 N. King St. looking southwest

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

The two story commercial building located at 719 N. King St. sits on a busy street corner and is abutted by a theater to the southeast and a parking lot to the southwest. The northern corner of the building is rounded, and a flat awning extends out over the first floor. The building sits on a concrete slab, has concrete block walls, and is capped by a slow slope built up roof. The rounded corner was articulated by offsetting concrete blocks laid in a stack bond.

Additional Photographic Documentation

Photo 2: View of 719 N. King St. looking southeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 719 N. King St. looking southwest

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 4: View of 719 N. King St. looking southeast

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Yick Lung Company Warehouse
Property Owner: Aala Properties LLC
Address: 949 Akepo Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-006:036
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.319039
Longitude: -157.866592
Parcel Number: (1)1-5-006:036
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Harold Miyamoto
Date of Construction (if known): 1959, 1968 addition

II. Photograph of Resource

Photo 1: View of 949 Akepo Lane looking south

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
  - Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☒Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☒Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☒Other: Roll up doors		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This single story warehouse is a pre-engineered metal building with a low pitched, lateral running, gable roof. It runs perpendicular to Robello Lane, and the street facing elevation features a roll up door and a hinged door to the left of center with three rectangular, metal slat ventilators above the roll up door. The *Makai* (ocean) facing, front of the building faces a paved parking/loading area. It is four bays long with the two bays closest to the road having one roll up door, while the last two bays each have two roll up doors, each with a set of three rectangular metal slat ventilators above them. A CMU wall runs down the building's rear, *mauka* (mountain) side. The original building contained 4,800 square feet to which a 12,000 square foot addition was appended in 1968.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: DHS
Historic Name: Click here to enter text.
Property Owner: Robello Group LLC
Address: 961 Robello Lane
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-006:040
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.319782
Longitude: -157.867352
Parcel Number: (1)1-5-006:040
Historic District: N/A
Original Use: Commercial/ Residential
Current Use: Commercial/ Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1960

II. Photograph of Resource

Photo 1: View of 961 Robello Lane looking east

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 3
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 961 Robello Lane looking southeast

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Human Services Department
Historic Name: Oahu Railway and Land Company Depot – Honolulu Station
Property Owner: State of Hawaii
Address: 377 North King Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-007:001
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.315995
Longitude: -157.864648
Parcel Number: (1)1-5-007:001
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Guy Rothwell
Date of Construction (if known): 1940

II. Photograph of Resource

Photo 1: View of 377 North King Street looking southwest from N. King St.

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☐Commercial ☐Educational ☒Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☐Eligible
  - ☒Listed
  - ☐Contributing to Historic District:
  - Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☒A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☒Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☒Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☒Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☒Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☒Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 377 North King Street looking west from N. King St.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 377 North King Street looking west from N. King St.

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Tong Fat Co. Ltd.
Historic Name: Tong Fat Co. Ltd.
Property Owner: Cupboard LLC
Address: 425 North King Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-007:003
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.316540
Longitude: -157.864622
Parcel Number: (1)-5-007:003
Historic District: N/A
Original Use: Commercial / Residential
Current Use: Commercial / Residential
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): (1922 date on bldg.) 1915, 1921, 1953 – commercial and residential on site

II. Photograph of Resource

Photo 1: View 425 N. King St. looking northwest from N. King St.

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☒State Register of Historic Places

☐Not Eligible

☒Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☒Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☒Other: storefront		

Lanai(s)

☒Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: Thom, Buck K. Family Partnership
Address: 909 Kaaahi Place
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-007:031
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.316820
Longitude: -157.865467
Parcel Number: (1)1-5-007:031
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1967

II. Photograph of Resource

Photo 1: View of 909 Kaaahi Pl. looking south

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 551 Dillingham Blvd. looking southeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 551 Dillingham Blvd. looking southwest

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Richard's Meat Market
Historic Name: Click here to enter text.
Property Owner: TSR Partners Owner/ Richard's Meat Market Inc. Lessee
Address: 906 Kaaahi Place
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-007:032
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.317208
Longitude: -157.865689
Parcel Number: (1)1-5-007:032
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1970

II. Photograph of Resource

Photo 1: View of 906 Kaaahi Place looking north

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☒Not Eligible
  - ☐Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):
- ☐Aluminum Siding
- ☒Metal
- ☒Plywood
- ☐Asbestos
- ☐Shingles-Asphalt
- ☐OSB
- ☐Brick
- ☐Shingles-Wood
- ☐Fiberboard
- ☐Ceramic
- ☐Stone
- ☐Fiber Cement
- ☐Concrete
- ☐Stucco
- ☐Vinyl Siding
- ☐Horizontal Wood Siding
- ☐Vertical Wood Siding
- ☒Other: CMU
- ☐Log
- ☐Engineered Siding

Roof:
- ☐Asphalt, shingle
- ☐Slate
- ☐Wood Shingle
- ☐Asphalt, roll
- ☐Built Up
- ☐None
- ☒Metal
- ☐Ceramic Tile
- ☐Other: Click here to enter text.

Foundation:
- ☐Brick
- ☒Concrete Slab
- ☐Stone
- ☐Concrete Block
- ☐Poured Concrete
- ☐Raised/Pile
- ☐Other: Click here to enter text.

Structural Support:
- ☐Baled Hay
- ☐Frame-wood
- ☐Puddled Clay
- ☒Concrete Block
- ☐Frame-metal/steel
- ☐Rammed Earth
- ☐Concrete Framed
- ☐Brick-load bearing
- ☐Sod
- ☐Concrete Poured
- ☐Stone-load bearing
- ☐Other: Click here to enter text.

Windows:
- ☐Double Hung Sash
- ☒Jalousie
- ☐Stained Glass
- ☐Single Hung Sash
- ☐Glass Block
- ☐Replacement
- ☐Casement
- ☐None/Unknown
- ☐Aluminum
- ☒Fixed
- ☐Ribbon
- ☐Vinyl
- ☐Other: Click here to enter text.

Lanai(s)
- ☐Arcade
- ☐Recessed
- ☐Wrap-around
- ☐Balcony
- ☐Stoop
- ☐Verandah
- ☐Porte-Cochere
- ☐Portico
- ☒None
- ☐Other: Click here to enter text.

Chimney
- ☐Brick
- ☐Stuccoed Masonry
- ☐Stove Pipe
- ☐Concrete
- ☐Stone
- ☐Siding
- ☒None
- ☐Other: Click here to enter text.

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: Photo 3: View of 906 Kaaahi Place looking northeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: Photo 4: View of 906 Kaaahi Place looking northeast

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 5: View of 906 Kaaahi Place looking north

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name:	Click here to enter text.
Historic Name:	Click here to enter text.
Property Owner:	Property Investments, LLC
Address:	524 Kaaahi Street
City/ Town/ Location:	Honolulu
County:	Honolulu
TMK [(X)-X-X-XXX:XXX)]:	(1)1-5-007:033
Subdivision/Neighborhood:	Kalihi-Palama
Latitude:	21.317486
Longitude:	-157.865815
Parcel Number:	(1)1-5-007:033
Historic District:	N/A
Original Use:	Commercial
Current Use:	Commercial
Architect/ Builder (if known):	Click here to enter text.
Date of Construction (if known):	1968

II. Photograph of Resource

Photo 1: View of 524 Kaaahi St. looking east

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

- ☒Building(s)
  - ☒Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):

- ☐National Register of Historic Places
- ☐State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
  - Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)

- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 3	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other:
☐Log	☐Engineered Siding	CMU

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Click here to enter text.
Property Owner: G. Von Hamm Textiles, Inc.
Address: 916 Kaaahi Place
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-007:041
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.317166
Longitude: -157.865064
Parcel Number: (1)1-5-007:041
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1924 or 1950

II. Photograph of Resource

Photo 1: View of 916 Kaaahi Place looking east

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	

☐Other: Click here to enter text.

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile

☐Other: Click here to enter text.

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☒Concrete Poured	☐Stone-load bearing	

☐Other: Click here to enter text.

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl

☒Other: 9 lite with 3 over 2 awning window and 12 lite window with central awning

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None

☐Other: Click here to enter text.

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This extremely utilitarian masonry building has a flat roof and steel framed industrial windows of eight and six panes, on the first and second floors respectively. The windows' bottom two panes are a hopper window. Two doors, each with a corrugated metal shed roofed hood, are found on the Diamond Head (east) side of the building. Extending out on this side of the building is a carport/shop area. It has a steel structural system and a corrugated metal shed roof.

The building appears to retain its integrity; however, the HART survey effort did not deem it worthy for nomination to the National Register.

Additional Photographic Documentation

Photo 2: View of 916 Kaaahi Place looking east

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Sigs Collision Center	
Historic Name: Click here to enter text.	
Property Owner: Aloha Fender Works Inc.	
Address: 915 Kaaahi Place	
City/ Town/ Location: Honolulu	
County: Honolulu	
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-007:042	
Subdivision/Neighborhood: Kalihi-Palama	
Latitude: 21.316822	
Longitude: -157.865045	
Parcel Number: (1)1-5-007:042	
Historic District: N/A	
Original Use: Commercial	
Current Use: Commercial	
Architect/ Builder (if known): Ray Kenning	
Date of Construction (if known): 1972	

II. Photograph of Resource

Photo 1: View of 915 Kaaahi Place looking east

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)
☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
☐Structure(s)
☐Object(s)
☐Site(s)/Landscape(s)
☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent
☒Good
☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places
☐State Register of Historic Places
☒Not Eligible
☐Eligible
☐Listed
☐Contributing to Historic District:
Name of District: Click here to enter text.
☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events
☐B: Associated with Significant Person(s)
☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☒Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☒Other: Plastic		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: First Hawaiian Bank
Historic Name: Click here to enter text.
Property Owner: First Hawaiian Bank
Address: 445 N. King Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-007:043
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.317199
Longitude: -157.864685
Parcel Number: (1)1-5-007:043
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Haydn Philips
Date of Construction (if known): 1975

II. Photograph of Resource

Photo 1: View of 445 N. King St. looking south

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☒Excellent
- ☐Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible (after 2025)
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1	☐N/A
☐Below Ground	☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☒Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This single story, modern style bank building is eight bays wide, with each bay demarcated by a coral aggregate pilaster. Three single pane, fixed windows occupy each bay and the windows and their transoms constitute a floor to ceiling wall of glass, interrupted only by a bronzed aluminum band between the two. A projecting entry lanai runs across the three Ewa (western)-most bays and extends an additional bay beyond to partially shelter a sidewalk from the parking lot. The lanai's flat roof aligns with the masonry band between the windows and transoms. Square, coral aggregate columns support the outer periphery of the lanai roof. A set of aluminum, double doors are set in the third bay from the Ewa end of the building and is the main entry. The building is set back from King Street and a sidewalk by a narrow front lawn, while paved parking and automobile entry and exit drives surround the other three sides of the building.

Additional Photographic Documentation

Photo 2: View of 445 N. King St. looking south

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Hawaii Chinese Baptist Church
Historic Name: Click here to enter text.
Property Owner: Nuuanu Chinese Baptist Church
Address: 477 N. King Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-007:046
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.317619
Longitude: -157.864890
Parcel Number: (1)1-5-007:046
Historic District: N/A
Original Use: Commercial
Current Use: Religious
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1977

II. Photograph of Resource

Photo 1: View of 477 N. King St. looking west

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☐Residential ☐Commercial ☐Educational ☐Public/Civic ☒Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☒Good

☐Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☐State Register of Historic Places

☒Not Eligible

☐Eligible

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 1 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☒Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☒Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☒Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Photo 2: View of 445 N. King St. looking south

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 445 N. King St. looking north

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Kakaako Boxing Club
Historic Name: Masaichi Nakaoka Building
Property Owner: Nakaoka Investments, Inc.
Address: 922 Kaamahu Place
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-007:048
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.317859
Longitude: -157.865484
Parcel Number: (1)1-5-007:048
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1968

II. Photograph of Resource

Photo 1: View of 922 Kaamahu Place looking north

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)

☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious

☐Structure(s)

☐Object(s)

☐Site(s)/Landscape(s)

☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent

☐Good

☒Fair

Eligibility (select all that apply):

☐National Register of Historic Places

☒State Register of Historic Places

☐Not Eligible

☒Eligible (after 2018)

☐Listed

☐Contributing to Historic District:

Name of District: Click here to enter text.

☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events

☐B: Associated with Significant Person(s)

☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)

☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☒Other: CMU
☐Log	☐Engineered Siding	

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☒Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☒Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This L-shaped building includes a two story, shed roofed, CMU wing which runs perpendicular to Kaamahu Street, and a recessed, 35'x 60' two story wing which runs parallel to the street. The latter was added in 1970 and is an open shed used for storage with a steel structural system and a metal shed roof. A straight run of metal steps with a pipe railing runs parallel to the *mauka* (mountain) side of the CMU wing, and accesses the building's second story offices' 4' wide lanai/walkway. The offices have jalousie windows.

The building appears to retain its integrity; however, the HART survey effort did not deem it worthy for nomination to the National Register.

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Click here to enter text.
Historic Name: Rudolph Cockett Building
Property Owner: Cockett, Rudoplph C. Trust; Cockett, Elizabeth E. Trust
Address: 916 Kaamahu Place
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-007:049
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.317834
Longitude: -157.865677
Parcel Number: (1)1-5-007:049
Historic District: N/A
Original Use: Commercial
Current Use: Commercial
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1967

II. Photograph of Resource

Photo 1: View of 916 Kaamahu Place looking north

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 2
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):
- ☐Aluminum Siding
- ☐Asbestos
- ☐Brick
- ☐Ceramic
- ☐Concrete
- ☐Horizontal Wood Siding
- ☐Log
- ☐Metal
- ☐Shingles-Asphalt
- ☐Shingles-Wood
- ☐Stone
- ☐Stucco
- ☐Vertical Wood Siding
- ☐Engineered Siding
- ☐Plywood
- ☐OSB
- ☐Fiberboard
- ☐Fiber Cement
- ☐Vinyl Siding
- ☒Other: CMU

Roof:
- ☐Asphalt, shingle
- ☐Asphalt, roll
- ☒Metal
- ☐Other: Click here to enter text.
- ☐Slate
- ☐Built Up
- ☐Ceramic Tile
- ☐Wood Shingle
- ☐None

Foundation:
- ☐Brick
- ☐Concrete Block
- ☐Other: Click here to enter text.
- ☒Concrete Slab
- ☐Poured Concrete
- ☐Stone
- ☐Raised/Pile

Structural Support:
- ☐Baled Hay
- ☒Concrete Block
- ☐Concrete Framed
- ☐Concrete Poured
- ☐Other: Click here to enter text.
- ☐Frame-wood
- ☐Frame-metal/steel
- ☐Brick-load bearing
- ☐Stone-load bearing
- ☐Puddled Clay
- ☐Rammed Earth
- ☐Sod

Windows:
- ☐Double Hung Sash
- ☐Single Hung Sash
- ☐Casement
- ☒Fixed
- ☒Other: Awning
- ☐Jalousie
- ☐Glass Block
- ☐None/Unknown
- ☐Ribbon
- ☐Stained Glass
- ☐Replacement
- ☐Aluminum
- ☐Vinyl

Lanai(s)
- ☐Arcade
- ☐Balcony
- ☐Porte-Cochere
- ☐Other: Click here to enter text.
- ☐Recessed
- ☐Stoop
- ☐Portico
- ☐Wrap-around
- ☐Verandah
- ☒None

Chimney
- ☐Brick
- ☐Concrete
- ☒None
- ☐Stuccoed Masonry
- ☐Stone
- ☐Other: Click here to enter text.
- ☐Stove Pipe
- ☐Siding

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Photo 2: View of 916 Kaamahu Place looking northwest

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 916 Kaamahu Place looking north

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Institute for Human Services
Historic Name: Von Hamm Textiles
Property Owner: City & County of Honolulu
Address: 546 Kaaahi Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-007:050
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.317864
Longitude: -157.865931
Parcel Number: (1)1-5-007:050
Historic District: N/A
Original Use: Commercial
Current Use: Nonprofit
Architect/ Builder (if known): Stanley Shigemura
Date of Construction (if known): 1973

II. Photograph of Resource

Photo 1: View of 546 Kaaahi St. looking northeast

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☒Building(s)
  - ☐Residential ☐Commercial ☐Educational ☐Public/Civic ☒Religious
- ☐Structure(s)
- ☐Object(s)
- ☐Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☒Good
- ☐Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible (after 2023)
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☐A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☒C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☒Stories: 3
- ☐N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):
- ☐Aluminum Siding
- ☐Asbestos
- ☐Brick
- ☐Ceramic
- ☐Concrete
- ☐Horizontal Wood Siding
- ☐Log
- ☐Metal
- ☐Shingles-Asphalt
- ☐Shingles-Wood
- ☐Stone
- ☐Stucco
- ☐Vertical Wood Siding
- ☐Engineered Siding
- ☐Plywood
- ☐OSB
- ☐Fiberboard
- ☐Fiber Cement
- ☐Vinyl Siding
- ☒Other: CMU

Roof:
- ☐Asphalt, shingle
- ☐Asphalt, roll
- ☐Metal
- ☐Other: Click here to enter text.
- ☐Slate
- ☒Built Up
- ☐Ceramic Tile
- ☐Wood Shingle
- ☐None

Foundation:
- ☐Brick
- ☐Concrete Block
- ☐Other: Click here to enter text.
- ☒Concrete Slab
- ☐Poured Concrete
- ☐Stone
- ☐Raised/Pile

Structural Support:
- ☐Baled Hay
- ☐Concrete Block
- ☒Concrete Framed
- ☐Concrete Poured
- ☐Other: Click here to enter text.
- ☐Frame-wood
- ☐Frame-metal/steel
- ☐Brick-load bearing
- ☐Stone-load bearing
- ☐Puddled Clay
- ☐Rammed Earth
- ☐Sod

Windows:
- ☐Double Hung Sash
- ☐Single Hung Sash
- ☐Casement
- ☒Fixed
- ☒Other: Awning
- ☒Jalousie
- ☐Glass Block
- ☐None/Unknown
- ☐Ribbon
- ☐Stained Glass
- ☐Replacement
- ☐Aluminum
- ☐Vinyl

Lanai(s)
- ☐Arcade
- ☐Balcony
- ☐Porte-Cochere
- ☐Other: Click here to enter text.
- ☐Recessed
- ☐Stoop
- ☐Portico
- ☐Wrap-around
- ☐Verandah
- ☒None

Chimney
- ☐Brick
- ☐Concrete
- ☒None
- ☐Stuccoed Masonry
- ☐Stone
- ☐Other: Click here to enter text.
- ☐Stove Pipe
- ☐Siding

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Architectural Description

This three story industrial building is four bays wide, with each bay articulated by its pre-cast concrete structural columns and beams. Split face blocks infill the spaces between the structural members, and jalousie windows illuminate and ventilate the second and third floors. The third floor windows are surmounted with single pane transoms, some of which have been supplanted with a double stacked set of awning windows.

Additional Photographic Documentation

Photo 2: View of 546 Kaaahi St. looking east

FOR SHPD USE ONLY:	Site # Click here to enter text.	TMK # Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Kapalama Pet Hospital	
Historic Name: Click here to enter text.	
Property Owner: Eternal Light LLC	
Address: 551 Dillingham Boulevard	
City/ Town/ Location: Honolulu	
County: Honolulu	
TMK [(X)-X-X-XXX:XXX)]: (1)1-5-007:054	
Subdivision/Neighborhood: Kalihi-Palama	
Latitude: 21.318177	
Longitude: -157.865686	
Parcel Number: (1)1-5-007:054	
Historic District: N/A	
Original Use: Commercial	
Current Use: Commercial	
Architect/ Builder (if known): Click here to enter text.	
Date of Construction (if known): 1968 or 1974	

II. Photograph of Resource

Photo 1: View of 551 Dillingham Blvd. looking west

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):

☒Building(s)
☐Residential ☒Commercial ☐Educational ☐Public/Civic ☐Religious
☐Structure(s)
☐Object(s)
☐Site(s)/Landscape(s)
☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:

☐Excellent
☐Good
☒Fair

Eligibility (select all that apply):

☐National Register of Historic Places
☐State Register of Historic Places
☒Not Eligible
☐Eligible
☐Listed
☐Contributing to Historic District:
Name of District: Click here to enter text.
☐Unknown

Criteria of Significance (select all that apply)

☐A: Associated with Events
☐B: Associated with Significant Person(s)
☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
☐D: Have yielded or may be likely to yield information important to history or prehistory.

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height

☒Stories: 2 ☐N/A
☐Below Ground ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☒Concrete	☒Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☒Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☒Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☒Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☒Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☒Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☒None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☒None	☐Other: Click here to enter text.	

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Additional Photographic Documentation

Photo 2: View of 551 Dillingham Blvd. looking west

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 3: View of 551 Dillingham Blvd. looking west

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

Photo 4: View of 551 Dillingham Blvd. looking northwest

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

I. GENERAL INFORMATION

Common / Present Name: Aala Park
Historic Name: Aala Park
Property Owner: City & County of Honolulu
Address: 280 N. King Street
City/ Town/ Location: Honolulu
County: Honolulu
TMK [(X)-X-X-XXX:XXX)]: (1)1-7-027:002
Subdivision/Neighborhood: Kalihi-Palama
Latitude: 21.315340
Longitude: -157.863648
Parcel Number: (1)1-7-027:002
Historic District: N/A
Original Use: Park
Current Use: Park
Architect/ Builder (if known): Click here to enter text.
Date of Construction (if known): 1899

II. Photograph of Resource

Photo 1: View of Aala Park looking east from North King Street

Prepared By: Don Hibbard, Alison Chiu Consulting Firm: Fung Associates, Inc.
Address: 1833 Kalakaua Ave. Suite 1008 Honolulu, HI 96815
Telephone Number: 808-941-3000 Email: projects@funghawaii.com Date: March 2017

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM – Reconnaissance Level

FOR SHPD USE ONLY: **Site #** Click here to enter text. **TMK #** Click here to enter text.

III. CONDITION ASSESSMENT

Category (select all that apply):
- ☐Building(s)
  - ☐Residential ☐Commercial ☐Educational ☐Public/Civic ☐Religious
- ☐Structure(s)
- ☐Object(s)
- ☒Site(s)/Landscape(s)
- ☐Archaeology or potential for archaeology (Please provide a description of the potential for archaeology within VI. Description of Resource Features below.)

Condition:
- ☐Excellent
- ☐Good
- ☒Fair

Eligibility (select all that apply):
- ☐National Register of Historic Places
- ☒State Register of Historic Places
  - ☐Not Eligible
  - ☒Eligible
  - ☐Listed
  - ☐Contributing to Historic District:
    Name of District: Click here to enter text.
  - ☐Unknown

Criteria of Significance (select all that apply)
- ☒A: Associated with Events
- ☐B: Associated with Significant Person(s)
- ☐C: Distinctive characteristics of a type, period or method of construction; work of a master; possess high artistic values (Architecture, Engineering, Design)
- ☐D: Have yielded or may be likely to yield information important to history or prehistory.

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

IV. MAP

HAWAII STATE HISTORIC PRESERVATION DIVISION
HISTORIC RESOURCE INVENTORY FORM –Reconnaissance Level

FOR SHPD USE ONLY: **Site #**Click here to enter text. **TMK #** Click here to enter text.

V. DESCRIPTION

Materials (please check those materials that are visible):

Height
- ☐Stories: Click here to enter text.
- ☒N/A
- ☐Below Ground
- ☐Other: Click here to enter text.

Exterior Walls (siding):

☐Aluminum Siding	☐Metal	☐Plywood
☐Asbestos	☐Shingles-Asphalt	☐OSB
☐Brick	☐Shingles-Wood	☐Fiberboard
☐Ceramic	☐Stone	☐Fiber Cement
☐Concrete	☐Stucco	☐Vinyl Siding
☐Horizontal Wood Siding	☐Vertical Wood Siding	☐Other:
☐Log	☐Engineered Siding	Click here to enter text.

Roof:

☐Asphalt, shingle	☐Slate	☐Wood Shingle
☐Asphalt, roll	☐Built Up	☐None
☐Metal	☐Ceramic Tile	
☐Other: Click here to enter text.		

Foundation:

☐Brick	☐Concrete Slab	☐Stone
☐Concrete Block	☐Poured Concrete	☐Raised/Pile
☐Other: Click here to enter text.		

Structural Support:

☐Baled Hay	☐Frame-wood	☐Puddled Clay
☐Concrete Block	☐Frame-metal/steel	☐Rammed Earth
☐Concrete Framed	☐Brick-load bearing	☐Sod
☐Concrete Poured	☐Stone-load bearing	
☐Other: Click here to enter text.		

Windows:

☐Double Hung Sash	☐Jalousie	☐Stained Glass
☐Single Hung Sash	☐Glass Block	☐Replacement
☐Casement	☐None/Unknown	☐Aluminum
☐Fixed	☐Ribbon	☐Vinyl
☐Other: Click here to enter text.		

Lanai(s)

☐Arcade	☐Recessed	☐Wrap-around
☐Balcony	☐Stoop	☐Verandah
☐Porte-Cochere	☐Portico	☐None
☐Other: Click here to enter text.		

Chimney

☐Brick	☐Stuccoed Masonry	☐Stove Pipe
☐Concrete	☐Stone	☐Siding
☐None	☐Other: Click here to enter text.	

FOR SHPD USE ONLY:	Site #Click here to enter text.	TMK # Click here to enter text.

X. Continuation Sheet

Please use this sheet those that follow to attach additional information about the site; including, but not limited to additional floor plans, drawings, photographs, maps, etc.

Landscape Description

Aala Park's triangular shape is formed by the conversion of N. King and N. Beretania Streets at its northern corner and Nuuanu Stream on its southeastern end. The majority of the park is open space with sporadic tree coverage. Curved and lighted concrete sidewalks wind through the park. A basketball court, playground and skate park are located in the eastern corner of the park. A baseball field, restrooms and trellis are located in southern corner.

EXHIBIT 10

DAVID Y. IGE
GOVERNOR OF
HAWAII

SUZANNE D. CASE
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

ROBERT K. MASUDA
FIRST DEPUTY

JEFFREY T. PEARSON, P.E.
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE HISTORIC PRESERVATION DIVISION
KAKUHIHEWA BUILDING
601 KAMOKILA BLVD, STE 555
KAPOLEI, HAWAII 96707

June 8, 2018

Hakim Ouansafi, Executive Director
Hawaii Public Housing Authority
1002 North School Street
Honolulu, HI 96817
Email:hakim.ouansafe@hawaii.gov

IN REPLY REFER TO:
Log No. 2018.01228
Doc. No. 1805JA07
Archaeology

Dear Mr. Ouansafi:

SUBJECT: **Chapter 6E-8 and National Historic Preservation Act (NHPA) Section 106 Review – Archaeological Inventory Survey for Mayor Wright Homes Redevelopment Project Honolulu Ahupua'a, Honolulu (Kona) District, Island of O'ahu TMK: (1) 1-7-029:003**

This letter provides the State Historic Preservation Division's (SHPD's) review comments concerning the revised draft report titled *Archaeological Inventory Survey of the Mayor Wright Homes Redevelopment Project Honolulu (Nu'uanu) Ahupua'a, Honolulu (Kona) District, O'ahu Island, Hawai'i TMK (1) 1-7-029:003* (Monahan, May 2018). The submittal was received by our Kapolei office on May 24, 2018.

SHPD was consulted to assist in development of an archaeological inventory survey (AIS), a cultural impact assessment (CIA), and/or an architectural survey for the project on November 16, 2016 (Log No. 2016.02316, Doc. No. 1611JLP15). SHPD consulted with archaeological consultant Christopher Monahan (TCP Hawaii, LLC) regarding development of the AIS and the CIA in June and September 2016, and agreed with the AIS testing strategy on September 8, 2016 (email correspondence; Kimi Matsushima [SHPD] to Chris Monahan [TCP]).

The proposed project is to receive funding from the U.S. Department of Housing and Urban Development (HUD). It is therefore determined to be a federal undertaking, as defined in 36 CFR 800.16(y), and is subject to National Historic Preservation Act (NHPA) Section 106 review. SHPD concurred with the area of potential effect (APE) for the undertaking on June 20, 2017 (Log Nos. 2016.01289, 2017.00472; Doc. No. 1706JLP23). Since the property owner and project proponent is the Hawaii Public Housing Authority (HPHA), the project is also subject to historic-preservation review under Hawaii Revised Statutes (HRS) §6E-8. HPHA is authorized to conduct Section 106 consultation on behalf of HUD and initiated consultation with SHPD on May 25, 2016 (Log No. 2016.01289).

The proposed undertaking will redevelop the approximately 15-acre Mayor Wright Homes complex, which is located in the block bounded by North King Street on the southwest, Pua Lane on the northwest, Vineyard Boulevard on the northeast, and Liliha Street on the southeast. Currently, the Mayor Wright facilities include 35 low-rise buildings with 364 residential units. HPHA proposes construction of new low, medium, and high-rise units with 1000-1500 residential units and mixed-use buildings. The AIS report was prepared at the request of Hunt Companies, Inc., and their planner, PBR Hawaii & Associates, Inc., on behalf of HPHA.

The AIS included on-foot survey of 100% of the project area and subsurface testing involving 24 backhoe-assisted trenches (T-1 through T-24). The survey newly documented four historic properties: a subsurface cultural layer and four features (post-Contact refuse pits) associated with the initial development of the Mayor Wright housing

complex (State Inventory of Historic Places [SIHP] Site 50-80-14-8033), a subsurface layer consisting of pond deposits associated with *lo'i kalo* (taro pondfields) (Site 50-80-14-8034), two buried post-Contact surfaces (Site 50-80-14-8035), and a series of large, post-Contact to modern drainpipes (Site 50-80-14-8036). General stratigraphy includes the modern asphalt surface, the original Mayor Wright development layer (Site 8033), and varying fills and/or agricultural soils and sediments (Site 8034, other agricultural deposits), overlying natural clayey soils probably formed on alluvial sediments deposited by flowing water, in some cases cinders likely from the Pūowaina (Punchbowl) eruption, and the coral shelf.

The report assesses the four sites as retaining integrity of location and materials, and as significant under HAR §13-275-6 Criterion d. Under 36 CFR 800, the sites are determined not eligible for inclusion in the National Register of Historic Places. Pursuant to HAR §13-275-7, the AIS identifies the project effect determination as "Effect, with proposed mitigation commitments" and, per HAR §13-275-8, the mitigation commitment is data recovery in the form of archaeological monitoring.

The SHPD concurs with the site significance assessments and that none of the four historic properties are eligible for inclusion in the NRHP, with the effect HRS 6E effect determination of "effect, with proposed mitigation commitments", and with the proposed mitigation of data recovery in the form of archaeological monitoring.

This revised AIS report satisfies the minimum requirements of HAR §13-276-5. **It is accepted.** Please send one hard copy of the document, clearly marked FINAL, along with a text-searchable PDF version, to the Kapolei SHPD office, attention SHPD Library.

SHPD anticipates reviewing and accepting an archaeological monitoring plan meeting the requirements of HAR §13-279-4 prior to project initiation.

HPHA and HUD are the offices of record for this undertaking. Please maintain a copy of this letter with your environmental review record for this undertaking.

Please contact Dr. Jane Allen at (808) 692-8045 or at Jane.Allen@hawaii.gov if you should have any questions or if we can be of assistance.

Aloha
Alan Downer

Alan S. Downer, PhD
Administrator, State Historic Preservation Division
Deputy State Historic Preservation Officer

cc: Chris Monahan, TCP (mookahan@gmail.com)

DRAFT FOR SHPD REVIEW

ARCHAEOLOGICAL INVENTORY SURVEY OF THE MAYOR WRIGHT HOMES REDEVELOPMENT PROJECT HONOLULU (NU‘UANU) AHUPUA‘A, HONOLULU (KONA) DISTRICT O‘AHU ISLAND, HAWAI‘I

TMK (1) 1-7-029:003

Prepared for:
Hunt Companies, Inc.
737 Bishop Street, Suite 2750
Honolulu, HI 96813

Prepared by:
Christopher M. Monahan, Ph.D.
TCP Hawai‘i, LLC
333 Aoloa Street, #303
Kailua, HI 96734

March 2017

Excavation of Trench #13 in progress adjacent to Building 10 (right background)

ABSTRACT – MANAGEMENT SUMMARY

TCP Hawai‘i has completed the first part of Archaeological Inventory Survey (AIS) work in an approximately 15.3-acre project area in Honolulu in support of the Mayor Wright Homes Redevelopment Project (TMK [1] 1-7-029:003). As described below, there will be some additional AIS testing when the existing buildings in the project area are demolished. The landowner is the Hawai‘i Public Housing Authority. For the purposes of this AIS, the Area of Potential Effect (APE), synonymous with “project area” in this report, is the same as the physical footprint of the TMK parcel. We use the term “direct APE” throughout this report to refer specifically to the APE for archaeological resources (to distinguish it from the broader APE for architectural resources that may include more indirect effects). Twenty-four (24) backhoe-assisted trenches were excavated in the project area, according to an SHPD-approved trenching plan. Four (4) historic properties were identified: State Inventory of Historic Places (SIHP) # 50-80-14-8033, exposed in nearly all of the trenches (21 of 24), is a subsurface layer consisting of four (4) features. It represents a project-area wide grading/bulldozing and pit-filling (dumping) event that occurred just prior to, and in preparation for, the construction of the Mayor Wright Homes residential complex (circa 1952-3). Site 8034, exposed in several trenches in the mauka (inland) portion of the project area (Trench #s 6, 7, 10, 15 & 17), is a subsurface layer consisting of gray clay interpreted as pond sediments, most likely the remnants of traditional Hawaiian lo‘i kalo (irrigated, pond-field, taro cultivation). There is abundant historical evidence that, in pre-Contact times—before the development of Honolulu Harbor and in the early nineteenth century and subsequent urbanization—the project area represented a prime location for traditional Hawaiian subsistence cultivation of taro; and such activities continued in some portions into the early twentieth century. The upper portion of this sedimentary layer—and this site—appear to have been partially truncated by the grading/bulldozing. Site 8035 consists of two features, both are asphalt and/or concrete surfaces (exposed in Trench #11 [Feature 1] and Trench #12 [Feature 2], respectively) dating from the late historic/early modern period. Site 8036 is a set of very large drainage pipes (exposed in Trench #21) also dating from the late historic/early modern period. All four (4) historic properties have been evaluated as significant under criteria d (State) and D (Federal) for their intrinsic informational value to research on the history and prehistory of Honolulu, its urbanization, and the advent of public housing in the State of Hawai‘i. We recommend that sufficient documentation of the four (4) historic properties identified in this AIS report has now been completed, and TCP Hawai‘i recommends no further archaeological or historic preservation work is needed for these sites. During consultation with the SHPD-Archaeology Branch, the issue of archaeological testing (excavation) under the existing buildings—once they are demolished (they are currently occupied by hundreds of residents)—was raised as a possible, additional round of AIS fieldwork (e.g., as a Supplemental AIS report). *In order to ensure there are no as-yet undiscovered areas with potentially significant archaeological resources, or burials, we recommend a second round of AIS testing (excavation) in the footprints of some of the existing residential structures, when they are demolished in the future.* We recommend a total of 12 additional trenches placed under 12 of the existing buildings (once they are vacated). This additional AIS work can be submitted to the SHPD for review and comment as a Supplemental AIS report. We include a graphic depiction (at the end of the report) showing what an additional 12, on top of the current 24, would look like in terms of project area coverage. Because inventory and identification steps are incomplete at this time, we are not ready to recommend an effect determination—in accordance with HAR § 13-275-7—at this time. Likewise, since the inventory and identification steps are incomplete, we are not ready to recommend an effect determination under Section 106 (36 CFR Part 800) either. When we have completed sufficient AIS testing, we will recommend such legally-mandated determinations for SHPD concurrence.

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INTRODUCTION

On behalf of the project proponent, Hunt Companies, Inc., and its local planner, PBR Hawaii & Associates, Inc., TCP Hawai'i, LLC, has completed the first part of Archaeological Inventory Survey (AIS) work in an approximately 15.3-acre project area in Honolulu in support of the Mayor Wright Homes Redevelopment Project (TMK [1] 1-7-029:003) (Figure 1, Figure 2 and Figure 3).

As described below, there will be some additional AIS testing when the existing buildings in the project area are demolished. The landowner is the Hawai'i Public Housing Authority (HPHA). For the purposes of this AIS, the Area of Potential Effect (APE), synonymous with "project area" in this report, is the same as the physical footprint of the TMK parcel. We use the term "direct APE" throughout this report to refer specifically to the APE for archaeological resources (to distinguish it from the broader APE for architectural resources that may include more indirect effects).

The project area is bounded by N. King St., Pua Lane, Vineyard Blvd., and Liliha St. in a thoroughly urbanized/developed part of Honolulu just west of the channelized lower Nu'uanu Stream. Iwilei is just makai (seaward) of the project area; Kalihi and Kapālama are to the 'Ewa (west) side; Chinatown and the old center of Honolulu are located to the Diamond Head (east) side.

Proposed Undertaking

Mayor Wright Homes—a public housing complex built by the HPHA—were first occupied in 1952 or 1953 (depending on the source), making them approximately 64 or 65 years old.[1] The proposed undertaking will replace the existing 364 residential units—currently consisting of 35 separate, low-rise buildings (plus an administration building)—with an entirely new 1,000 to 1,500 residential units and other mixed-use structures. The new development will include low, medium and high-rise buildings. This project is considered to be part of the Transit-Oriented Development (TOD) associated with construction of the Honolulu Rail Transit Project.

Historic Preservation Context

There have not been any previous archaeological surveys in the project area because the Mayor Wright Homes were completed prior to the introduction of applicable environmental and historic-preservation laws (starting in the late 1960s). Due to the project's anticipated involvement with the U.S. Department of Housing and Urban Development (HUD), possibly including funding, this project is subject to review under Section 106 (36 CFR Part 800) of the National Historic Preservation Act of 1966, as amended. The project is also reviewable under Hawai'i Revised Statutes (HRS) 6E-8 and Hawai'i Administrative Rules (HAR) § 13-275.

The subject AIS was conducted in accordance with Hawai'i Administrative Rules (HAR) § 13-276. As such, we consulted extensively with the State Historic Preservation Division (SHPD) to develop an appropriate scope of work to ensure all historic properties are identified. One of the results of consultation with SHPD was the requirement that additional AIS testing be conducted in the footprints of some of the existing buildings—which were occupied by tenants at the time of our current survey—once the buildings are demolished (see discussion of this in our Conclusion).

As described further in the document (see Methods section), we also conducted extensive community outreach and consultation with numerous individuals and agencies, including Native Hawaiian organizations. The consultation objectives were (1) to provide notification that this project could affect historic properties of interest to the community; (2) to seek consulted party views on the methods by

[1] The above-ground, architectural structures in the APE/project area are being evaluated by Fung Associates, Inc.

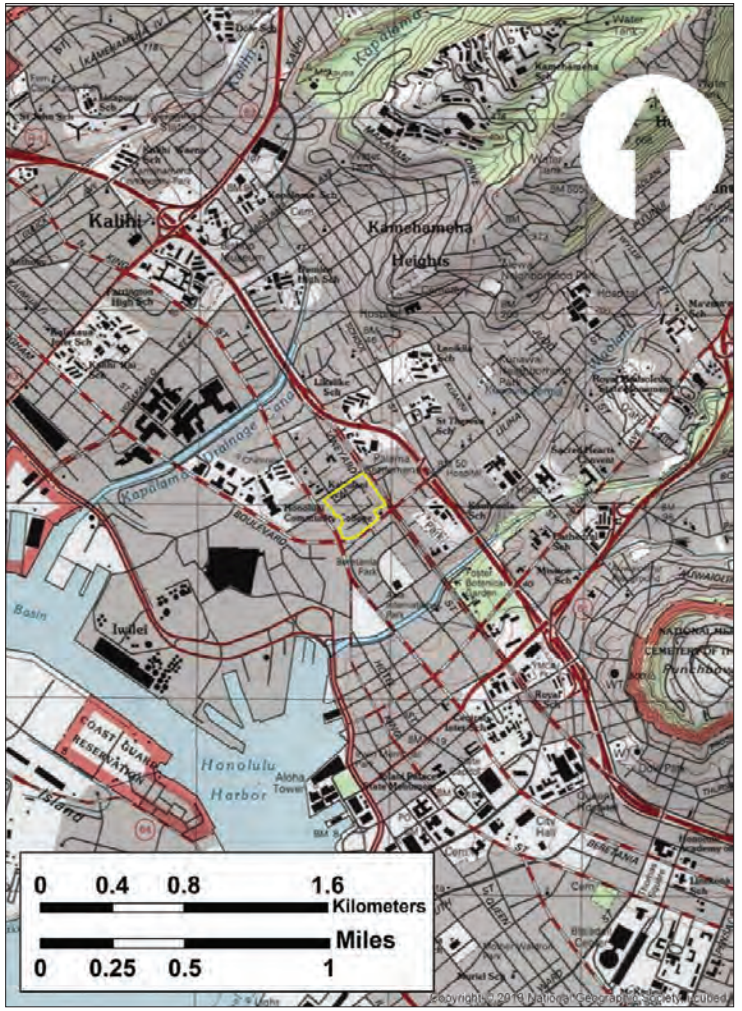

Figure 1. Project area (yellow outline) depicted on a USGS topographic map (base map source: ESRI's ArcMap 10.2.2)

Figure 2. Project area (yellow outline) depicted on an aerial photograph

Figure 3. TMK map of project area and other parcels in same block (source: TMK data State GIS layer)

which we identified and evaluated historic properties in the project area; and (3) to solicit consulted party views on the proposed undertaking's potential effects on historic properties.[2]

Project Area Description

The project area block, bounded by N. King St., Liliha St., Vineyard Boulevard and Pua Lane, is fully urbanized with no naturally-occurring plants or animals, no natural streams, drainages or waterways, and minimal topographic variation other than a gentle slope down to the makai (seaward) direction. Elevation varies from approximately 25 ft. (7.6 m) above mean sea level (amsl) along Vineyard Boulevard to 10 ft. (3.0 m) amsl along N. King Street. About half of the project area is covered by asphalt, concrete and above-ground structures, while the rest consists of open grass (Figure 4). Mean annual rainfall in this part of O'ahu is approximately 30 inches (762 mm) (Giambelluca et al. 2013). The project area is subject to a leeward-type of climate with winter (so-called Kona) rains predominating, and very light trade-wind rains coming down from Nu'uanu Valley.

According to the U.S. Department of Agriculture's classification system, natural soils in the project area consist exclusively of Ewa silty clay loam (EmA), which occur on moderately sloping (0-2°) slopes (Foote et al. 1972). This natural soil is the result of admixture of decomposing basalt bedrock (parent material), downslope (colluvial) deposition, and alluvial deposition from the Nu'uanu Stream, now (in its channelized configuration) about 500 m to the east. Before it was urbanized, the project area would have been periodically subject to flooding and overbank sedimentary deposition from the Nu'uanu/Waolani stream system. As we document in the Results section, in addition to exposing loamy sediments in

[2] A Cultural Impact Assessment (CIA) is also being conducted in accordance with Hawai'i Revised Statutes (HRS) § 343 and HAR § 11-200, as well as the State Office of Environmental Quality Control's (OEQC) 2012 *Guide to the Implementation and Practice of the Hawaii Environmental Policy Act.*

Figure 4. Representative view of project area showing typical grassy areas, sidewalks in background, overhead electrical utilities and residential two- to three-story buildings

excavation, we also discovered a relatively shallow, lithified coral-reef bedrock in several trenches along the southwest side of the project area; we believe this represents the remnants of a once-elevated lithified reef—probably a late Pleistocene formation from the Waimānalo Sea Stand—as depicted on an 1817 historic map by Otto von Kotzebue (Fitzpatrick 1986:48-9) (see Figure 8).

METHODS

This section describes the methods of archival research, consultation, fieldwork and post-fieldwork activities for this project.

Archival Research

Some information in this report is based on recent archaeological and cultural-resource studies of the immediate area, including Belluomini et al. (2016), Kumu Pono (2013), SRI Foundation and Kumu Pono (2013), and Hammatt (2013). We also conducted multiple records searches at SHPD's library in Kapolei; and utilized these on-line databases to obtain cultural, historical and archaeological data:

- OHA's Papakilo database (http://papakilodatabase.com/main/main.php)
- OHA's Kipuka database (http://kipukadatabase.com/kipuka/)
- Bernice P. Bishop Museum archaeological site database (http://has.bishopmuseum.org/index.asp)
- Bishop's Hawaii Ethnological Notes (http://data.bishopmuseum.org/HEN/browse.php?stype=3)
- University of Hawai'i-Mānoa's digital maps (http://magis.manoa.hawaii.edu/maps/index.html)
- DAGS' State Land Survey (http://ags.hawaii.gov/survey/map-search/)
- Waihona 'Aina website (www.waihona.com)
- Digital newspaper archive "Chronicling America, Historic American Newspapers" (http://chroniclingamerica.loc.gov/lccn/sn82014681/)
- US Library of Congress digital maps (https://www.loc.gov/maps/)
- Hawai'i State Archives digital collections (http://archives1.dags.hawaii.gov/)

PBR Hawai'i & Associates staff also brought to our attention, and provided a copy of, a relevant, peer-review article by Kam (2013) that we cite in the historic period background review section of this report. Matt McDermott (Cultural Surveys Hawai'i) provided assistance with links to reports by Kepā Maly (Kumu Pono 2013; SRI Foundation and Kumu Pono 2013). Kimi Matsushida (Lead Archaeologist, O'ahu Island, SHDP) provided a link to Belluomini et al. (2016).

Consultation

From the end of May to early June, 2016, we sent formal consultation letters (Appendix A) regarding our proposed Archaeological Inventory Survey (AIS) to the following agencies and individuals:

1. SHPD/DLNR (Administrator Downer, Archaeology Branch Chief Susan Lebo, O'ahu Burial Site Program staff Regina Hilo, and Ka'āhiki Solis);
2. OHA (Ka Pouhana/CEO Crabbe and staff in Compliance, Kai Markell and Lauren Morawski);
3. Kalihi-Palama Neighborhood Board (Chair Ryan Mandado);
4. Kalihi-Palama Hawaiian Civic Club (Pelekikena/President Leimomi Khan);
5. Cynthia Yoshida (Public Housing Supervisor, MWH);
6. Historic Hawaii Foundation (Kirsten Faulkner);
7. Ka'anohi Paulette Kaleikini (Native Hawaiian, cultural descendant, Honolulu area);
8. Michael Lee (Native Hawaiian, cultural descendant, Honolulu area).

We provided the O'ahu Island Burial Council in June, 2016, with an informational presentation about our proposed AIS. Emily Davids from Hunt Companies, Inc., attended with Chris Monahan.

Ka'anohi Kaleikini and I exchanged emails in May-June, 2016, regarding her consultation input. Her primary input was to bring our attention to the nearby, recent AIS by Cultural Surveys Hawai'i (i.e., Belluomini et al. 2016); and to raise the issue of including cultural monitoring in our project.

OHA replied in writing on June 28, 2016, to our formal consultation letter to them (see Appendix A). OHA had nothing specific to communicate to us. Chris Monahan also communicated briefly by phone in June, 2016, with OHA Compliance staff, Kai Markell and Lauren Morawski.

Chris Monahan met formally with Susan Lebo, in June, 2016, about our proposed AIS. She suggested we reach out to SHPD staff, Kaʻāhiki Solis, History and Culture Branch, regarding information about the MWH property. We emailed Kaʻāhiki Solis on June 3, 2016, and again in September, 2016. She then provided some substantive input about the Cultural Impact Assessment (CIA) we are preparing.

Prior to the start of fieldwork, we conducted additional consultation with the SHPD regarding a trenching plan (fieldwork scope of work) for the AIS (see Appendix A). Chris Monahan met formally in August, 2016, with Susan Lebo and Kimi Matsushida. A final (revised) trenching plan dated September 8, 2016, was formally approved by Kimi Matsushida by email shortly thereafter.

Fieldwork

On September 19, 2016, Chris Monahan worked on site with the toning consultant to ensure trench locations would avoid underground utilities. Based on the toning results, we made minor adjustments to the majority of trench locations, due to the very high number of known and unknown subsurface obstacles (principally, gas and water lines). These adjustments included shortening many trenches from our desired maximum length of 6.0 m (20 ft.); and, altering the orientation of some trenches.

Figure 5 and Figure 6 show examples of the logistical difficulty of conducting backhoe excavation in the project area, given that it includes three dozen buildings housing hundreds of people. Figure 7 and Figure 8 depict the location of test excavations (trenches) in the project area. Trench locations were recorded using mapping-grade (Trimble) GPS that consistently achieved geospatial accuracy to 0.1–0.2 m.

All fieldwork was conducted by Chris Monahan, Ph.D., the Principal Investigator, and Archaeologist Michael (Pablo) Rivera, B.A., from September 20–27, 2016, a total of 96 person-hours. Backhoe excavation proceeded slowly with the operator removing approximately 5 cm at a time. One archaeologist worked directly with the operator to monitor sediments as they were removed from the trench. The archaeologist stopped or slowed down the operator to observe any anomalies or subsurface deposits or potential features of interest. Small samples of sediment were occasionally passed through a standard, ¼-inch metal-mesh screen in order to inspect natural and/or potential cultural material. We photographed representative cultural materials—which consisted exclusively of late historic/early modern debris (mostly glass, ceramics, metal, brick, paving stones)—for inclusion in the Fieldwork Results section; and saved (for inclusion in the Laboratory Results section) chronologically diagnostic materials such as glass bottles with maker's marks.[3] All trenches were photographed with a visible, professional photo scale and north arrow during and after excavation, which terminated at bedrock or (in two cases) the water table. In addition to overview photographs, we also photographed the profile walls. We described the soil-sedimentary layers according to standard archaeological methods used in Hawaiʻi (e.g., dimensions, cultural materials, if present, Munsell color, grain size, consistency, structure, inclusions, if present, and so on); and prepared scale drawings of one entire (long axis) profile wall. We include all of this information, as well as interpretations on the origins and age, if possible, of each layer (e.g., natural versus cultural, including fill) in the Fieldwork Results section below.

GIS Specialist Todd Tulchin, B.S., recorded all trench locations using the Trimble GPS with Chris Monahan on October 6, 2016 (see Figure 7 and Figure 8).

Post-fieldwork Activities

Following the conclusion of all fieldwork activities, we emailed an End of Fieldwork summary to SHPD (see Appendix A). GIS maps of trench locations were prepared by Todd Tulchin using ESRI software. Adobe Illustrator was used to prepare the stratigraphic profiles. ESRI's ArcMap 10.2.2 was used to georeferenced the many historic maps presented in this report.

[3] These materials, which are the property of the landowner, are currently stored at TCP Hawaiʻi, LLC.

Figure 5. Excavation in progress at Trench 21, illustrating typical logistical challenges of working at Mayor Wright Homes project area, homes to hundreds of people

Figure 6. Another example (Trench 7) of the logistical challenges of working in this project area

Figure 7. Location of test excavations (backhoe trenches) in project area; note, locations were recorded with mapping-grade GPS that consistently achieved geospatial accuracy to within 0.1-0.2 m

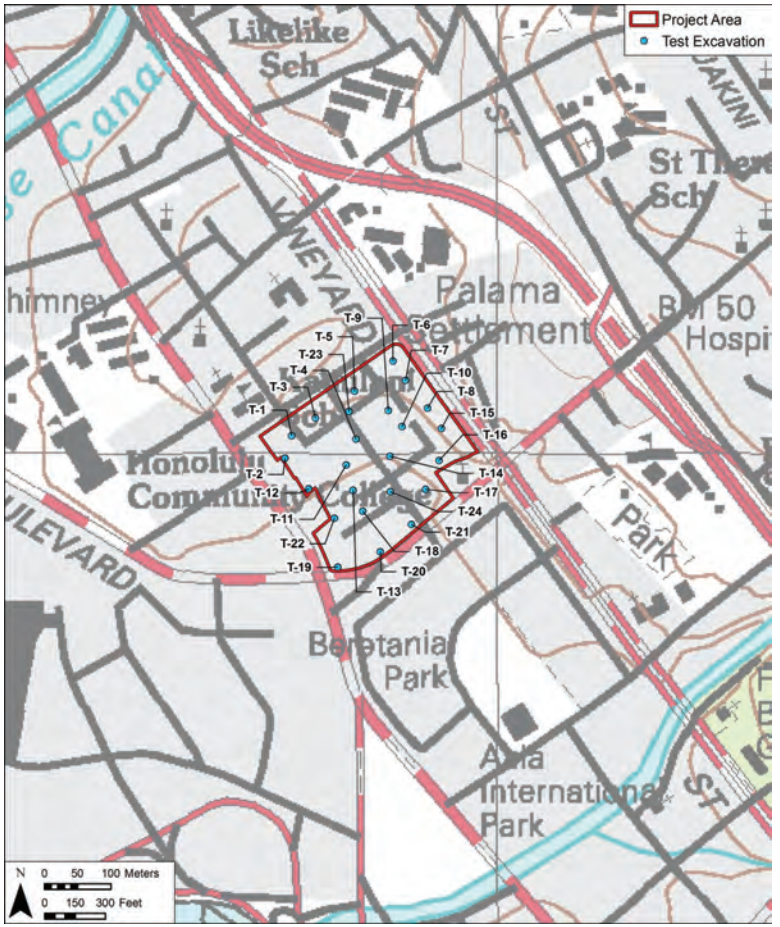

Figure 8. Location of test excavations (backhoe trenches) in project area; note, locations were recorded with mapping-grade GPS that consistently achieved geospatial accuracy to within 0.1-0.2 m

CULTURAL AND HISTORICAL CONTEXT

This section includes a synthesis of relevant cultural and historical information related to the types of land uses in the project area from pre-Contact, traditional Hawaiian times into the historic period, right up to construction of the Mayor Wright Homes around 1952.

Hawaiian Cultural Landscape

Ahupuaʻa boundaries can be extremely variable; and, depending on which source one cites, or what time period is referenced, the answer to which ahupuaʻa the Mayor Wright Homes is in varies. Honolulu Ahupuaʻa is an atypical example that has more to do with the political history of the nineteenth century—starting with the development of Honolulu harbor as a shipping port for Euro-American merchants in the first few decades of the 1800s—than with traditional Hawaiian settlement or subsistence patterns (Beechert 1991; Daws 2006). For example, the Hawaiʻi state GIS layer considers Nuʻuanu Valley and Stream (including the project area) as part of the large ahupuaʻa of Honolulu. Under this configuration, there is no Nuʻuanu Ahupuaʻa, which almost certainly does not reflect how pre-Contact Hawaiians viewed this landscape. On the other hand, recent USGS topographic maps show Nuʻuanu Ahupuaʻa coming down from the mountains but stopping at School Street. The well-known Bishop Museum compendium of archaeological sites and wahi pana (legendary places) *Sites of Oahu* (Sterling and Summers 1978) shows a similar configuration to the USGS version. Finally, Snakenberg's (1990) well-known "pre-Mahele" configuration of ahupuaʻa does not include Nuʻuanu (which is subsumed under Honolulu).

As described below, referring to the many middle nineteenth-century Land Commission Awards in the Mayor Wright Homes project area, Hawaiians consistently referred to their land as being in the ʻāina of Honolulu (also known traditionally as Kou). We believe the original inhabitants of Oʻahu—prior to the invasions by Kahekili (Maui) starting in the late eighteenth century, and later by Kamehameha (Hawaiʻi)—would have referred to the project area environs as Nuʻuanu Ahupuaʻa, given its location in the flood plain of this stream.

Figure 9 is a portion of an 1817 map of Honolulu Harbor and environs by Otto von Kotzebue (Fitzpatrick 1986:48-9) with the georeferenced project area. Beyond its general depiction of the early historic-period cultural landscape of Honolulu (e.g., showing a shoreline fishpond near the mouth of the Nuʻuanu Stream), this map is directly relevant to our study for several reasons. First, it shows the project area was in a dense cluster of loʻi kalo (irrigated taro)—these are the numerous rectangles arrayed in a grid pattern. Second, it shows several house sites (smaller, triangular symbols) scattered around the west side and east side of the loʻi kalo; and on top of what appears to be an elevated puʻu of some kind in the southern portion of the current project area. Third, and very specific to our excavation results, *the trenches we dug in this apparently elevated (southwestern) portion of the landscape contain shallow lithified coral-reef bedrock. We believe the elevated puʻu landform in Kotzebue's map is a bit of raised coral shelf that was eventually leveled or graded down.* It is likely this landscape feature is a late Pleistocene formation representing the well-documented Waimānalo Sea Stand dating to approximately 120,000 years before present, an interglacial period when sea levels in Hawaiʻi were some 7.5 m (24.8 ft.) above current levels (Macdonald et al. 1983; Ziegler 2002).

Figure 10 is a small portion of an 1825 map of Oahuʻs south shore by Charles Malden (Fitzpatrick 1986:62-3). This map does not include any details of the landscape in the project area environs, so we have not bothered to specifically call out the exact boundaries of the project area. It does show the addition of a wall—presumably a seawall—just makai of the project area, indicating perhaps the earliest map evidence of the start of landfilling activities in what would become Iwilei. Discussions by Daws (2006) and Fitzpatrick (1986) suggest this structural feature may have been part of an early effort to prevent the Honolulu harbor from silting up and becoming too shallow for shipping due to the muddy delta at the mouth of Nuʻuanu Stream.

Figure 9. Portion of 1817 map of Honolulu Harbor and environs by Otto von Kotzebue (Fitzpatrick 1986:48-9) with approximate location of project area in red outline in the heart of the Nuʻuanu flood plain

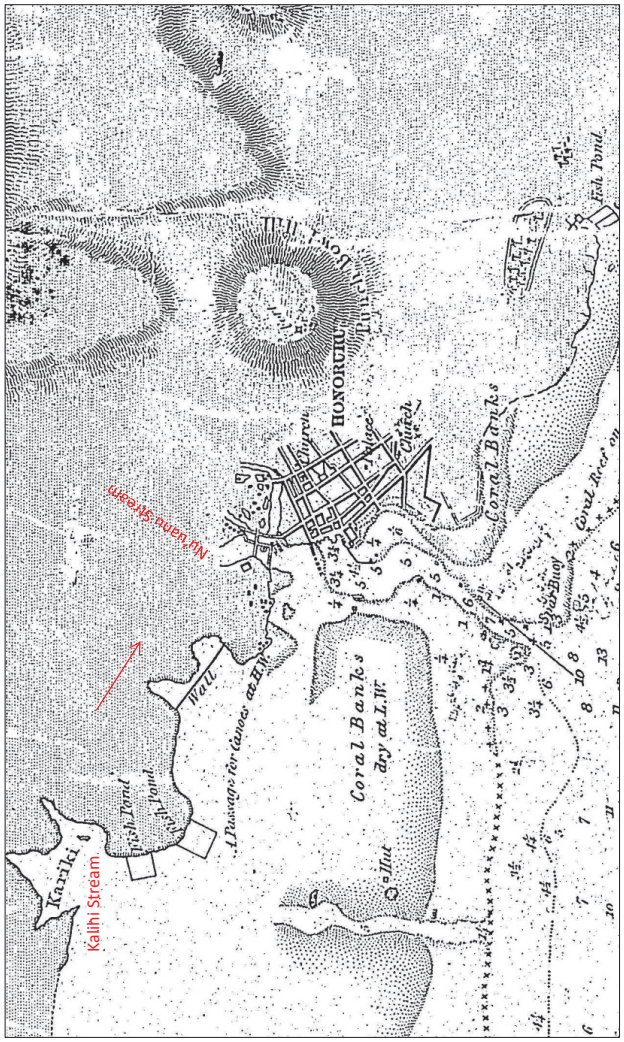

Figure 10. Portion of 1825 map of Oahu's south shore by Charles Malden (Fitzpatrick 1986:62-3) with approximate location of project area indicated by arrow

Mid Nineteenth-Century Developments in and near the Project Area

Figure 11, a portion of 1855 map showing Honolulu harbor and environs by J.M.H. de La Passe (Fitzpatrick 1986:82-3), shows the georeferenced project area in a dense cluster of lo'i kalo (taro ponds) with scattered house sites here and there. Several fishponds—including Kuwila and Kawa—are located along the shoreline. By this time (1855), Honolulu had changed greatly from its traditional (pre-Contact) condition and character, when it was not yet a major chiefly settlement (Waikīkī enjoyed that status before the turn of the nineteenth century), and even from its early days as a growing harbor town, when Kamehameha the Great was still alive.

By mid-century, the main town of Honolulu was still on the other side of Nu'uanu town (in what would become known as Chinatown). La Passe's map does show an old alignment of King Street passing just south of the project area. This map does not show Liliha Street, which borders the project area on its southeast side, but Daws (2006:268–9), citing several contemporary accounts from newspapers in the 1850s and 1860s, has this to say about the original Liliha Street:

> For years after its formal designation, Liliha Street, to the west of Nu'uanu stream, was interrupted in several places by the raised banks and swampy depressions of kalo patches. This was only one picturesque street nuisance among many in the environs of Honolulu.

Table 1 is a summary of Land Commission Awards in and immediately adjacent to the project area. These data reveal many relevant observations. First, in such a relatively small area—basically the size of a modern city block—there are at least five named 'ili: Kapahaha, Kahawali (sometimes Kahawale), Koiuiu (at least once called "Koiuiu, Leleo"), Hauhaukoi, and Keoneula. Immediately adjacent 'ili include Aala, Kapalama and Kaoaowai. Second, among the names of Hawaiians who were awarded parcels in the project area, there is one Julia (or Juliana) Alapa'i Kauwa (or Kauwa'a), an ali'i nui (high chiefess), sometimes referred to as Princess, who was married to the famous John Young. She died in 1849, and was awarded many other lands, including others on O'ahu (including 'Ewa) as well as Maui and Moloka'i. She is described as the konohiki (overseer or land manager) by some claimants. The table also shows that, when available, land use always includes lo'i kalo, with several house sites, and occasional mention of 'auwai. One person (Kahina) claims a "lo'i iloko," which is a term for a pond-field kalo patch also used as a small fishpond.

Figure 12 is a graphic depiction of kuleana parcels (Land Commission Awards), Land Grants—where people purchased the land from the government (and for which there is generally less publicly available information on land use), and Land Court Applications, which generally represent some kind of quiet title actions taken after the Mahele to obtain kuleana parcels. The three Land Grants, 2063, 2065 and 2346, to Panio, Napehe and Kaona, respectively, were purchased in 1856–7.

Figure 13 and Figure 14 are representative survey maps of two kuleana parcels in the project area (LCAw 1405 to Pihiliilii and 8613 to Keonekapu) from 1854–5. While both of these maps are fairly rudimentary survey depictions—typical of the Mahele documentation, they each show 'auwai entering the properties from the upslope (mauka) side.

Newspaper accounts from shortly after this period indicate a lot of interest in buying and selling these parcels. For example, in an 1873 edition of *The Pacific Commercial Advertiser*, there is an advertisement to sell "4 Kalo Patches" at "Kapahaha, Liliha St." From the same newspaper, in 1881, one Mrs. Kaaea Akepo wishes to sell "…that valuable piece of land, with buildings thereon, situated at Kapahaha, Kapalama-Kai, known as 'THE OLD KING STREET LAUNDRY HOUSE.'"

Figure 15, a portion of an 1878 map showing an early depiction of Liliha Street (southeast side of project area) and King Street, also shows the OR&L railroad line south of the project area just mauka (inland) of the prison, and a couple house sites in the project area.

Figure 11. Portion of 1855 map showing Honolulu Harbor and environs by J.M.H. de La Passe (Fitzpatrick 1986:82-3) with approximate location of project area in dense cluster of lo'i kalo (taro ponds)

Table 1. Summary of Land Commission Awards in and near the Mayor Wright Homes Project Area

LCAw ('āpana)	Acres	Land Use	RP	Name	'Ili	Location Relative to Project Area (PA)	Comments
2072:2	0.30 ac.	2 lo'i kalo & 1 garden house	5572	Kapaalua	Kapahaha	Adjacent to PA (outside PA) between it & King St.	RP 5572 dates to 1864 and includes 3 'āpana in all under LCAw 2072 (2.15 acres in total)
2072:3	0.25 ac.	1 lo'i				*Partially in PA along King St. side (mostly out of PA to King St. side)*	
8525-B:1	1.74 ac.	?	8185	J.A. (Julia Alapa'i) Kauwa (w)	Kapahaha	*Partially in PA at W corner (partially out of PA)*	This appears to be Ali'i (High Chiefess) Julia (or Juliana) Alapa'i Kauwa, or Kauwa'a (born c. 1814, died 1849), described as the Konohiki by some; RP 8185 dates to 1906, and instead of using the term 'āpana, says "part"; she received (and relinquished) many land awards; she received awards in Kona (O'ahu) and 'Ewa, as well as Maui and Moloka'i.
1285:4	1.24 ac.	2 lo'i	1982	Kaluau or Kaluau , W. (w)	Kahawali	*Partially in PA at W corner (partially out of PA)*	Indices of Awards (1929) indicate she received 4 'āpana under LCAw 1285 w. 'ili listed as Kaoawai (Kaoaowai), Kapahaha & Kahawali (Kahawali o Kaeo); Waihona 'Aina listed the 'ili as "Kapahaha & Kahawali"; claims (NR) she received a house lot from Kapaalua at the time of Kinau; calls J.P. Alapa'i the Konohiki
1405:1 (por.)	1.90 ac. (total)	8 lo'i & 1 house site (total)	5553 (por.)	Pihiliili	Kahawali	**Completely in PA**	This LCAw also associated with RP 2397 ('ili also spelled Kahawale in some documents); 'āpana 1 seems to have been partially taken (or sold?) during LCAp 1192
1405:1 (por.)						**Completely in PA**	
1405:4						**Completely in PA**	
933:1	1.05 ac. (total)	3 lo'i & 1 house site	1226	Kamae	Koiuiu	Adjacent to PA (out of PA) south of Desha Lane	Incorrectly spelled Kiouiu in Indices of Awards (1929); he was awarded 4 'āpana in all under this LCAw
933:2						**Completely in PA**	
933:3						*Partially in PA at NE corner (partially out of PA)*	
1078*	0.62 ac.	3 lo'i kalo & 1 "small hut"	4393	Naili or Naihe*	Kahawali	**Completely in PA**	* Naili (or Naihe) for Kanui (cf. Indices of Awards 1929); this 'āpana identified as "loi" on Pihiliili's survey map; Indices of Awards (1929) state: "Awarded by Privy Council by Resolution dated June 23, 1856"; received in Boki's time (i.e., probably 1820s); referred to as an 'ili 'āina
605:2	1.29	3 lo'i	4423	Kalunaaina for Lupe	Keoneula	**Completely in PA (along Pua Lane side)**	Kalunaaina received these lands from Kamehameha III in the time of Ka'ahumanu; he died in 1846 and gave lands to his only child (daughter named Lupe); this award had 6 'āpana; description of 'āpana 2 includes 'auwai
605:3	0.66	2 lo'i				**Completely in PA (along Pua Lane side)**	
6236	6 contiguous 'āpana; total 3.56 ac.	Multiple lo'i	See Comments	Kaaiawaawa	Koiuiu	**Completely in PA (in S corner)**	Unclear if all 6 'āpana are in the project area; there are 6 different Royal Patents: 7339, 8160, 8296, 8338, 8339 & 8342
36 F.L.	0.85 ac.	Lo'i	2248	Nakilaku (or Nakileku)	Aala	Adjacent to PA (outside of PA) near corner of Liliha & Vineyard	--
3 F.L.	0.57 ac.	4 lo'i	2684	Kapo	Hauhaukoi	Adjacent to PA (outside of PA) along Vineyard	In addition to 4 lo'i, "loi maloo" (dried up or not-in-use) lo'i are also mentioned in NT; received in 1839 from (or at the time of) Kinau
2 F.L.	0.67 ac.	5 lo'i & 1 house site	2102	Kamoku	Hauhaukoi	*Partially in PA along Vineyard (partially out of PA)*	Received land from (or at time of) Kinau circa 1839; house site called a "kahuhale"
8520:1	?	?	8197 (por.)	Kaeo, Iosua	Kahawali, Kapalama	**Completely in PA**	Claimant received several 'āpana in different places—even different islands—under same LCAw 8520; e.g., 'āpana 4 is on Lāna'i; 'āpana 2 & 3 are on Maui; 'āpana 5 is Hilo, and so on
8520:1	?	?	8197 (por.)			*Partially in PA along Vineyard (partially out of PA)*	
8520:1	?	?	8293			Adjacent to PA (outside of PA) at N corner	
2107:1	0.37 ac.	2 lo'i iloko (taro/fishpond)	4528	Kahina	Kahawali	**Completely in PA**	Claimant received 3 other, nearby 'āpana under a different Royal Patent (7254)
2107:2	0.42 ac.	Lo'i				*Partially in PA along Vineyard (partially out of PA)*	
640	0.63 ac.	4 lo'i & 1 house	8239	Kamahalo	Hauhaukoi	Adjacent to PA (outside of PA) along Pua Lane	Called "Land Patent" rather than Royal Patent; received in time of Kinau
8613:2	1.40 ac.	6 lo'i	7446	Keonekapu, J.	Hauhaukoi	**Completely in PA**	'Auwai entering from mauka land
25 F.L.	0.37 ac.	3 lo'i	4518	Kukui (w)	Hauhaukoi	**Completely in PA**	Just NE of Kukui St. extension; Kukui was a woman (wahine); received in 1843
4747:2	0.98 ac.	7 lo'i	5610	Kama (w)	Leleo, Koiuiu	**Completely in PA**	'Āpana 1 located in Kapalama; Kama was a woman (wahine); received land from (or at time of) Kinau circa 1839
1362	0.46 ac.	2 lo'i	2681 (por.)	Naholowaa**	Keoneula	**Completely in PA**	** Naholowaa for Hoa (wahine), according to Indices of Awards 1929); FT says this Naholowaa had no claim to the land, he was only a "working man" under Hoa. "She told me to send in a claim for it as she was afraid she should not get her claim in before the Commission."

Abbreviations: LCAw = Land Commission Award; LCAp = Land Court Application; por. = portion; PA = Project area; RP = Royal Patent; NR = Native Register; NT = Native Testimony; FT = Foreign Testimony; w = wahine (woman).
Bold text = LCAw entirely within Project area; *italics = LCAw partially in/partially out of Project area;* plain text = immediately adjacent/abutting Project area

Figure 12. Land Commission Awards (yellow highlights), Land Court Applications (green highlights) and Land Grants (blue highlights) on a (client-provided) 1939 base map; see text for discussion

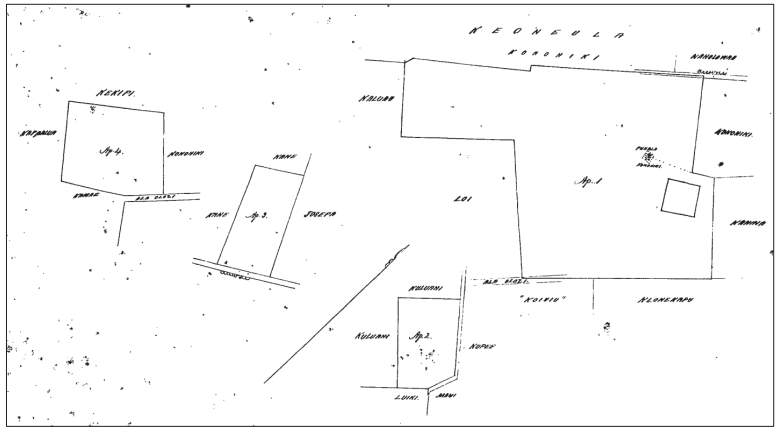

Figure 13. Survey map (circa 1854) from LCAw 1405 (to Pihiliilii) showing ‘auwai entering upper right corner of ‘āpana 1 (source: Papakilo database)

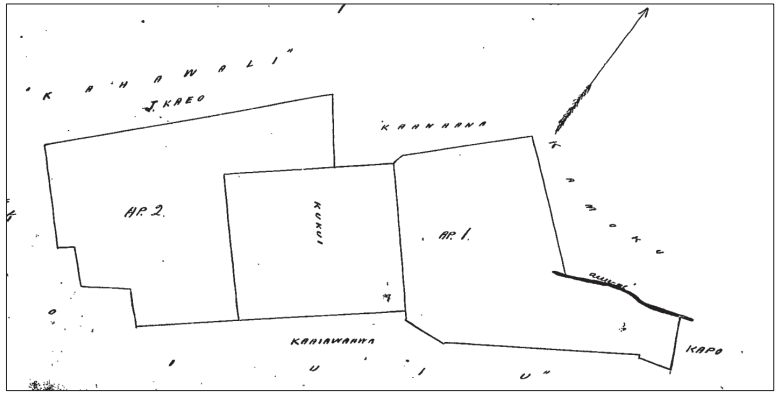

Figure 14. Survey map (circa 1853) from LCAw 8613 (to Keonekapu) showing ‘auwai entering from right of ‘āpana 1 (source: Papakilo database)

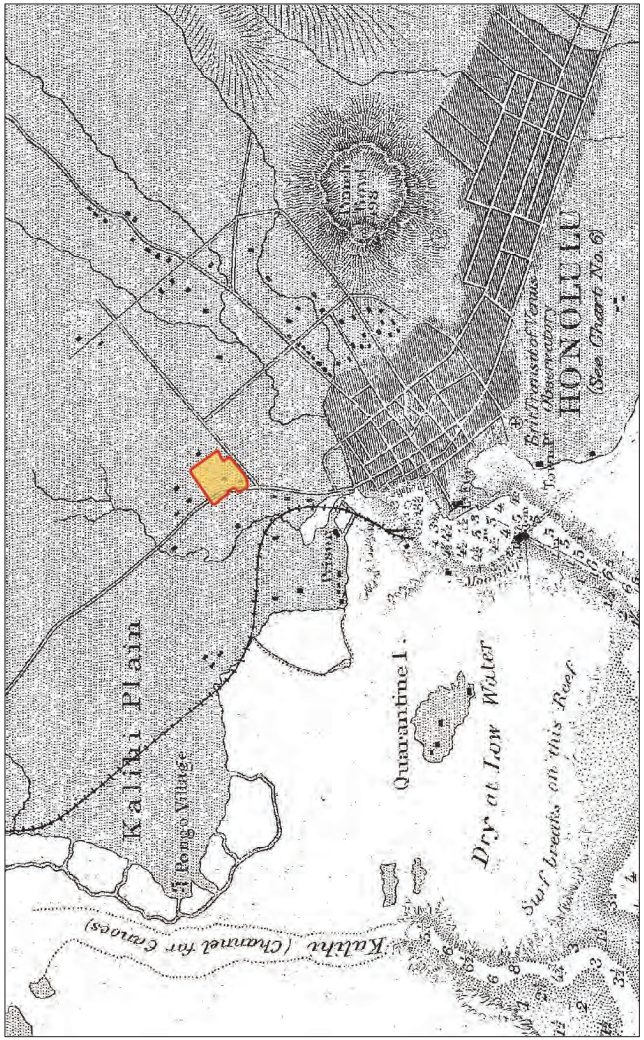

Figure 15. Portion of 1878 map (Registered Map 1505) showing Liliha Street (southeast side of project area) and an early alignment of King Street; note OR&L railroad line (source: DAGS Land Survey website)

Figure 16 is a portion of a draft map created between 1876–1881 by Lyons and Covington (working separately, not together) showing the project area and environs. As discussed by Moffat and Fitzpatrick (2004:40), there are some geospatial inaccuracies on this map, which makes georeferencing of the project area impossible. We have included this map because it shows some important cultural information and place names (e.g., an early depiction of Iwilei), as well as the Insane Asylum mauka of the project area.

Figure 17 is a portion of an 1887 map by Wall showing Liliha and King streets. Note, the labelling of the large structure within the project area ("R. Keliikolani") is incorrect, and should read Queen Lili'uokalani. An important wahi pana, Kunawai Spring, is depicted mauka of project area, just west of Liliha Street.

Figure 18 is a portion of an 1893 map by Wall showing many more cultural details than the previous (1887) version. The Queen's residential compound has been correctly labelled (Lili'uokalani) in this version; note, also, the extensive cross-hatching mauka of the project area and around Nu'uanu Stream that appears to depict lo'i kalo and/or other type/s of cultivated fields.

Figure 19, a portion of an 1897 map by Monsarrat, shows many Hawaiian place names, a new (not seen on other historic maps) pond mauka of School Street ("Waikahalulu"), and the advent of rice cultivation west and northwest of the project area.

Early Twentieth-Century Developments in and near the Project Area

Figure 20, a portion of 1901 map by Monsarrat, shows early neighborhoods and blocks with Hawaiian place names and formalization of many streets. Note that Queen Lili'uokalani's place is no longer depicted in the project area on this map.

A series of 1906 fire insurance maps prepared by Dakin, stitched together into Figure 21, shows the first detailed view of what specific types of structures were built in the project area. By this time, it contained many residential ("tenements"), commercial and light industrial structures, including a large soy factory (Hawaiian Soy Co., Ltd.) along Pua Lane, a small church (Palama Christian Church), laundries, a Japanese hotel, and small "factories" (to make candy and mattresses) along Liliha, as well as horse stables.

A sampling of 1906 real estate transactions listed in *The Pacific Commercial Advertiser*, however, continues to highlight the importance of agriculture in the project area: "10 taro patches" at Kapahaha sold for $2,250, and another (same description) for $3,250. A 1907 listing in the *Hawaii Star* listed sale of a piece of land within the project area (LCA 1405:4, RP 5553 originally to Pihiliilii) for $400 from Caroline K. Silva and husband to Emmeluth Trust.

Figure 22, a portion of 1909 survey map from Land Court Application 170, shows several surrounding kuleana parcels (Land Commission Awards), and still depicts an 'auwai system entering from the mauka (upslope) side.

Figure 23, a portion of 1912 map by Monsarrat, shows neighborhoods and blocks with Hawaiian place names and the formalization of streets and lanes within the project area, including the Kukui Street extension (which was never built, but turned into the central driveway of the Mayor Wright Homes.

Figure 24, a series of 1914 Sandborn fire insurance maps (stitched together), shows a reduction in the overall extent of cultivated garden areas. The previous (1906) location of the Palama Christian Church is now labelled "Auto Painting," and a new structure labelled "Moving Pictures" is located just west of this building.

Figure 25, a portion of 1920 map by Monsarrat, shows neighborhoods and blocks with Hawaiian place names, and new ones just southeast of project area; note also an early (perhaps the first) depiction of the location of Palama Settlement south of King Street.

Figure 16. Portion of draft 1876-1881 map (Lyons/Covington) showing project area environs; there are some geospatial inaccuracies on this map, which makes georeferencing of project area impossible (see arrow for approximate location); this map shows some important cultural information and place names, which is why it is reproduced here (see Moffat and Fitzpatrick 2004:40) (source: U.S. Library of Congress website)

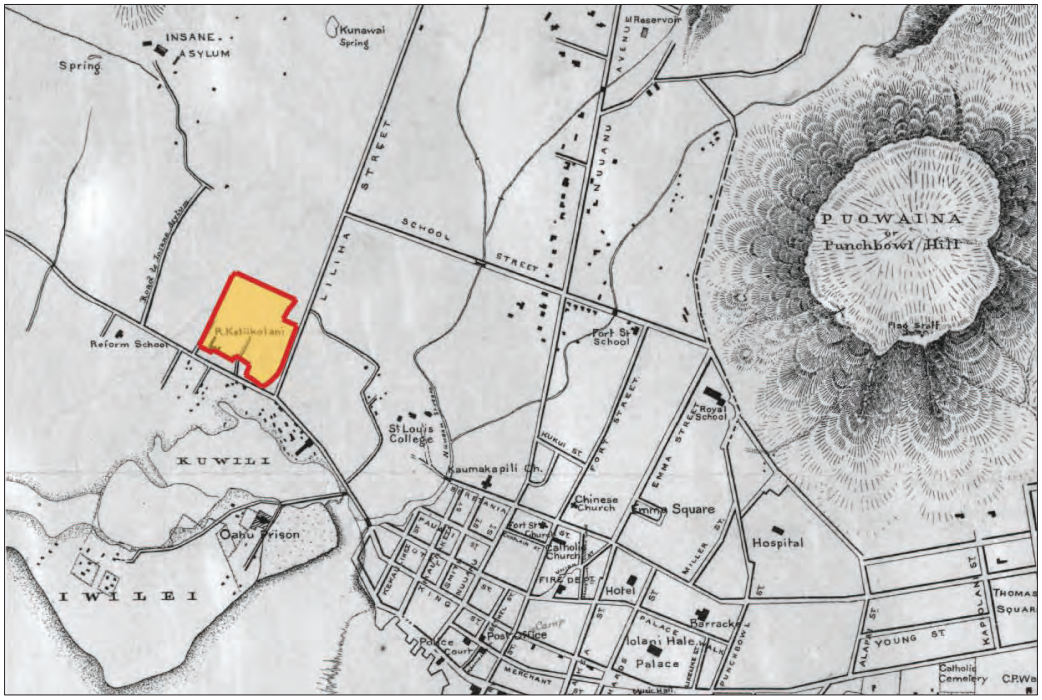

Figure 17. Portion of 1887 (Wall) map showing Liliha St. and King St.; labelling of structure within project area ("R. Keliikolani") is incorrect, and should read Queen Lili'uokalani; note location of Kunawai Spring mauka of project area (source: U.S. Library of Congress website)

Figure 18. Portion of 1893 (Wall) map (Registered Map 1690) showing many more cultural details than the 1887 version (previous image); note that the Queen's house (Lili'uokalani) has been correctly labelled in this version; note, too, the cross-hatching mauka of the project area and around Nu'uanu Stream that depicts lo'i kalo and/or other type/s of cultivated fields (source: DAGS Land Survey website)

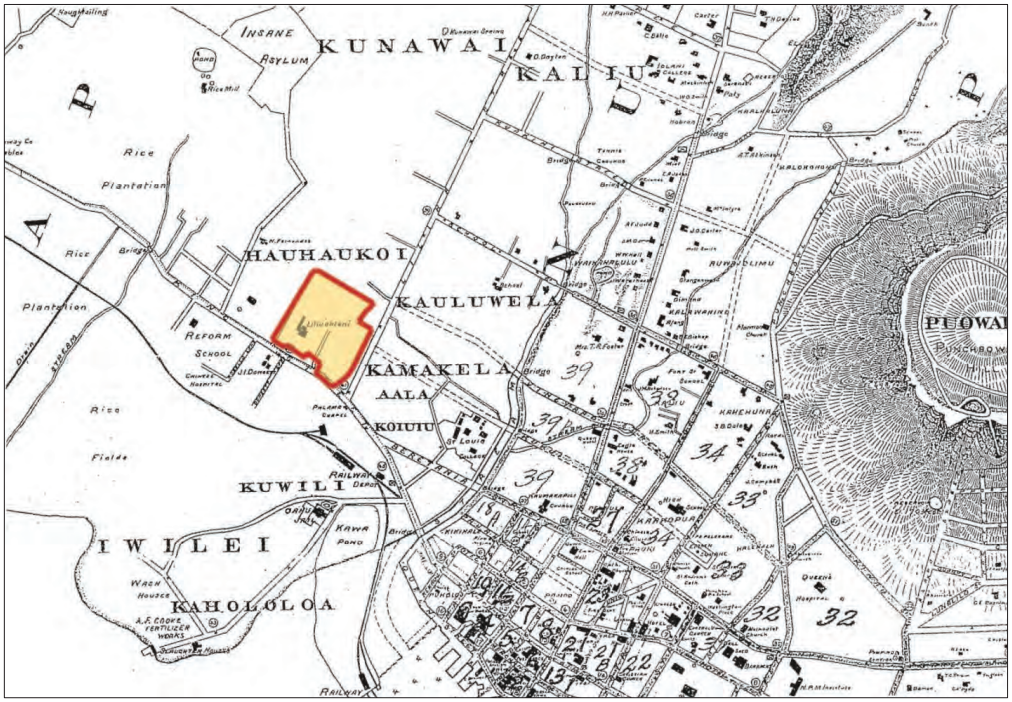

Figure 19. Portion of 1897 (Monsarrat) map (Registered Map 1910) showing many Hawaiian place names, a new (not seen on other historic maps) pond mauka of School St. ("Waikahalulu"), and the advent of rice cultivation west and northwest of the project area (source: UH-Mānoa MAGIS digital collections)

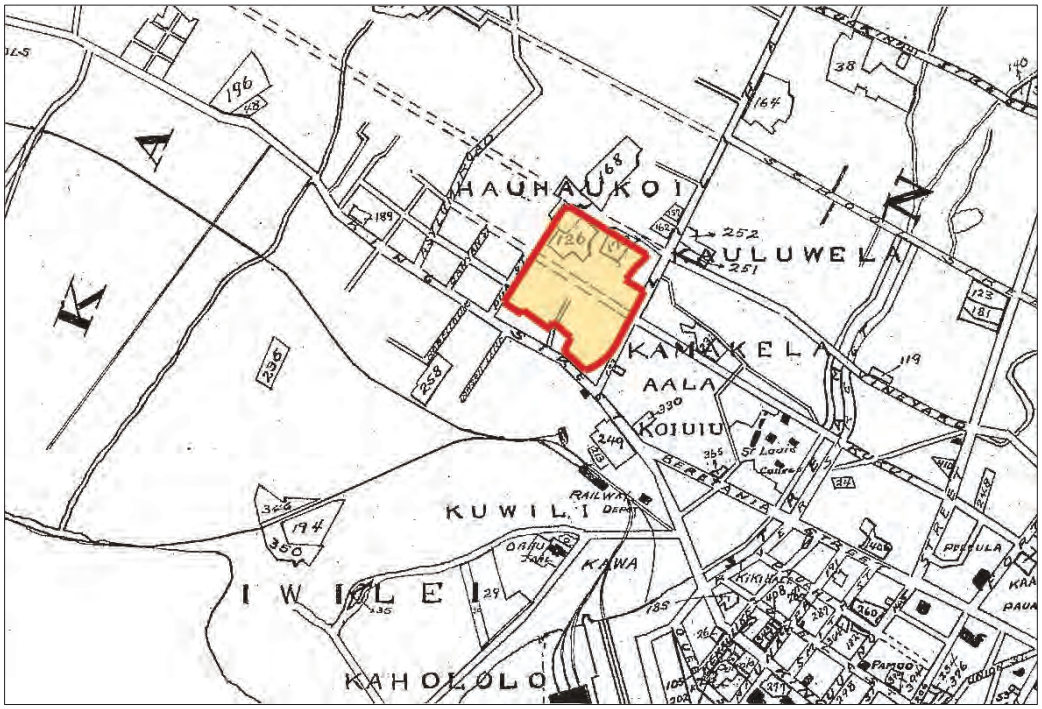

Figure 20. Portion of 1901 (Monsarrat) map showing neighborhoods and blocks with Hawaiian place names and formalization of many streets; note, Queen Lili'uokalani's place is no longer depicted on this map (source: UH-Mānoa MAGIS digital collections)

Figure 21. Series of 1906 Dakin fire insurance maps (stitched together); Liliha Street at bottom of image, Pua Lane at top; note large area dedicated to taro and "market gardens"; see text for other details (source: UH-Mānoa MAGIS digital collections)

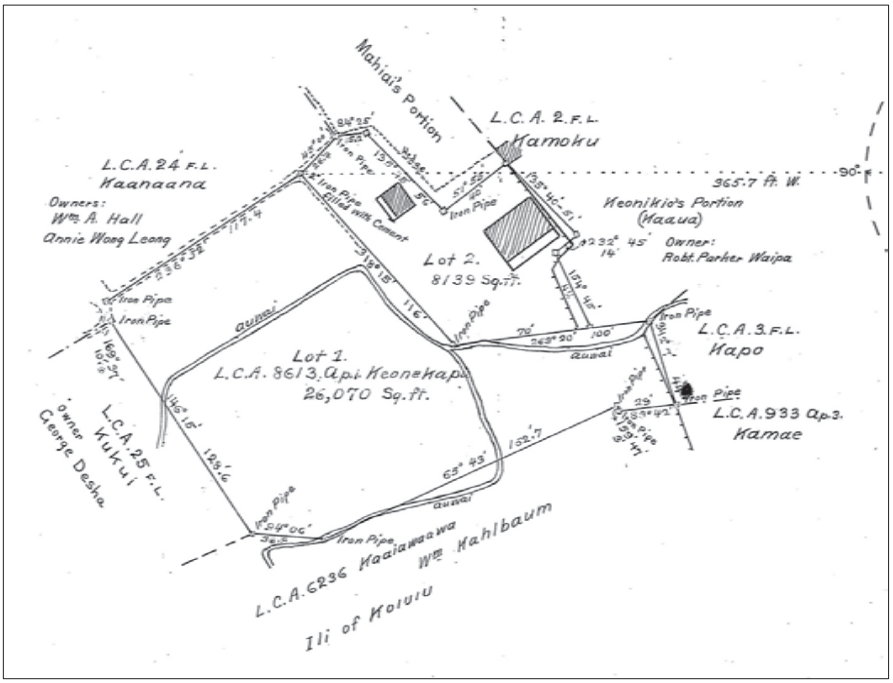

Figure 22. Portion of 1909 survey map from Land Court Application 170 showing several surrounding LCAw (kuleana parcels); note 'auwai system entering from mauka side; intersection of Liliha and Vineyard is just outside of the image to the lower right (source: DAGS Land Survey website)

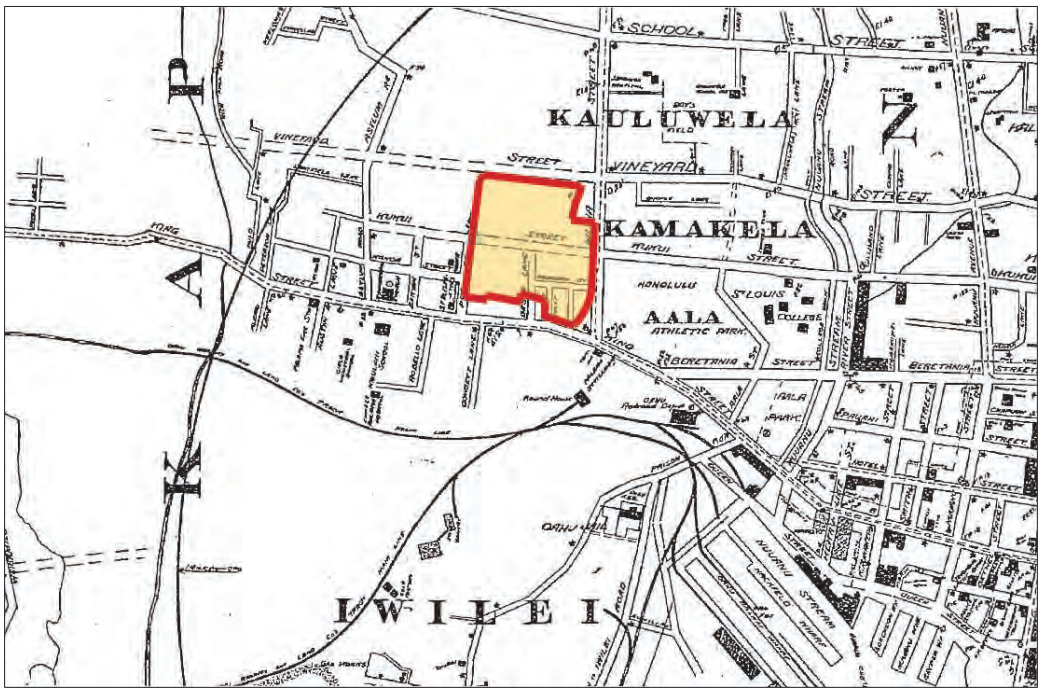

Figure 23. Portion of 1912 (Monsarrat) map showing neighborhoods and blocks with Hawaiian place names and formalization of streets within the project area (source: UH-Mānoa MAGIS digital collections)

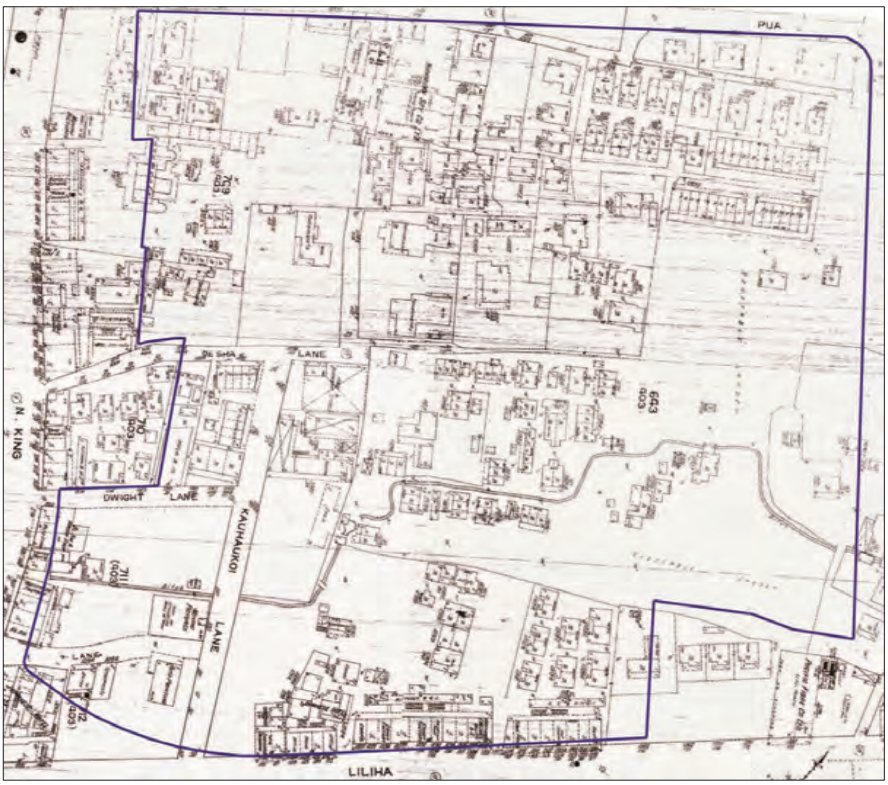

Figure 24. Series of 1914 Sandborn fire insurance maps (stitched together); Liliha Street at bottom of image, Pua Lane at top; note reduction in cultivated gardens area; see text for other details (source: UH-Mānoa MAGIS digital collections)

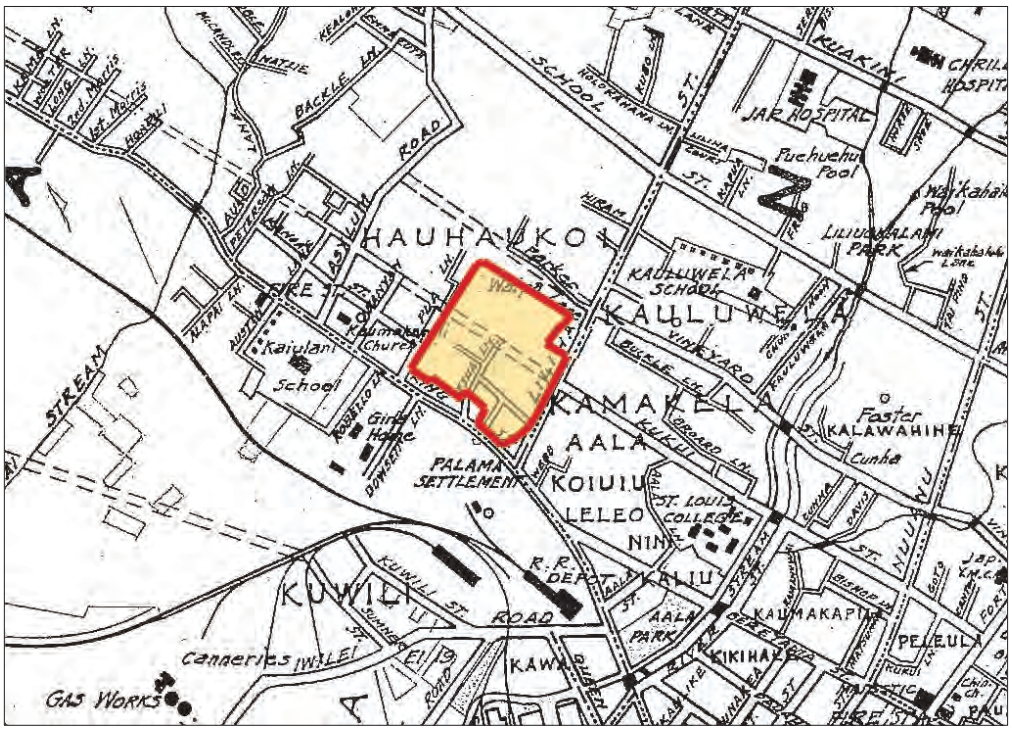

Figure 25. Portion of 1920 (Monsarrat) map showing neighborhoods and blocks with Hawaiian place names, and new ones just southeast of project area; note location of Palama Settlement south of King St. (source: UH-Mānoa MAGIS digital collections)

Figure 26 is a portion of a 1920 Land Court Application 463 map showing several surrounding kuleana parcels (Land Commission Awards), and illustrating the continuing presence of an ‘auwai system and rectangular garden plots in portions of the current project area. By this time, it is likely that these gardens, were at least in part, were growing commercial crops and not just subsistence foods.

Figure 27, a series of 1927 Sandborn fire insurance maps (stitched together), shows a substantial reduction in the amount of area devoted to cultivated gardens. By this time, apartment structures (tenements) had taken over nearly all of the project area with just a couple commercial operations remaining along Liliha and Pua Lane. A dance hall replaced the previous location of the auto painting structure, and a Filipino Missions and Social Club appeared in the corner parcel—just outside the project area, at the intersection of Liliha and Vineyard.

Figure 28, a comparison of 1927, 1933 and 1943 USGS topographic maps of the project area shows no changes in the project area during this time, which is not accurate. It also fails to depict most of the structures known to be in the project area based on the fire insurance maps. This is a cautionary lesson for interpreting such maps as indicting the lack of structure in maps of Honolulu at this (early to middle twentieth century) time.

Figure 29 is a 1939 map of site conditions. Along with Figure 30, a portion (detail) of a 1940 aerial photograph including the project area block about a decade prior to construction of Mayor Wright Homes, illustrates the continuing trend towards apartment buildings and residential structures.

Figure 31, a series of 1947 Sandborn fire insurance maps (stitched together), shows extensive razing (demoliton) of structures compared with 1927 maps, presumably in antipication of the Mayor Wright Homes development.

Figure 32 is a portion (detail) of a 1952 aerial photograph including the project area block during (in-progress) construction of Mayor Wright Homes.

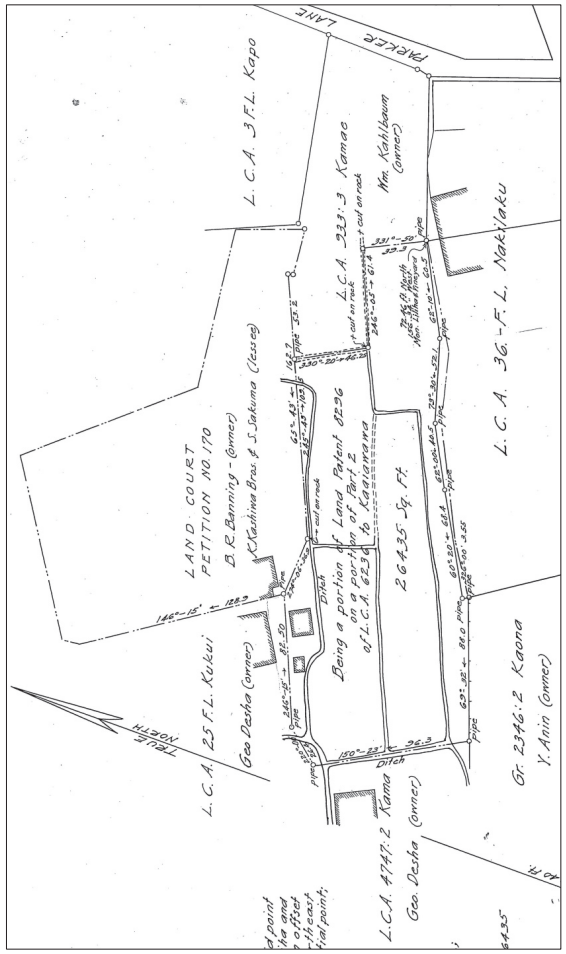

Figure 26. Portion of 1920 Land Court Application 463 showing several surrounding LCAw (kuleana parcels); note ‘auwai system and rectangular garden plots; intersection of Liliha and Vineyard is just outside of the image to the lower right (source: DAGS Land Survey website)

Figure 27. Series of 1927 Sandborn fire insurance maps (stitched together): Liliha Street at bottom of image, Pua Lane at top; note reduction in cultivated gardens area; see text for other details (source: UH-Mānoa MAGIS digital collections)

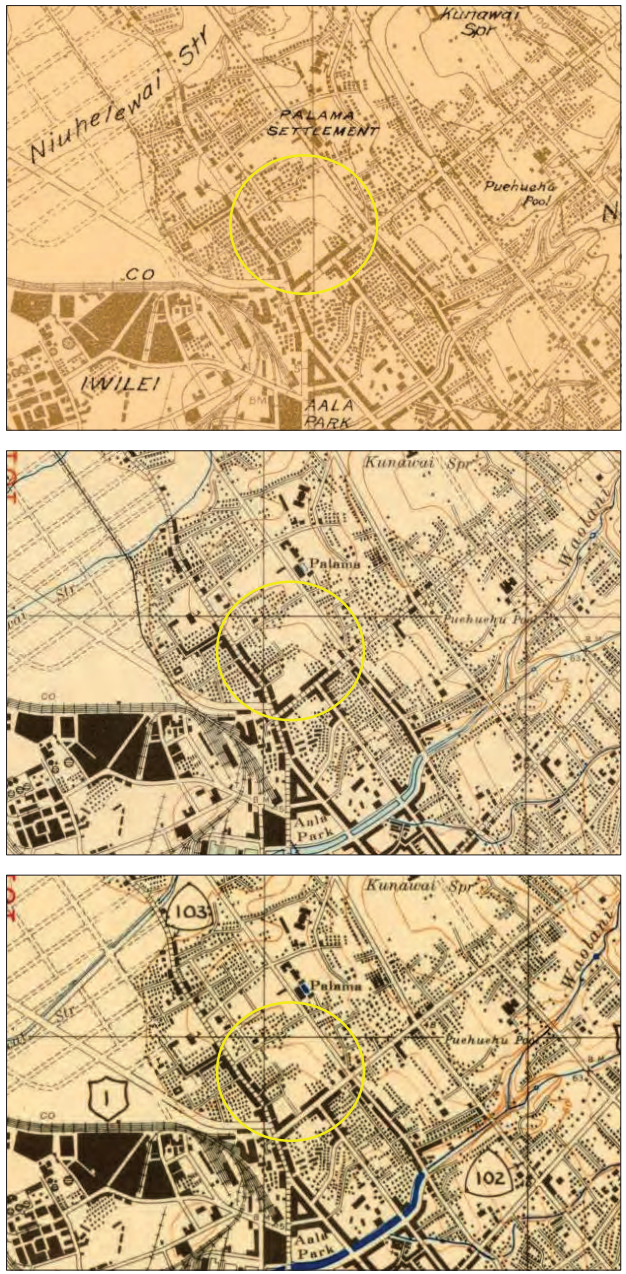

Figure 28. Comparison of 1927 (top), 1933 (middle) and 1943 (bottom) USGS topographic quadrangles showing no changes in the project area during this time (which is not accurate); project area block circled in each image (source: UH-Mānoa MAGIS digital collections)

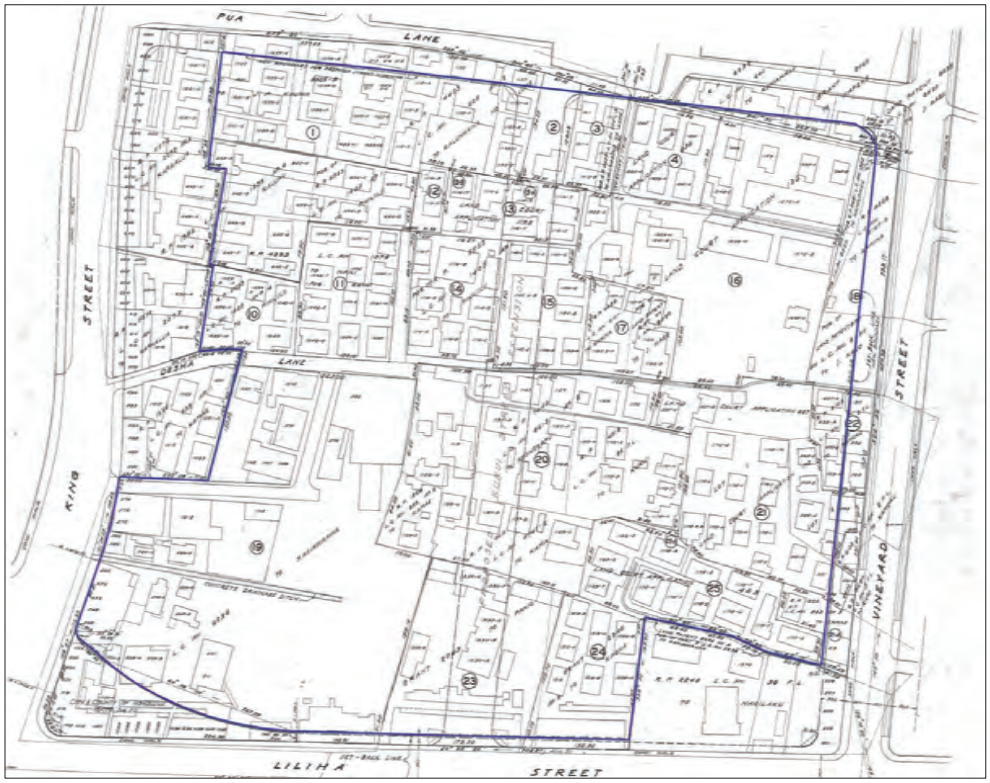

Figure 29. 1939 (client-provided) map of site conditions

Figure 30. Portion (detail) of 1940 aerial photograph including project area block about a decade prior to construction of Mayor Wright Homes (source: UH-Mānoa MAGIS digital collections)

Figure 31. Series of 1947 Sandborn fire insurance maps (stitched together); Liliha Street at bottom of image, Pua Lane at top; note extensive razing of structures compared with 1927 maps; see text for other details (source: UH-Mānoa MAGIS digital collections)

Figure 32. Portion (detail) of 1952 aerial photograph including project area block during (in-progress) construction of Mayor Wright Homes (source: UH-Mānoa MAGIS digital collections)

PREVIOUS ARCHAEOLOGICAL RESEARCH

In this section, we summarize relevant previous archaeological studies in order to reconstruct human use and modification of the land in the current project area. The primary objective of this section is to document the types and distribution of archaeological sites we expected to encounter in the project area, and, dependent upon our findings, to help interpret what we did find. In concert with the Historical Context presented above, the information in this section forms the basis of our predicted findings that are included in the next section.

Given the age of the existing Mayor Wright Homes, which was constructed in the early 1950s (before the adoption of applicable historic-preservation and environmental laws starting in the late 1960s), no previous archaeological studies have been conducted in the current project area. Similarly, the immediate surrounding area generally consists of commercial and residential buildings and infrastructure that was completed before the late 1960s. Therefore, with a few prominent exceptions, most of the nearby archaeological studies were conducted in support of roadway, utilities and other infrastructure improvements.

As discussed in detail below, a prominent, recent exception to this is an Archaeological Inventory Survey (AIS) by Cultural Surveys Hawai‘i (Belluomini et al. 2016) of the American Savings Bank property across from ‘A‘ala Park, approximately 400 meters (1,312 ft.) east-southeast of the current project area. A large number of studies were conducted in Chinatown, on the east side of Nu‘uanu Stream. Major archaeological studies were conducted in association with block developments in the 1990s at the River-Nimitz redevelopment, Kekaulike project, Marin Tower project and Liliha Civic Center.

Figure 33 is a graphic depiction of previous archaeological studies near the project area from a recent (2016) SHPD-approved AIS report (Belluomini et al. 2016:40). Figure 34 shows previously-identified archaeological sites—including burials—near the current project area from the same resource (ibid.:41). Appendix B contains a table of previous archaeological studies and results from near the project area from the same study (ibid.).

Two fishponds—Kuwili (Site 5368) and Kawa (Site 5966)—were once located immediately south of the current project area. These fishponds were depicted on an 1855 map (see Figure 11), but appeared to have been filled in by at least 1878 (see Figure 15).

The closest burial site to the current project area (Site 7933) was recently documented by Belluomini et al. (2016) at the American Savings Bank property. A cluster of at least seven individuals, along with some pig and dog bones possibly representing buried animals associated with the human burials, was identified within a Land Commission Award (731 to Palile). The age of this site was interpreted as pre-Contact to post-Contact. All other known burials from the area are located on the other (east) side of the Nu‘uanu Stream (a set of fragmentary human skeletal remains with no site number assigned at Foster Botanical Gardens; and numerous burials sites in Chinatown).

The closest previously-identified historic property to the current project area is a remnant of historic-period trolley (Site 5942) in the middle of King Street just south of its intersection with Liliha Street.

In addition to the burial cluster (Site 7933) found at the American Savings Bank project area, Belluomini et al. (2016) also documented the structural remains of LCA boundary walls (Site 7933) and the structural remains of a building foundation (Site 7935).

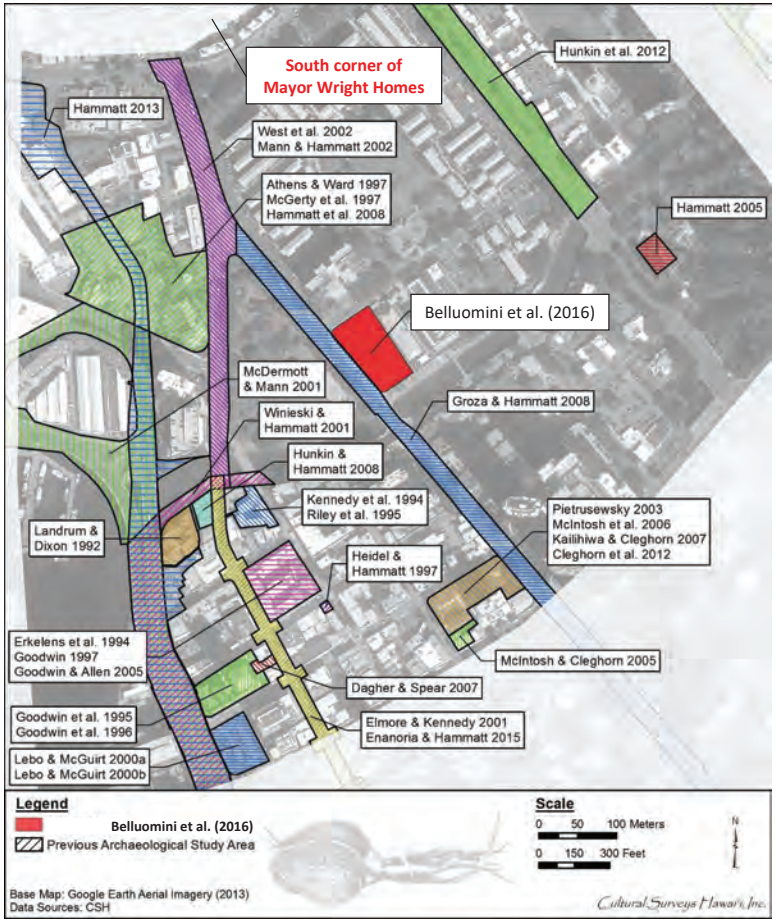

Figure 33. Cultural Surveys Hawai‘i (2016:40) depiction of previous archaeological studies near the current project area; portion of current project area in upper left of this image; image slightly modified/annotated by TCP Hawai‘i

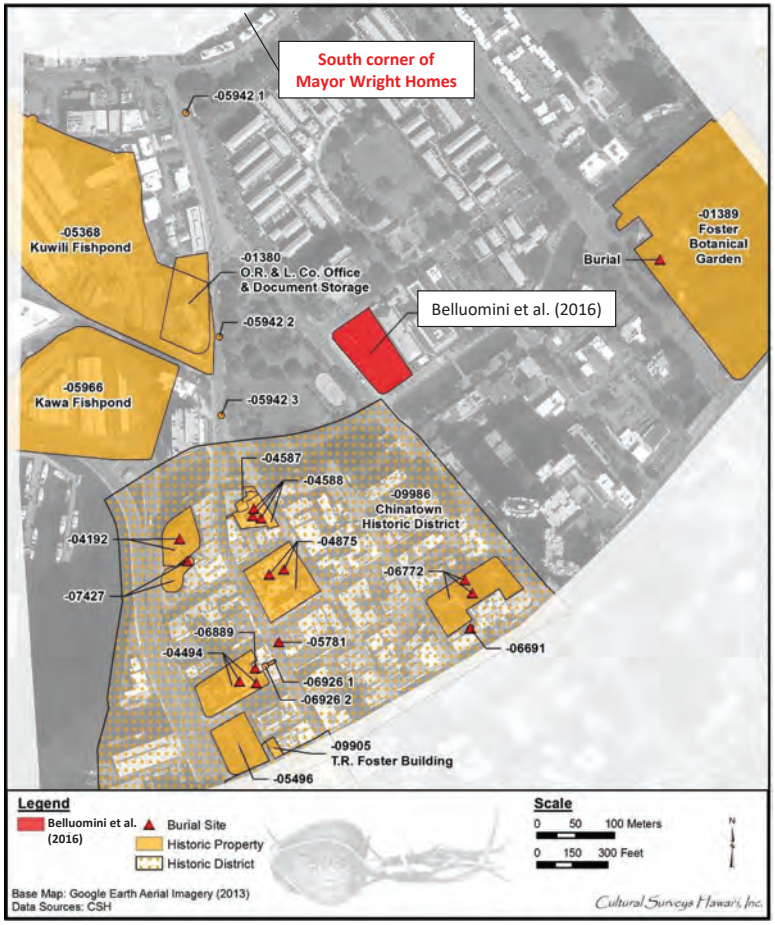

Figure 34. Cultural Surveys Hawai'i (2016:41) depiction of known archaeological sites near the current project area; portion of current project area in upper left of this image; image slightly modified/annotated by TCP Hawai'i

PREDICTED FINDINGS OF THE AIS

Based on all available archival evidence, including historical maps and other documents, cultural knowledge about the project area, previous archaeological studies, and the current conditions at Mayor Wright Homes, we developed the following predictions about what we expected to find during this AIS investigation.

First, there is extensive and varied evidence that in pre-Contact times the project area represented the center of a prime lo'i kalo (pond-field taro cultivation) area (see 1817 map, Figure 9, and 1855 map, Figure 11), which would have included a network of small gardens, numerous 'auwai (traditional irrigation ditches), and low berms or retaining walls of soil and/or rock. Based on the extensive evidence for kuleana parcels (Land Commission Awards) in the project area, several small house sites would have also been present. Historical information, especially a series of fire insurance (cf. Dakin, 1906, and Sandborn, 1914, in particular) maps, suggest large portions of the project area were still being used for taro and other gardens well into the early twentieth century. We believe the project area was unlikely to have been used for pre-Contact burials, given its very high agricultural value, but that historic-period burials associated with kuleana parcels were likely. *The outstanding issue to be addressed by our fieldwork efforts was to determine if any of these traditional features (agricultural fields and structures, 'auwai, house sites, and/or burials), whether whole or in part, remains in the project area.*

Second, a large residential complex belonging to Queen Lili'uokalani is depicted on maps dating from the late nineteenth century in the southwest corner of the project area. The earliest map depiction from 1887 by Wall (see Figure 17) actually labelled it incorrectly (attributing the structure to Princess Ruth Ke'elikōlani, who had a place on the other side of Pua Lane to the west of the project area). In any case, as discussed in detail by Kam (2013), the Queen's residential complex in the project area was modified numerous times until it was eventually turned into tenements by the turn of the twentieth century (the last map that included it was from 1897; by 1901 it was no longer labelled as such). *We positioned an excavation (Trench #2) at the last known positon of the Queen's complex in order to see if any subsurface remnants were left.*

Third, based on numerous fire insurance and other survey maps (see Figure 21, Figure 23 through Figure 25, and Figure 27) from around the turn of the twentieth century—just after 1900—many residential, commercial and light industrial structures were built in the project area. Maps from 1906 and 1914, for example, show a large soy factory (Hawaiian Soy Co., Ltd.) along Pua Lane, a small church (Palama Christian Church, in 1906, which turned into an auto painting operation by 1914), laundries, a Japanese hotel, and small "factories" (to make candy and mattresses) along Liliha, and horse stables. A fire insurance map from 1927 shows that residential structures (tenements) took over nearly all of the project area with just a couple commercial operations remaining along Liliha and Pua Lane. A dance hall replaced the previous location of the auto painting structure, and a Filipino Missions and Social Club appeared in the corner parcel—just outside the project area, at the intersection of Liliha and Vineyard. A 1947 map (see Figure 31) shows significant razing (demolition and removal) of structures throughout much of the project area occurred, presumably as a precursor to the impending Mayor Wright construction. It is very likely that the vast majority of the structures depicted on all these maps from 1906 to 1947 were built on simple blocks (sometimes referred to as "tofu blocks" in Honolulu), and that very few substantial slabs or foundations were ever present. *Therefore, we did not expect to find major, intact evidence of foundations or slabs in the project area from the first half of the twentieth century, although the possibility of some, scattered remnants could not be ruled out.*

Finally, an aerial photograph taken in 1952, apparently during construction of the partially-completed Mayor Wright homes (see Figure 32), appears to show that the entire project area had been levelled (graded/bulldozed), having removed all prior surface structures. *We, therefore, expected to find a widespread layer of some kind dating from the circa 1952 (or slightly earlier) time*.

FIELDWORK RESULTS

We documented four (4) historic properties: State Inventory of Historic Places (SIHP) # 50-80-14-8033, 8034, 8035 and 8036. **Site 8033**—exposed in nearly all (21 of 24) trenches—is a subsurface layer, consisting of four (4) features (the widespread layer, itself, and three filled-in pits emanating from the base of the layer). It represents a project-area wide grading/bulldozing and pit-filling (dumping) event that occurred just prior to, and in preparation for, construction of the Mayor Wright Homes (circa 1952-3). **Site 8034**—exposed in several trenches in the mauka (inland) portion of the project area (Trench #s 6, 7, 10, 15 & 17) is a subsurface layer consisting of gray clay interpreted as pond sediments, most likely the remnants of traditional Hawaiian loʻi kalo (irrigated, pond-field, taro cultivation). There is abundant historical evidence that, in pre-Contact times—before the development of Honolulu Harbor in the early nineteenth century—the project area represented a prime location for traditional Hawaiian subsistence cultivation of taro; such activities continued in some portions of the project area into the early twentieth century. The upper portion of this sedimentary layer—and this site—was partially truncated by the grading/bulldozing. **Site 8035** consists of two features, both asphalt and/or concrete surfaces (exposed in Trench #11 [Feature 1] and Trench #12 [Feature 2]), dating from the late historic/early modern period. Finally, **Site 8036** is a set of very large drainage pipes (exposed in Trench #21) also dating from the late historic/early modern period.

Figure 35 depicts the four (4) historic properties identified in the project area. In the Conclusion section following the Fieldwork and Laboratory Results, we present a detailed table of the identified sites, their significance assessments, and proposed mitigation, as applicable. *A recent (2016) ALTA survey of the current project area depicts the location, orientation and configuration of a large number of walkways and sidewalks, some of which may be in excess of 50 years in age (i.e., they may be historic properties). The ALTA survey map is included in Appendix C. These walkways and sidewalks may be considered components of the above-ground, architectural landscape, but we do not deal with them in this AIS.*

Geoarchaeological/Sedimentary Observations

Several geoarchaeological observations are worth noting. First, when not disturbed, truncated or removed by historic-period activities, the main soil-sedimentary layer below the uppermost topsoil/fill and above any sterile (C-horizon) sediments is clayey loam. Second, bedrock consists primarily of decomposing basalt, but in several cases it is lithified coral reef. The water table was reached before hitting bedrock, between 220–225 cm (7.2–7.4 ft.), in only two trenches (#s 20 and 21) along the southeast side of the project area. Third, the lithified coral reef was exposed at a relatively shallow depth—less than 1.0 m (3.3 ft.)—in several trenches (#s 1, 2, 3, 4, 5, 6 and 23) along the northwest side of the project area (see Figure 35). This distribution of shallow coral shelf is interesting because it corresponds generally with a feature depicted on von Kotzebue's (georeferenced) 1817 map (see Figure 9), which appears to be an elevated (puʻu-type) landform; it is probably a late Pleistocene formation representing the Waimānalo Sea Stand dating to ~120,000 years before present, when sea levels in Hawaiʻi were ~7.5 m (24.8 ft.) above current levels (Macdonald et al. 1983; Ziegler 2002). Some of these trenches with shallow lithified coral shelf (#s 1, 2, 3, and 5) also had volcanic cinder deposited in channels, cracks and holes atop the coral. Lithified coral reef bedrock was also identified in three trenches in the southeast quadrant of the project area, but at a greater depth (150–230 cm [4.9–7.5 ft.]). Finally, clean beach sand was found in only one trench (#24), as a thin (5-15 cm) band of fill sediments.

Stratigraphic Documentation and Interpretation

As depicted in Table 2, twenty-four (24) trenches were excavated to an average depth of 152 cm (5.0 ft.), and a range of 40–230 cm (1.3–7.5 ft.). Average length of the trenches was 4.5 m (14.8 ft.), with a range of 3.5–6.0 m (11.5–19.7 ft.).

Figure 35. Location of historic properties identified by TCP Hawaiʻi during this AIS and shallow lithified coral reef (brown dashed line) (see text discussion)

Table 2. Summary of Trench Dimensions and Geomorphological Characteristics

#	Max. Length	Max. Depth	BOE Material[2]	Comments
1	5.0 m	170 cm*	Coral shelf	One of several trenches w. cut-and-filled channels into coral bedrock; filled channels include cinder; clay deposit (Layer III) beneath late historic/early modern fill deposit (Layer II)
2	3.7 m	170 cm	Coral shelf	One of several trenches w. cut-and-filled channels into coral bedrock; filled channels include cinder; poss. anthropogenic (agricultural) soil (Layer III) beneath late historic/early modern fill deposit (Layer II)
3	4.2 m	190 cm	Coral shelf	One of several trenches w. cut-and-filled channels into coral shelf (bedrock); filled channels include cinder; late historic/early modern fill deposit (Layer II) rests directly atop cut-and-fill sequence (Layer III)
4	5.0 m	80 cm	Coral shelf	Shallow deposit dominated by late historic/early modern fill (Layer II) atop decomposing coral shelf; Layer II includes lenses and pockets of crushed coral sand
5	4.4 m	95 cm	Coral shelf	One of several trenches w. cut-and-filled channels into coral bedrock; filled channels include cinder; also includes late historic/early modern fill deposit (Layer II)
6	4.0 m	120 cm	Coral shelf	Possible pond or lo‘i kalo sediments (gray clay, Layer III) just beneath late historic/early modern fill deposit (Layer II); pond or lo‘i sediment layer partially disturbed (truncated)
7	4.5 m	200 cm	Decomposing basalt	Possible pond or lo‘i kalo sediments (gray clay, Layer III) just beneath late historic/early modern fill deposit (Layer II); gray clay layer partially disturbed (truncated); evidence of previous disturbance (digging event) and installation of ferrous-metal (abandoned) pipe at 45 cmbs
8	5.0 m	180 cm	Coral shelf	Late historic/early modern fill deposit extends relatively deep (140-155 cmbs), including large amount of ferrous metal & other debris (e.g., metal cables, glass, ceramics); abandoned ferrous metal pipe at 105 cmbs
9	4.0 m	80 cm	Coral shelf	Shallow trench dominated by late historic/early modern fill layer containing a butchered cow bone (femur)
10	4.3 m	100 cm	Decomposing basalt	Possible pond or lo‘i kalo sediments (gray clay, Layer II) just beneath modern fill deposit; pond or lo‘i sediment layer partially disturbed (truncated), and overlying clayey loam (Layer III)
11	4.5 m	40 cm	Old asphalt/ concrete surface	Entire deposit consists of modern fill sediments down to an old asphalt/concrete surface
12	3.5 m	140 cm	Decomposing basalt	Old degraded (decomposing) asphalt surface and crushed-coral base course (25-40 cmbs) located beneath topsoil layer; possible anthropogenic (agricultural) soil (Layer II) beneath old asphalt
13	6.0 m	210 cm	Decomposing basalt	Late historic/early modern fill deposit w. fragments of old-style hollow tiles and a lens of asphalt-like substance at 65-75 cmbs, atop massive, natural clayey loam to bedrock (Layer III)
14	3.7 m	135 cm	Decomposing basalt	Relatively deep (85 to 90-cm thick, 100 cmbs) late historic/early modern fill layer w. abandoned ferrous-metal pipe near base of deposit, overlying natural clayey loam (below 85-100 cmbs)
15	5.0 m	128 cm	Decomposing basalt	Possible pond or lo‘i kalo sediments (gray clay, Layer III) just beneath late historic/early modern fill deposit (Layer II); pond or lo‘i sediment layer partially disturbed (truncated)
16	5.0 m	135 cm	Decomposing basalt	Deposit dominated by fill down to 85-110 cmbs; natural clay (Layer III) at base of deposit, under late historic/early modern fill deposit (Layer II); previous utility excav. & 2-inch ferrous-metal pipe at 100 cmbs
17	4.0 m	210 cm	Decomposing basalt	Possible pond or lo‘i kalo sediments (gray clay, Layer III) just beneath late historic/early modern fill deposit (Layer II)
18	4.2 m	230 cm	Coral shelf	Series of natural layers fining downward from silty alluvium (Layer III) atop saprolitic clayey loam (Layer IV) atop sterile clay (Layer V, C-horizon), all beneath late historic/early modern fill deposit (Layer II)

#	Max. Length	Max. Depth	BOE Material[2]	Comments
19	4.5 m	150 cm	Coral shelf	Entire deposit down to coral shelf (bedrock) is fill
20	4.0 m	220 cm	Water table	Entire deposit down to decomposing basalt (bedrock) is fill
21	4.4 m	225 cm	Water table	Late historic/early modern fill deposit (Layer II) caps a pair of older, very large (approx. 3-ft diameter) drainage pipes; laterally-equivalent with the drainage pipes is a disturbed layer (III) with ferrous metal and red brick; disturbed deposit (Layer III) extends down to 135 cmbs; pocket of cinder at approx. 200 cmbs
22	5.0 m	180 cm	Coral shelf	Lower half of deposit is natural alluvium; fill stratum (Layer III) beneath late historic/early modern deposit (Layer II) contains an abandoned ferrous-metal pipe
23	4.0 m	65 cm	Coral shelf	Nearly entire deposit consists of disturbed sediments with active utilities (e.g., a 3-inch diameter copper pipe) and old (abandoned) communications wire (low voltage) exposed in excavation; very thin (5-10 cm thick) band of natural sediments (cinder and clay) exposed in north end of trench
24	5.0 m	200 cm	Decomposing basalt	Lower two-thirds of deposit (Layer III) is natural alluvium; late historic/early modern deposit (Layer II) is capped by a narrow (5-15 cm thick) layer of loose beach sand (Layer Ic), the only such sand in project area

[1] # = Trench #

[2] BOE (base of excavation) material refers to bedrock type, except in a small number of cases where the water table was reached first

* Base of excavation extended into lithified coral shelf (bedrock) in order to explore these sediments; actual maximum depth of bedrock (coral shelf) = 130 cmbs

Trench #1

Along with a few other trenches (i.e., Trench #s 2, 3 and 5) in the west corner and along the west side of the project area (see Figure 7), Trench #1 exposed a lithified coral shelf (bedrock) incised by water flowing through well-defined channels that had been filled in with alternating deposits of cinder and clay. Most of the channels occur at about 1.0 m below the ground surface (except for the shallower Trench #5). When we first encountered such evidence (in Trench #2), we carefully considered and explored the possibility that the channels we were observing were ʻauwai (irrigation ditches for cultivated fields) or some other humanly-created feature. After careful observation, cleaning of the profile walls by hand, and consideration of the entire sedimentary deposit in these trenches, we are certain they are natural features of a landscape that predate human settlement of Oʻahu by thousands of years. The cinder likely derives from the well-documented eruption of Pūowaina (Punchbowl) approximately 8,000 years ago.

Figure 36 and Table 3 document and depict the soil-stratigraphic layers exposed in excavation at Trench #1. Figure 37 and Figure 38 are overview photographs of Trench #1 at the base (completion) of excavation at 90-170 cm below ground surface (cmbs). Bedrock consists of undulating, lithified coral reef (shelf). In order to explore and understand this lowermost sedimentary unit, we excavated into some of the coral reef (see Figure 36).

Figure 39 to Figure 41 show details of the soil-stratigraphy, which generally consists of the following sequence: a typical topsoil (Layer I) directly atop a fill (Layer II) containing late historic to early modern debris (details below), over a natural clay deposit (Layer III), atop a cut-and-fill sedimentary unit of clayey loam (Layer IVa) with lenses and pockets of loose cinder (Layer IVb) and extremely consolidated clay (Layer IVc) channel fill over the coral-shelf (Layer V). The clayey loam, cinder and clay were likely deposited into the channels atop the lithified reef by flowing water.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. The only cultural material observed in Trench #1 consisted of non-diagnostic, fragmentary late historic/early modern debris, including small pieces of ferrous metal, glass, bricks, hollow tile and ceramics in Layer II.[4] Based on observations throughout the project area, this layer represents a widespread bulldozing event we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

[4] It is important to note that temporally-diagnostic materials—consisting primarily of glass bottles with maker's marks and other indicators of time and place of manufacture—were recovered in numerous other trenches from this same, laterally-equivalent stratum (Layer II). Specific evidence of these temporally-diagnostic materials is presented in detail in the Laboratory Results section following this Fieldwork Results section.

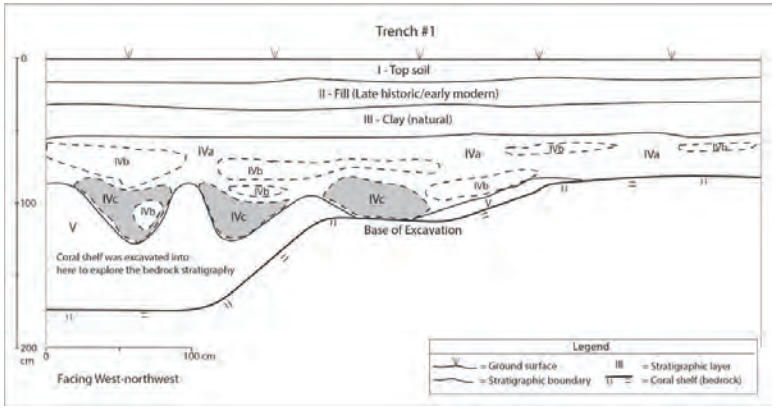

Figure 36. Stratigraphic profile of Test excavation (Trench) #1

Table 3. Summary of Soil-stratigraphic Units in Trench #1

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
I	0-12/15	12-15	Dark brown 7.5YR 3/2 sandy loam w. abundant very small inclusions of shell, lithified coral; loose consistency; soil peds; very few pebble-sized rocks	Modern trash
II	12/15-30/35	18-20	Dk brown 10YR 3/3 clayey loam w. inclusions of crushed coral, mottling of reddish-brown (ferrous metal remnants); hard consistency; little to no soil structure; jumbled inclusions; some pebble- and cobble-sized rocks	Fill layer w. late historic/early modern debris including small, non-diagnostic fragments of ferrous metal, glass, bricks, hollow tile and ceramics
III	30/35-50/55	22-25	Dark brown 7.5YR 3/2 very consolidated clay w. occasional fine sand inclusions; extremely hard consistency; rock free	Natural clay layer; no cultural material
IVa	50/55-85/120	30-70	Dark brown 7.5YR 3/4 clayey loam w. abundant, typical, multi-colored saprolitic mottling; loose, unconsolidated consistency; rock free	Natural layer, no cultural material; thickness and depth vary dramatically due to undulating coral shelf underneath
IVb	60-110	5-27	Multi-colored cinder; loose, structureless lenses and pockets	Natural layer, no cultural material; cinder occurs as lenses and pockets within Layer IVa
IVc	85-120	20-30	Dark reddish-brown 5YR 3/2 extremely hard clay; no inclusions; fills in bottoms of channels in coral shelf; rock free; abundant micro-mottling/inclusions	Natural layer, no cultural material; clay occurs as channel fill within Layer IVa
V	85-Unknown	Unknown	Relatively friable lithified reef	Lithified coral reef (bedrock)

Figure 37. Overview of Trench #1 at base of excavation, view northeast; note relatively shallow coral shelf in northeast half of the trench

Figure 38. Overview of Trench #2 at base of excavation, view southwest; note shallow coral shelf in foreground base of the trench

Figure 39. Detail of south half of northwest-facing profile of Trench #1, view east; note channels and channel-fill sediments

Figure 40. Another view of south half of northwest-facing profile of Trench #1, view southeast; note channels cut into coral shelf and channel-fill sediments of cinder and clay

Figure 41. Detail of a portion of southeast-facing profile of Trench #1, view northwest; note channels cut into coral shelf and channel-fill sediments of cinder and clay

Trench #2

Along with a few other trenches (i.e., Trench #s 1, 3 and 5) in the west corner and along the west side of the project area (see Figure 7), Trench #2 exposed a lithified coral shelf (bedrock) incised by water flowing through well-defined channels that had been filled in with deposits of cinder and terrigenous sediment. The main channel into the lithified coral (bedrock) at Trench #2 starts at 85-90 cmbs. Based on the order in which they were excavated, Trench #2 was the first such example where we observed well-defined channels; and our initial hypothesis—that they might represent ʻauwai or some other humanly-created feature—was investigated by careful observation, cleaning of the profile walls by hand, and consideration of the entire sedimentary deposit. Based on all available evidence, we are certain they are natural, early Holocene features of a landscape that predate human settlement of Oʻahu.[5]

Figure 42 and Table 4 document and depict the soil-stratigraphic layers exposed in excavation at Trench #2. Figure 43 is an overview photograph of Trench #2 at the base (completion) of excavation at a maximum depth of 170 cmbs. Bedrock consists of undulating, lithified coral reef (shelf). In portions of the trench where it has not been incised (channelized), the coral shelf (bedrock) is only 80-85 cm deep.

Figure 44 and Figure 45 show details of the soil-stratigraphy, which generally consists of the following sequence: a typical topsoil (Layer I) directly atop a fill (Layer II) containing late historic to early modern debris (details below), over a loamy deposit (Layer III) that appears to be an old agricultural soil (i.e., an anthropogenic stratum), atop a cut-and-fill sequence unit of clayey loam (Layer IVa) that was cut into (incised) by cinder (Layer IVb). Both the clayey loam and cinder were likely deposited by flowing water.

The loam deposit (designated Layer III), which appears to be a non-irrigated (non-pond/loʻi) agricultural soil, is similar to one (Layer II) exposed in Trench #12, located just southeast of Trench #2.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. The only cultural material observed in Trench #2 consisted of non-diagnostic, fragmentary late historic/early modern debris, including small pieces of ferrous metal, glass, bricks, hollow tile and ceramics in Layer II. Based on observations throughout the project area, this layer represents a widespread bulldozing event we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments). The possibly anthropogenic soil (Layer III) is also noteworthy.

[5] The cinder likely derives from the well-documented eruption of Pūowaina (Punchbowl) approximately 8,000 years ago.

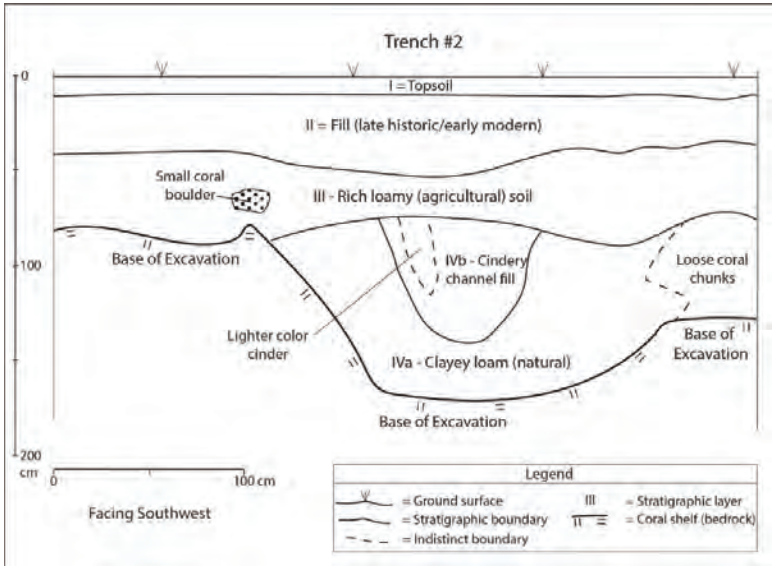

Figure 42. Stratigraphic profile of Test excavation (Trench) #2

Table 4. Summary of Soil-stratigraphic Units in Trench #2

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
I	0-10	10	Very dark grayish brown 10YR 3/2 loam w. abundant fine to very fine roots; loose consistency; soil peds; very few pebble-sized rocks	Modern trash
II	10-35/55	25-45	Dark brown 10YR 3/3 clayey loam w. inclusions of crushed coral; little to no soil structure; jumbled inclusions (no fining upward sequence); some pebble- and cobble-sized rocks	Fill layer w. late historic/early modern debris including small, non-diagnostic fragments of ferrous metal, glass, bricks, hollow tile and ceramics
III	35/55-70/90	20-50	Dk brown 10YR 2/2 loam (organic rich); mod. loose/unconsolidated consistency; crumb structure w. soil peds	Natural layer, consistent w. rich agricultural soil; no cultural material
IVa	75/90-170	~100	Dk brown 7.5YR 3/4 clayey loam; moderately hard consistency; occasional pebble- and cobble-size rocks	Natural layer, no cultural material; this layer is channel fill into coral shelf
IVb	72/80-140	60-68	Multi-colored cinder; loose, structureless lenses and pockets	Natural layer, no cultural material; cinder occurs as channel fill into Layer IVa

Figure 43. Overview of Trench #2 at base of excavation, view northwest; note shallow coral shelf in foreground base of the trench; deeper coral shelf in the middle of the trench is an old channel cut into it

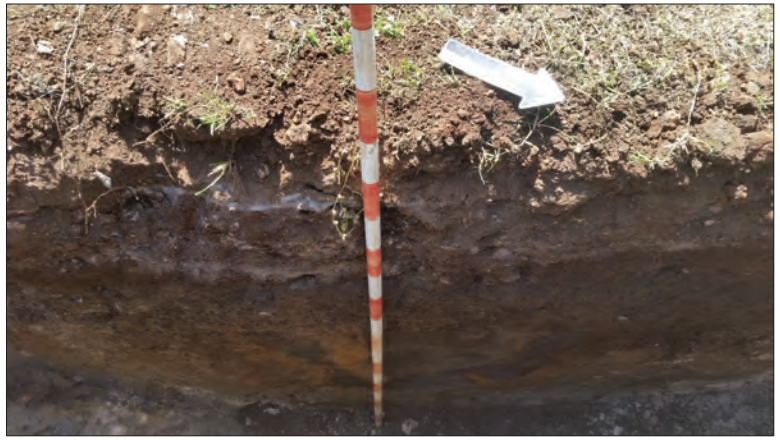

Figure 44. Detail of a portion of the northeast-facing profile wall at Trench #2 at base of excavation, view southwest; note cindery channel fill in bottom center of profile

Figure 45. Detail of a portion of southwest-facing profile wall at Trench #2, including east end, view east

Trench #3

Along with a few other trenches (i.e., Trench #s 1, 2 and 5) in the west corner and along the west side of the project area (see Figure 7), Trench 3 exposed a lithified coral shelf (bedrock) incised by water flowing through well-defined channels that had been filled in with deposits of cinder and terrigenous sediment. Channeling into the lithified coral (bedrock) in Trench #3 starts at 95 cmbs in its northeast end. Based on all available evidence—as described in more detail above (see Trench #1 and #2 narrative description), we are certain these deposits are natural, early Holocene features of a landscape that predate human settlement of O'ahu.

Figure 46 and Table 5 document and depict the soil-stratigraphic layers exposed in excavation at Trench #2. Figure 47 is an overview photograph of Trench #3 at the base (completion) of excavation at a maximum depth of 190 cmbs. Bedrock consists of undulating, lithified coral reef (shelf). In order to explore and understand this lowermost sedimentary unit, we excavated into some of the coral reef (see Figure 46).

Figure 48 and Figure 49 show details of the soil-stratigraphy, which generally consists of the following sequence: a shallow (5-cm thick) topsoil (Layer Ia) directly atop two modern fill deposits (a thin gray cinder, Layer Ib, and a thicker sandy loam, Layer Ic); these modern deposits cap a late historic to early modern fill (Layer II, details below), over a cut-and-fill sequence unit of clayey loam (Layer IIIa) with lenses and pockets of loose cinder (Layer IIIb) and extremely consolidated clay (Layer IIIc) channel fill over the coral-shelf (Layer IV). Both the clayey loam and cinder were likely deposited by flowing water.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. The only cultural material observed in Trench #3 consisted of non-diagnostic, fragmentary late historic/early modern debris in Layer II, including small pieces of ferrous metal and abundant fragments of hollow tile. Based on observations throughout the project area, this layer represents a widespread bulldozing event we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

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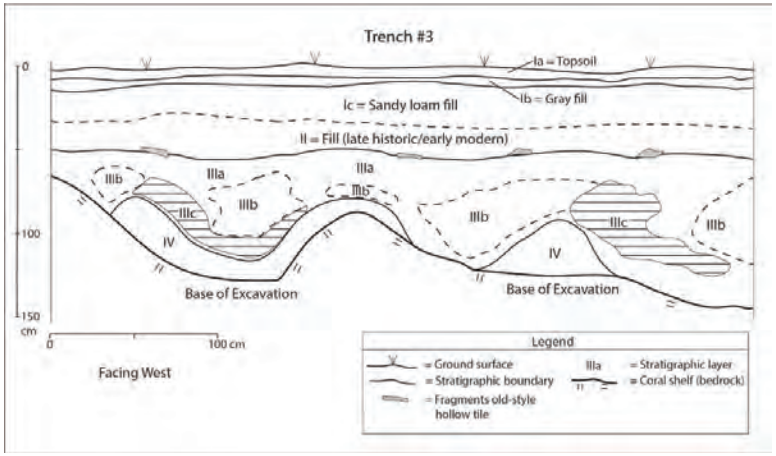

Figure 46. Stratigraphic profile of Test excavation (Trench) #3

Table 5 Summary of Soil-stratigraphic Units in Trench #3

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
Ia	0-5	5	Very dark grayish brown 10YR 3/2 loam w. abundant fine to very fine roots; loose consistency; few pebble-sized rocks	Modern trash
Ib	5-10	5	Light gray 10YR 7/1 cinder; very loose consistency; no rocks	Fill layer (modern)
Ic	10-30	20	Dk brown 7.5YR 3/3 sandy loam w. v. few inclusions; no rocks; structureless	Fill layer (modern)
II	30-50/55	20-25	Dark brown 10YR 3/3 sandy loam w. inclusions of crushed coral; little to no soil structure; jumbled inclusions (no fining upward sequence); some pebble- and cobble-sized rocks	Fill layer w. late historic/early modern debris including small, non-diagnostic fragments of ferrous metal and abundant old-style hollow tile
IIIa	50/55-80/140	40-90	Dark brown 7.5YR 3/4 clayey loam w. abundant, typical, multi-colored saprolitic mottling; loose, unconsolidated consistency; rock free	Natural layer, no cultural material; thickness and depth vary dramatically due to undulating coral shelf underneath
IIIb	60/65-80/110	15-30	Multi-colored cinder; loose, structureless lenses and pockets	Natural layer, no cultural material; cinder occurs as lenses and pockets within Layer IIIa
IIIc	70-110	10-30	Dark reddish-brown 5YR 3/2 extremely hard clay; no inclusions; fills in bottoms of channels in coral shelf; rock free	Natural layer, no cultural material; clay occurs as channel fill within Layer IIIa
IV	75/80-Unknown	Unknown	Relatively friable lithified reef	Lithified coral reef (bedrock)

Figure 47. Overview of Trench #3 at base of excavation, view northeast; note undulating, relatively shallow coral shelf in base of trench and cindery sediment at far (east) end

Figure 48. Detail of a portion of the southeast-facing profile wall at Trench #3 at base of excavation, view northwest; note cindery channel fill atop coral shelf

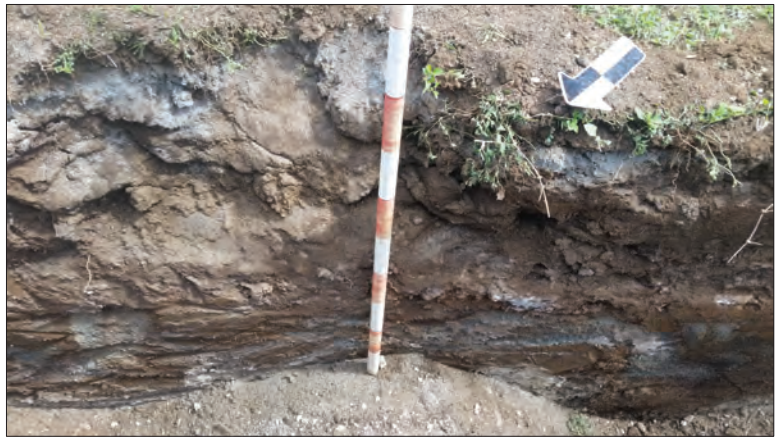

Figure 49. Detail of a portion of the northwest-facing profile wall at Trench #3 at base of excavation, view southeast; note cindery channel fill atop coral shelf

Trench #4

The entire deposit in Trench #4 consists of fill sediments and disturbance dating from no earlier than the late historic/early modern period.

Figure 50 and Table 6 document and depict the soil-stratigraphic layers exposed in excavation at Trench #4. Figure 51 is an overview photograph of Trench #4 at the base (completion) of excavation at a maximum depth of 75 cmbs. Bedrock consists of lithified coral reef (shelf). It appears that previous disturbance of this coral shelf, approximately 20-25 cm in thickness, has taken place in the past (see Figure 50).

Figure 52 and Figure 53 show details of the soil-stratigraphy, which generally consists of the following sequence: a shallow (7 to 8-cm thick) topsoil (Layer I) directly atop a late historic to early modern fill (Layer II, details below), over a relatively shallow layer of friable, broken up, lithified coral reef (cobble- and pebble-sized clasts). This Layer (III) possibly represents an artificial (i.e., humanly-created) deposit of coral fragments from previous disturbance/excavation of the underlying coral bedrock.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. The only cultural material observed in Trench #4 consisted of non-diagnostic, fragmentary late historic/early modern debris in Layer II, including small pieces of ferrous metal and abundant fragments of glass. Several lenses and pockets of crushed coralline sand were observed in this layer. Based on observations throughout the project area, Layer II represents a widespread bulldozing event we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

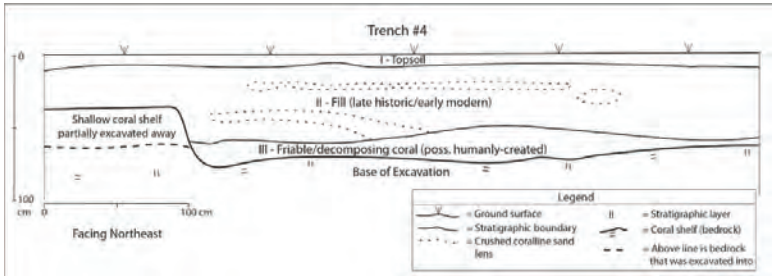

Figure 50. Stratigraphic profile of Test excavation (Trench) #4

Table 6. Summary of Soil-stratigraphic Units in Trench #4

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
I	0-10	10	Very dark grayish brown 10YR 3/2 silty loam w. abundant fine to very fine roots; loose consistency; abundant pebble-sized rocks	Modern trash
II	10-35/60	25-50	Dark brown 10YR 3/3 sandy loam w. inclusions of crushed coral; little to no soil structure; jumbled inclusions (no fining upward sequence); some pebble- and cobble-sized rocks	Fill layer w. late historic/early modern debris including small, non-diagnostic fragments of ferrous metal and abundant old-style hollow tile
III	35/60-Unknown	Unknown	Relatively friable, broken up lithified coral reef, cobble- and pebble-sized clasts	Possibly humanly-created coral fragments from previous disturbance/excavation of the underlying coral bedrock

Figure 51. Overview of Trench #4 at base of excavation, view northwest

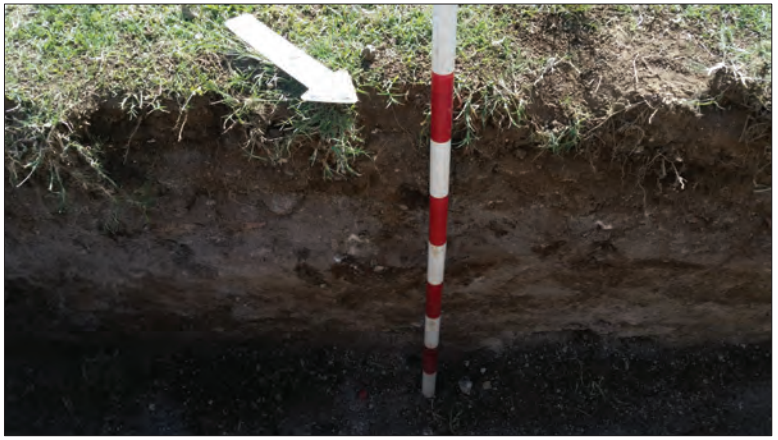

Figure 52. Detail of a portion of the northeast-facing profile wall at Trench #4 at base of excavation, view southwest

Figure 53. Oblique view of a portion of the northeast-facing profile wall at Trench #4 at base of excavation, view southeast

Trench #5

Along with a few other trenches (i.e., Trench #s 1, 2 and 3) in the west corner and along the west side of the project area (see Figure 7), Trench #5 exposed a lithified coral shelf (bedrock) incised by water flowing through well-defined channels that had been filled in with deposits of cinder and terrigenous sediment. Channeling into the lithified coral (bedrock) in Trench #5 starts at 45 cmbs in its northeast end. Based on all available evidence—as described in more detail above (see Trench #1 and #2 narrative description), we are certain these deposits are natural, early Holocene features of a landscape that predate human settlement of O‘ahu.

Figure 54 and Table 7 document and depict the soil-stratigraphic layers exposed in excavation at Trench #5. Figure 55 is an overview photograph of Trench #5 at the base (completion) of excavation at a maximum depth of 95 cmbs. Bedrock consists of undulating, lithified coral reef (shelf).

Figure 56 and Figure 57 show details of the soil-stratigraphy, which generally consists of the following sequence: a topsoil (Layer I) that contains a discontinuous, thin deposit of gray cinder in some places; this modern layer caps a late historic to early modern fill (Layer II, details below), over a cut-and-fill sequence unit of clay (Layer IIIa) with lenses and pockets of loose cinder (Layer IIIb) over the coral-shelf. Both the clay and cinder were likely deposited by flowing water.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. The only cultural material observed in Trench #5 consisted of non-diagnostic, fragmentary late historic/early modern debris in Layer II, including small pieces of ferrous metal and abundant glass fragments. Based on observations throughout the project area, this layer represents a widespread bulldozing event we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

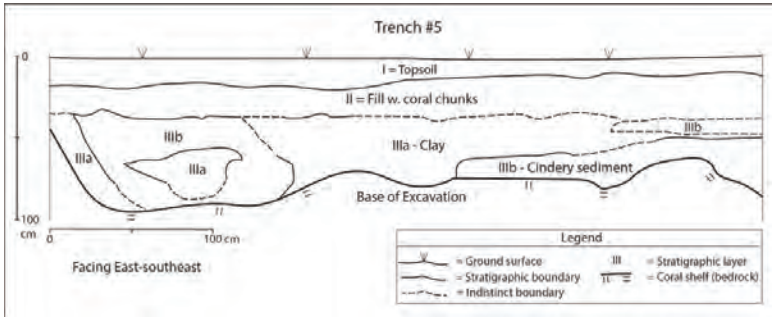

Figure 54. Stratigraphic profile of Test excavation (Trench) #5

Table 7. Summary of Soil-stratigraphic Units in Trench #5

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
I	0-10/15	10-15	Dark brown 10YR 3/3 loam w. soil peds & structure; loose consistency; few pebble-sized rocks	Modern trash
II	10/15-30/35	15-30	Very dark grayish brown 10YR 3/2 clayey loam w. inclusions of crushed coral; platey structure; jumbled inclusions (no fining upward sequence); some pebble- and cobble-sized rocks	Fill layer w. late historic/early modern debris including small, non-diagnostic fragments of ferrous metal and glass
IIIa	35-70/95	35-60	Reddish brown 5YR 4/3 clay w. occasional flecks of charcoal and orange-reddish very small mottling; very hard/compact consistency	Natural layer, no cultural material; thickness and depth vary dramatically due to undulating coral shelf underneath
IIIb	35-70/95	10-65	Multi-colored cinder; compact consistency, structureless lenses and pockets	Natural layer, no cultural material; cinder occurs as lenses and pockets within Layer IIIa; thickness and depth vary dramatically

Figure 55. Overview of Trench #5 at base of excavation, view southwest

Figure 56. Detail of a portion of the southeast-facing profile wall at Trench #5 at base of excavation, view northwest

Figure 57. Detail of a portion of the northwest-facing profile wall at Trench #5 at base of excavation, view southeast

Trench #6

Trench #6 exposed a possible pond or lo‘i kalo layer (gray clay) between 55-80 cmbs, below a late historic/early modern fill layer (see Figure 7).

Figure 58 and Table 8 document and depict the soil-stratigraphic layers exposed in excavation at Trench #6. Figure 59 and Figure 60 are overview photographs of Trench #6 at the base (completion) of excavation at a maximum depth of 120 cmbs. Bedrock consists of gently undulating, lithified coral reef (shelf).

Figure 61 and Figure 62 show details of the soil-stratigraphy, which generally consists of the following sequence: a relatively deep (20-25-cm thick) topsoil (Layer I) atop a late historic to early modern fill (Layer II, details below), over a distinctive gray clay (Layer III) that appears to represent ponded sediments—perhaps lo‘i kalo; beneath this gray clay is a clayey loam (Layer IV) with pedogenic properties that may be an agricultural soil. Beneath this possible agricultural soil is an extremely consolidated (hard consistency) clay alluvium (Layer V) resting directly on the coral shelf (bedrock).

As depicted in some of the photographs below (see, e.g., Figure 59 and Figure 61), the gray clay layer (possible pond or lo‘i kalo sediments) was partially truncated (disturbed) by past excavation activities originating from the overlying (Layer II) late historic/early modern deposit. A large section of metal pipe recovered in Layer II (see Figure 63) is an old utility that came from this disturbance.

The possible pond or lo‘i kalo deposit was documented in a total of five trenches (#s 6, 7, 10, 15 and 17). We discuss patterning in geomorphological strata in the Significance Assessments section following the Results.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. Cultural material observed in Trench #6 consisted of late historic/early modern debris in Layer II, including ferrous metal and glass fragments, as well as some larger items including a portion of a leaf-spring-style vehicle suspension and other ferrous metal (section of pipe, rebar) (Figure 63 and Figure 64). Based on observations throughout the project area, this layer represents a widespread bulldozing event we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

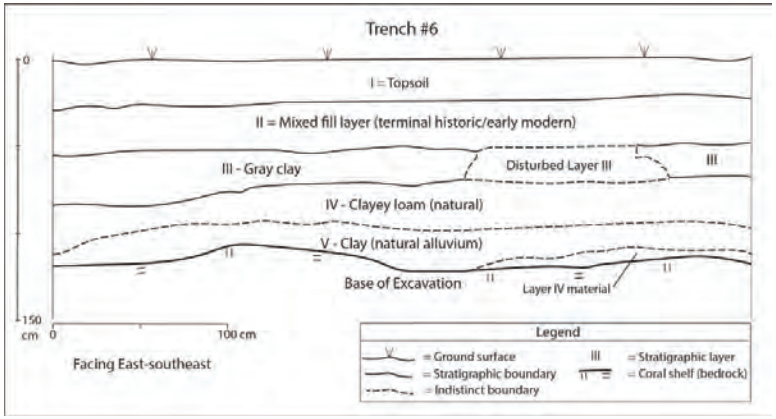

Figure 58. Stratigraphic profile of Test excavation (Trench) #6

Table 8. Summary of Soil-stratigraphic Units in Trench #6

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
I	0-20/25	20-25	Dark brown 7.5YR 3/2 loam w. soil peds & structure; loose consistency; few pebble-sized rocks	Modern trash
II	20/25-50	25-30	Dark brown 10YR 3/3 clayey loam w. inclusions of crushed coral; platey structure; mottling of reddish-brown (ferrous metal); some pebble- and cobble-sized rocks	Fill layer w. late historic/early modern debris including ferrous metal and glass; and larger ferrous metal objects (e.g., piece of leaf-spring-style suspension)
III	50-70/80	20-30	Gray 2.5YR 4/1 clay, sticky, very consolidated; no inclusions or mottling	Natural layer – possible pond or lo‘i kalo sediments, no cultural material
IV	70/80-95/110	15-30	Dark brown 10YR 3/3 clayey loam; crumbly structure w. soil peds; moderately loose consistency	Natural layer (possible agricultural soil), no cultural material
V	95/110-115-120	5-20	Grayish brown 10YR 5/2 clay, extremely hard consistency (nearly “rock hard”); “shiny” appearance when cut with metal tool; some reddish-brown flecks and micro-mottling	Natural layer (alluvium), no cultural material – there is a thin band of Layer IV sediment (clayey loam) at the base of a portion of this layer (see Figure 58 and Figure 61)

Figure 59. Overview of Trench #6 at base of excavation, view southwest; arrow indicates disturbance (old excavation) into the gray clay layer (Layer III), as discussed in the text above

Figure 60. Overview of Trench #6 at base of excavation, view northeast

Figure 61. Detail of a portion of northwest-facing profile at Trench #6, near south end of trench, view southeast; note disturbed gray clay layer (Layer III) to left of the photo scale

Figure 62. Detail of a portion of northwest-facing profile at Trench #6, near north end of trench, view southeast

Figure 63. Close up of a fragment of leaf-spring-style suspension from an old vehicle recovered from base of Layer II at Trench #6

Figure 64. Various ferrous metal objects (including the leaf-spring fragment pictured above, a section of metal pipe and reinforcement bars) recovered from Layer II in Trench #6; photo shows them tossed back into trench prior to it being backfilled

Trench #7

Trench #7 exposed a possible pond or lo‘i kalo layer (gray clay) between 25-55 cmbs, below a late historic/early modern fill layer (see Figure 7).

Figure 65 and Table 9 document and depict the soil-stratigraphic layers exposed in excavation at Trench #6. Figure 66 and Figure 67 are overview photographs of Trench #7 at the base (completion) of excavation at a maximum depth of 200 cmbs. Bedrock consists of decomposing basalt.

Figure 68 and Figure 69 show details of the soil-stratigraphy, which generally consists of the following sequence: a relatively shallow (10-cm thick) topsoil (Layer I) atop a thin late historic to early modern fill (Layer II, details below), over a distinctive gray clay (Layer III) that appears to represent ponded sediments—perhaps lo‘i kalo; beneath this gray clay is a clayey loam (Layer IV) with pedogenic properties that may be an agricultural soil. Beneath this possible agricultural soil is an extremely consolidated (hard consistency) clay alluvium (Layer V) resting directly on decomposing basalt (bedrock). At the south end of the trench, there is evidence of previous disturbance (digging event) and installation of a ferrous-metal (now abandoned) pipe at 45 cmbs. The previous utility excavation originated from the late historic/early modern deposit (Layer II).

The possible pond or lo‘i kalo deposit was documented in a total of five trenches (#s 6, 7, 10, 15 and 17). We discuss patterning in geomorphological strata in the Significance Assessments section following the Results.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. Cultural material observed in Trench #7 consisted of late historic/early modern debris in Layer II, including ferrous metal and glass fragments. Based on observations throughout the project area, this layer represents a widespread bulldozing event we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

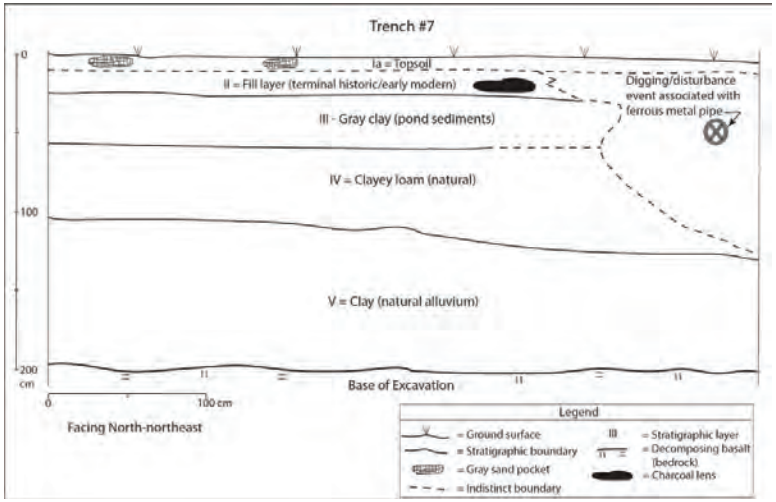

Figure 65. Stratigraphic profile of Test excavation (Trench) #7

Table 9. Summary of Soil-stratigraphic Units in Trench #7

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
I	0-10	10	Dark brown 7.5YR 3/2 loam w. soil peds & structure; loose consistency; few pebble-sized rocks	Modern trash – also includes small lenses/pockets of gray sand
II	10-25*	15*	Dark brown 10YR 3/3 clayey loam w. inclusions of crushed coral; platey structure; mottling of reddish-brown (ferrous metal); some pebble- and cobble-sized rocks	Fill layer w. late historic/early modern debris including ferrous metal and glass – also includes a small wood charcoal deposit at 15 cmbs
III	25-55	30	Gray 2.5YR 4/1 clay, sticky, very consolidated; no inclusions or mottling	Natural layer – possible pond or lo‘i kalo sediments, no cultural material
IV	55-100/120	45-65	Dark brown 10YR 3/3 clayey loam; crumbly structure w. soil peds; moderately loose consistency	Natural layer (possible agricultural soil), no cultural material
V	100/120-200	80-100	Grayish brown 10YR 5/2 clay, extremely hard consistency (nearly “rock hard”); “shiny” appearance when cut with metal tool; some reddish-brown flecks and micro-mottling	Natural layer (alluvium), no cultural material – C-horizon

* An old utility excavation originating in Layer II was exposed at the south end of the trench; this old digging event extends down to a maximum of 115 cmbs and is filled with Layer II sediments.

Figure 66. Overview of Trench #7 at base of excavation, view northwest

Figure 67. Overview of Trench #7 at base of excavation, view southeast; red arrow indicates the clayey loam with soil structures overlying the clay (C-horizon) without pedogenic characteristics (yellow arrow)

Figure 68. Detail of a portion of northeast-facing profile at Trench #7, at west end of trench, view southwest

Figure 69. Detail of a portion of southwest-facing profile at Trench #7, at east end of trench, view northeast

Trench #8

Trench #8 exposed a very deep fill deposit containing late historic/early modern material, including a large amount of ferrous metal and other debris (e.g., metal cables, fragments of glass and ceramics) (see Figure 7). This fill deposit extends down to 140-155 cmbs, nearly all the way to the base of excavation. An abandoned ferrous metal pipe was observed at 105 cmbs.

Figure 70 and Table 10 document and depict the soil-stratigraphic layers exposed in excavation at Trench #8. Figure 71 is an overview photograph of Trench #8 at the base (completion) of excavation at a maximum depth of 180 cmbs. Bedrock consists of lithified coral shelf.

Figure 72 and Figure 73 show details of the soil-stratigraphy, which generally consists of the following sequence: a relatively deep (up to 25-cm thick) fill of modern sediments mixed with elements of topsoil (Layer Ia) and pockets of sand and gravel, atop a gravelly fill layer (Layer Ib); adjacent to these upper layers, there is a gravelly base course related to a utility just southwest of the trench. Older fill deposits--Layers Id and Ie—between approximately 25-35 cmbs (upper limits) and 140-155 cmbs (lower limits) contain abundant late historic/early modern debris. Below these fill deposits, resting upon the lithified coral shelf (bedrock), are a natural sandy clay (Layer II) and natural decomposing coral (Layer III).

Figure 74 shows several steel cables sticking out of the southeast-facing profile wall in the south end of the trench.

Figure 75 and Figure 76 show a variety of late historic/early modern metal, bottle glass and ceramic debris.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. Cultural material observed in Trench #8 consisted of late historic/early modern debris in Layers Id and Ie, including ferrous metal, bottle glass and ceramic fragments. Based on observations throughout the project area, this layer represents a widespread bulldozing event we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

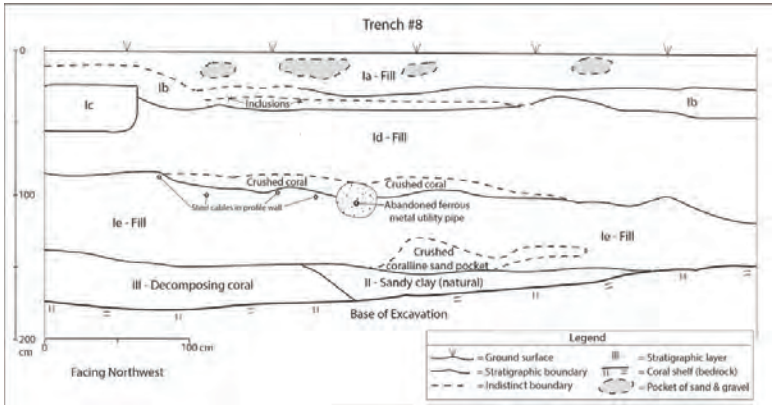

Figure 70. Stratigraphic profile of Test excavation (Trench) #8

Table 10. Summary of Soil-stratigraphic Units in Trench #8

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
Ia	0-10/25	10-25	Dark brown 7.5YR 3/3 gravelly silt; structureless; jumbled fill; includes grayish brown to dark grayish brown sandy loam mottling	Modern fill mixed with think topsoil
Ib	10/25-25/35	10-20	Very pale brown 10YR 8/2 extremely gravelly crushed coralline sand; very hard and compact consistency; w. grayish brown inclusions	Modern fill
Ic	25-55	30	Gray base course construction fill; medium- to large-sized gravel	Base course related to adjacent utility installation (late historic/early modern)
Id	25/35-87/117*	50-75	Dark brown 7.5YR 3/3 clay w. blocky structure; some saprolitic mottling; gravels mixed into clay	Fill layer w. late historic/early modern debris
Ie	87/117-140/155	50-65	Dark yellowish brown 10YR 3/6 sandy loam w. crumb structure; large pocket of crushed coralline sand at base of a portion of this layer	Fill layer w. late historic/early modern debris including bottle glass shards and ceramic sherds at 120 cmbs; old (abandoned) ferrous metal pipe and steel cables in upper layer
II	140/150-180	30-40	Dark brown 10YR 3/3 sandy clay w. light brown mottling	Natural layer (alluvium), no cultural material
III	150/155-175	5-20	Very pale brown 10YR 8/2 decomposing coral reef	Natural layer (decomposing coral shelf), no cultural material

* These dimensions do not take into account the intrusive utility construction layer (Ic) at the south end of the trench

Figure 71. Overview of Trench #8 at base of excavation, view southwest

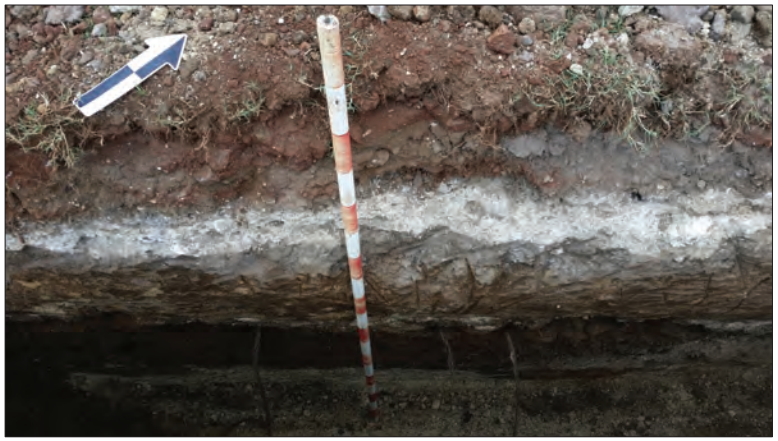

Figure 72. Detail of a portion of the southeast-facing profile wall at Trench #8 at base of excavation, view northwest; note metal cables sticking out of profile wall to the left

Figure 73. Detail of a portion of the northwest-facing profile wall at Trench #8 at base of excavation, view southeast

Figure 74. View of south end of west side of Trench #8 showing metal cables in profile wall

Figure 75. Metal, glass and ceramic materials recovered from Trench #8

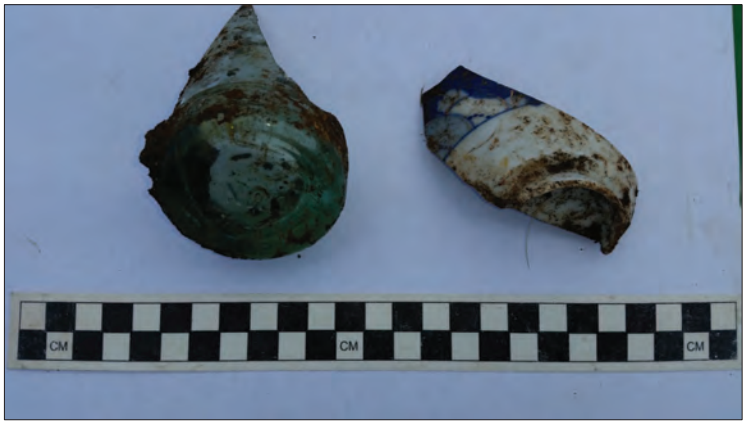

Figure 76. Base of glass bottle and ceramic cup recovered from Trench #8

Trench #9

Trench #9 exposed a relatively shallow deposit with a typical (for the project area) late historic/early modern fill layer also containing a butchered (with metal tools) cow bone (femur) (see Figure 7).

Figure 77 and Table 11 document and depict the soil-stratigraphic layers exposed in excavation at Trench #9. Figure 78 is an overview photograph of Trench #9 at the base (completion) of excavation at a maximum depth of 80 cmbs. Bedrock consists of lithified coral shelf.

Figure 79 to Figure 82 show details of the soil-stratigraphy, which generally consists of the following sequence: a typical (10-cm thick) topsoil (Layer I) over a late historic to early modern fill (Layer II, details below) atop a clay layer (Layer III) with a large pocket of crushed coral inclusions. This clay sits atop a thin layer (Layer IIIa) of decomposing lithified coral reef. A large cow bone, butchered using metal tools, was observed in the upper portion of Layer II. The bone was extremely leached from the surrounding clayey loam sediment, and was very friable and light in weight because of this chemical alteration. The upper portion of the underlying natural clay layer (Layer III) appears to have been at least partially altered by previous grading or bulldozing.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. Cultural material observed in Trench #9 consisted of late historic/early modern debris in Layers II, including ferrous metal, ceramic fragments and a butchered cow femur. Based on observations throughout the project area, this layer represents a widespread bulldozing event we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

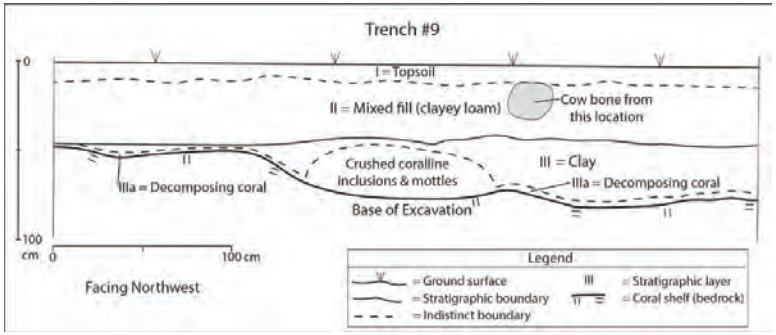

Figure 77. Stratigraphic profile of Test excavation (Trench) #9

Table 11. Summary of Soil-stratigraphic Units in Trench #9

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
I	0-10	10	Dark brown 10YR 3/2 loam w. soil peds & structure; loose consistency; few pebble-sized rocks	Modern trash
II	10-40/45	30-35	Very dark brown 10YR 2/2 clayey loam w. inclusions of crushed coral; platey structure; jumbled inclusions (no fining upward sequence); some pebble- and cobble-sized rocks	Fill layer w. late historic/early modern debris including small, non-diagnostic fragments of ferrous metal and ceramic shard; a portion of cow bone was recovered near top of Layer II
III	40/45-50/75	5-35	Dark brown 7.5YR 3/2 clay w. relatively abundant pebble- and cobble-sized rocks; blocky structure; moderately hard consistency	Natural layer, no cultural material; upper portion of layer may have been impacted by mechanical grading/bulldozing; there is a large pocket of crushed coralline inclusions in the middle of the layer
IIIa	50/75-52/77	2	Very pale brown 10YR 8/2 decomposing coral reef	Natural layer (decomposing coral shelf), no cultural material

Figure 78. Overview of Trench #9 at base of excavation, view northeast; note shallow coral shelf at base of excavation

Figure 79. Detail of a portion of the southeast-facing profile wall at Trench #9 at base of excavation, view northwest

Figure 80. Detail of a portion of the northwest-facing profile wall at Trench #9 at base of excavation, view southeast

Figure 81. Oblique view of a portion of southeast-facing profile wall at Trench #9, facing west; note shallow coral shelf in front of photo scale to left

Figure 82. Oblique view of a portion of northwest-facing profile wall at Trench #9, facing south

Trench #10

Trench #10 exposed possible pond or lo‘i kalo sediments (gray clay) just beneath a very thin late historic/early modern fill deposit (see Figure 7). The pond or lo‘i sediments, which were partially disturbed (truncated) by previous excavation originating from the late historic/early modern, rest atop a naturally-deposited clayey loam.

Figure 83 and Table 11 document and depict the soil-stratigraphic layers exposed in excavation at Trench #9. Figure 84 and Figure 85 are overview photographs of Trench #10 at the base (completion) of excavation at a maximum depth of 100 cmbs. Bedrock consists of undulating, decomposing basalt.

Figure 86 to Figure 89 show details of the soil-stratigraphy, which generally consists of the following sequence: a typical (10 to 15-cm thick) topsoil (Layer Ia) over a modern “blue rock” base course (Layer Ib) most likely related to an adjacent (modern) maintenance shed; these sit atop a very thin late historic to early modern fill (Layer II) that resembles the extensive fill deposit found throughout the project area (although it is usually much thicker); below this is a distinctive gray clay (Layer III) that appears to represent ponded sediments—perhaps lo‘i kalo. Beneath this gray clay is a clayey loam (Layer IV) with pedogenic properties that may be an agricultural soil.

The possible pond or lo‘i kalo deposit was documented in a total of five trenches (#s 6, 7, 10, 15 and 17). We discuss patterning in geomorphological strata in the Significance Assessments section following the Results.

As noted in the table and stratigraphic profile below, a boulder was found in the southeast-facing profile wall, at the interface of the bottom of Layer III (gray clay) and the top of Layer IV (clayey loam). We investigated whether this boulder could be part of a traditional rock structure—e.g., an agricultural terrace wall—by hand digging into the wall on both sides. We did not find any additional boulders that may have once been part of an old, subsurface rock structure.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. Cultural material observed in Trench #10 consisted of a very thin layer of late historic/early modern debris in Layers II, including ferrous metal, glass shards and ceramic fragments. Based on observations throughout the project area, this layer represents a widespread bulldozing event we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

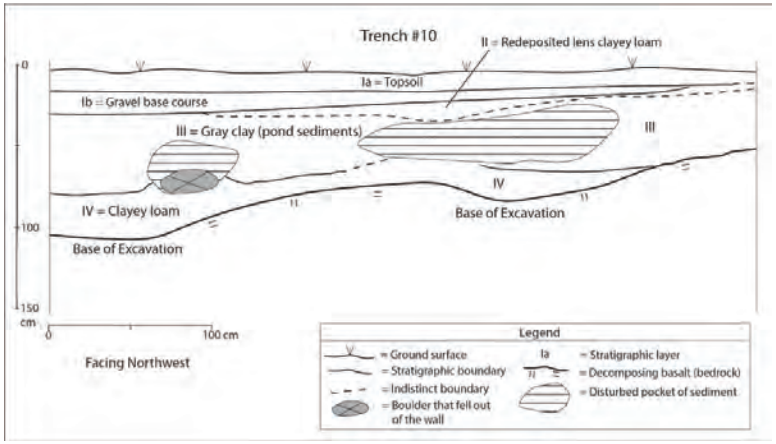

Figure 83. Stratigraphic profile of Test excavation (Trench) #10

Table 12. Summary of Soil-stratigraphic Units in Trench #10

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
Ia	0-10/15	10-15	Dark brown 10YR 3/2 sandy loam w. soil peds & structure; loose consistency; few pebble-sized rocks	Modern trash
Ib	10/15-15/25	5-10	Hard-packed “blue rock” gravel	Modern gravel base course, probably associated w. adjacent (modern) maintenance shed
II	12/25-13/27	5-10	Very dark brown 10YR 2/2 clayey loam w. inclusions of crushed coral; platey structure; jumbled inclusions (no fining upward sequence); some pebble- and cobble-sized rocks	Thin lens of late historic/early modern fill sediment
III	13/27-45/75	35-45	Gray 2.5YR 4/1 clay, sticky, very consolidated; no inclusions or mottling	Natural layer – possible pond or lo‘i kalo sediments, no cultural material; boulder at base of layer, at interface w. top of Layer IV
IV	45/75-65/100	5-25	Dark brown 10YR 3/3 clayey loam; crumbly structure w. soil peds; moderately loose consistency	Natural layer (possible agricultural soil), no cultural material; boulder at top of layer, at interface w. bottom of Layer III

Figure 84. Overview of Trench #10 at base of excavation, view northeast

Figure 85. Overview of Trench #10 at base of excavation, view southwest

Figure 86. Detail of a portion of the southeast-facing profile wall at Trench #10 at base of excavation near north end of trench, view northwest; note gray clay (Layer III) under the "blue rock" gravel layer

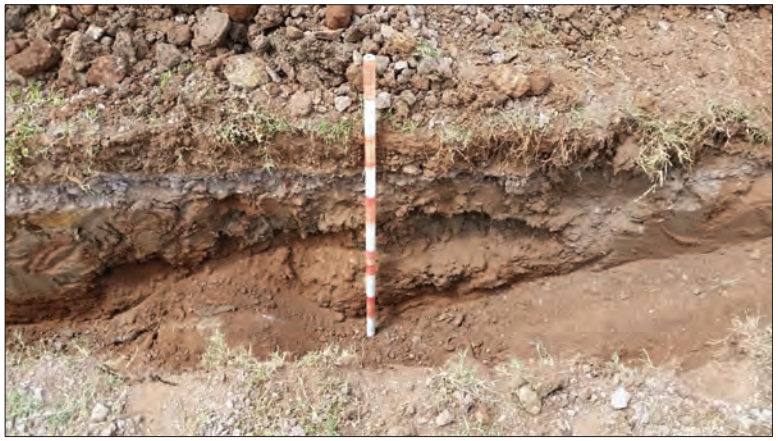

Figure 87. Detail of a portion of the southeast-facing profile wall at Trench #10 at base of excavation near north end of trench, view northwest

Figure 88. Detail of a portion of the northwest-facing profile wall at Trench #10, base of excavation, at south end of trench, view southeast

Figure 89. Detail of a portion of the northwest-facing profile wall at Trench #10, base of excavation, near north end of trench, view southeast

Trench #11

The deposit in Trench #11 consists of modern fill sediments resting upon an old asphalt/concrete surface that probably dates from the late historic/early modern period (see Figure 7).

Figure 90 and Table 13 document and depict the soil-stratigraphic layers exposed in excavation at Trench #4. Figure 91 is an overview photograph of Trench #11 at the base (completion) of excavation at a maximum depth of 40 cmbs. Bedrock was not reached. The base of excavation was at an old asphalt/concrete surface.

Figure 92 and Figure 93 show details of the soil-stratigraphy, which generally consists of the following sequence: a relatively deep (20 to 25-cm thick) fill of gravelly sandy loam with modern debris (Layer Ia) atop a gravelly, crushed coralline sand layer (Layer Ib), atop of thin clayey loam (Layer Ic) resting directly on an old asphalt/concrete surface. A white PVC conduit (pipe) was observed in a very recent digging episode in the lower portion of Layer Ia (at 15 cmbs). The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. No historic-age materials were observed in this trench, except for the possible late historic/early modern asphalt/concrete surface at the base of excavation.

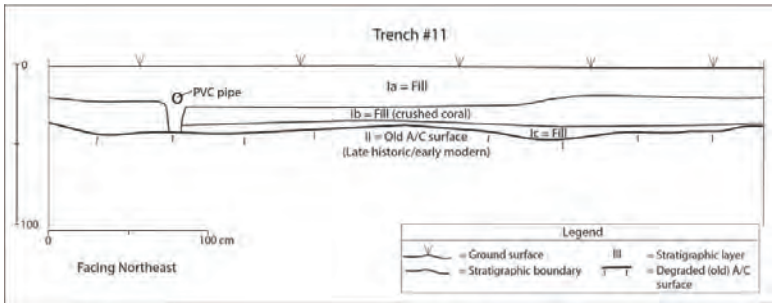

Figure 90. Stratigraphic profile of Test excavation (Trench) #11

Table 13. Summary of Soil-stratigraphic Units in Trench #11

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
Ia	0-20/25	20-25	Dark brown 10YR 3/3 sandy loam w. occasional gravel, no soil structure	Modern trash
Ib	20/25-35	10-15	Dark gray 10YR 7/2 gravelly crushed coralline sand, very hard-packed consistency; w. very pale brown 10YR 8/2 lens in upper NW portion of layer	Modern gravel base course
Ic	35-40	5	Very dark grayish brown 10YR 3/2 clayey loam; jumbled structure; some pebble- and cobble-sized rocks	Modern fill
II	40-Unknown	Unknown	Asphalt/concrete surface	Late historic/early modern surface

Figure 91. Overview of Trench #11 at base of excavation, view northwest

Figure 92. Detail of a portion of the northeast-facing profile wall at Trench #11 at base of excavation, view southwest

Figure 93. Detail of a portion of the southwest-facing profile wall at Trench #11 at base of excavation, view northeast

Trench #12

Trench #12 exposed a possible anthropogenic (agricultural) soil below an old (late historic/early modern) asphalt/concrete surface (see Figure 7).

Figure 94 and Table 14 document and depict the soil-stratigraphic layers exposed in excavation at Trench #12. Figure 95 is an overview photograph of Trench #12 at the base (completion) of excavation at a maximum depth of 140 cmbs. Bedrock consists of decomposing basalt.

Figure 96 and Figure 97 show details of the soil-stratigraphy, which generally consists of the following sequence: a relatively deep (25-cm thick) topsoil (Layer I) atop a late historic/early modern asphalt/concrete surface (Layer Ib) with base course (Layer Ic), over an organic-rich loam (Layer II) that appears to represent a non-irrigated (non-pond/lo‘i) soil, atop a clayey loam (Layer III) C-horizon.

We exposed a large piece of ferrous-metal wire in the upper portion of Layer II (Figure 98). This metal, which is not buried too deep in the loamy soil, was the only evidence of cultural material in this probable agricultural soil. The loam deposit (Layer II) is similar to one (designated Layer III) exposed in Trench #2, located just northwest of Trench #12.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. Cultural material observed in Trench #12 consisted of the old asphalt/concrete surface likely dating from the late historic/early modern period, as well as the ferrous metal in the top of Layer II. It is interesting that Trench #12 is one of the only excavations in the project area to lack the near-ubiquitous late historic/early modern layer—which always contains a high amount of crushed coral inclusions (in addition to small bits of metal, glass and ceramics). We discuss this evidence in more detail after the results section (see Significance Assessments).

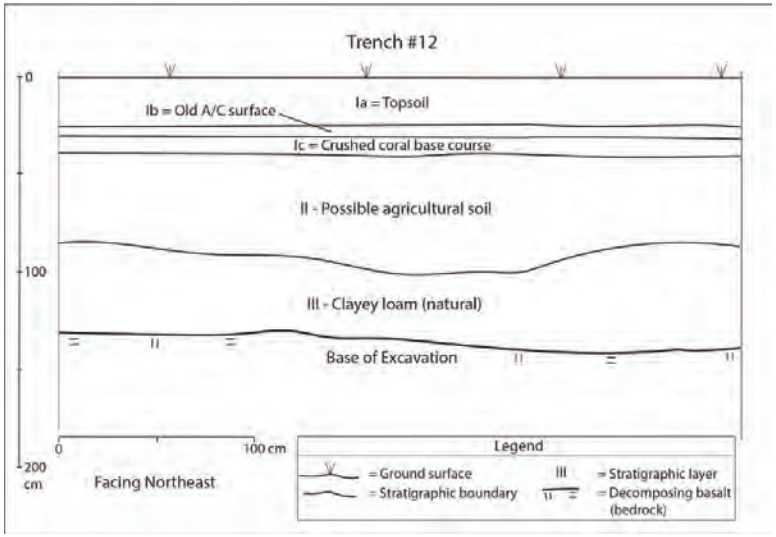

Figure 94. Stratigraphic profile of Test excavation (Trench) #12

Table 14. Summary of Soil-stratigraphic Units in Trench #12

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
Ia	0-25	25	Very dark grayish brown 10YR 3/2 loam w. soil peds & structure; loose consistency; abundant fine-large roots; few pebble-sized rocks	Modern trash
Ib	25-30	5	Old asphalt/concrete surface	Probably late historic/early modern in age
Ic	30-40	10	Crushed coralline sand base courses for old asphalt/concrete layer	Probably late historic/early modern in age
II	40-85/100	45-60	Very dark brown 10YR 2/2 loam; crumbly to platey structure w. soil peds; moderately loose consistency	Natural layer (possible agricultural soil), no cultural material; organic-rich loam; ferrous metal wire sticking out of SE profile wall in upper portion of layer
III	85/100-130/140	35-55	Very dark brown 7.5YR 2.5/3 clayey loam; extremely hard (compact) consistency; very large blocky structure	Natural layer (alluvium), no cultural material – C-horizon

Figure 95. Overview of Trench #12 at base of excavation, view northwest

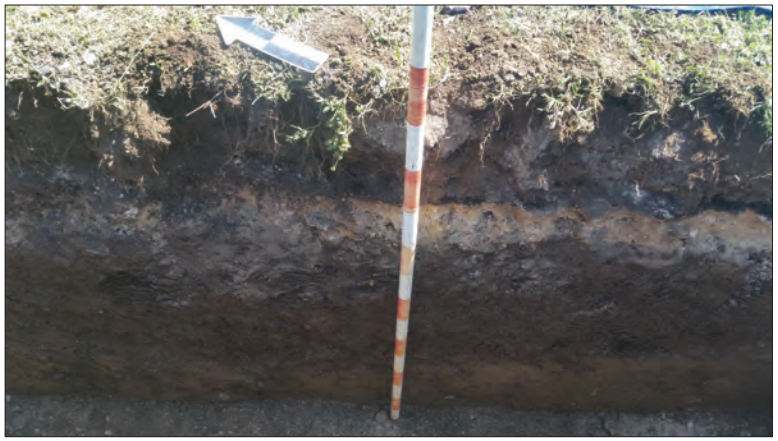

Figure 96. Detail of a portion of the southwest-facing profile wall at Trench #12 at base of excavation, view northeast

Figure 97. Detail of a portion of the northeast -facing profile wall at Trench #12 at base of excavation, view southwest; note old asphalt surface about 15 cmbs (above light-colored base course)

Figure 98. Detail of east end of Trench #12 showing ferrous metal rod sticking out of the upper portion of Layer II (note, this blurry photo is the best one we have of this important observation)

Trench #13

Trench #13 exposed a late historic/early modern fill layer with a very well-defined and -preserved basal concentration of debris (including fragments of old-style hollow tile and a lens of [out of context] asphalt-like substance) at 60-75 cmbs (see Figure 7).

Figure 99 and Table 15 document and depict the soil-stratigraphic layers exposed in excavation at Trench #13. Figure 100 is an overview photograph of Trench #13 at the base (completion) of excavation at a maximum depth of 210 cmbs. Bedrock consists of decomposing basalt.

During excavation, starting at approximately 13 cmbs, we observed a boulder near the east end of the trench (approximately 1.7 m west of the east end of the trench). Because we were uncertain as to whether this boulder was part of a buried rock structure, such as a rock wall or terrace, we carefully excavated around it and documented its eventual removal at its base (approximately 45 cmbs). In the final analysis, we did not uncover any other rocks on either the north or south side of this boulder, nor did we find any underneath it. Figure 101 and Figure 102 show the boulder in Trench #13 as it was being excavated.

Figure 103 and Figure 104 show details of the soil-stratigraphy, which generally consists of the following sequence: a typical (10 to 15-cm thick) topsoil (Layer I) atop an older topsoil (Layer II); these rest atop a late historic/early modern fill deposit (Layer II) over a relatively deep (140-150 cm thick) clayey loam C-horizon (Layer III).

Figure 105 shows a detailed view of the well-developed and –preserved debris layer at base of the Layer II sediments. This debris layer includes abundant, fragmentary hollow tile and an asphalt-like substance (that does not represent an old land surface, but rather, a dumping/filling event).

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. Cultural material observed in Trench #13 consisted of the late historic/early modern fill. Based on observations throughout the project area, this layer represents a widespread bulldozing event we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

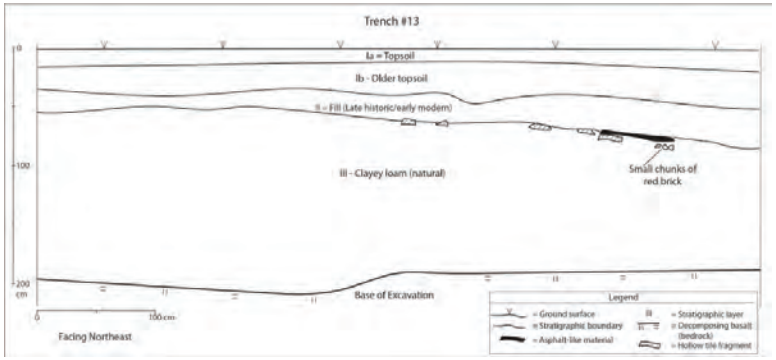

Figure 99. Stratigraphic profile of Test excavation (Trench) #13

Table 15. Summary of Soil-stratigraphic Units in Trench #13

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
Ia	0-10/15	10-15	Dark brown 10YR 3/3 sandy loam w. soil peds & structure; loose consistency	Modern trash
Ib	10/15-35/45	20-30	Dark yellowish brown 10YR 3/4 sandy loam; relatively hard (compact) consistency	Older top soil
II	35/45-50/85	10-30	Very dark grayish brown 2.5YR 3/2 clayey loam w. relatively loose consistency; jumbled structure w. no sorting	Fill layer w. late historic/early modern debris including small, non-diagnostic fragments of ferrous metal, glass, bricks, hollow tile and ceramics; also a lens of old (out of context) asphalt-like material near SE end of trench; very well-developed and –preserved debris layer at base of this sedimentary layer
III	50/85-190/210	140-150	Brown 10YR 4/3 clayey loam; hard (compact) consistency; very well-developed and widespread mottling of multiple colors (yellow-brown, orang-brown, red-brown, some black and gray, as well); mottling decreases in density with depth	Natural layer (alluvium), no cultural material – C-horizon

Figure 100. Overview of Trench #13 at base of excavation, view northwest

Figure 101. View of boulder exposed near east end of Trench #13, during excavation, view east

Figure 102. Another view of boulder in Trench #13, view west

Figure 103. Detail of a portion of northeast-facing profile wall at Trench #13, base of excavation, view southeast

Figure 104. Portion of east end of Trench #13, at base of excavation, view east; arrows indicate upper and lower limits of Layer II

Figure 105. Detail of asphalt-like material (arrow) exposed in profile wall at the base of Layer II, view northeast

Trench #14

Trench #14 exposed a relatively deep (85 to 90-cm thick) late historic/early modern fill layer with an abandoned ferrous-metal pipe near its base, overlying a natural clayey loam (below 85-100 cmbs) (see Figure 7).

Figure 106 and Table 16 document and depict the soil-stratigraphic layers exposed in excavation at Trench #14. Figure 106 is an overview photograph of Trench #14 at the base (completion) of excavation at a maximum depth of 135 cmbs. Bedrock consists of decomposing basalt.

Figure 108 and Figure 109 show details of the soil-stratigraphy, which generally consists of the following sequence: a typical (10 to 15-cm thick) topsoil (Layer I) atop a deep (down to 100 cmbs) late historic/early modern fill deposit (Layer II) over a clayey loam C-horizon (Layer III).

Figure 110 and Figure 111 show ferrous metal, red ceramic drainage pipe, glass and ceramics recovered in excavation from Layer II. As depicted in the stratigraphic profile, there was a concentration of debris in the lowermost portion of the cultural layer.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. Cultural material observed in Trench #14 consisted of the late historic/early modern fill. Based on observations throughout the project area, this layer represents a widespread bulldozing event we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

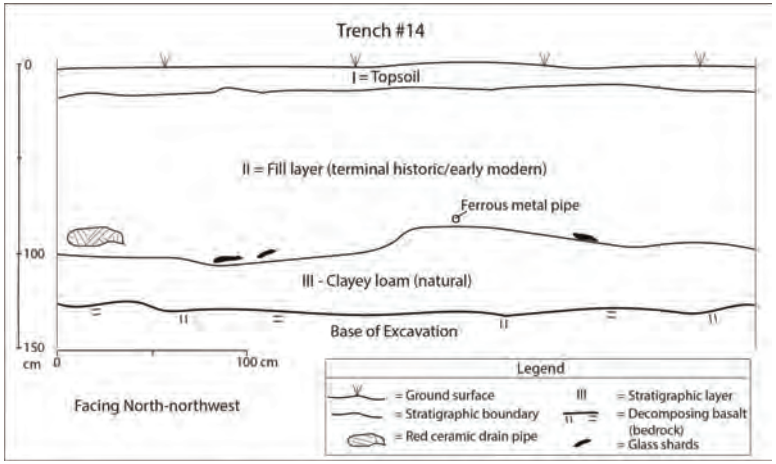

Figure 106. Stratigraphic profile of Test excavation (Trench) #14

Table 16. Summary of Soil-stratigraphic Units in Trench #14

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
I	0-10/15	10-15	Dark brown 10YR 3/3 sandy silt w. soil peds & structure; very loose consistency; very few rocks	Modern trash, but mostly free of debris
II	15/20-85/105	70-85	Very dark grayish brown 2.5YR 3/2 clayey loam w. relatively loose consistency; jumbled structure w. no sorting	Fill layer w. late historic/early modern debris including large and small pieces of ferrous metal, glass, red ceramic drainage pipe, glass shards, blue ware ceramics; material concentrated at base of layer
III	85/105-130/135	25-50	Very dark brown 2.5YR 3/2 clay; very hard (compact) consistency; some micro-inclusions of shell and lithified coral	Natural layer (alluvium), no cultural material – C-horizon

Figure 107. Overview of Trench #14 at base of excavation, view southwest

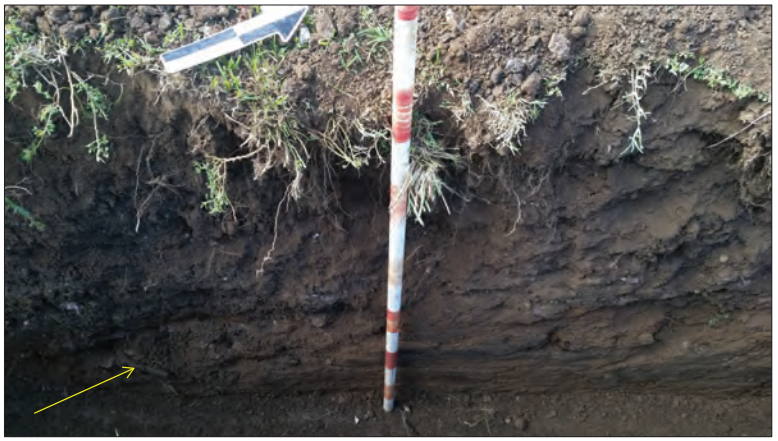

Figure 108. Detail of a portion of the southeast-facing profile wall at Trench #14 at base of excavation, view northwest; note ferrous metal bar in base of Layer II (arrow)

Figure 109. Detail of a portion of the northwest-facing profile wall at Trench #14 at base of excavation, view southeast

Figure 110. Late historic artifacts from Layer II at Trench #14

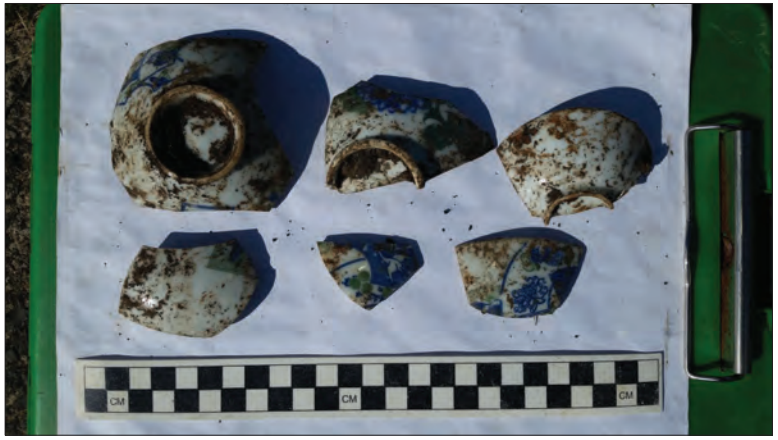

Figure 111. Close up of ceramics from Layer II at Trench #14

Trench #15

Trench #15 exposed possible pond or lo‘i kalo sediments (gray clay, Layer III) just beneath a late historic/early modern fill deposit (Layer II). The pond or lo‘i sediment layer has been partially disturbed (truncated) by previous digging activities (see Figure 7).

Figure 112 and Table 17 document and depict the soil-stratigraphic layers exposed in excavation at Trench #15. Figure 113 is an overview photograph of Trench #15 at the base (completion) of excavation at a maximum depth of 128 cmbs. Bedrock consists of undulating, decomposing basalt.

Figure 114 to Figure 117 show details of the soil-stratigraphy, which generally consists of the following sequence: a 30 to 40-cm thick series of three thin layers (topsoil, Layer Ia; an older topsoil, Layer Ib; and a modern fill, Layer Ic) atop a late historic/early modern fill deposit (Layer II) that has been disturbed (truncated) at its south end; atop a distinctive gray clay (Layer III) that appears to represent ponded sediments—perhaps lo‘i kalo, over a natural, basal clay layer (Layers IV).

The possible pond or lo‘i kalo deposit was documented in a total of five trenches (#s 6, 7, 10, 15 and 17). We discuss patterning in geomorphological strata in the Significance Assessments section following the Results.

Figure 118 show fragments of blue ware ceramics recovered from the base of Layer II.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. Cultural material observed in Trench #15 consisted of the late historic/early modern fill (Layer II). Based on observations throughout the project area, this layer represents a widespread bulldozing event we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

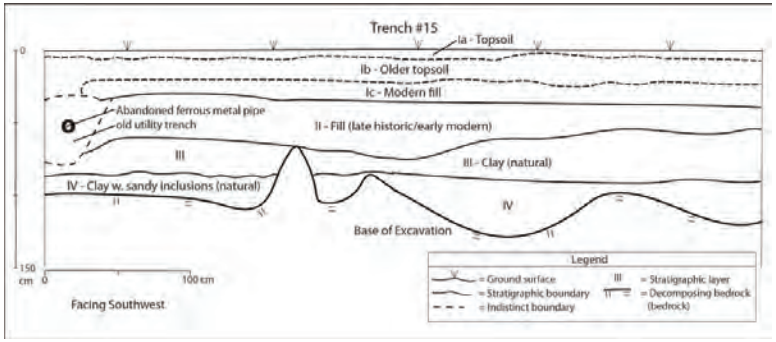

Figure 112. Stratigraphic profile of Test excavation (Trench) #15

Table 17. Summary of Soil-stratigraphic Units in Trench #15

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
Ia	0-5/10	5-10	Dark brown 10YR 3/3 sandy silt w. soil peds & structure; very loose consistency; very few rocks	Modern trash, but mostly free of debris
Ib	5/10-25	15-20	Dark brown 10YR 3/3 clayey loam; abundant very fine roots	Older topsoil, modern trash
Ic	25-35/40	10-15	Very dark brown 10YR 2/2 clayey loam	Fill with modern trash
II	35/40-55/75	20-50	Very dark grayish brown 10YR 3/2 clayey loam w. relatively loose consistency; jumbled structure w. no sorting; very gravelly w. abundant crushed coral	Fill layer w. late historic/early modern debris including small pieces of ferrous metal and glass
III	55/75-85/90	15-45	Dark gray 10YR 4/1 clay w. blocky structure; abundant micro-inclusions, rootlets, micro-mottling, and flecks of micro-charcoal	Possible pond or lo‘i kalo sediments
IV	85/90-100/128	15-45	Dark yellowish brown 10YR 4/4 clay w. sandy inclusions; blocky/crumbly structure	Natural layer, no cultural materials

Figure 113. Overview of Trench #15 at base of excavation, view northwest

Figure 114. Detail of a portion of northeast-facing profile wall at Trench #15, base of excavation, view southwest; note distinctive gray clay (possible pond or lo‘i kalo sediments)

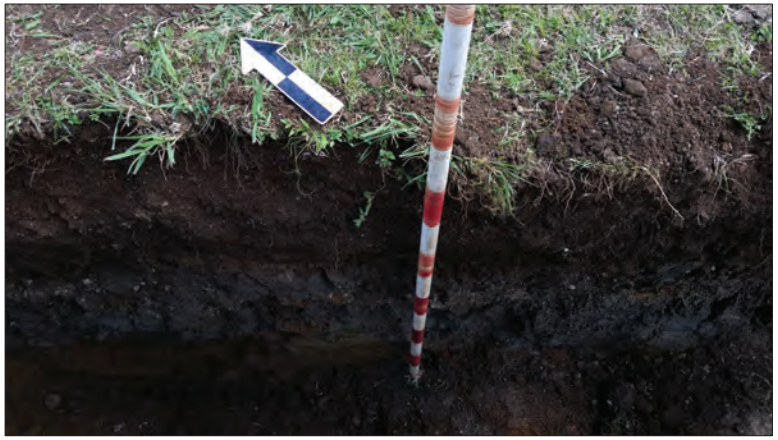

Figure 115. Detail of a portion of southwest-facing profile wall at Trench #15, base of excavation, view northeast

Figure 116. Oblique view of a portion of northeast-facing profile wall at Trench #15, facing west

Figure 117. Oblique view of a portion of southwest-facing profile wall at Trench #15, facing northwest

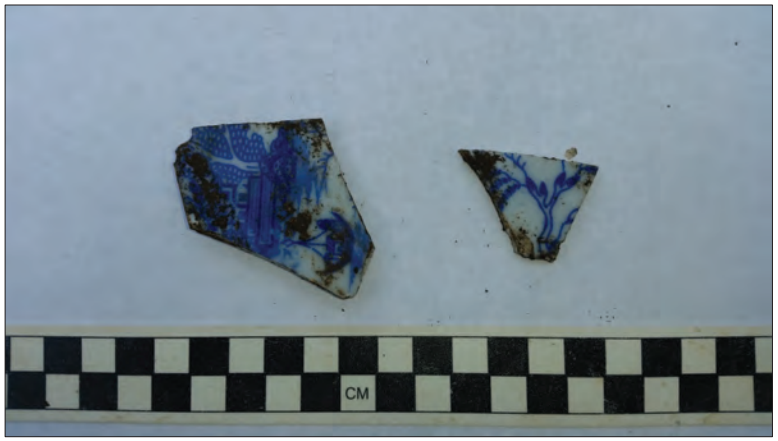

Figure 118. Ceramics recovered in base of Layer II at Trench #15

Trench #16

Trench #16 was dominated by a series of relatively deep fill deposits (Layers II & III) containing a massive amount of rock, broken up concrete, and bricks and mortar, down to 85-110 cmbs (see Figure 7). The base of excavation consists of a natural clay (Layer IV) into which a previous utility excavation was dug. The massive filled-in pit comprising most of this trench has been designated Feature 2 of Site 8033.

Figure 119 and Table 18 document and depict the soil-stratigraphic layers exposed in excavation at Trench #16. Figure 120 is an overview photograph of Trench #16 at the base (completion) of excavation at a maximum depth of 135 cmbs. Bedrock consists of decomposing basalt.

Figure 121 to Figure 124 show details of the soil-stratigraphy, which generally consists of the following sequence: a typical (10 to 15-cm thick) topsoil (Layer I) atop a late historic/early modern fill deposit (Layer II) that varies from very thin (10 cm) at the south end of the trench to thicker (50-60 cm) in the north end; beneath this, another late historic/early modern fill deposit (Layer III) contains massive amounts of rock, concrete chunks, bricks and mortar, atop the only natural layer in the trench (Layer IV, a dark gray clay).

Figure 125 shows some representative materials—including ferrous metal, a spark plug from a car or truck, fragments of glass and ceramics, and chunks of concrete slabs--recovered from Layers II and III.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. Cultural material observed in Trench #16 consisted of the late historic/early modern fill (Layers II & III). Based on observations throughout the project area, this layer represents a widespread bulldozing event we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

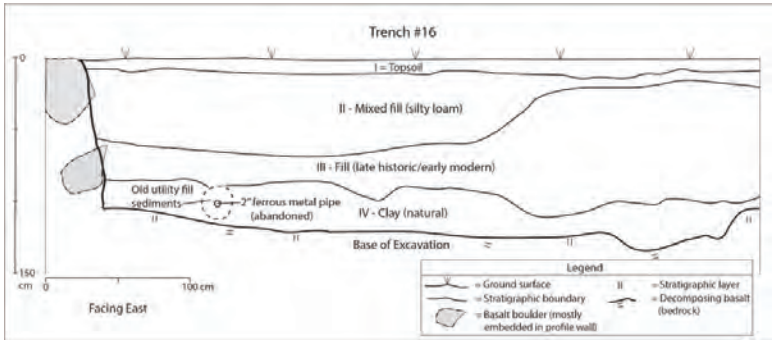

Figure 119. Stratigraphic profile of Test excavation (Trench) #16

Table 18. Summary of Soil-stratigraphic Units in Trench #16

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
I	0-10/15	10-15	Dark brown 7.5YR 3/3 sandy silt w. soil peds & structure; loose consistency; pebble- and cobble-sized rocks common	Modern trash
II	10-15/70	5-60	Dark brown 10YR 3/3 clayey loam w. moderately loose consistency; crumb structure w. no size sorting; inclusions of crushed coral; rocks and rubble abundant	Mixed fill layer w. modern and late historic/early modern debris including large and small pieces of ferrous metal, glass shards, blue ware ceramics
III	15/70-80/110	15-85	Brown 7.5YR 4/3 very gravelly sandy loam; abundant cobbles and small boulders; mottling of many colors throughout matrix	Fill layer w. late historic/early modern debris including large and small pieces of ferrous metal, glass shards, blue ware ceramics
IV	80/110-105/135	15-35	Dark gray 10YR 4/1 clay	Natural layer (alluvium), no cultural material – C-horizon; old utility trench with ferrous metal pipe dug into this layer from above

Figure 120. Overview of Trench #16 at base of excavation, view south

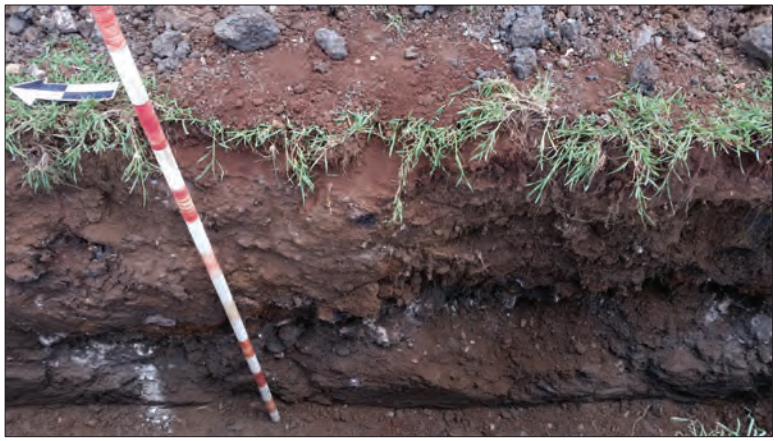

Figure 121. Detail of a portion of west-facing profile wall at Trench #16, base of excavation, view east

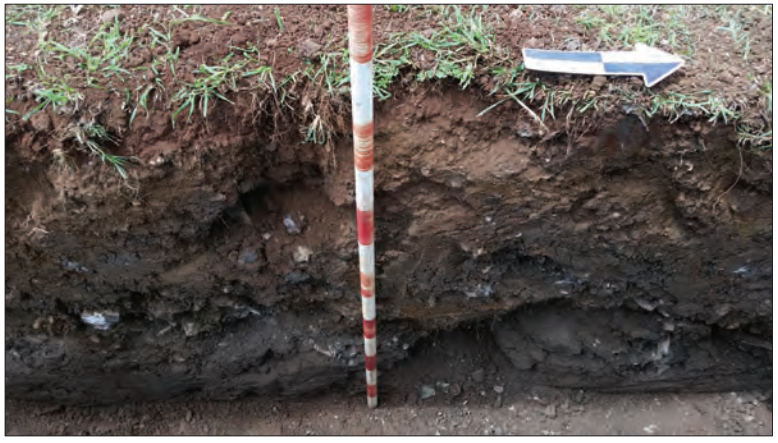

Figure 122. Detail of a portion of east-facing profile wall at Trench #16, base of excavation, view west

Figure 123. Oblique view of west-facing profile wall (south half) of Trench #16, view southeast

Figure 124. Oblique view of east-facing profile wall (south half) of Trench #16, view southwest

Figure 125. Various late historic/early modern artifacts recovered in Layer II and/or Layer III at Trench #16

Trench #17

Trench #17 exposed possible pond or lo‘i kalo sediments (gray clay, Layer III) just beneath a typical (for the current project area) late historic/early modern fill deposit (Layer II) (see Figure 7). Several animal bones, including a horse metapodial (foot bone), were recovered from the gray clay layer.

Figure 126 and Table 19 document and depict the soil-stratigraphic layers exposed in excavation at Trench #17. Figure 127 and Figure 128 are overview photographs of Trench #17 at the base (completion) of excavation at a maximum depth of 210 cmbs. Bedrock consists of decomposing basalt.

Figure 129 and Figure 130 show details of the soil-stratigraphy, which generally consists of the following sequence: a relatively deep (20 to 30-cm thick) topsoil (Layer Ia) atop an older topsoil (Layer Ib) atop a late historic/early modern fill deposit (Layer II) with abundant cobble- and small boulder-size rocks; beneath this, a distinctive gray clay (Layer III) that appears to represent ponded sediments—perhaps lo‘i kalo, sits atop a natural, basal clay layer (Layers IV).

The possible pond or lo‘i kalo deposit was documented in a total of five trenches (#s 6, 7, 10, 15 and 17). We discuss patterning in geomorphological strata in the Significance Assessments section following the Results.

Figure 131 shows some representative materials—including ferrous metal, fragments of bottle glass and ceramics—from Layer II; and some horse bones from Layer III.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. Cultural material observed in Trench #17 consisted of the late historic/early modern fill (Layer II) and some horse (foot) bones tossed in the pond or lo‘i kalo sediments. Based on observations throughout the project area, Layer II clearly represents a widespread bulldozing event we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

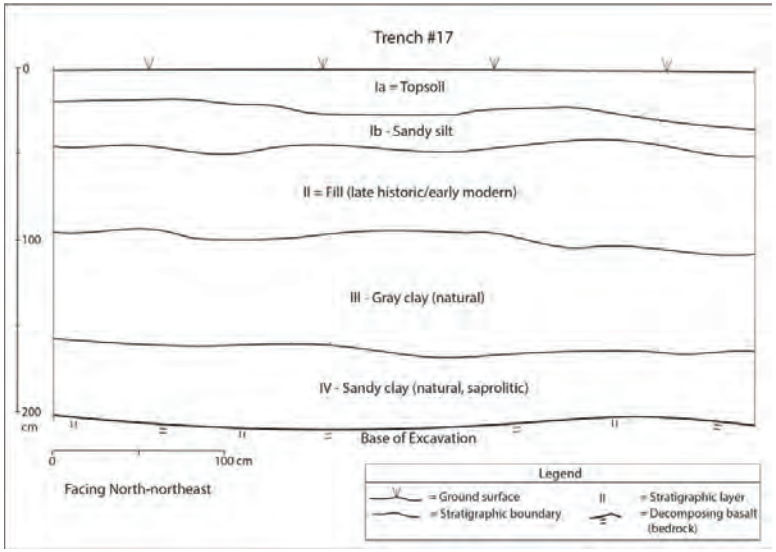

Figure 126. Stratigraphic profile of Test excavation (Trench) #17

Table 19. Summary of Soil-stratigraphic Units in Trench #17

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
Ia	0-20/30	20-30	Dark brown 7.5YR 3/3 clayey loam w. soil peds & structure; moderately loose consistency; abundant micro-inclusions of shell and lithified coral; abundant rootlets	Modern trash
Ib	20/30-45/50	15-25	Dark red 2.5YR 3/6 sandy silt; loose consistency; abundant pebble-size rocks (angular gravels); abundant rootlets	Modern trash
II	45/50-95/110	50-65	Very dark grayish brown 10YR 3/2 clayey loam; loose consistency; structureless; poorly sorted; abundant cobble- and small boulder-size rocks	Fill layer w. late historic/early modern debris including ferrous metal, glass, and blue ware ceramics
III	95/110-155/165	55-75	Dark gray 10YR 4/1 clay w. blocky structure; abundant micro-inclusions, rootlets, micro-mottling, and flecks of micro-charcoal	Possible pond or lo‘i kalo sediments
IV	155/165-205/210	35-50	Light olive brown 2.5YR 5/4 sandy clay; moderately consolidated	Natural layer (alluvium), no cultural material – C-horizon

Figure 127. Overview of Trench #17 at base of excavation, view southeast

Figure 128. Oblique view of Trench #17 at base of excavation, view south-southeast

Figure 129. Detail of a portion of north-facing profile wall at Trench #17, base of excavation, view south

Figure 130. Wider view of a portion of north-facing profile wall at Trench #17, base of excavation, view south

Figure 131. Recovered ferrous metal materials, glass fragments and animal bones, including portions of a horse metapodial (mostly complete gray-stained bone to the right)

Trench #18

Trench #18 exposed a series of natural layers including a silty alluvium (Layer III) atop a saprolitic clayey loam (Layer IV) atop sterile clay (Layer V, C-horizon), all beneath a late historic/early modern fill deposit (Layer II) (see Figure 7).

Figure 132 and Table 20 document and depict the soil-stratigraphic layers exposed in excavation at Trench #18. Figure 133 is an overview photograph of Trench #18 at the base (completion) of excavation at a maximum depth of 230 cmbs. Bedrock consists of lithified coral shelf.

Figure 134 and Figure 135 show details of the soil-stratigraphy, which generally consists of the following sequence: a typical (10 to 15-cm thick) topsoil (Layer I) atop a late historic/early modern fill deposit (Layer II); beneath this, a series of natural, clayey loams (Layers III & IV) and basal clay (Layer V), the lowermost 10-15 cm are darkened compared with the rest of this layer.

A relatively thin but conspicuous band of lithified coral fragments is located at the interface of the basal clay (Layer V) and the clayey loam that overlies it (Layer IV).

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. Cultural material observed in Trench #18 consisted of a relatively small amount of typical (for the current project area) late historic/early modern fill (Layer II), including small pieces of non-diagnostic ferrous metal, glass and ceramics. Based on observations throughout the project area, Layer II clearly represents a widespread bulldozing event we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

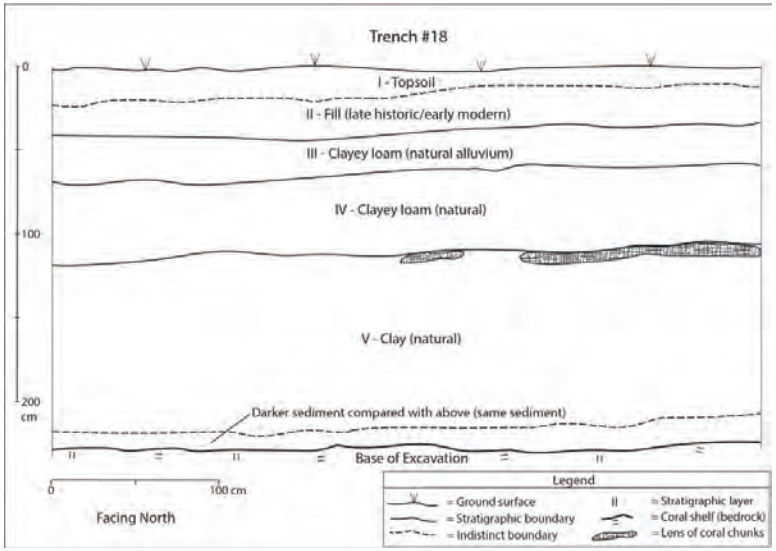

Figure 132. Stratigraphic profile of Test excavation (Trench) #18

Table 20. Summary of Soil-stratigraphic Units in Trench #18

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
Ia	0-10/20	10-20	Dark brown 7.5YR 3/3 sandy loam w. soil peds & structure; loose consistency	Modern trash
II	10/20-35/40	15-20	Dark yellowish brown 10YR 3/4 sandy loam; moderately hard consistency; occasional pebble- and cobble-size rocks	Fill layer w. late historic/early modern debris including small amounts of ferrous metal, glass, and blue ware ceramics
III	35/40-60/67	20-27	Dark reddish brown 5YR 3/3 clayey loam; moderately hard consistency; structureless	Natural layer (alluvium), no cultural material
IV	60/67-110/115	40-55	Dark reddish brown 5YR 3/3 clayey loam w. abundant saprolitic staining and decomposing nodules of basalt	Natural layer, no cultural material; abundant saprolitic mottling/staining
V	110/115-230	115-120	Dark reddish brown 5YR 3/3 clay	Natural layer, no cultural material – C-horizon

Figure 133. Overview of Trench #18 at base of excavation, view east-southeast

Figure 134. Detail view looking down into east end of Trench #18 at south-facing profile, view north

Figure 135. Detail of a portion of the north-facing profile wall at Trench #18 at base of excavation, view south

Trench #19

Trench #19 exposed a series of fill deposits down to the coral shelf (bedrock). A heavy-duty, ferrous metal utility pipe crosses the trench at approximately 75 cmbs, and cultural material recovered includes many large metal objects including machine and/or vehicle parts (see Figure 7). The massive filled-in pit comprising most of this trench has been designated Feature 3 of Site 8033.

Figure 136 and Table 21 document and depict the soil-stratigraphic layers exposed in excavation at Trench #19. Figure 137 is an overview photograph of Trench #19 at the base (completion) of excavation at a maximum depth of 150 cmbs. Bedrock consists of lithified coral shelf.

Figure 138 and Figure 139 show details of the soil-stratigraphy, which generally consists of the following sequence: a sandy silt topsoil mixed with modern debris (Layer I) atop three late historic/early modern fill deposits (Layers IIa, IIb & IIc) containing abundant large ferrous-metal objects, cobble- and small boulder-sized rocks, and other debris (e.g., chunks of concrete). These fill deposits extent all the way to the coral shelf (bedrock).

Figure 140 and Figure 141 show representative cultural materials from the Trench #19 late historic/early modern fill layers.

Trench #19 appears to document more than just a grading/bulldozing episode preceding the construction of the current Mayor Wright Homes in the middle 1950s. This trench appears to also represent a deeper filling event, perhaps a large opening, void or sinkhole in the lithified coral.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. Cultural material observed in Trench #19 consisted of abundant large ferrous-metal objects and bottle glass. Based on observations throughout the project area, Layer II, which we have sub-divided into three different depositional units (a, b and c) clearly represents a widespread bulldozing event and also filling in of a deep void or sinkhole we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

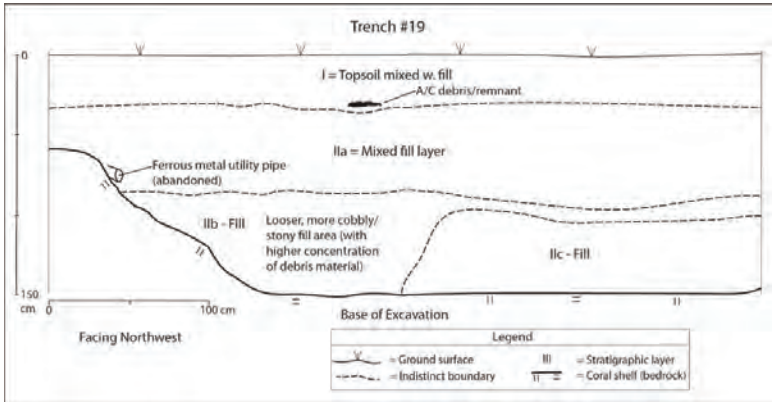

Figure 136. Stratigraphic profile of Test excavation (Trench) #19

Table 21. Summary of Soil-stratigraphic Units in Trench #19

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
Ia	0-30	30	Dark brown 10YR 3/3 sandy silt; very loose consistency; abundant modern debris	Modern trash
IIa	30-85/100	55-70	Dark brown 7.5YR 3/4 silty loam; loose consistency; abundant pebble-size rocks (angular gravels); abundant rootlets	Fill, some modern and late historic/early modern debris, including large ferrous-metal objects, bottle glass
IIb	85/100-100/150	10-65	Dark grayish brown 10YR 4/2 gravelly/rocky silty loam; loose consistency; structureless; poorly sorted; abundant cobble- and small boulder-size rocks	Fill, abundant late historic/early modern debris, including large ferrous-metal objects, bottle glass
IIc	100/110-150	40-50	Brown 7.5YR 4/4 gravelly clay loam; poorly-sorted	Fill, rocks and rubble; this layer appears to have been cut into/disturbed during by deposition of Layer IIb

Figure 137. Overview of Trench #19 at base of excavation, view north

Figure 138. Detail of a portion of the east-facing profile wall at Trench #19 at base of excavation, view west

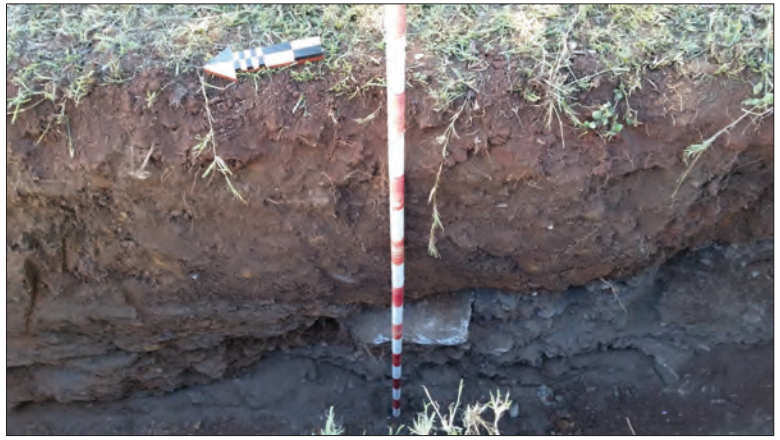

Figure 139. Detail of a portion of the west-facing profile wall at Trench #19 at base of excavation, view east

Figure 140. Ferrous-metal items, glass fragments and rubber-wrapped wire (lower right) from Trench #19 (Layer IIa and/or Layer IIb)

Figure 141. Ferrous-metal object from base of Layer IIa in Trench #19

Trench #20

Trench #20 exposed a deep deposit consisting entirely of fill extending down to the water table (see Figure 7). These fill deposits, which included a more typical (for the current project area) late historic/early modern layer (Layer II), just below the topsoil, containing abundant small pieces of degraded ferrous-metal, glass shards and ceramic sherds, also included a massive (more than 160-cm thick), poorly-sorted and jumbled layer containing a large amount of old paving stones, concrete blocks, bricks and mortar, ferrous-metal car parts, batteries, and many glass bottles. The massive filled-in pit comprising most of this trench has been designated Feature 4 of Site 8033.

Figure 142 and Table 22 document and depict the soil-stratigraphic layers exposed in excavation at Trench #20. Figure 143 is an overview photograph of Trench #20 at the base (completion) of excavation at a maximum depth of 220 cmbs. Bedrock was not reached as the water table was encountered at 220 cmbs. At this point, due in particular to the loose, rocky fill deposit that dominated most of this excavation, the trench was extremely unstable and dangerous to dig more into the water table sediments.

Figure 144 and Figure 145 show details of the soil-stratigraphy, which generally consists of the following sequence: a silty loam topsoil with abundant inclusions of small bits of shell and red brick fragments (Layer I) atop a typical (for the current project area) late historic/early modern fill with relatively small amounts of debris (Layer II) atop a massive fill layer (Layer III) with abundant material characterized in the first paragraph if this narrative.

Figure 146 shows the back dirt pile from Trench #20, which yielded a very large number of paving stones, blocks, bricks and other rocky debris.

Figure 147 and Figure 148 show representative cultural materials from the Trench #20.

Trench #20 appears to document more than just a grading/bulldozing episode preceding the construction of the current Mayor Wright Homes in the middle 1950s. This trench appears to also represent a deeper filling event, perhaps a large opening, void or sinkhole in the lithified coral.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. Cultural material observed in Trench #20 consisted of typical (for the current project area) late historic/early modern small pieces of ferrous metal, glass and ceramics (Layer II); and a massive amount of rocks, blocks, bricks, ferrous metal and glass bottles (Layer III). Based on observations throughout the project area, Layer II clearly represents a widespread bulldozing event, while Layer III derives from a major filling in of a deep void or sinkhole we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

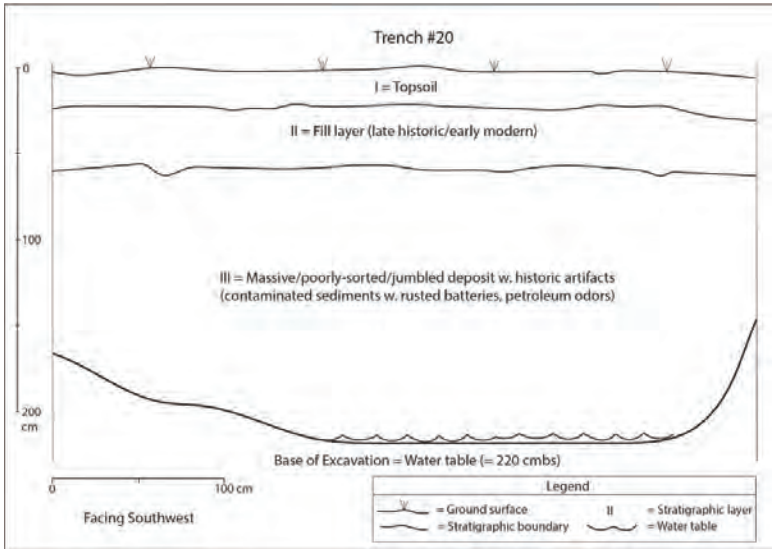

Figure 142. Stratigraphic profile of Test excavation (Trench) #20

Table 22. Summary of Soil-stratigraphic Units in Trench #20

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
I	0-20/25	20-25	Brown 10YR 4/3 silty loam w. soil peds & structure; moderately loose consistency; abundant inclusions of small bits of shell and red brick fragments	Modern trash
II	20/25-55/60	30-40	Very dark grayish brown 10YR 3/2 clayey loam; loose consistency; structureless; poorly sorted; abundant cobble- and small boulder-size rocks	Fill layer w. late historic/early modern debris including ferrous metal, glass, and blue ware ceramics
III	55/60-220	160-165	Dark olive brown 2.5YR 3/3 clayey loam, poorly-sorted, jumbled structure, full of late historic/early modern debris	Fill layer w. abundant paving stones, concrete blocks, bricks and mortar, ferrous-metal car parts, batteries, and many glass bottles

Figure 143. Overview of Trench #20 at base of excavation, view east-southeast

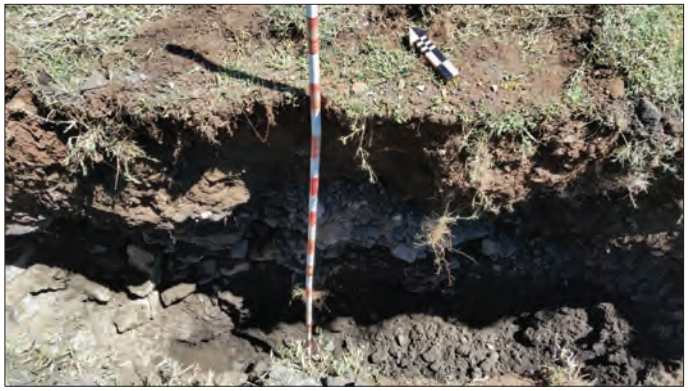

Figure 144. Detail of a portion of south-facing profile wall at Trench #20, base of excavation, view north

Figure 145. Detail of east-facing end of Trench #20, base of excavation, view west

Figure 146. Overview of back dirt pile at Trench #20 showing large number of paving stones, blocks, bricks and other rocky debris, view west

Figure 147. Overview of metal and glass material recovered at Trench #20; note, several whole glass bottles and other materials were collected and described (see Laboratory Results)

Figure 148. Detail of paving stones and bricks recovered from Trench #20

Trench #21

Trench #21 exposed a late historic/early modern fill deposit (Layer II) capping a pair of very large (approximately 3-ft diameter) drainage pipes that appear to be a relatively old (probably late historic period) construction style. Laterally equivalent with the drainage pipes is a disturbed layer (Layer IIa), which contains ferrous metal and red brick, and extends down to 135 cmbs (see Figure 7). A basal greenish gray clay (gley) layer (Layer III) appears to represent ponded or still (quiet) water sediments, but is unlikely to be a lo‘i kalo deposit due to its relative depth (top is 125-135 cmbs) compared with other examples in the project area.

Figure 149 and Table 23 document and depict the soil-stratigraphic layers exposed in excavation at Trench #21. Figure 150 and Figure 151 are overview photographs of Trench #21 at the base (completion) of excavation at a maximum depth of 225 cmbs. Bedrock was not reached as the water table was encountered at 225 cmbs. Due to the discovery of two, very large drainage structures in the west end of the trench, and uncertainty as to whether they were still servicing the housing complex, only the north half of the trench was completed down to the water table. We were reluctant, as well, to undermine these structures for fear they might break.

Figure 152 and Figure 153 show details of the soil-stratigraphy, which generally consists of the following sequence: a silty loam topsoil with abundant inclusions of small bits of shell and red brick fragments (Layer I) atop a late historic/early modern fill with relatively small amounts of debris (Layer II) atop a disturbed layer (Layer IIa) that contains a mix of sediments from both the overlying and underlying layers—and appears to be related to the installation of the very large drainage structures; the main basal unit (Layer III) is an extremely smooth, pure greenish gray clay with a “creamy” consistency. Within this clay layer, near its base, is a small pocket of cinder (Layer IV). At the water table, another thin layer (Layer V) consists of coarse sand and cinder mixed together.

Trench #21 appears to document more than just a grading/bulldozing episode preceding the construction of the current Mayor Wright Homes in the middle 1950s. This trench also appears to document a deeper filling event associated with the installation of the (still intact) drainage structures under Layer II.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. Cultural material observed in Trench #21 consisted of typical (for the current project area) late historic/early modern small pieces of ferrous metal, glass and ceramics (Layer II); and the drainage structures and laterally-equivalent fill (Layer IIa). Based on observations throughout the project area, Layer II clearly represents a widespread bulldozing event. Layer IIa is probably penecontemporaneous with the Layer II grading. We discuss this evidence in more detail after the results section (see Significance Assessments).

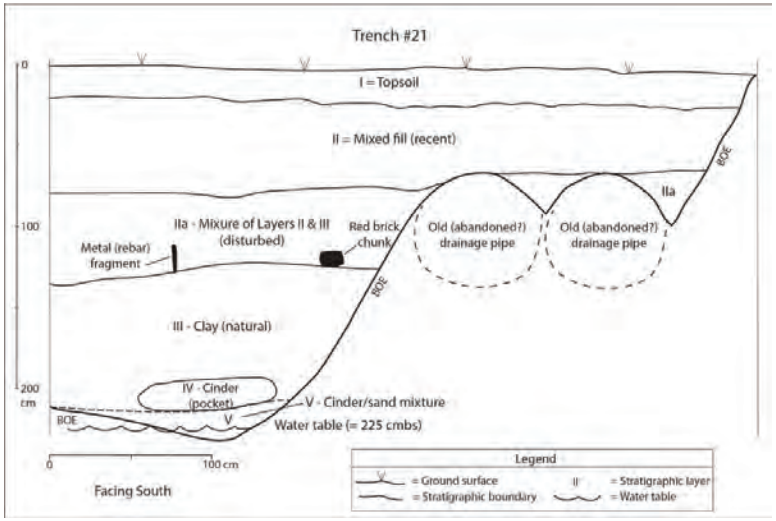

Figure 149. Stratigraphic profile of Test excavation (Trench) #21

Table 23. Summary of Soil-stratigraphic Units in Trench #21

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
I	0-20	20	Brown 10YR 4/3 silty loam w. soil peds & structure; moderately loose consistency; abundant inclusions of small pieces of shell & red brick	Modern trash
II	20-60/80	40-60	Reddish brown 5YR 4/4 silty clay; moderately loose consistency; crumbly structure; abundant inclusions of crushed coral	Fill layer w. late historic/early modern debris including ferrous metal, glass, and blue ware ceramics
IIa	60/80-125/135	42-55	Mixture of Layers II & III	Layer of disturbance, digging/ filling, associated w. adjacent drainage infrastructure; metal bar and red brick in base of layer
III	125/135-210/215	80-85	Greenish gray [Gley I 5/10Y (5/1)] clay; very smooth, very "creamy" consistency; pure clay with no inclusions	Possible pond sediments – unclear if this may be lo'i kalo sediments
IV	195-210	15	Multi-colored cinder; loose, structureless lenses and pockets	Natural layer, no cultural material; cinder occurs as pocket within Layer III
V	210-225	15	Mixture of coarse sand and cinder; loose consistency	Thin layer of natural coarse sand and cinder at base of Layer III

Figure 150. Overview of Trench #21 at base of excavation, view northwest; note, arrows at far end indicate location (top surfaces) of subsurface drainage pipes

Figure 151. Overview of Trench #21 at base of excavation, view southeast; note, arrows at near end indicate location (top surfaces) of subsurface drainage pipes

Figure 152. Portion of Trench #21 at base of excavation, view east

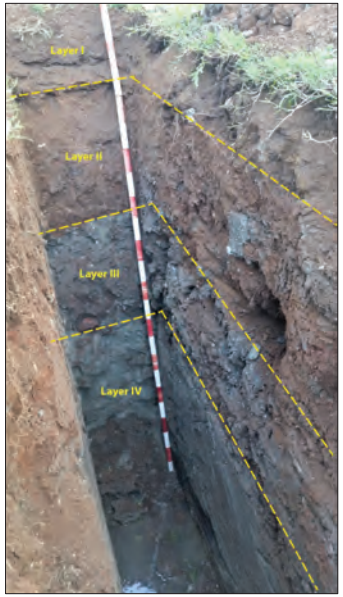

Figure 153. Portion of Trench #2, base of excavation, view southeast; layers and approximate boundaries are annotated; note, smearing of sediments by backhoe bucket can be seen in a few places

Trench #22

Trench #22 exposed a typical (for the current project area) late historic/early modern deposit (Layer II) over another fill containing an abandoned ferrous-metal pipe; the lower half of the trench exposed a deep deposit of natural, clayey loam alluvium (see Figure 7).

Figure 154 and Table 24 document and depict the soil-stratigraphic layers exposed in excavation at Trench #22. Figure 155 is an overview photograph of Trench #22 at the base (completion) of excavation at a maximum depth of 180 cmbs. Bedrock consists of lithified coral shelf.

Figure 156 and Figure 157 show details of the soil-stratigraphy, which generally consists of the following sequence: a relatively deep (20 to 30-cm thick) topsoil (Layer I) atop a typical (for the current project area) late historic/early modern fill deposit (Layer II); another, relatively thin fill deposit of clean sandy loam with abundant inclusions of crushed coral (Layer III) is directly below this; the basal unit, a clayey loam (Layer IV) of alluvium, represents the C-horizon.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. Cultural material observed in Trench #22 consisted of a relatively small amount of typical (for the current project area) late historic/early modern fill (Layer II), including small pieces of non-diagnostic ferrous metal, glass and ceramics. Based on observations throughout the project area, Layer II clearly represents a widespread bulldozing event we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

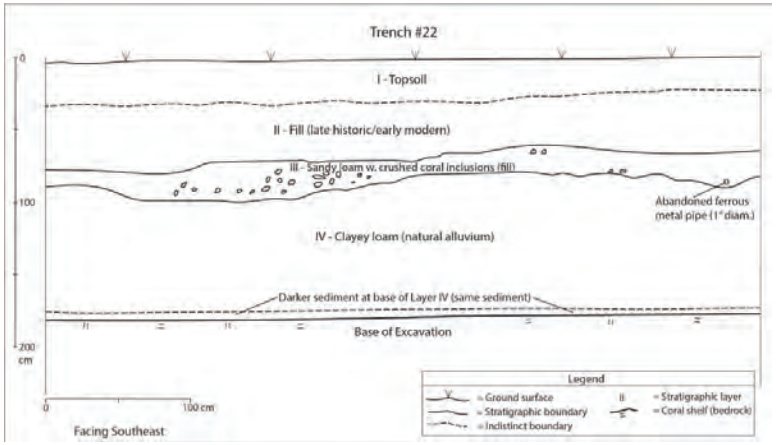

Figure 154. Stratigraphic profile of Test excavation (Trench) #22

Table 24. Summary of Soil-stratigraphic Units in Trench #22

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
I	0-20/30	20-30	Dark brown 10YR 3/3 sandy loam w. soil peds & structure; moderately loose consistency	Modern trash
II	20/30-65/75	35-50	Dark yellowish brown 10YR 3/4 sandy loam; moderately hard (compact) consistency; some pebble- and cobble-size rocks	Fill layer w. late historic/early modern debris including ferrous metal, glass, and blue ware ceramics
III	65/75-85/100	10-25	Dark brown 10YR 3/3 sandy loam w. abundant crushed coral inclusions; abundant angular (gravel-shaped) pebbles; moderate to loose consistency	Fill layer, no cultural material except for a small (1-inch diam.) ferrous-metal pipe at base of layer
IV	85/100-150	50-65	Dark reddish brown 5YR 3/3 clayey loam; moderate to hard consistency; structureless; includes saprolitic staining; lowermost 5-10 cm of sediment is darkened compared with rest of layer	Natural layer (alluvium), no cultural material – C-horizon

Figure 155. Overview of Trench #22 at base of excavation, view southwest

Figure 156. Detail of a portion of northwest-facing profile wall at Trench #22, base of excavation, view southeast

Figure 157. Detail of a portion of southeast-facing profile wall near north end of Trench #22, base of excavation, view north

Trench #23

Trench #23 exposed a relatively shallow (65-cm deep) deposit that consisted of nearly exclusively disturbed sediments, and included live utilities (a 3-inch diameter copper pipe of unknown function and a pair of older, supposedly abandoned communications wires still retaining low voltage) (see Figure 7). A very thin (5-10 cm thick) band of natural sediments (cinder and clay) was exposed at the bottom of the excavation, in the north end of trench.

Figure 158 and Table 25 document and depict the soil-stratigraphic layers exposed in excavation at Trench #22. Figure 159 shows live (low voltage) electrical wires broken during excavation of the upper layer at Trench #23 (note, excavation of this trench was temporarily suspended until utility repair could be completed).

Figure 160 and Figure 161 are overview photographs of Trench #23 at the base (completion) of excavation at a maximum depth of 65 cmbs. Bedrock consists of lithified coral shelf.

Figure 162 shows details of the soil-stratigraphy, which generally consists of the following sequence: a mixture of modern fill and loamy topsoil (Layer I) that varies substantially in depth from very shallow at its south end—where it sits atop an older asphalt/concrete surface, to deeper in the middle—where it rests atop the coral shelf (bedrock). At the north end of the trench, a thin band of cinder mixed with clay rests directly below the modern fill and atop the bedrock. There is no evidence of the ubiquitous late historic/early modern fill deposit in Trench #23.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. Other than modern debris and utilities, no cultural material was observed in Trench #23.

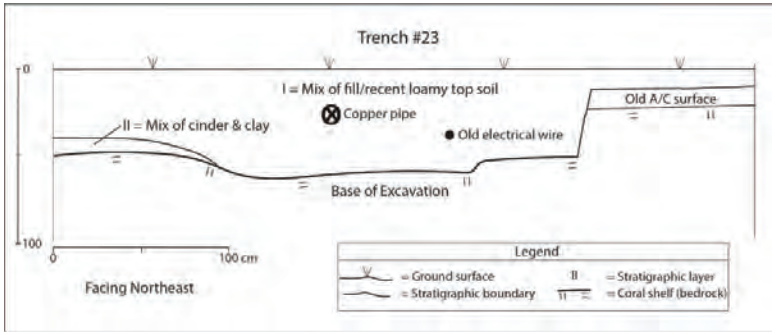

Figure 158. Stratigraphic profile of Test excavation (Trench) #23

Table 25. Summary of Soil-stratigraphic Units in Trench #23

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
I	0-10/65	10-65	Dark brown 10YR 3/3 sandy silt w. soil peds & structure; very loose consistency; abundant rocks of all sizes including a few small boulders	Disturbed fill layer with modern trash
II	40-50	10	Mixture of clay and cinder: (1) multi-colored cinder; loose, structureless; (2) Dark reddish-brown 5YR 3/2 extremely hard clay; no inclusions	Natural (remnant) sediment

Figure 159. Live electrical wires broken during excavation of upper layer at Trench #23; note, excavation of this trench was temporarily suspended until utility repair could be completed

Figure 160. Overview of Trench #23 at base of excavation, view southwest

Figure 161. Overview of Trench #23 at base of excavation, view northeast

Figure 162. Detail of a portion of northwest-facing profile wall at Trench #23, base of excavation, view southeast

Trench #24

Trench #24 exposed a natural alluvium (Layer III) in the lower two-thirds of its deposit (see Figure 7). A typical (for the current project area) late historic/early modern deposit (Layer II) was capped by a narrow (5-15 cm thick), discontinuous layer of loose beach sand (Layer Ic), the only such sand in project area.

Figure 163 and Table 26 document and depict the soil-stratigraphic layers exposed in excavation at Trench #24. Figure 164 and Figure 165 are overview photographs of Trench #24 at the base (completion) of excavation at a maximum depth of 200 cmbs. Bedrock consists of undulating, decomposing basalt.

Figure 166 shows details of the soil-stratigraphy, which generally consists of the following sequence: a typical topsoil (Layer Ia) atop an older topsoil (Layer Ib) over a discontinuous, relatively thin (5 to 15-cm) loose beach-sand deposit; this deposit is described in more detail below. A typical (for the current project area) late historic/early modern fill deposit (Layer II) was located below the beach-sand layer. The basal unit, a silty clay (Layer III) alluvium, represents the C-horizon.

Figure 167 and Figure 168 show the sand layer during exposure by hand excavation. The layer was first spotted at approximately 40-45 cm below ground surface. At this point, we stopped machine excavation, and used a flat-edged shovel to skim off the sand a few centimeters at a time. The layer was more or less completely removed by 55-60 cmbs. As noted, this was the only beach sand observed in the project area. It contained small amounts of small marine shells representing naturally-occurring material (not midden), and a few small, smooth (waterworn) pebbles, which are also a natural (rather than artificial) component of the layer.

The table below includes detailed soil-sedimentary descriptions for each layer, including depths below ground surface, range of depths, and cultural materials, if any. Cultural material observed in Trench #24 consisted of a relatively small amount of typical (for the current project area) late historic/early modern fill (Layer II), including small pieces of non-diagnostic ferrous metal and glass. Based on observations throughout the project area, Layer II clearly represents a widespread bulldozing event we believe occurred right before the middle 1950s construction of the Mayor Wright Homes. We discuss this evidence in more detail after the results section (see Significance Assessments).

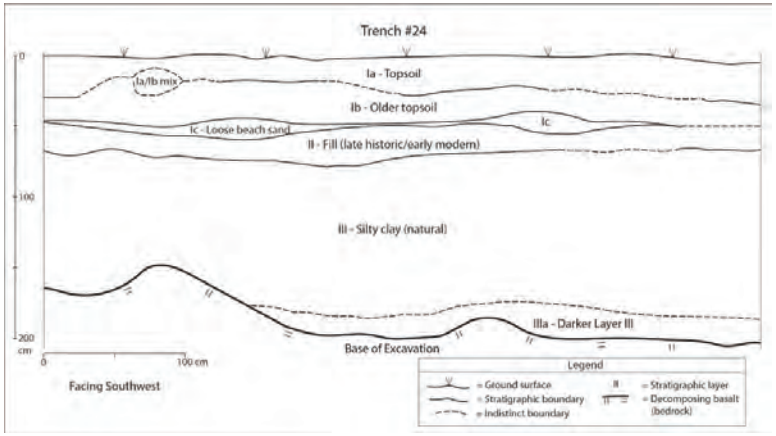

Figure 163. Stratigraphic profile of Test excavation (Trench) #24

Table 26. Summary of Soil-stratigraphic Units in Trench #24

Layer	Depth (cmbs)	Thickness (cm)	Sedimentary Description	Cultural Material/Comments
Ia	0-15/30	15-30	Dark brown 7.5YR 3/2 clayey loam w. soil peds & structure; loose consistency; abundant micro-inclusions of shell and lithified coral; abundant rootlets	Modern trash
Ib	15/30-40/50	15-30	Darker version of same sediment description as above (Layer Ia)	Modern trash
Ic	40/50-50/60	5-15	Very pale brown 10YR 7/4 loose beach sand w. small marine shells (not midden), few small smooth (waterworn) pebbles (not artifacts)	Fill layer component
II	50/60-65/80	15-25	Very dark grayish brown 10YR 3/2 (looks white or yellow in the field) clay; hard consistency; structureless; poorly sorted; abundant small inclusions of lithified coral & shell	Fill layer w. late historic/early modern debris including small amount of non-diagnostic ferrous metal and glass
III	65/80-150/175	80-120	Brown 7.5YR 4/4 (looks orange in the field) silty clay; well-sorted, medium-hard consistency; clods and small blocky structure; abundant multi-colored (saprolitic) mottling	Natural layer (alluvium), no cultural material – C-horizon
IIIa	175/185-200	15-25	Darker basal layer of same sediments as Layer III; very dark brown 7.5YR 2.5/3	Natural layer (alluvium), no cultural material – C-horizon

Figure 164. Overview of Trench #24 at base of excavation, view southeast

Figure 165. Oblique view of Trench #24 at base of excavation, view northwest

Figure 166. Detail of a portion of north-facing profile wall at Trench #24, base of excavation, view south

Figure 167. Top of Layer Ic (loose beach sand) exposed in this portion of Trench #24 at approximately 45-50 cm below ground surface; this layer was removed by hand using a flat-edged shovel

Figure 168. Lowermost remannts of Layer Ic (loose beach sand) remaining in Trench #24 at approximately 55 cmbs after removal by hand excavation using a flat-edged shove

LABORATORY RESULTS

As described in the Methods section, we collected historic artifacts that retained chronologically-diagnostic information, such as glass bottles with maker's marks and other indicators of their place and/or time of manufacture. As summarized in Table 27, a total of eighteen (18) glass bottles were collected for description and analysis from four (4) excavation units (Trench #s 14, 17, 19 and 20). Theo Monahan assisted Chris Monahan in all analysis and research on these artifacts. The bottles we were able to identify indicate earliest dates of manufacture were no earlier than the 1920s. The latest (Catalogue #17) is form the 1950s. All of the glass bottles are depicted with photographs that follow the table. Photograph numbers for each catalogue number are listed in the table.

Table 27. Accessioned Glass Bottles from Mayor Wright Homes Project Area Excavations

Cat. #	Trench #	Provenience	Description and Comments
1	20	Site 8033, Feature 4, 60-200 cmbs	Clear glass, complete, medicine bottle, with stylized number "8" on bottom; Figure 169
2	20	Site 8033, Feature 4, 60-200 cmbs	Clear glass, complete, perfume bottle; with letter "K" embossed on bottom; **matches the Knox Glass Bottle Co., manufactured from 1932-1968;** Figure 169
3	20	Site 8033, Feature 4, 60-200 cmbs	Short, thick, clear glass, complete, medicine bottle w. screw top; stamped on bottom are stylized letters GC with numbers 2714 and 7; Figure 170
4	20	Site 8033, Feature 4, 60-200 cmbs	"OK Honolulu Soda Works" bottle, clear, complete; automated bottle making (ABM) method; **dates from no earlier than 1920s;** Figure 171
5	20	Site 8033, Feature 4, 60-200 cmbs	Clear glass, complete, medicine bottle, with "UNAMOTO" or "NOMOTO" on bottom (difficult to read); Figure 172
6	20	Site 8033, Feature 4, 60-200 cmbs	Broken, clear soda bottom (base missing) with "Kist" embossed on side; Figure 172 and Figure 173
7	20	Site 8033, Feature 4, 60-200 cmbs	Clear glass, complete, soda bottle, automated bottle making (ABM) method; "Malolo Soda Works, Honolulu, T.H." written on side at base; stamped with an "M" in a triangle on the bottom; stylized (cursive) "Malolo" embossed on neck; Figure 172 and Figure 174
8	20	Site 8033, Feature 4, 60-200 cmbs	"OK Honolulu Soda Works" bottle, clear, complete; automated bottle making (ABM) method; **dates from no earlier than 1920s;** Figure 175
9	20	Site 8033, Feature 4, 60-200 cmbs	"Aloha Soda Works" bottle, clear, complete; automated bottle making (ABM) method; Figure 175 and Figure 176
10	20	Site 8033, Feature 4, 60-200 cmbs	Clear glass, complete, perfume bottle; with "Colgate and Company Perfumers, New York" on bottom; stopper top; Figure 177
11	14	Site 8033, Lower Layer II, 50-100 cmbs	Clear glass, possible alcohol bottle, complete; Japanese characters on side; Figure 177 and Figure 178

Cat. #	Trench #	Provenience	Description and Comments
12	14	Site 8033, Lower Layer II, 50-100 cmbs	"OK Honolulu Soda Works" bottle, clear, complete; automated bottle making (ABM) method; **dates from no earlier than 1920s;** Figure 179
13	20	Site 8033, Feature 4, 60-200 cmbs	Clear glass, complete, milk bottle, "WAIALAE NUI FARM" with "W" on bottom; Figure 179, Figure 180 and Figure 181
14	20	Site 8033, Feature 4, 60-200 cmbs	Green glass, complete, "Sunshine Soda" company with "SSS" on bottom; Figure 179 and Figure 182
15	17	Site 8033, Layer II	Clear glass, complete bottle with small metal stopper; Figure 183
16	17	Site 8033, Layer II	Green glass, base, wine bottle; Figure 184
17	19	Site 8033, Feature 3	Small, orange-brown bottle with "MUTH, BUFFALO, PAT. PEND." on bottom; **matches 1950s miniature "beer bottle" salt and pepper shakers;** original came with a metal screw-on cap through which salt and pepper poured out; Figure 185 and Figure 186
18	20	Site 8033, Feature 4, 60-200 cmbs	Large, orange-brown glass bottle, either beer or spirits with Japanese writing; "T.G.C" and the "3" on the bottom; Figure 187, Figure 188 and Figure 189

Figure 169. Catalogue #s 1 (left) and 2 (right)

Figure 170. Catalogue #3, side view (top) and bottom detail (bottom)

Figure 171. Catalogue #4, overall (top) and bottom detail (bottom)

Figure 172. Catologue #s 5 (left), 6 (center) and 7 (right)

Figure 173. Detail of embossed body of Catologue # 6 labelled "Kist"

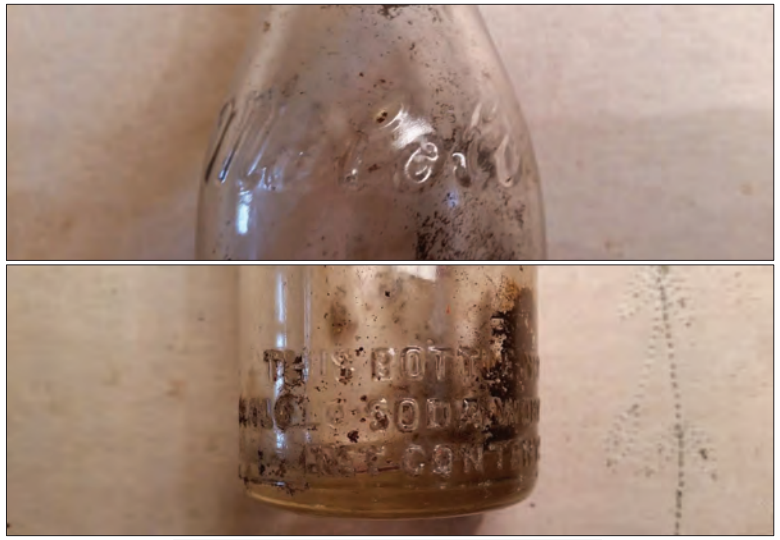

Figure 174. Catalogue #7, neck (top), side base (middle) and bottom (bottom)

Figure 175. Catalogue #s 8 (left) and 9 (right)

Figure 176. Detail of bottom of Catalogue #9

Figure 177. Catalogue #s 10 (right) and 11 (left)

Figure 178. Detail of Catalogue #11

Figure 179. Catalogue #s 12 (left), 13 (center) and 14 (right)

Figure 180. Detail of Catalogue #13

Figure 181. Detail of bottom of Catalogue #13

Figure 182. Detail of bottom of Catalogue #14

Figure 183. Catalogue #15

Figure 184. Catalogue #16

Figure 185. Catalogue #17

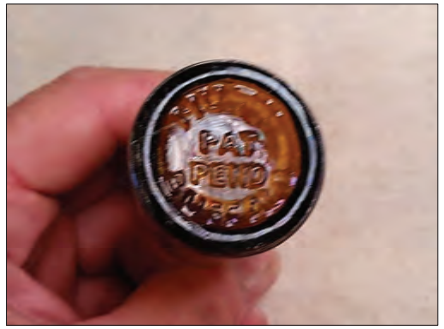

Figure 186. Base of Catalogue #17

Figure 187. Catalogue #18

Figure 188. Detail, neck of Catalogue #18

Figure 189. Bottom of Catalogue #18

CONCLUSION

On behalf of Hunt Companies, Inc., TCP Hawai'i, LLC, has completed the first part of Archaeological Inventory Survey (AIS) work in an approximately 15.3-acre project area in Honolulu in support of the Mayor Wright Homes Redevelopment Project (TMK [1] 1-7-029:003). As described below, *there will be some additional AIS testing when the existing buildings in the project area are demolished*. The landowner is the Hawai'i Public Housing Authority (HPHA).

For the purposes of this AIS, the Area of Potential Effect (APE), synonymous with "project area" in this report, is the same as the physical footprint of the TMK parcel. We use the term "direct APE" throughout this report to refer specifically to the APE for archaeological resources (to distinguish it from the broader APE for architectural resources that may include more indirect effects).

The direct APE/project area is bounded by N. King St., Pua Lane, Vineyard Blvd., and Liliha St. in a thoroughly urbanized/developed part of Honolulu just west of the channelized lower Nu'uanu Stream. Iwilei is just makai (seaward) of the project area; Kalihi and Kapālama are to the 'Ewa (west) side; Chinatown and the old center of Honolulu are located to the Diamond Head (east) side.

As documented in Table 28, and graphically depicted in Figure 35 (above, at the start of the Fieldwork Results section), we identified four (4) historic properties: State Inventory of Historic Places (SIHP) # 50-80-14-8033, SIHP # 50-80-14-8034, SIHP # 50-80-14-8035, and SIHP # 50-80-14-8036.

- **Site 8033**—exposed in nearly all (21 of 24) of the trenches—is a subsurface layer, consisting of four (4) features. *Feature 1* is the widespread layer, itself. Trench #12, along the southwest boundary of the project area, is the only excavation where this subsurface layer is entirely missing (in the other two, Trench #s 11 and 23, this layer may have been removed by recent/modern disturbance). *Features 2 through 4* are filled-in garbage/debris pits emanating from the base of the subsurface layer (in Trench #s 16, 19 and 20, respectively). This site represents a project-area wide grading/bulldozing and pit-filling (dumping) event that occurred just prior to, and in preparation for, the construction of the Mayor Wright Homes residential complex (circa 1952-3). The site covers an area of approximately 14.0 acres. It is a subsurface layer with a great deal of variation in terms of its depth and thickness; it generally occurs between 20-30 cm below ground surface (upper limit of layer), with some trenches exposing this layer as shallow as 10-15 cm below ground surface (upper limit of layer), down to an average of 40-60 cm below ground surface (lower limit of layer), with some variation from this. Average thickness of this layer is approximately 30-50 cm.

- **Site 8034**—exposed in several trenches in the mauka (inland) portion of the project area (Trench #s 6, 7, 10, 15 & 17), is a subsurface layer consisting of gray clay interpreted as pond sediments, most likely the remnants of traditional Hawaiian lo'i kalo (irrigated, pond-field, taro cultivation). There is abundant historical evidence that, in pre-Contact times—before the development of Honolulu Harbor and in the early nineteenth century and subsequent urbanization—the project area represented a prime location for traditional Hawaiian subsistence cultivation of taro; and such activities continued in some portions into the early twentieth century. The upper portion of this sedimentary layer—and this site—appear to have been partially truncated by the grading/bulldozing. This site is discontinuous in its areal distribution, and its overall area is unknown. It is a subsurface layer with a great deal of variation in terms of its depth and thickness; it generally occurs between 20-65 cm below ground surface (upper limit of layer), with one trench (Trench #17) exposing this layer as deep as 95 cm below ground surface (upper limit of layer), down to an average of 60-90 cm below ground surface (lower limit of layer), with one deeper instance (Trench #17). Average thickness of this layer is approximately 40 cm.

- **Site 8035** consists of two features: Feature 1, an asphalt or concrete surface (exposed in Trench #11) dating from the late historic/early modern period. This old surface starts at 40 cm below the ground surface, and extends to an unknown depth (probably 10-15 cm). We do not know its area; and Feature 2, another (different) asphalt surface (exposed in Trench #12) dating from the late historic/early modern period. This old surface is located between 25-40 cm below the ground surface. We do not know its area.

- **Site 8036** is a set of very large drainage pipes (exposed in Trench #21) also dating from the late historic/early modern period. These large pipes are located between 75-140 cm below the ground surface. They extend to the north and south and unknown distance.

We conclude this AIS report by first presenting our Significance Assessments for these historic properties; next, we discuss the Project Effect and Mitigation Recommendations (see Table 28).

Significance Assessments (Evaluations)

Because this project is reviewable under both State and Federal laws, we include consideration of *both* State and Federal significance criteria (evaluation), which are very similar in content and purpose.

In accordance with State administrative rules (cf. HAR § 13-284-6), significance of a historic property is evaluated by first establishing that it possesses "integrity of location, design, setting, materials, workmanship, feeling, and association," and, second, that it meets one or more of the following criteria:

a. Be associated with events that have made an important contribution to the broad patterns of our history;
b. Be associated with the lives of persons important in our past;
c. Embody the distinctive characteristics of a type, period, or method of construction; represent the work of a master; or possess high artistic value;
d. Have yielded, or is likely to yield, information important for research on prehistory or history; or
e. Have an important value to the native Hawaiian people or to another ethnic group of the state due to associations with cultural practices once carried out, or still carried out, at the property or due to associations with traditional beliefs, events or oral accounts--these associations being important to the group's history and cultural identity.

Under Federal standards, site significance was evaluated with regard to the criteria in the Code of Federal Regulations (CFR), Title 36, Part 60.4, as follows:

> The quality of significance in American history, architecture, archeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:
>
> A. That are associated with events that have made a significant contribution to the broad patterns of our history; or
> B. That are associated with the lives of persons significant in our past; or
> C. That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
> D. That has yielded or may be likely to yield information important in prehistory or history.

Table 28. Historic Properties in Project Area, Significance Assessments and Recommended Mitigation

SIHP #*	Formal Type	Function	Age	Sign. Assess.**	Recomm. Mitig.***
8033	Subsurface cultural layer (4 features)	Site preparation for construction of Mayor Wright Homes	1952-3	d, D	NFW
8034	Subsurface loʻi kalo sedimentary layer (remnant)	Traditional, Hawaiian, irrigated taro pond-fields	Pre-Contact to historic period	d, D	NFW
8035	Subsurface asphalt/concrete surface (2 features)	Pavements, driveways or other similar surfaces	Early 20th century	d, D	NFW
8036	Pair of buried (subsurface) drainage pipes	Major drainage infrastructure	Early to middle 20th century	d, D	NFW

* Complete, formal State Inventory of Historic Places (SIHP) # is preceded by "50-80-14."
** Significance Assessments: lower case letters = Hawaiʻi State criteria; upper case letters = Federal criteria
*** Recommended Mitigation: NFW = No further (historic-preservation or archaeological) work

SIHP # 50-80-14-8033 is evaluated as significant under criteria d (State) and D (Federal) for its intrinsic informational value to research on the history of middle twentieth century urbanization in Honolulu, in particular, the advent of major public housing initiatives—and construction of the Mayor Wright Homes—by the State of Hawaiʻi.

SIHP # 50-80-14-8034 is evaluated as significant under criteria d (State) and D (Federal) for its intrinsic informational value to research on the history of traditional Hawaiian agricultural practices in pre-Contact times as well as the later, historic period in Honolulu and the lower Nuʻuanu flood plain west of the stream.

SIHP # 50-80-14-8035 is evaluated as significant under criteria d (State) and D (Federal) for its intrinsic informational value to research on the history of early to middle twentieth century urbanization in Honolulu, in particular, land use in the project area prior to the construction of the Mayor Wright Homes.

SIHP # 50-80-14-8036 is evaluated as significant under criteria d (State) and D (Federal) for its intrinsic informational value to research on the history of middle twentieth century urbanization in Honolulu, in particular, the advent of major public housing initiatives—and construction of the Mayor Wright Homes—by the State of Hawaiʻi.

Project Effect and Mitigation Recommendations

Sufficient documentation of the four (4) historic properties identified in this AIS report has now been completed, and TCP Hawaiʻi recommends no further archaeological or historic preservation work is needed for these four sites.

During consultation with the SHPD-Archaeology Branch, the issue of archaeological testing (excavation) under the existing buildings—once they are demolished (they are currently occupied by hundreds of residents)—was raised as a possible, additional round of AIS fieldwork (e.g., as a Supplemental AIS report). Given the totality of evidence gathered during AIS fieldwork, including (1) the presence of a project-area wide grading/bulldozing event that appears to have leveled the entire property of any previous structural remains; (2) the complete lack of any possible basalt boulders (potential traditional, Hawaiian rock-structural remains) in the excavated trenches, other than late historic/early modern pit fills; (3) the complete absence of any naturally-occurring deposits of clean beach/dune sand that typically

contain traditional, Hawaiian burials; and (4) historical evidence that the entire project was a network of pond-field taro gardens (and, thus, not a favored place for burials), we believe such additional testing (excavation) beneath the existing buildings yield more of the same kind of evidence we have already documented. *However, in order to ensure there are no as-yet undiscovered areas with potentially significant archaeological resources, or burials, we recommend a second round of AIS testing (excavation) in the footprints of some of the existing residential structures, when they are demolished in the future*. We recommend a total of 12 additional trenches placed under 12 of the existing buildings (once they are vacated). This additional AIS work can be submitted to the SHPD for review and comment as a Supplemental AIS report.

Figure 190 is a schematic, preliminary depiction of what an additional 12 trenches in a second round of AIS testing would look like. This is a draft figure to be used for discussion/consultation purposes only.

Because inventory and identification steps are incomplete at this time, we are not ready to recommend an effect determination—in accordance with HAR § 13-275-7—at this time. Likewise, since the inventory and identification steps are incomplete, we are not ready to recommend an effect determination under Section 106 (36 CFR Part 800) either. When we have completed sufficient AIS testing, we will recommend such legally-mandated determinations for SHPD concurrence.

Figure 190. Schematic, preliminary depiction of what an additional 12 trenches (yellow) in a second round of AIS testing would look like; note, this is a draft figure to be used for discussion/consultation purposes

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APPENDIX A: CONSULTATION CORRESPONDANCE

This appendix includes all formal consultation sent by TCP Hawai‘i, LLC, in support of this project. It also includes one formal, written response we received (from OHA).

Documents included in this appendix:

1. Pages A-2 to A-7: Sample of initial consultation outreach letter sent to the following individuals and agencies in late May/early June, 2016: (a) SHPD/DLNR (Administrator Downer, Archaeology Branch Chief Susan Lebo, O‘ahu Burial
   Site Program staff Regina Hilo, and Ka‘āhiki Solis); (b) OHA (Ka Pouhana/CEO Crabbe and staff in Compliance, Kai Markell and Lauren Morawski); (c) Kalihi-Palama Neighborhood Board (Chair Ryan Mandado); (d) Kalihi-Palama Hawaiian Civic Club (Pelekikena/President Leimomi Khan); (e) Cynthia Yoshida (Public Housing Supervisor, MWH); (f) Historic Hawaii Foundation (Kirsten Faulkner); (g) Ka‘anohi Paulette Kaleikini (Native Hawaiian, cultural descendant, Honolulu area); (h) Michael Lee (Native Hawaiian, cultural descendant, Honolulu area).
2. Page A-8: Formal, written response from OHA dated June 28, 2016.
3. Pages A-9 to A-10: Final trenching plan (scope of work for fieldwork) dated September 8, 2016, prepared by TCP Hawai‘i for SHPD based on multiple formal meetings with SHPD.
4. Page A-11: End of fieldwork summary email dated October 12, 2016, prepared by TCP Hawai‘i for SHPD.

TCP Hawai‘i, LLC

Documenting Traditional Cultural Properties of Hawai‘i
Preserving and Restoring Cultural and Natural Resources of Hawai‘i

May 25, 2016

To: **Mr. Kamana‘opono Crabbe, Ph.D., Ka Pouhana (CEO), Office of Hawaiian Affairs, State of Hawai‘i**

Re: **Initiation of Section 106 (36 CFR Part 800) Consultation for Mayor Wright Homes Redevelopment Project, Honolulu Ahupua‘a, Honolulu (Kona) District TMK (1) 1-7-029: 003**

Aloha Mr. Crabbe,

On behalf of the lead agency for the proposed undertaking, the U.S. Department of Housing and Urban Development (HUD); and the landowner, the Hawai‘i Public Housing Authority (HPHA); and in coordination with its national planner, Hunt Companies, Inc.; and its local planner, PBR Hawaii & Associates, Inc., TCP Hawai‘i, LLC, is conducting an Archaeological Inventory Survey (AIS) and a Cultural Impact Assessment (CIA) of an approximately 15.3-acre project area in Honolulu in support of the Mayor Wright Homes Redevelopment Project (TMK [1] 1-7-029:003).

The Area of Potential Effect (APE) is the same as the physical footprint of the TMK parcel; and is synonymous with the term "project area," which is bounded by N. King St., Pua Lane, Vineyard Blvd., and Liliha St. in Honolulu (**Figure 1** and **Figure 2**). The APE/project area is located in a thoroughly urbanized/developed part of Honolulu: Iwilei is located just makai (seaward) of the project area; Kalihi and Kapālama are to the ‘ewa (west) side; Nu‘uanu and Chinatown are located to the northeast and southeast, respectively.

The purpose of this consultation letter is (1) to provide notification that this project could affect historic properties of interest to you; (2) to seek your views on the methods by which we will identify and evaluate historic properties in the project area; and (3) to solicit your views on the proposed undertaking's potential effects on historic properties.

We also seek your input as to other interested parties with whom you believe we should be consulting. At the end of this letter, we list other organizations and individuals with whom we have also initiated consultation for this proposed undertaking.

This letter represents only the start of our formal consultation efforts with you. We will continue to consult, formally as well as informally, throughout the entire process of conducting our AIS and CIA investigations; and we will continue to seek your views on the identification of historic properties, their evaluation, and mitigation of any adverse effects.

Proposed Undertaking

Mayor Wright Homes (public housing complex built by the HPHA) were first occupied in 1952 or 1953 (depending on the source), making them some 63 or 64 years old.[1] The proposed undertaking will replace the existing 364 residential units—currently consisting of 35 separate, low-rise buildings (plus an administration building)—with 1,000–1,500 residential units and other mixed-use structures; the new development will include low, medium and high-rise buildings. This project is considered to be part of the Transit-Oriented Development (TOD) associated with construction of the Honolulu Rail Transit Project.

Cultural and Historical Background

The entire project area is more or less full of Land Commission Awards (LCAw), or kuleana parcels, dating from the middle-nineteenth century legal process of land division and private ownership known as the Māhele.[2] There are more than two dozen LCAs wholly or partially within the project area, or immediately adjacent to its boundaries (**Figure 3**). Preliminary analysis of these records indicates the project area represented prime, irrigated taro lands in or immediately adjacent to the lower floodplain of Nu'uanu Stream, with traditional irrigation ditches ('auwai) and scattered house sites dotting the landscape.

A Hawaiian Kingdom government survey map from 1887 depicts a large residential structure labelled "R. Keliiokolani" (i.e., Princess Ruth Ke'elikōlani) in the southwest corner of the project area, but no other structures; the 1906 series of Dakin Fire Insurance maps shows many structures throughout most of the project area with the vast majority labelled as "dwellings" or "tenements." Interestingly, much of the eastern quadrant of the project area was still being used to grow taro and other plants. A tofu-making operation was located along Pua Lane. A "Japanese hotel" and several horse stables and facilities were also scattered about the project area.

These and other historical maps and documentation indicate the project area has been heavily developed/urbanized for over 100 years; before this, in the nineteenth century and in "precontact" times, the project area was full of traditional Hawaiian lo'i kalo (irrigated taro gardens). At least some small house sites were also located in the project area. It is unlikely that the project area would have been used for burials prior to the historic period. These were prime agricultural lands. However, following the social disruptions caused by the arrival of Americans, Euroamericans and Europeans around 1800 and increasingly in the early nineteenth century, burial practices may have changed as traditional access to the entire ahupua'a was cut off. Thus, it is possible that some "backyard burials" may have taken place in the nineteenth century in the project area.

Previous and Proposed Cultural Resource Evaluations in the Project Area

To the best of our knowledge, there have not been any formal archaeological surveys or cultural resources assessments in the project area, since the existing Mayor Wright Homes was completed prior to the introduction of environmental and historic-preservation laws (starting in the 1960s).

Our AIS will be conducted in accordance with Hawai'i Administrative Rules (HAR) § 13-276; we will consult with the SHPD to develop an appropriate scope of work to ensure all historic properties are identified. Our CIA will be conducted in accordance with Hawai'i Revised Statutes (HRS) § 343 and HAR § 11-200, as well as the State Office of Environmental Quality Control's (OEQC) 2012 *Guide to the Implementation and Practice of the Hawaii Environmental Policy Act.*

[1] The above-ground, architectural structures in the APE/project area are being evaluated by Fung Associates, Inc.
[2] The areas on the 1939 map where there are no LCAs depicted, but where Land Court Application numbers appear, conceal still more LCAs that will be documented and analyzed in our investigations.

Consultation Process for this Project to Date

In addition to your agency, we have also initiated formal consultation efforts with the following individuals and organizations:

- State Historic Preservation Division, Department of Land and Natural Resources
- O'ahu Island Burial Council
- Ms. Paulette Kaanohiokalani Kaleikini
- Ms. Cynthia B. Yoshida (Public Housing Supervisor at Mayor Wright Homes)
- Kalihi-Palama Hawaiian Civic Club
- Kalihi-Palama Neighborhood Board (No. 15)

If you know of other individuals or organizations with whom you believe we should consult, we request that you kindly share this information with us.

Please feel free to contact me via email, regular mail or phone if you have any questions about this consultation letter.

With aloha,

Christopher M. Monahan, Ph.D.
Owner, Principal Investigator
TCP Hawai'i, LLC
(808) 754-0304
mookahan@gmail.com

c: Kai Markell, OHA
Lauren Morawski, OHA

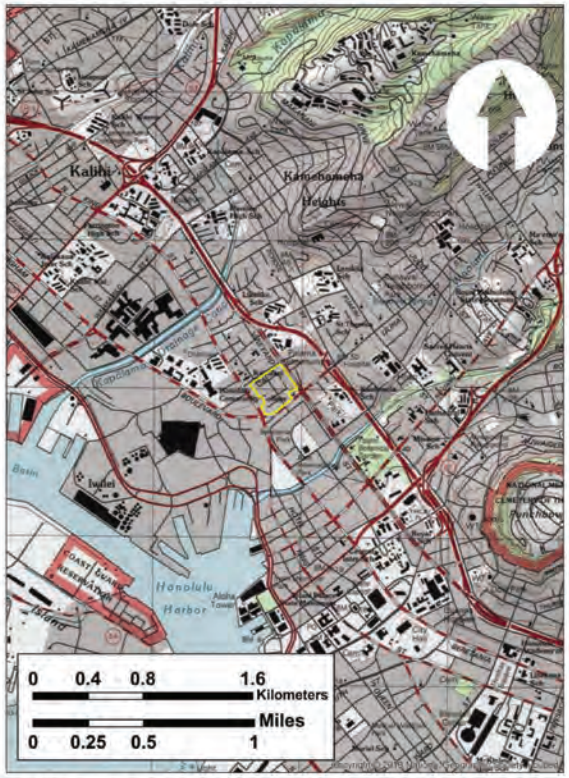


Figure 1. Project area (yellow outline) depicted on a USGS topographic map

Figure 2. Project area (yellow outline) depicted on an aerial photograph

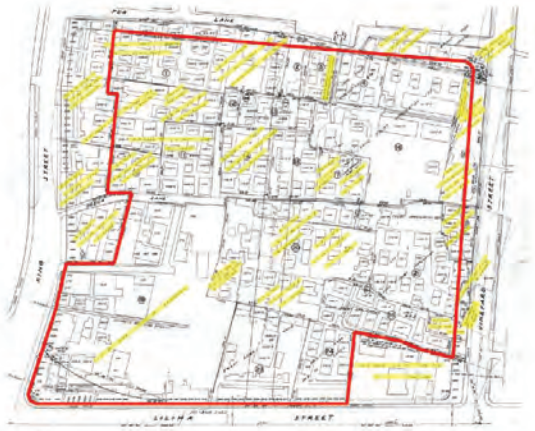


Figure 3. Detail of 1939 Hawaii Housing Authority map showing high density of Land Commission Awards (yellow highlights) in and adjacent to the project area (red line)

PHONE (808) 594-1888

FAX (808) 594-193

STATE OF HAWAI'I
OFFICE OF HAWAIIAN AFFAIRS
560 N. NIMITZ HWY., SUITE 200
HONOLULU, HAWAI'I 96817

HRD 16-7874

June 28, 2016

Christopher M. Monahan, Ph.D.
Owner, Principal Investigator
TCP Hawai'i, LLC
333 Aoloa St. #303
Kailua, Hawai'i 96734

Re: Initiation of Section 106 (36 CFR Part 800) Consultation for Mayor Wright Homes Redevelopment Project
Honolulu Ahupua'a, Kona Moku, O'ahu Mokupuni
TMK: (1) 1-7-029:003

Aloha Mr. Monahan:

The Office of Hawaiian Affairs (OHA) received your letter dated May 25, 2016, on the above-titled project. Given the project descriptions provided, our agency has no comments at this time. Should you have any questions, please contact Everett Ohta at 594-0231 or everetto@oha.org.

'O wau iho nō me ka 'oia 'i'o,

Kamana'opono M. Crabbe, Ph.D.
Ka Pouhana, Chief Executive Officer

KC:acm

Please address replies and similar, future correspondence to our agency:
Dr. Kamana'opono Crabbe
Attn: OHA Compliance Enforcement
560 N. Nimitz Hwy., Ste. 200
Honolulu, Hawai'i 96817

TCP Hawai'i, LLC
Documenting Traditional Cultural Properties of Hawai'i
Preserving and Restoring Cultural and Natural Resources of Hawai'i

September 8, 2016

To: **Susan Lebo, Ph.D., Archaeology Branch Chief, SHPD/DLNR**
Re: **Continuing Consultation for Mayor Wright Homes Redevelopment Project, Honolulu Ahupua'a, Honolulu (Kona) District, TMK (1) 1-7-029: 003**

Aloha Dr. Lebo,

This letter is in reference to the trenching plan we discussed on September 2, 2016, for the HAR § 13-276 AIS we are conducting at Mayor Wright Homes. This was our second consultation regarding the number and placement of trenches needed to satisfy the AIS requirements for this project.

The purpose of this letter is to obtain your concurrence for our trenching plan so we can begin fieldwork.

Figure 1 is our final plan for 24 trenches. We have had to consider several factors in our placement of trenches: (1) the project area is currently home to some 1,000 low-income people—thus, we are trying to minimize disruption to their lives; (2) the location of underground utilities, which we are trying to avoid; (3) the possible location of subsurface historic-age features, based on maps from the early 1900s, which we are trying to target with some of our trenches (see legend to Figure 1 for historic map sources).

As we discussed in the most recent meeting, depending on the results of our excavation of these 24 trenches, we understand additional trenches may be needed. Furthermore, as discussed, some kind of AIS testing will have to occur in the future underneath some of the existing buildings in order to achieve adequate coverage of trenching. We discussed two possible strategies for completing AIS testing underneath the existing buildings (once they are demolished), including conducting a Supplemental AIS to document these currently-inaccessible sediments.

We would greatly appreciate receiving your concurrence in writing (email) as soon as possible.

Please contact me if you have any questions about this consultation letter.

With aloha,

Christopher M. Monahan, Ph.D.
Owner, Principal Investigator, TCP Hawai'i, LLC
(808) 754-0304, mookahan@gmail.com

c: Kimi Matsushima, O'ahu Lead Archaeologist, SHPD/DLNR

Figure 1. Location of 24 proposed trenches at Mayor Wright Homes Redevelopment project area with historic feature overlays (see legend and text of this letter); note, small black (1908-1909) squares and rectangles are house sites on historic maps; small blue (1920-1925) rectilinear shapes are house site locations associated with 'auwai system

[email from Chris Monahan to SHPD dated October 12, 2016]

Aloha Kimi and Susan,

About a week ago, we completed all fieldwork tasks--including recording mapping grade (sub-foot accurate) GPS (Trimble) locations of all testing locations--associated with the backhoe excavation of 24 trenches at Mayor Wright Homes (MWH). Trench locations were mostly according to the general trenching plan we (Kimi and I) agreed to on or around Sept 9, although toning for underground utilities prior to digging (on Sept 19) required us to slightly adjust/move nearly all trenches (typically, we needed to adjust orientation to avoid water and gas lines). We hit unmarked utilities (mostly dead, but not always) in about half of our trenches. It's a very busy project area in that way.

We did not identify any traditional Hawaiian artifacts, sites or features. We did not identify any human skeletal remains or burials (we found a few cow bones here are there, consistent with late historic food debris). We did find a late historic debris layer throughout more or less the entire project area containing diagnostic artifacts (mostly glass bottles with maker's marks and company names) dating from the 1927 (earliest so far) to the 1950s. I'm certain this layer, which typically begins about 15-30 cm below surface and is typically 25-40 cm thick, represents a systematic bulldozing and sediment compaction event that occurred just prior to, and in preparation for, the circa 1954 construction of the current buildings. I am currently searching for photographs to back this up. As part of this widespread late historic layer, we also identified a few discrete features (filled-in pits/depressions) containing late historic artifacts. We collected about 20 diagnostic artifacts from these features and this layer. Preliminary evaluation is we have a single historic property (late historic debris layer associated with the establishment of the current, circa 1954 building complex) with several features (the deeper filled-in pits/depressions with late historic artifacts in them).

The base of excavation varied from lithified coral shelf (in about a third of the trenches, usually about 1.0-1.5 m in depth), to the water table (in a few, below 2.2 m in depth) and decomposing bedrock (basalt) boulders/saprolitic regolith (typically 1.8-2.0 m in depth). Along the western side of the project area, we identified several instances of lithified coral shelf covered by loose cinder, presumably dating to a locally widespread event approximately 8,000 yrs BP centered on Punchbowl. The cinder fills in cracks and crevices and even what appear to be surface drainages in the lithified coral shelf. At first, we thought we might be looking at ditches and `auwai--that is, cultural features, but close inspection and study led to the interpretation that these were natural, and far older, landscape features. We also identified what appear to be ponded (lo`i) sediments (a gray clay) in quite a few trenches, below the late historic layer, but well above the base of excavation. I grabbed a sample of this probably lo`i sediment for closer inspection.

Only in one trench did we observe natural beach sand, or anything resembling possible Jaucus sand, and I immediately stopped mechanical excavation and commenced hand shovel work with a flat edged shovel. It turned out to be a discontinuous lens, 10-15 cm maximum, just part of the late historic filling event (thankfully).

Question and a request for assistance: can you please recommend references/sources for helping me further identify the glass bottles' maker's marks, etc. I know there are a few relevant to Hawai`i/Honolulu, just that it's not my area of expertise.

Mahalo for your help.

Chris

APPENDIX B: TABLE OF PREVIOUS ARCHAEOLOGICAL RESEARCH

This appendix includes a table of previous archaeological studies near the project area from a recent, SHPD-approved AIS by Belluomini et al. (2016:42–45).

Table 1. Previous Archaeological Studies in the Vicinity of the Project Area

Reference	Type of Study	Project	Results (SIHP #s 50-80-14**** unless otherwise noted)
Landrum and Dixon 1992	Data recovery	River-Nimitz redevelopment	Identified four post-Contact trash pits, a brick and motor building foundation, and a single pre-Contact human burial; all documented archaeological features designated SIHP # -4192
Erkelens et al. 1994	Burial report	Kekaulike project	Documented SIHP # -4875, four sets of human skeletal remains at the Kekaulike project, Diamond Head Block, identified during inventory survey and data recovery investigations
Kennedy et al. 1994	Archaeological inventory survey	Kekaulike revitalization	Identified SIHP # -4857, a small fishpond, and SIHP # -4588, a multi-component site consisting of 53 features dating from the twentieth century to pre-Contact including three human burials
Riley et al. 1995	Data recovery	Kekaulike revitalization project, 'Ewa block	Identified 55 features spanning the early pre-Contact period through the twentieth century; radiocarbon dating of SIHP # -4587, a small fishpond, yielded an early tenth century date and dating of a coral reef stone platform (SIHP # -4588) yielded an eleventh century date
Goodwin et al. 1995; Goodwin et al. 1996	Archaeological inventory survey, data recovery, and monitoring	Marin Tower	Entire Marin Tower property designated SIHP # -4494 consisting of 28 post-Contact burial features and the remains of several displaced human skeletal remains, pre-Contact fire pits, and early post-Contact structural foundations associated with the residence of the Marin family from about 1810 to 1850; numerous pre- and post-Contact artifacts also documented
Athens and Ward 1997	Paleoenvironm-ental study	Liliha Civic Center	Indicated Kūwili Fishpond constructed between AD 1400-1650

Reference	Type of Study	Project	Results (SIHP #s 50-80-14**** unless otherwise noted)
Goodwin 1997	Archaeological inventory survey	Kekaulike project, Diamond Head block	Identified a multi-component site (SIHP # -4875) consisting of 105 features and six culturally enriched sediment strata; majority of features identified as Native Hawaiian from the early post-Contact period, but included later historic and modern features and structural remnants; documented a single burial
Heidel and Hammatt 1997	Archaeological testing	Testing of 1,700-sq-ft lot in Chinatown	Four test trenches revealed no cultural deposits or materials
McGerty et al. 1997	Archaeological inventory survey	Liliha Civic Center	Identified soil layers interpreted as remains of Kūwili Fishpond (SIHP # -5368) and suggested the pond may have been constructed as early as AD 1100
Lebo and McGuirt 2000a and b	Archaeological inventory survey and data recovery	Nimitz Hwy water system improvements, downtown Honolulu	Identified one historic property: SIHP # -5496, subsurface cultural layer containing both pre- and post-Contact archaeological features
Elmore and Kennedy 2001	Archaeological monitoring	City and County of Honolulu Misc sidewalk improvements	Identified one in situ flexed human burial, SIHP # -5781, between Maunakea St and Smith St
McDermott and Mann 2001	Archaeological inventory survey	Nimitz Hwy water system improvements	Focused on investigations of Kawa Fishpond (SIHP # -5966)
Winieski and Hammatt 2001	Archaeological monitoring	Nimitz Hwy reconstructed sewer	Identified a historic brick-lined manhole and a remnant of a light-gauge rail, SIHP # -5942, associated with the historic Honolulu Rapid Transit trolley system at the intersection of Queen St and Nimitz Hwy
Mann and Hammatt 2002	Archaeological monitoring	King St rehabilitation	Identified one incomplete, previously disturbed, human burial, SIHP # -6317, near the intersection of S. King St and Punchbowl St and a pit feature containing non-human skeletal remains at the corner of S. King St and Richards St

Reference	Type of Study	Project	Results (SIHP #s 50-80-14**** unless otherwise noted)
West et al. 2002	Archaeological monitoring	Installation of water mains along King St, between Liliha and River streets	Identified previously recorded Honolulu Rapid Transit & Land Company (HRT&L) trolley (SIHP # -5942) along with numerous artifacts in association
Pietrusewsky 2003 (in Kailihiwa and Celghorn 2007)	Osteological analysis	Smith-Beretania parking lot	Identified two children, five young adults, and 16 adults and individuals consistent with Hawaiian/ Polynesian/Asian ancestry (SIHP # -6672)
Goodwin and Allen 2005	Data recovery	Kekaulike project, Diamond Head block	Excavated four house compounds and a blacksmith's shop (SIHP # -4875); radiocarbon dating indicated the area was in use as early as the thirteenth century, with the majority of documented features associated with the early pre-Contact period; four human burials documented
Hammatt 2005	Burial report	Foster Botanical Gardens (180 North Vineyard Blvd)	Recovered maxilla fragment and portion of a long bone, clavicle, fragments of a mandible, loose teeth and rib fragments from backpile; reinterred remains on grounds of botanical gardens (No SIHP # assigned)
McIntosh and Cleghorn 2005	Archaeological inventory survey	Pearl St One Bldg	Identified SIHP # -6691, a four-component site comprised of two disturbed human remains, two historic trash pits, charred remains of a Chinatown structure destroyed in the 1900 Chinatown fire, and the remnant of a historic building that partially collapsed in 2001
McIntosh et al. 2006	Archaeological inventory survey	Smith-Beretainia parking lot	Identified SIHP #50-80-12-6672, including trash pits, cooking feature, building structural foundations, traditional and historic artifacts, and abundant midden deposits

Reference	Type of Study	Project	Results (SIHP #s 50-80-14**** unless otherwise noted)
Dagher and Spear 2007	Archaeological monitoring	Pacific Town Gateway Center	Identified two historic properties: SIHP # -6889, two human burials, likely Native Hawaiian; and SIHP # -6926, a mortared basalt foundation wall and a ceramic storm drain containing a cache of ceramics
Kailihiwa and Cleghorn 2007	Archaeological monitoring	Smith-Beretania parking lot	Identified SIHP # 50-80-12-6672, including 23 sets of human remains
Groza and Hammatt 2008	Archaeological monitoring	Rehabilitation of Streets	No intact cultural deposits or materials encountered, likely due to previous disturbance
Hammatt et al. 2008	Archaeological data recovery	Iwilei senior housing	Collected and analyzed sediment samples in Kūwili Fishpond (SIHP # -5368); suggested the earliest pond sediments deposited ca. AD 1020 to AD 1120, (most consistent with the estimate of AD 1100 by McGerty et al. [1997], and inconsistent with Athens and Ward's [1997] estimate of the AD 1400s)
Hunkin and Hammatt 2008	Archaeological monitoring	Armstrong Bldg courtyard renovation	No intact cultural deposits or materials encountered
Cleghorn et al. 2012	Data recovery	Smith-Beretania parking lot	Identified SIHP # 50-80-12-6772, consisting of numerous pits, privies, and miscellaneous features including traditional Hawaiian artifacts and two human burials
Hunkin et al. 2012	Archaeological monitoring	Kalihi/Nu'uanu sewer project	Discovered isolated human bone fragment in fill material (not within the vicinity of the project area and no SIHP # assigned)
Hammatt 2013	Archaeological inventory survey	Construction Phase 3 of the Honolulu-High Capacity Transit Corridor	Identified SIHP # 50-80-16-7427, consisting of a human skeletal element and post-Contact subsurface infrastructure remnants, and cultural deposits
Enanoria and Hammmatt 2015	Archaeological monitoring	King St Reconstruction between Bethel and River streets	No intact cultural deposits or materials encountered

APPENDIX C: ALTA SURVEY (2016) OF THE PROJECT AREA

This appendix contains a client-provided map of the project area based on a 2016 ALTA survey; note, the large number of walkways and sidewalks, some of which may be in excess of 50 years in age (i.e., may be components of the above-ground, circa 1952-3, architectural landscape).

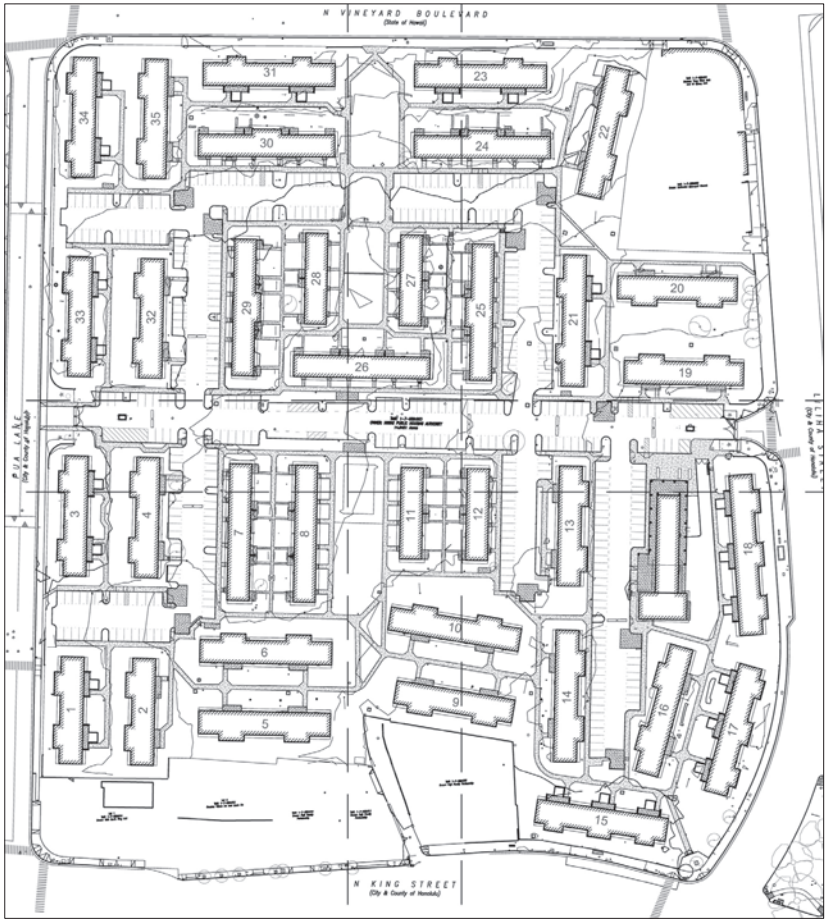


EXHIBIT 11

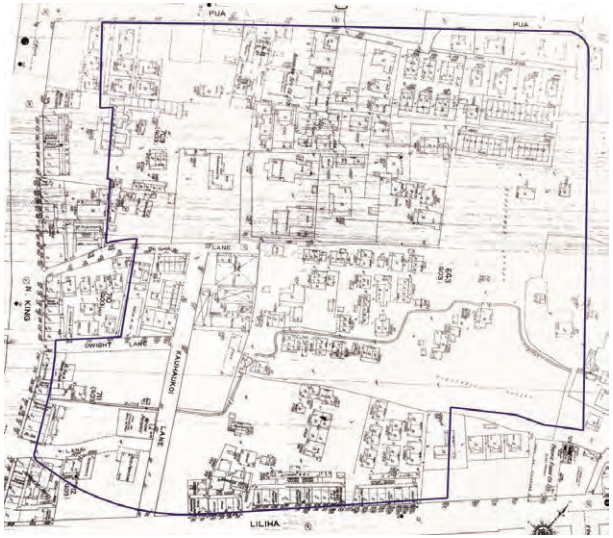
FINAL

CULTURAL IMPACT ASSESSMENT OF THE MAYOR WRIGHT HOMES REDEVELOPMENT PROJECT HONOLULU (NUʻUANU) AHUPUAʻA, HONOLULU (KONA) DISTRICT OʻAHU ISLAND, HAWAIʻI TMK (1) 1-7-029:003

Prepared for:
MWH Partners, LLC & Hawaiʻi Public Housing Authority

Prepared by:
Christopher M. Monahan, Ph.D.
TCP Hawaiʻi, LLC
333 Aoloa Street, #303
Kailua, HI 96734

August 2017



Composite 1914 Sanborn fire insurance maps of the project area (purple boundary) showing extensive vegetable gardens in mauka portions (to the right in this view); this image predates Vineyard Boulevard

Nohea i Muʻolaulani*

He mea nui ke aloha	This great love of yours
Ke hiki mai i oʻu nei	Has come here to me
Mehe'o kuʻu lei kaimana ala	It is like my diamond necklace
Kāhiko o kuʻu kino	To adorn my person
Kuʻu lei popohei ka laʻi	My lei so shapely in the calm
Nohea i Muʻolaulani	Handsome at Muʻolaulani
Ka beauty lā he mau ia	It is a beauty, always a thing forever
No nā kau ā kau	For all seasons

*Mele (song) composed by Queen (then Princess) Liliʻuokalani in 1885 in honor of her new home, which was once located in the western corner of the current project area (Kam 2013:160)

ACKNOWLEDGMENTS

Mahalo to the residents of Mayor Wright Homes, and to the many others who assisted me during this project.

ABSTRACT – MANAGEMENT SUMMARY

TCP Hawai‘i, LLC, completed a Cultural Impact Assessment (CIA) of an approximately 15.3-acre project area in Honolulu in support of the Mayor Wright Homes Redevelopment Project (TMK [1] 1-7-029:003). The landowner is the Hawai‘i Public Housing Authority. The project area, which consists of the TMK parcel in the context of the surrounding neighborhoods of Honolulu, is bounded by North King Street, Pua Lane, Vineyard Boulevard, and Liliha Street in a thoroughly urbanized/developed part of Honolulu west of the channelized lower Nu‘uanu Stream. The information has been gathered to support an Environmental Impact Statement (EIS) of the redevelopment of Mayor Wright Homes, a public housing complex built by the HPHA that was first occupied in 1952 or 1953 (depending on the source). The proposed undertaking will replace the existing 364 residential units—currently consisting of 35 separate, low-rise buildings (plus an administration building)—with a new mixed-use, mixed-income development with up to 2,500 residential units and 80,000 square feet of commercial uses (note, at the start of this CIA, the proposed number of new residential units was 1,000 to 1,500, since increased to 2,500). The new development will include low, medium and high-rise buildings. This project is considered to be part of the Transit-Oriented Development (TOD) associated with construction of the Honolulu rail transit project. There have not been any previous CIAs for the project area because the Mayor Wright Homes were completed prior to the introduction of applicable environmental assessment laws (starting in the late 1960s). This CIA satisfies the state Office of Environmental Quality Control’s (OEQC) guidelines for assessing cultural impacts. This document is a synthesis of previously obtained information, new interviews, and details of the proposed project.

In accordance with HRS 6E and Section 106 of the National Historic Preservation Act (NHPA), we conducted extensive community outreach and consultation with numerous individuals and agencies, including Native Hawaiian organizations. The consultation objectives were (1) to provide notification that this project could affect cultural resources and practices of interest to the community; (2) to seek consulted party views on the methods by which we identified and evaluated cultural resources and practices in the project area; and (3) to solicit consulted party views on the proposed undertaking’s potential effects on these things. Through extensive archival research, including historical map analysis and review of Māhele ‘Āina (Land Commission) records, we present detailed information and analysis on a wide variety of topics, including: the Hawaiian cultural landscape, middle nineteenth-century developments in and near the project area, royal residences of Kapālama, early twentieth-century developments in and near the project area, oral history information from the twentieth-century in and near the project area (including interview summaries from a study of Pālama Settlement), results of nearby archaeological studies and a new archaeological survey of the project area by TCP Hawai‘i, and results of new interviews by TCP Hawai‘i conducted for this CIA.

All of this information forms the basis for several recommendations regarding the redevelopment of Mayor Wright Homes.

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INTRODUCTION

On behalf of the project proponent, MWH Partners, LLC, and its local planner, PBR Hawaii & Associates, Inc., TCP Hawai‘i, LLC, has completed this Cultural Impact Assessment (CIA) of an approximately 15.3-acre project area in Honolulu in support of the Mayor Wright Homes Redevelopment Project (TMK [1] 1-7-029:003) (Figure 1, Figure 2 and Figure 3).

The landowner is the Hawai‘i Public Housing Authority. For the purposes of this CIA, the project area consists of the TMK parcel in the context of the surrounding neighborhoods of Honolulu. The project area is bounded by North King Street, Pua Lane, Vineyard Boulevard, and Liliha Street in a thoroughly urbanized/developed part of Honolulu just west of the channelized lower Nu‘uanu Stream. Iwilei is just makai (seaward) of the project area; Kalihi and Kapālama are to the ‘Ewa (west) side; Chinatown and the old center of Honolulu are located to the Diamond Head (east) side.[1]

The information in this report has been gathered to support an Environmental Impact Statement (EIS) for the redevelopment of Mayor Wright Homes. There have not been any previous CIAs in the project area because the Mayor Wright Homes were completed prior to the introduction of applicable environmental assessment laws (starting in the late 1960s). However, previous research and cultural resource studies of the surrounding area have been referenced. As described in more detail below, this CIA report satisfies the state Office of Environmental Quality Control’s (OEQC) guidelines for assessing cultural impacts; and is designed to provide stakeholders with sufficient information to help them preserve and perpetuate significant cultural resources and practices in a way that is both authentic and practical. This document is a synthesis of previously obtained information, new interviews of knowledgeable individuals, and details of the proposed project. The analysis of these data sets ultimately forms the basis for the assessment of cultural impacts, which will help facilitate project planning and mitigation of adverse impacts to cultural resources and practices.

Purpose and Content of Cultural Impact Assessments

This CIA is designed to satisfy HRS § 343 (law governing Environmental Impact Statements [EIS]) and HAR § 11-200 (rules governing content of EIS and Environmental Assessment [EA] documents) as well as the OEQC’s 2012 Guide to the Implementation and Practice of the Hawaii Environmental Policy Act (see Appendix A for a relevant excerpt). Interestingly, cultural resources valued by individuals and communities with historical and genealogical ties to a given project area may be different than those deemed significant by “outsiders,” including scientists, anthropologists, and other researchers not from the area.[2] Likewise, the same resource may be valued in different ways by “insiders” and “outsiders.” A pertinent example in this study is the discovery of buried pond sediments—likely lo‘i kalo (irrigated taro)—in portions of the project area during recent archaeological work (cf. Monahan 2017); this discovery may be valued primarily by community members as evidence of the project area’s original fertility and abundance, but by archaeologists as an opportunity to conduct additional scientific analyses of these unique soils. In CIA work, we are interested in both of these perspectives. Our objectives are to identify *all* the various types of cultural resources in and near the project area, to explain why they are important to different individuals or groups, and to recommend ways they can be preserved or protected, if appropriate. We are also interested in expressing the intangible values people attribute to the project area. Maly and Maly (2005), citing Kent et al. (1995), use the term “cultural attachment” to describe this important class of phenomenon:

[1] Hawaiian words are not italicized since ‘Ōlelo Hawai‘i is an official state language rather than a “foreign” language. Likewise, we do not systematically define Hawaiian words, especially those in common use, unless they are germane to our discussion or interpretation of cultural resources (see Pukui and Elbert 1986 or http://wehewehe.org/ for Hawaiian dictionaries)

[2] Anthropologists have long recognized the value in studying both “insider” and “outsider” perspectives, called “emic” and “etic,” respectively, when trying to understand cultural values and significance.

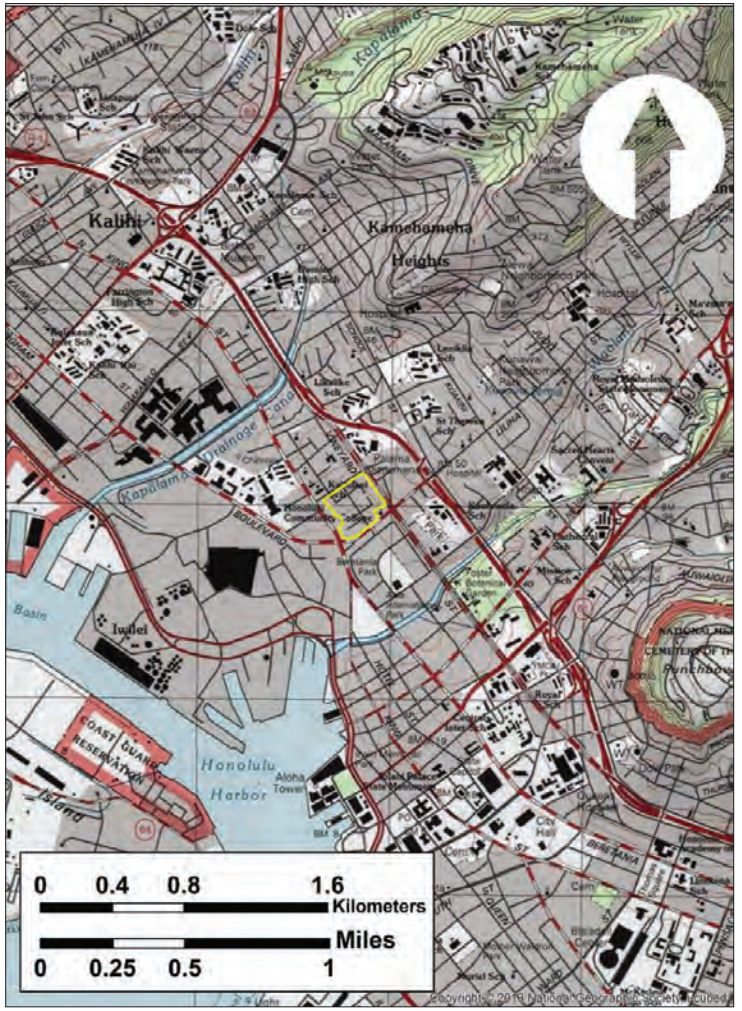

Figure 1. Project area (yellow outline) depicted on a USGS topographic map (base map source: ESRI’s ArcMap 10.2.2)

Figure 2. Project area (yellow outline) depicted on an aerial photograph

Figure 3. TMK map of project area and other parcels in same block (source: TMK data State GIS layer)

> "Cultural Attachment" embodies the tangible and intangible values of a culture—how a people identify with, and personify the environment around them. It is the intimate relationship (developed over generations of experiences) that people of a particular culture feel for the sites, features, phenomena, and natural resources etc., that surround them—their sense of place. This attachment is deeply rooted in the beliefs, practices, cultural evolution, and identity of a people. The significance of cultural attachment in a given culture is often overlooked by others whose beliefs and values evolved under a different set of circumstances. (Maly and Maly 2005:3)

In Hawai'i, commonly identified cultural resources include archaeological sites; burial sites and cemeteries; wahi pana (legendary places associated with oral history); natural landscape features[3] such as pu'u (e.g., hills, outcrops and other promontories), ridges, and water sources and courses; natural phenomena such as characteristic weather patterns, winds and rain (many of which have place-specific names); and other place names and landscape features that are important to local families. Such resources need not necessarily refer to Hawaiian culture but may also include other ethnic groups.

As described further in the document (see Methods), we also conducted extensive community outreach and consultation with numerous individuals and agencies, including Native Hawaiian organizations. The consultation objectives were (1) to provide notification that this project could affect cultural resources of interest to the community; (2) to seek consulted party views on the methods by which we identified and evaluated cultural resources in the project area; and (3) to solicit consulted party views on the proposed undertaking's potential effects on these things.

[3] In Hawaiian culture, there is no hard and fast distinction between cultural and natural resources; thus, for example, a clean and healthy kahawai (stream) is just as much a cultural resource—because its existence is crucial to carrying out traditional and customary practices such as irrigated (pond-field) agriculture—as a natural one.

Summary of the Proposed Undertaking

Mayor Wright Homes—a public housing complex built by the HPHA—were first occupied in 1952 or 1953 (depending on the source), making them approximately 64 or 65 years old. The proposed undertaking will replace the existing 364 residential units—currently consisting of 35 separate, low-rise buildings (plus an administration building)—with an entirely new mixed-use, mixed-income development comprised of up to 2,500 residential units and up to 80,000 square feet of commercial uses (note, when we started this CIA, the number of new residential units was originally described as 1,000 to 1,500, but this was recently changed to 2,500). The new development will include low, medium and high-rise buildings. This project is considered to be part of the Transit-Oriented Development (TOD) associated with construction of the Honolulu rail transit project.

Project Area Description

The project area block, bounded by N. King St., Liliha St., Vineyard Boulevard and Pua Lane, is fully urbanized with no naturally-occurring plants or animals, no natural streams, drainages or waterways, and minimal topographic variation other than a gentle slope down to the makai (seaward) direction. Elevation varies from approximately 25 ft. (7.6 m) above mean sea level (amsl) along Vineyard Boulevard to 10 ft. (3.0 m) amsl along N. King Street. About half of the project area is covered by asphalt, concrete and above-ground structures, while the rest consists of open grass and minimal landscaping (Figure 4). Mean annual rainfall in this part of O‘ahu is approximately 30 inches (762 mm) (Giambelluca et al. 2013). The project area is subject to a leeward-type of climate with winter (so-called Kona) rains predominating, and very light trade-wind rains coming down from Nu‘uanu Valley. According to the U.S. Department of Agriculture’s classification system, natural soils in the project area consist exclusively of Ewa silty clay loam (EmA), which occur on moderately sloping (0-2°) slopes (Foote et al. 1972). This natural soil is the result of admixture of decomposing basalt bedrock (parent material), downslope (colluvial) deposition, and alluvial deposition from the Nu‘uanu Stream, now (in its channelized configuration) about 500 m to the east. Before it was urbanized, the project area would have been periodically subject to flooding and overbank sedimentary deposition from the Nu‘uanu/Waolani stream system. During archaeological work, we also discovered a relatively shallow, lithified coral-reef bedrock in several trenches along the southwest side of the project area; we believe this represents the remnants of a once-elevated lithified reef—probably a late Pleistocene formation from the Waimānalo Sea Stand—as depicted on an 1817 historic map by Otto von Kotzebue (see Figure 5, below).

Figure 4. Representative view of project area during archaeological trenching, showing typical grassy areas, sidewalks in background, overhead electrical utilities and residential two- to three-story buildings

METHODS

This section describes the methods of archival research, consultation, interviews, and post-fieldwork activities for this project.

Archival Research

Some information in this report is based on recent archaeological and cultural-resource studies of the immediate area, including Belluomini et al. (2016), Maly et al. (2013), and Hammatt (2013). We also conducted multiple record searches at SHPD’s library in Kapolei; and utilized these on-line databases to obtain cultural, historical and archaeological data:

- OHA’s Papakilo database (http://papakilodatabase.com/main/main.php)
- OHA’s Kipuka database (http://kipukadatabase.com/kipuka/)
- Bernice P. Bishop Museum archaeological site database (http://has.bishopmuseum.org/index.asp)
- Bishop’s Hawaii Ethnological Notes (http://data.bishopmuseum.org/HEN/browse.php?stype=3)
- University of Hawai‘i-Mānoa’s digital maps (http://magis.manoa.hawaii.edu/maps/index.html)
- DAGS’ State Land Survey (http://ags.hawaii.gov/survey/map-search/)
- Waihona ‘Aina website (www.waihona.com)
- Digital newspaper archive “Chronicling America, Historic American Newspapers” (http://chroniclingamerica.loc.gov/lccn/sn82014681/)
- US Library of Congress digital maps (https://www.loc.gov/maps/)
- Hawai‘i State Archives digital collections (http://archives1.dags.hawaii.gov/)

PBR Hawai‘i & Associates staff also brought to our attention, and provided a copy of, a relevant, peer-review article by Kam (2013) that we cite in the historic period background review section of this report. Matt McDermott (Cultural Surveys Hawai‘i) provided assistance with links to reports by Maly et al. (2013). Kimi Matsushida (Lead Archaeologist, O‘ahu Island, SHDP) provided a link to Belluomini et al. (2016).

Consultation

From the end of May to early June, 2016, we sent formal consultation letters (Appendix B) regarding our proposed Cultural Impact Assessment (CIA) to the following agencies and individuals:

1. SHPD/DLNR (Administrator Downer, Archaeology Branch Chief Susan Lebo, O‘ahu Burial Site Program staff Regina Hilo, and Ka‘āhiki Solis);
2. OHA (Ka Pouhana/CEO Crabbe and staff in Compliance, Kai Markell and Lauren Morawski);
3. Kalihi-Palama Neighborhood Board (Chair Ryan Mandado);
4. Kalihi-Palama Hawaiian Civic Club (Pelekikena/President Leimomi Khan);
5. Cynthia Yoshida (Public Housing Supervisor, MWH);
6. Historic Hawaii Foundation (Kirsten Faulkner);
7. Ka‘anohi Paulette Kaleikini (Native Hawaiian, cultural descendant, Honolulu area);
8. Michael Lee (Native Hawaiian, cultural descendant, Honolulu area).

We provided the O‘ahu Island Burial Council in June, 2016, with an informational presentation about our proposed project. Emily Davids from MWH Partners, LLC, attended with Chris Monahan.

Ka‘anohi Kaleikini and Chris Monahan exchanged emails in May-June, 2016, regarding her consultation input. Her primary input was to bring our attention to the nearby, recent AIS by Cultural Surveys Hawai‘i (i.e., Belluomini et al. 2016); and to raise the issue of including cultural monitoring in our archaeological project.

OHA replied in writing on June 28, 2016, to our formal consultation letter to them (see Appendix B). OHA had nothing specific to communicate to us. Chris Monahan also communicated briefly by phone in June, 2016, with OHA Compliance staff, Kai Markell and Lauren Morawski.

Chris Monahan met formally with Susan Lebo, in June, 2016, about our proposed AIS. She suggested we reach out to SHPD staff, Kaʻāhiki Solis, History and Culture Branch, regarding information about the MWH property. We emailed Kaʻāhiki Solis on June 3, 2016, and again in September, 2016. She then provided some substantive input about the CIA we are preparing.

Interviews

We attempted to set up formal interviews with many people, and only two agreed to be interviewed. HPHA has a full accounting of our efforts to reach out to people to be interviewed, but we do not wish to publicize those who were not interested, because they have their own reasons and may not wish to singled out. Those who we reached out to but were unable to arrange interviews with include: at least six current, long-time residents of Mayor Wright Homes, a prominent academic/historian with knowledge of the project area, and people associated with the Oʻahu Island Burial Council.

In order to confirm the accuracy of the information shared by the interviewees, TCP Hawaiʻi provided written copies of the draft CIA and interview transcriptions and allows the interviewees to have full editorial control of the information they provided. The interview material that appears in this CIA was edited, revised and approved by the interviewees.

Post-fieldwork Activities

Archaeological GIS maps in this report were prepared by Todd Tulchin using ESRI software. Adobe Illustrator and ESRI's ArcMap 10.2.2 were also used to georeferenced the many historic maps presented in this report.

CULTURAL AND HISTORICAL CONTEXT

This section includes a synthesis of relevant cultural and historical information related to the types of land uses in the project area from pre-Contact, traditional Hawaiian times into the historic period, right up to construction of the Mayor Wright Homes around 1952.

Hawaiian Cultural Landscape

Ahupuaʻa boundaries can be extremely variable; and, depending on which source one cites, or what time period is referenced, the answer to which ahupuaʻa the Mayor Wright Homes is in varies. Honolulu Ahupuaʻa is an atypical example that has more to do with the political history of the nineteenth century—starting with the development of Honolulu harbor as a shipping port for Euro-American merchants in the first few decades of the 1800s—than with traditional Hawaiian settlement or subsistence patterns (Beechert 1991; Daws 2006). For example, the Hawaiʻi state GIS layer considers Nuʻuanu Valley and Stream (including the project area) as part of the large ahupuaʻa of Honolulu. Under this configuration, there is no Nuʻuanu Ahupuaʻa, which almost certainly does not reflect how pre-Contact Hawaiians viewed this landscape. On the other hand, recent USGS topographic maps show Nuʻuanu Ahupuaʻa coming down from the mountains but stopping at School Street. The well-known Bishop Museum compendium of archaeological sites and wahi pana (legendary places) *Sites of Oahu* (Sterling and Summers 1978) shows a similar configuration to the USGS version. Finally, Snakenberg's (1990) well-known "pre-Mahele" configuration of ahupuaʻa does not include Nuʻuanu (which is subsumed under Honolulu). As documented below, many historical accounts from the nineteenth century refer to the area as Pālama or Kapālama.

As described below, referring to the many middle nineteenth-century Land Commission Awards in the Mayor Wright Homes project area, Hawaiians consistently referred to their land as being in the ʻāina of Honolulu (also known traditionally as Kou). We believe the original inhabitants of Oʻahu—prior to the invasions by Kahekili (Maui) starting in the late eighteenth century, and later by Kamehameha (Hawaiʻi)—would have referred to the project area environs as Nuʻuanu Ahupuaʻa, given its location in the flood plain of this stream; and they would have considered the start of Pālama or Kapālama to be just a bit west of the current project area.

Figure 5 is a portion of an 1817 map of Honolulu Harbor and environs by Otto von Kotzebue (Fitzpatrick 1986:48-9) with the georeferenced project area. Beyond its general depiction of the early historic-period cultural landscape of Honolulu (e.g., showing a shoreline fishpond near the mouth of the Nuʻuanu Stream), this map is directly relevant to our study for several reasons. First, it shows the project area was in a dense cluster of loʻi kalo (irrigated taro)—these are the numerous rectangles arrayed in a grid pattern. Second, it shows several house sites (smaller, triangular symbols) scattered around the west side and east side of the loʻi kalo; and on top of what appears to be an elevated puʻu of some kind in the southern portion of the current project area. Third, and very specific to our excavation results, *the trenches we dug in this apparently elevated (southwestern) portion of the landscape contain shallow lithified coral-reef bedrock. We believe the elevated puʻu landform in Kotzebue's map is a bit of raised coral shelf that was eventually leveled or graded down.* It is likely this landscape feature is a late Pleistocene formation representing the well-documented Waimānalo Sea Stand dating to approximately 120,000 years before present, an interglacial period when sea levels in Hawaiʻi were some 7.5 m (24.8 ft.) above current levels (Macdonald et al. 1983; Ziegler 2002).

Figure 6 is a small portion of an 1825 map of Oahuʻs south shore by Charles Malden (Fitzpatrick 1986:62-3). This map does not include any details of the landscape in the project area environs, so we have not bothered to specifically call out the exact boundaries of the project area. It does show the addition of a wall—presumably a seawall—just makai of the project area, indicating perhaps the earliest map evidence of the start of landfilling activities in what would become Iwilei. Discussions by Daws (2006) and Fitzpatrick (1986) suggest this structural feature may have been part of an early effort to

Figure 5. Portion of 1817 map of Honolulu Harbor and environs by Otto von Kotzebue (Fitzpatrick 1986:48-9) with approximate location of project area in red outline in the heart of the Nu'uanu flood plain

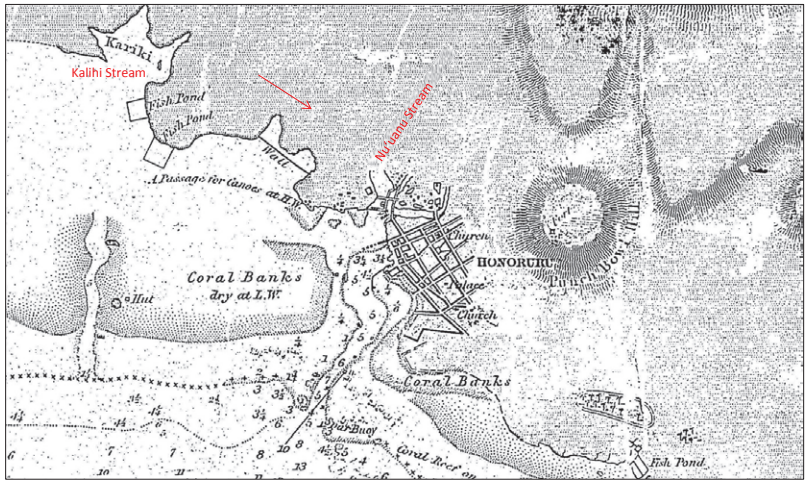

Figure 6. Portion of 1825 map of Oahu's south shore by Charles Malden (Fitzpatrick 1986:62-3) with approximate location of project area indicated by arrow

prevent the Honolulu harbor from silting up and becoming too shallow for shipping due to the muddy delta at the mouth of Nu‘uanu Stream.

Mid Nineteenth-Century Developments in and near the Project Area

Figure 7, a portion of 1855 map by J.M.H. de La Passe (Fitzpatrick 1986:82-3), shows the georeferenced project area in a dense cluster of lo‘i kalo (taro ponds) with scattered house sites here and there. Several fishponds—including Kuwila and Kawa—are located along the shoreline. By this time (1855), Honolulu had changed greatly from its traditional (pre-Contact) condition and character, when it was not yet a major chiefly settlement (Waikīkī enjoyed that status before the turn of the nineteenth century), and even from its early days as a growing harbor town, when Kamehameha the Great was still alive.

By mid-century, the main town of Honolulu was still on the other side of Nu‘uanu town (in what would become known as Chinatown). La Passe’s map does show an old alignment of King Street passing just south of the project area. This map does not show Liliha Street, which borders the project area on its southeast side, but Daws (2006:268–9), citing several contemporary accounts from newspapers in the 1850s and 1860s, has this to say about the original Liliha Street:

> For years after its formal designation, Liliha Street, to the west of Nu‘uanu stream, was interrupted in several places by the raised banks and swampy depressions of kalo patches. This was only one picturesque street nuisance among many in the environs of Honolulu.

Table 1 is a summary of Land Commission Awards in and immediately adjacent to the project area. These data reveal many relevant observations. First, in such a relatively small area—a modern city block—there are at least five named ‘ili: Kapahaha, Kahawali (or Kahawale), Koiuiu (also “Koiuiu, Leleo”), Hauhaukoi and Keoneula. Immediately adjacent ‘ili include Aala, Kapalama and Kaoaowai. Second, among the names of Hawaiians who were awarded parcels in the project area, there is one Julia (or Juliana) Alapa‘i Kauwa (or Kauwa‘a), an Ali‘i Nui (high chiefess), sometimes referred to as Princess, who was married to the famous John Young. She died in 1849, and was awarded many other lands, including others on O‘ahu (including ‘Ewa) as well as Maui and Moloka‘i. She is described as the konohiki (overseer or land manager) by some claimants. The table also shows that, when available, land use always includes lo‘i kalo, with several house sites, and occasional mention of ‘auwai. One person (Kahina) claims a “lo‘i iloko,” which is a term for a pond-field kalo patch also used as a small fishpond.

Figure 8 is a graphic depiction of kuleana parcels (Land Commission Awards), Land Grants—where people purchased the land from the government (and for which there is generally less publicly available information on land use), and Land Court Applications, which generally represent some kind of quiet title actions taken after the Mahele to obtain kuleana parcels. The three Land Grants, 2063, 2065 and 2346, to Panio, Napehe and Kaona, respectively, were purchased in 1856–7.

Figure 9 and Figure 10 are representative survey maps of two kuleana parcels in the project area (LCAw 1405 to Pihiliili and 8613 to Keonekapu) from 1854–5. While both of these maps are fairly rudimentary survey depictions—typical of the Mahele documentation, they each show ‘auwai entering the properties from the upslope (mauka) side.

Newspaper accounts from shortly after this period indicate a lot of interest in buying and selling these parcels. For example, in an 1873 edition of *The Pacific Commercial Advertiser*, there is an advertisement to sell “4 Kalo Patches” at “Kapahaha, Liliha St.” From the same newspaper, in 1881, one Mrs. Kaaea Akepo wishes to sell “…that valuable piece of land, with buildings thereon, situated at Kapahaha, Kapalama-Kai, known as ‘THE OLD KING STREET LAUNDRY HOUSE.’”

Figure 11, a portion of an 1878 map showing an early depiction of Liliha Street (southeast side of project area) and King Street, also shows the OR&L railroad line south of the project area just mauka (inland) of the prison, and a couple house sites in the project area.

Figure 7. Portion of 1855 map showing Honolulu Harbor and environs by J.M.H. de La Passe (Fitzpatrick 1986:82-3) with approximate location of project area in dense cluster of lo‘i kalo (taro ponds)

Table 1. Summary of Land Commission Awards in and near the Mayor Wright Homes Project Area

LCAw ('āpana)	Acres	Land Use	RP	Name	'Ili	Location Relative to Project Area (PA)	Comments
2072:2	0.30 ac.	2 lo'i kalo & 1 garden house	5572	Kapaalua	Kapahaha	Adjacent to PA (outside PA) between it & King St.	RP 5572 dates to 1864 and includes 3 'āpana in all under LCAw 2072 (2.15 acres in total)
2072:3	0.25 ac.	1 lo'i				*Partially in PA along King St. side (mostly out of PA to King St. side)*	
8525-B:1	1.74 ac.	?	8185	J.A. (Julia Alapa'i) Kauwa (w)	Kapahaha	*Partially in PA at W corner (partially out of PA)*	This appears to be Ali'i (High Chiefess) Julia (or Juliana) Alapa'i Kauwa, or Kauwa'a (born c. 1814, died 1849), described as the Konohiki by some; RP 8185 dates to 1906, and instead of using the term 'āpana, says "part"; she received (and relinquished) many land awards; she received awards in Kona (O'ahu) and 'Ewa, as well as Maui and Moloka'i.
1285:4	1.24 ac.	2 lo'i	1982	Kaluau or Kaluau , W. (w)	Kahawali	*Partially in PA at W corner (partially out of PA)*	Indices of Awards (1929) indicate she received 4 'āpana under LCAw 1285 w. 'ili listed as Kauwai (Kauaowai), Kapahaha & Kahawali (Kahawali o Kaeo); Waihona 'Aina listed the 'ili as "Kapahaha & Kahawali"; claims (NR) she received a house lot from Kapaahua at the time of Kinau; calls J.P. Alapa'i the Konohiki
1405:1 (por.)	1.90 ac. (total)	8 lo'i & 1 house site (total)	5553 (por.)	Pihiliili	Kahawali	**Completely in PA**	This LCAw also associated with RP 2397 ('ili also spelled Kahawale in some documents); 'āpana 1 seems to have been partially taken (or sold?) during LCAp 1192
1405:1 (por.)						**Completely in PA**	
1405:4						**Completely in PA**	
933:1	1.05 ac. (total)	3 lo'i & 1 house site	1226	Kamae	Koiuiu	Adjacent to PA (out of PA) south of Desha Lane	Incorrectly spelled Kiouiu in Indices of Awards (1929); he was awarded 4 'āpana in all under this LCAw
933:2						**Completely in PA**	
933:3						*Partially in PA at NE corner (partially out of PA)*	
1078*	0.62 ac.	3 lo'i kalo & 1 "small hut"	4393	Naili or Naihe*	Kahawali	**Completely in PA**	* Naili (or Naihe) for Kanui (cf. Indices of Awards 1929); this 'āpana identified as "loi" on Pihiliili's survey map; Indices of Awards (1929) state: "Awarded by Privy Council by Resolution dated June 23, 1856"; received in Boki's time (i.e., probably 1820s); referred to as an 'ili 'āina
605:2	1.29	3 lo'i	4423	Kalunaaina for Lupe	Keoneula	**Completely in PA (along Pua Lane side)**	Kalunaaina received these lands from Kamehameha III in the time of Ka'ahumanu; he died in 1846 and gave lands to his only child (daughter named Lupe); this award had 6 'āpana; description of 'āpana 2 includes 'auwai
605:3	0.66	2 lo'i				**Completely in PA (along Pua Lane side)**	
6236	6 contiguous 'āpana; total 3.56 ac.	Multiple lo'i	See Comments	Kaaiawaawa	Koiuiu	**Completely in PA (in S corner)**	Unclear if all 6 'āpana are in the project area; there are 6 different Royal Patents: 7339, 8160, 8296, 8338, 8339 & 8342
36 F.L.	0.85 ac.	Lo'i	2248	Nakilaku (or Nakileku)	Aala	Adjacent to PA (outside of PA) near corner of Liliha & Vineyard	--
3 F.L.	0.57 ac.	4 lo'i	2684	Kapo	Hauhaukoi	Adjacent to PA (outside of PA) along Vineyard	In addition to 4 lo'i, "loi maloo" (dried up or not-in-use) lo'i are also mentioned in NT; received in 1839 from (or at the time of) Kinau
2 F.L.	0.67 ac.	5 lo'i & 1 house site	2102	Kamoku	Hauhaukoi	*Partially in PA along Vineyard (partially out of PA)*	Received land from (or at time of) Kinau circa 1839; house site called a "kahuhale"
8520:1	?	?	8197 (por.)	Kaeo, Iosua	Kahawali, Kapalama	**Completely in PA**	Claimant received several 'āpana in different places—even different islands—under same LCAw 8520; e.g., 'āpana 4 is on Lāna'i; 'āpana 2 & 3 are on Maui; 'āpana 5 is Hilo, and so on
8520:1	?	?	8197 (por.)			*Partially in PA along Vineyard (partially out of PA)*	
8520:1	?	?	8293			Adjacent to PA (outside of PA) at N corner	
2107:1	0.37 ac.	2 lo'i iloko (taro/fishpond)	4528	Kahina	Kahawali	**Completely in PA**	Claimant received 3 other, nearby 'āpana under a different Royal Patent (7254)
2107:2	0.42 ac.	Lo'i				*Partially in PA along Vineyard (partially out of PA)*	
640	0.63 ac.	4 lo'i & 1 house	8239	Kamahalo	Hauhaukoi	Adjacent to PA (outside of PA) along Pua Lane	Called "Land Patent" rather than Royal Patent; received in time of Kinau
8613:2	1.40 ac.	6 lo'i	7446	Keonekapu, J.	Hauhaukoi	**Completely in PA**	'Auwai entering from mauka land
25 F.L.	0.37 ac.	3 lo'i	4518	Kukui (w)	Hauhaukoi	**Completely in PA**	Just NE of Kukui St. extension; Kukui was a woman (wahine); received in 1843
4747:2	0.98 ac.	7 lo'i	5610	Kama (w)	Leleo, Koiuiu	**Completely in PA**	'Āpana 1 located in Kapalama; Kama was a woman (wahine); received land from (or at time of) Kinau circa 1839
1362	0.46 ac.	2 lo'i	2681 (por.)	Naholowaa**	Keoneula	**Completely in PA**	** Naholowaa for Hoa (wahine), according to Indices of Awards 1929); FT says this Naholowaa had no claim to the land, he was only a "working man' under Hoa. "She told me to send in a claim for it as she was afraid she should not get her claim in before the Commission."

Abbreviations: LCAw = Land Commission Award; LCAp = Land Court Application; por. = portion; PA = Project area; RP = Royal Patent; NR = Native Register; NT = Native Testimony; FT = Foreign Testimony; w = wahine (woman).
Bold text = LCAw entirely within Project area; *italics = LCAw partially in/partially out of Project area;* plain text = immediately adjacent/abutting Project area

Figure 8. Land Commission Awards (yellow highlights), Land Court Applications (green highlights) and Land Grants (blue highlights) on a (client-provided) 1939 base map; see text for discussion

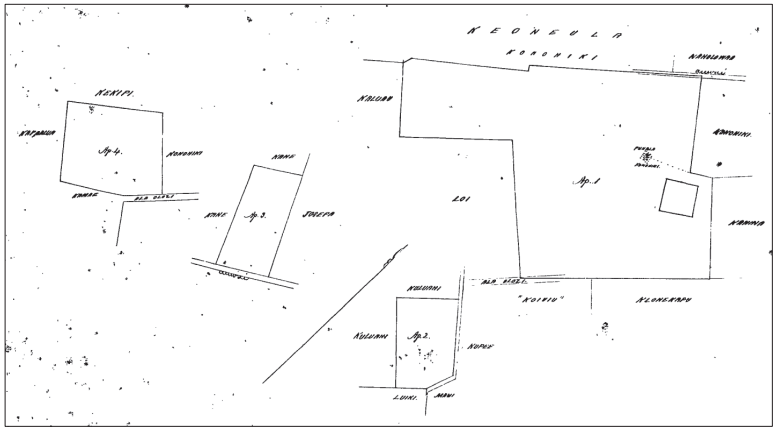

Figure 9. Survey map (circa 1854) from LCAw 1405 (to Pihiliilii) showing ‘auwai entering upper right corner of ‘āpana 1 (source: Papakilo database)

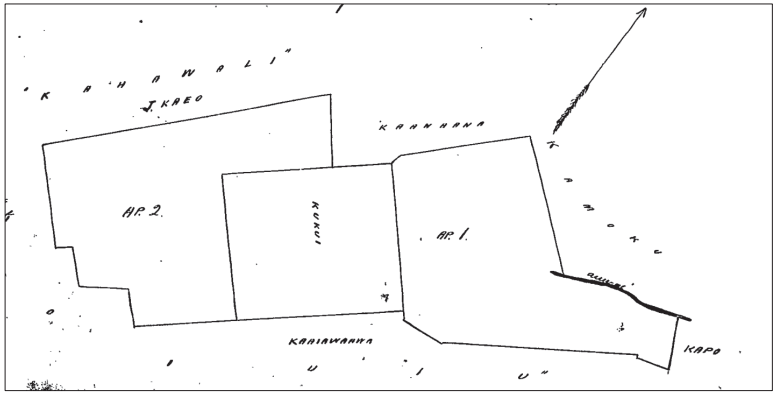

Figure 10. Survey map (circa 1853) from LCAw 8613 (to Keonekapu) showing ‘auwai entering from right of ‘āpana 1 (source: Papakilo database)

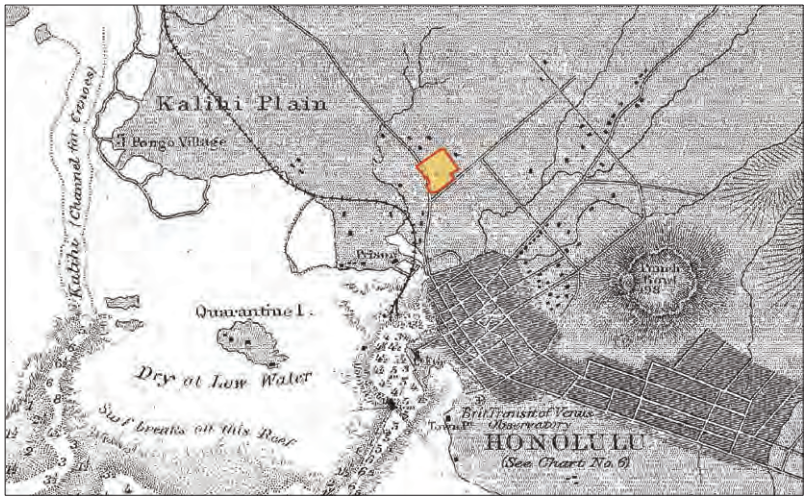

Figure 11. Portion of 1878 map (Registered Map 1505) showing Liliha Street (southeast side of project area) and an early alignment of King Street; note OR&L railroad line (source: DAGS Land Survey website)

Figure 12 is a portion of a draft map created between 1876–1881 by Lyons and Covington (working separately, not together) showing the project area and environs. As discussed by Moffat and Fitzpatrick (2004:40), there are some geospatial inaccuracies on this map, which makes georeferencing of the project area impossible. We have included this map because it shows some important cultural information and place names (e.g., an early depiction of Iwilei), as well as the Insane Asylum mauka of the project area.

Figure 13 is a portion of an 1887 map by Wall showing Liliha and King streets. *Note, the labelling of the large structure within the project area ("R. Keliikolani") is incorrect, and should read Queen Lili'uokalani*. An important wahi pana, Kunawai Spring, is depicted mauka of project area, just west of Liliha Street.

Figure 14 is a portion of an 1893 map by Wall showing many more cultural details than the previous (1887) version. The Queen's residential compound has been correctly labelled (Lili'uokalani) in this version; note, also, the extensive cross-hatching mauka of the project area and around Nu'uanu Stream that appears to depict lo'i kalo and/or other type/s of cultivated fields.

Figure 15, a portion of an 1897 map by Monsarrat, shows many Hawaiian place names, a new (not seen on other historic maps) pond mauka of School Street ("Waikahalulu"), and the advent of rice cultivation west and northwest of the project area.

The Royal Residences of Kapālama

As documented by the local historian, Ralph Thomas Kam, there were once large residential complexes belonging to Queen Lili'uokalani—in the western portion of the current project area—and Princess Ruth Ke'elikōlani—just west of Pua Lane, as late as the end of the nineteenth century (Kam 2013). Several historic maps reproduced below (see Figure 13 to Figure 15) show the location of the Queen's place. Princess Ruth's was just west of this (see caption to Figure 15).

As Kam (2013:147) points out, this area was once a kind of "suburb for the elite of Honolulu." Most of the details in his research article are beyond the scope of this CIA, but interested readers will find a wealth of historical information in his paper entitled *Remembering the Royal Residences of Kapālama: The Homes of Princess Ruth Ke'elikōlani and Queen Lili'uokalani.* Here, we focus on some highlights from the results of his research.

1. It is remarkable that there are no historical markers or signs whatsoever at the locations of these places, which belonged to two of the most powerful Hawaiian Ali'i Nui in the late period of the Hawaiian Kingdom. Likewise, there is no systematic photographic record of these places, whose characteristics Kam had to reconstruct using mostly contemporary newspaper and magazine accounts.
2. Princess Ruth's place was called Mauna Kalama, and it was bounded by Asylum Road (now called Pālama Street) on the northwest, King Street to the southwest and what is now Pua Lane. The current Kanoa Lane bisects the Mauna Kalama site. Princess Ruth only lived at this house for less than five years, as she passed away in 1883. By 1884, with the death of Bernice Pauahi Bishop, the property became part of the Bishop Estate-Kamehameha Schools holdings, and was put up for rent or lease. Kam relates interesting details of a prominent Hawaiian who rented this house, Joseph Kaho'oluhi Nāwahī, an attorney who opposed annexation by the United States. For example, "[a]s a key leader of the opposition, his Kapālama home was searched for weapons on the evening of Saturday, December 8, 1894" (ibid.:150)
3. After Nāwahī's death in 1896, the mansion was transformed into the Pālama Chinese School, a missionary boarding school (Seventh Day Adventist). After the school moved to another location by 1900, the Bishop Estate commenced subdividing the property in order to lease it out in portions. A major undertaking needed to accomplish this was the filling of agricultural wetlands that surrounded the residence; historical records described by Kam indicate it took more than 24,000 wheelbarrow loads of fill to complete this project (ibid.:153).
4. In 1885, the Queen (then still Princess) Lili'uokalani had a residential estate built within the boundaries of the current (CIA) project area called Mu'olaulani,[4] which Kam believes may have been named after Princess Ruth. She purchased the land "for $8,000 from a couple who had bought the property from the widow of Simon K. Ka'ai" (ibid.:158).
5. In addition to serving as a residence for Lili'uokalani and a place to entertain guests, Mu'olaulani was also used for meetings of the Liliuokalani Educational Society, "whose aim was 'the care and education of needy orphan children'" (ibid.:161). King David Kalākaua made a special presentation at Mu'olaulani in honor of his sister's 48th birthday. Other famous people (e.g., Robert Wilcox) and occasions were also marked at this residence.
6. In 1889, Lili'uokalani returned to live with her husband, John Owen Dominis, at Washington Place. At the time of the ill-fated rebellion led by Wilcox, in 1889, he was staying at Mu'olaulani, and Lili'uokalani was guilty by association. Her house was used over the years by those resisting the U.S. take over. After she was jailed in January, 1895, the house was leased out to British Commissioner and Consul-General, Albert George Sidney Hawes.
7. By 1901, Mu'olaulani was leased out and being used as a Japanese hotel. By 1906, Mu'olaulani was "divided into fourteen separate residences and labeled as a tenement" (ibid.:169). As Kam points out, this term (tenement) does not imply it was a slum, rather, it was used to refer to properties rented out to multiple families. The 1906 Dakin map (see Figure 17, below; see also Kam 2013:170) shows what the outline of Mu'olaulani looked like after it was subdivided into tenements. Numerous lessees rented the property over the next several years. After Lili'uokalani's death in 1917, the original structures at Mu'olaulani continued to be altered and partially razed. Even the remnant portion of surviving Mu'olaulani that can be seen at late as the early 1950s (on a Sanborn map) was gone by the time Mayor Wright Homes was complete in 1953.

[4] Pukui et al. (1974) translate this as "innumerable royal buds."

Figure 12. Portion of draft 1876-1881 map (Lyons/Covington) showing project area environs; there are some geospatial inaccuracies on this map, which makes georeferencing of project area impossible (see arrow for approximate location); this map shows some important cultural information and place names, which is why it is reproduced here (see Moffat and Fitzpatrick 2004:40) (source: U.S. Library of Congress website)

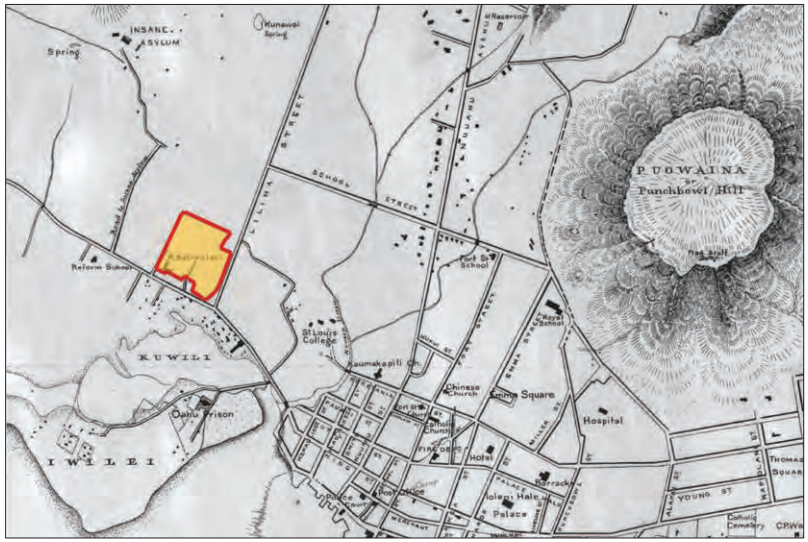

Figure 13. Portion of 1887 (Wall) map showing Liliha St. and King St.; *labelling of structure within project area ("R. Keliikolani") is incorrect, and should read Queen Lili'uokalani*; note location of Kunawai Spring mauka of project area (source: U.S. Library of Congress website)

Figure 14. Portion of 1893 (Wall) map (Registered Map 1690) showing many more cultural details than the 1887 version (previous image); note that the Queen's house (Liliʻuokalani) has been correctly labelled in this version; note, too, the cross-hatching mauka of the project area and around Nuʻuanu Stream that depicts loʻi kalo and/or other type/s of cultivated fields (source: DAGS Land Survey website)

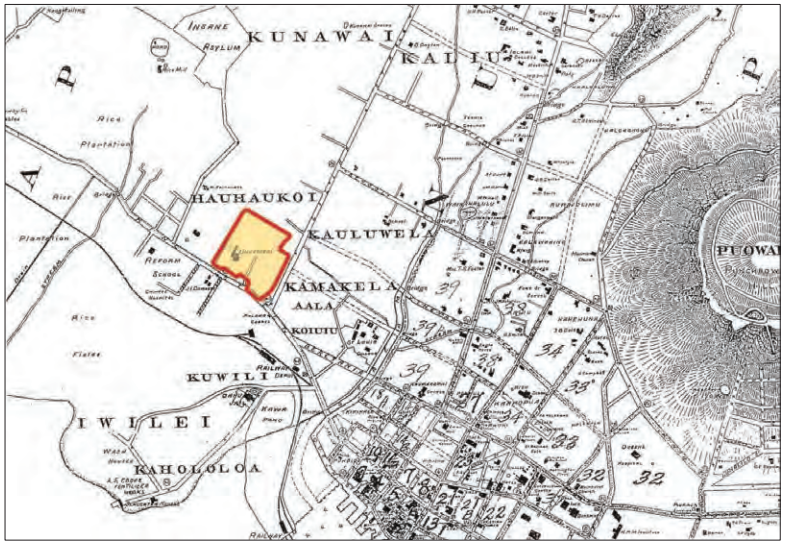

Figure 15. Portion of 1897 (Monsarrat) map (Registered Map 1910) showing many Hawaiian place names, a new (not seen on other historic maps) pond mauka of School St. ("Waikahalulu"), and the advent of rice cultivation west and northwest of the project area (source: UH-Mānoa MAGIS digital collections)

Early Twentieth-Century Developments in and near the Project Area

Figure 16, a portion of 1901 map by Monsarrat, shows early neighborhoods and blocks with Hawaiian place names and formalization of many streets. Note that Queen Lili'uokalani's place is no longer depicted in the project area on this map. Newspaper articles in the *The Pacific Commercial Advertiser* from 1902 list many building permits for 1- and 2-story wooden structures. In 1900, the *Evening Bulletin* listed many building permits for wooden structures for Chinese names near Pua Lane and King Street.

A series of 1906 fire insurance maps prepared by Dakin, stitched together into Figure 17, shows the first detailed view of what specific types of structures were built in the project area. By this time, it contained many residential ("tenements"), commercial and light industrial structures, including a large soy factory (Hawaiian Soy Co., Ltd.) along Pua Lane, a small church (Palama Christian Church), laundries, a Japanese hotel, and small "factories" (to make candy and mattresses) along Liliha, as well as horse stables. "Market gardens" and remnants of the taro fields were also present in the mauka portions of the site.

A sampling of 1906 real estate transactions listed in *The Pacific Commercial Advertiser,* however, continues to highlight the importance of agriculture in the project area: "10 taro patches" at Kapahaha sold for $2,250, and another (same description) for $3,250. A 1907 listing in the *Hawaii Star* listed sale of a piece of land within the project area (LCA 1405:4, RP 5553 originally to Pihiliilii) for $400 from Caroline K. Silva and husband to Emmeluth Trust.

Contemporary accounts from this time period illustrate the growing pains of an urban setting in development, with a letter to the editor in 1909 (in *The Pacific Commercial Advertiser*) complaining about pot holes on Pua Lane, unsanitary conditions and possible typhoid (1905, *The Pacific Commercial Advertiser* and *Evening Bulletin*) at Pua and Desha lanes, and the need for sewer pipe installation in this area (1908, *The Pacific Commercial Advertiser*).

Figure 18, a portion of 1909 survey map from Land Court Application 170, shows several surrounding kuleana parcels (Land Commission Awards), and still depicts an 'auwai system entering from the mauka (upslope) side. The continuing importance of this area for agricultural purposes is highlighted by an earlier (1902) article in the *Evening Bulletin* (front page, September 1) of a man getting attacked by two other men and running to escape: "He managed to run away from his assailants by crossing the taro patches which lie between Liliha street and Asylum road."

Figure 19, a portion of 1912 map by Monsarrat, shows neighborhoods and blocks with Hawaiian place names and the formalization of streets and lanes within the project area, including the Kukui Street extension (which was never built, but turned into the central driveway of the Mayor Wright Homes.

Figure 20, a series of 1914 Sandborn fire insurance maps (stitched together), shows a reduction in the overall extent of cultivated garden areas. The previous (1906) location of the "Palama Christian Church" is now labelled "Auto Painting," and a new structure labelled "Moving Pictures" is located just west of this building. In 1916 advertisements in the *Honolulu Star-Bulletin,* people advertised their trades at Desha Lane as including a building/contractor (Miyamoto) and one (Tanabe) who offered massage and "bone setting." A 1917 article in the same paper describes ongoingtroubles with illegal liquor-making operations.

Figure 21, a portion of 1920 map by Monsarrat, shows neighborhoods and blocks with Hawaiian place names, and new ones just southeast of project area; note also an early (perhaps the first) depiction of the location of "Palama Settlement" south of King Street (before it eventually moved to its current location north of the project area).

Figure 16. Portion of 1901 (Monsarrat) map showing neighborhoods and blocks with Hawaiian place names and formalization of many streets; note, Queen Lili'uokalani's place is no longer depicted on this map (source: UH-Mānoa MAGIS digital collections)

Figure 17. Series of 1906 Dakin fire insurance maps (stitched together); Liliha Street at bottom of image, Pua Lane at top; note large area dedicated to taro and "market gardens"; see text for other details (source: UH-Mānoa MAGIS digital collections)

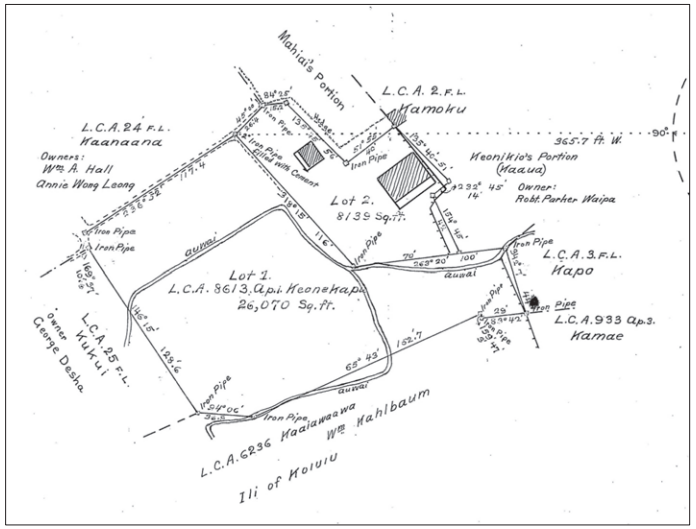

Figure 18. Portion of 1909 survey map from Land Court Application 170 showing several surrounding LCAw (kuleana parcels); note 'auwai system entering from mauka side; intersection of Liliha and Vineyard is just outside of the image to the lower right (source: DAGS Land Survey website)

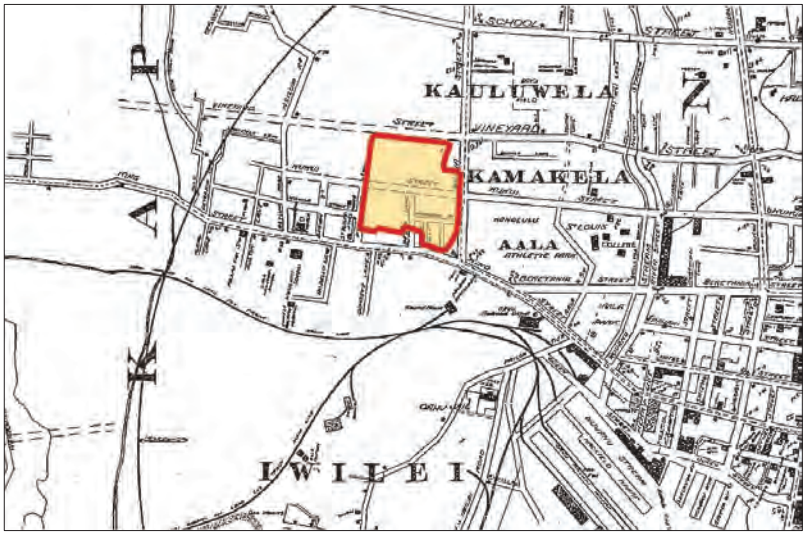

Figure 19. Portion of 1912 (Monsarrat) map showing neighborhoods and blocks with Hawaiian place names and formalization of streets within the project area (source: UH-Mānoa MAGIS digital collections)

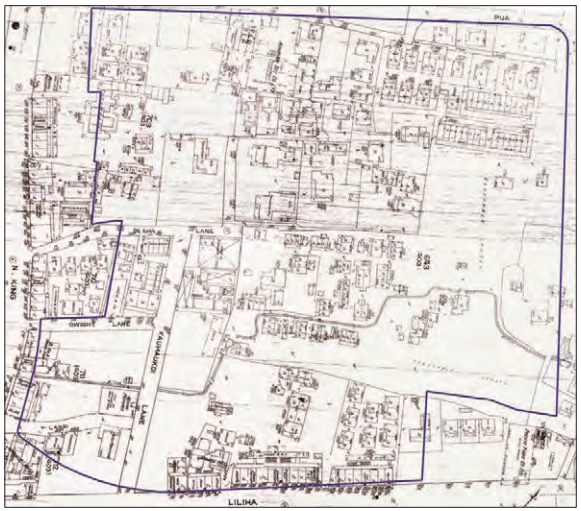

Figure 20. Series of 1914 Sandborn fire insurance maps (stitched together); Liliha Street at bottom of image, Pua Lane at top; note reduction in cultivated gardens area; see text for other details (source: UH-Mānoa MAGIS digital collections)

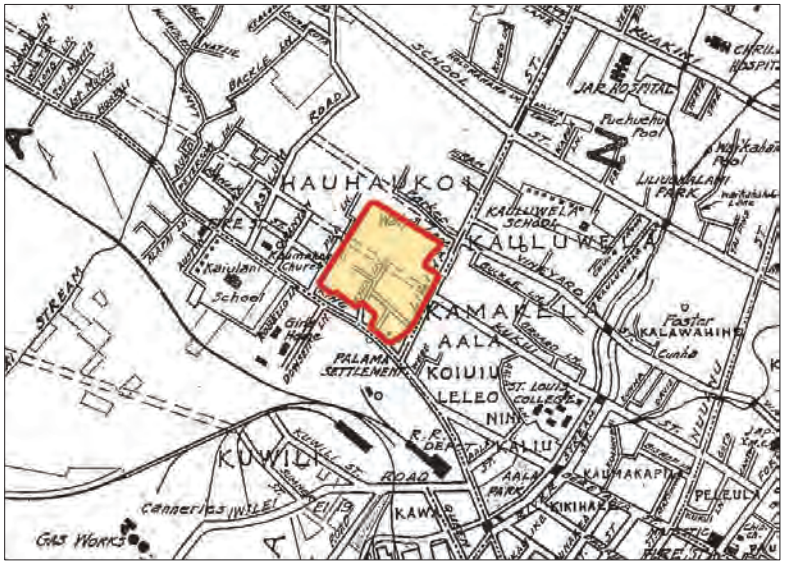

Figure 21. Portion of 1920 (Monsarrat) map showing neighborhoods and blocks with Hawaiian place names, and new ones just southeast of project area; note location of Pālama Settlement south of King St. (source: UH-Mānoa MAGIS digital collections)

Figure 22 is a portion of a 1920 Land Court Application 463 map showing several surrounding kuleana parcels (Land Commission Awards), and illustrating the continuing presence of an ‘auwai system and rectangular garden plots in portions of the current project area. By this time, it is likely that these gardens, were at least in part, growing commercial crops and not just subsistence foods.

Figure 23, a series of 1927 Sandborn fire insurance maps (stitched together), shows a substantial reduction in the amount of area devoted to cultivated gardens. By this time, apartment structures (tenements) had taken over nearly all of the project area with just a couple commercial operations remaining along Liliha and Pua Lane. A dance hall replaced the previous location of the auto painting structure, and a Filipino Missions and Social Club appeared in the corner parcel—just outside the project area, at the intersection of Liliha and Vineyard.

Figure 24, a comparison of 1927, 1933 and 1943 USGS topographic maps of the project area shows no changes in the project area during this time, which is not accurate. It also fails to depict most of the structures known to be in the project area based on the fire insurance maps. This is a cautionary lesson for interpreting such maps as indicting the lack of structure in maps of Honolulu at this (early to middle twentieth century) time.

Figure 25 is a 1939 map of site conditions. Along with Figure 26, a portion (detail) of a 1940 aerial photograph including the project area block about a decade prior to construction of Mayor Wright Homes, illustrates the continuing trend towards apartment buildings and residential structures.

Figure 27, a series of 1947 Sandborn fire insurance maps (stitched together), shows extensive razing (demoliton) of structures compared with 1927 maps, presumably in antipication of the Mayor Wright Homes development.

Figure 28 is a portion (detail) of a 1952 aerial photograph including the project area block during (in-progress) construction of Mayor Wright Homes.

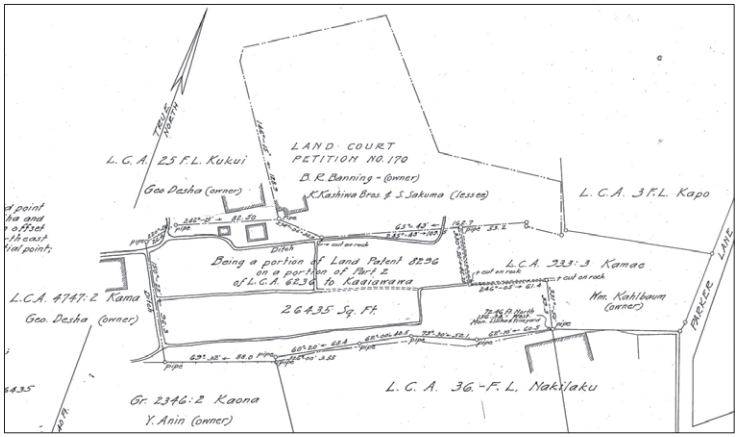

Figure 22. Portion of 1920 Land Court Application 463 showing several surrounding LCAw (kuleana parcels); note ‘auwai system and rectangular garden plots; intersection of Liliha and Vineyard is just outside of the image to the lower right (source: DAGS Land Survey website)

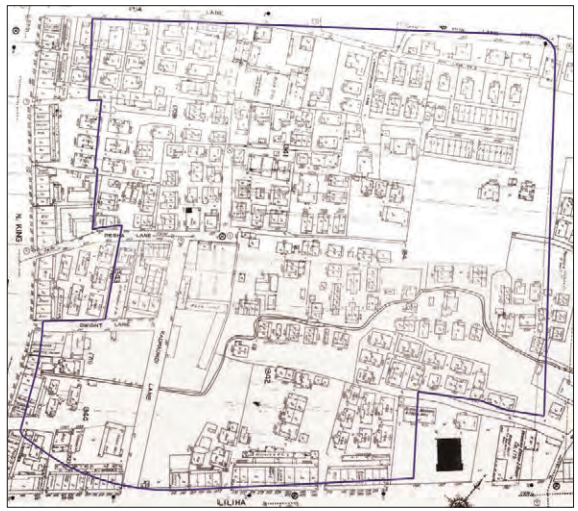

Figure 23. Series of 1927 Sandborn fire insurance maps (stitched together); Liliha Street at bottom of image, Pua Lane at top; note reduction in cultivated gardens area; see text for other details (source: UH-Mānoa MAGIS digital collections)

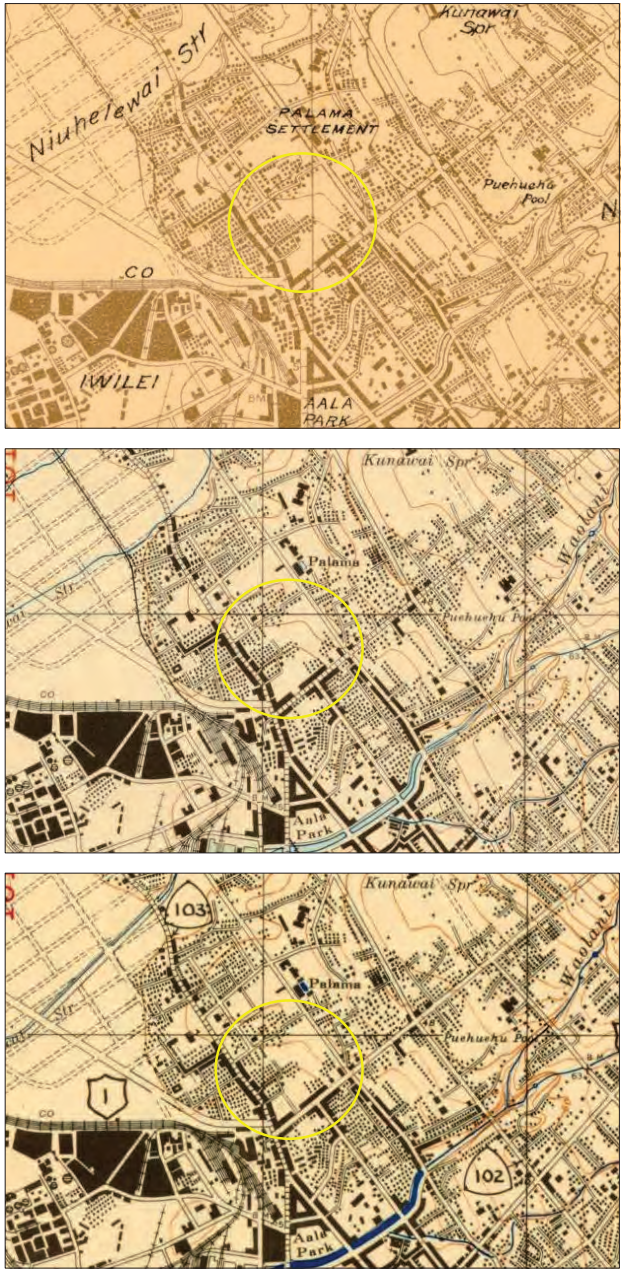

Figure 24. Comparison of 1927 (top), 1933 (middle) and 1943 (bottom) USGS topographic quadrangles showing no changes in the project area during this time (which is not accurate); project area block circled in each image (source: UH-Mānoa MAGIS digital collections)

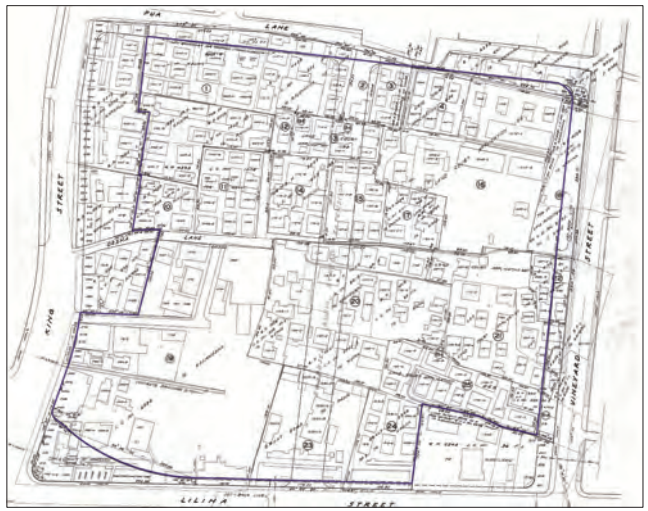

Figure 25. 1939 (client-provided) map of site conditions

Figure 26. Portion (detail) of 1940 aerial photograph including project area block about a decade prior to construction of Mayor Wright Homes (source: UH-Mānoa MAGIS digital collections)

Figure 27. Series of 1947 Sandborn fire insurance maps (stitched together); Liliha Street at bottom of image, Pua Lane at top; note extensive razing of structures compared with 1927 maps; see text for other details (source: UH-Mānoa MAGIS digital collections)

Figure 28. Portion (detail) of 1952 aerial photograph including project area block during (in-progress) construction of Mayor Wright Homes (source: UH-Mānoa MAGIS digital collections)

Oral History Information from the Twentieth-Century in and near the Project Area

In the late 1990s, the University of Hawai'i-Mānoa's Center for Oral History (UH-COH) completed approximately 30 interviews with people who once lived or worked at Pālama Settlement (UH-COH 1998). Many of those interviewed had specific knowledge of Mayor Wright Homes and its immediate environs.

Pālama Settlement Oral History Interviews

Historical details of the founding and evolution of Pālama Settlement, as described in the University of Hawai'i's study (UH-COH 1998), offer some pertinent information regarding the current project area. We quote this study in some detail below, with annotations and comments added about the current project area. According to UH-COH (1998:Introduction page to interviews),

> On June 2, 1896, Honolulu philanthropist P.C. Jones built Palama Chapel at the corner of King and Liliha streets in Palama, O'ahu. . . Palama was home to mostly working-class Hawaiian families.

Note, the Dakin fire insurance map from 1906 reproduced as Figure 17 (above) shows a structure labeled "Palama Christian Church" in the lower left-hand corner at the intersection of King and Liliha. *Thus, the precursor to Pālama Settlement was actually located in the current project area.* Note also use of the term "Palama" (or sometimes Kapalama in other historical resources) to refer to this area. The quote continues:

> In 1900, as Honolulu health officials attempted to rid the nearby Chinatown area of bubonic plague, fire destroyed a four-block section [in Chinatown]. Displaced residents took up residence in newly built tenetments in Palama, changing the physical, social, and economic make-up of the community. (ibid.) [brackets added]
>
> After a territorywide fund-raising effort, Palama Settlement in 1925 moved to its present location [along the mauka side of Vineyard Boulevard, just mauka of the current project area] with nine buildings spread over eight acres of land. (ibid.)

It is interesting to note, as depicted in a 1920 map (see Figure 21, above), it appears that Pālama Settlement was once located in yet another, different place just makai (south) of King Street.

Of more direct relevance to the summaries of the people interviewed by UH-COH (1998), because these are the times in which they lived and have direct experiences and memories, World War II and the post-war years initiated "widespread changes in Hawai'i's social, economic, and political environment … [including] … the way social agencies such as Palama Settlement addressed community needs" (UH-COH 1998:Introduction page to interviews), in essence, moving away from a strictly place-based service provider to one that began to offers programs for a fee and that served people regardless of where they lived. Due to the civil rights and anti-poverty legislation of the 1960s and 70s, which brought in large amounts of federeal money, this time period was a kind of "golden age" for the services and activities offered by Pālama Settlement.

A total of 12 interviewees from UH-COH's (1998) project discused Mayor Wright Homes, as summarized below. Note, these are arranged alphabetically by last name.

Edward "Skippa" Diaz, born in Kalihi in 1944, is the third of seven children. He and his family moved into Mayor Wright Homes when it opened (around 1953). He spent lots of time at Pālama Settlement doing sports, including karate and swimming, as well as learning a muscial instrument. He did the camping and other club activities as well. After earning degrees (up to a Master's) at Oregon State Univeristy, playing professional football and teaching in Washington state, he returned to the islands in 1972. He has taught and coached in the public school system ever since, and most recently, has been the coach of Farrington's football team.

He started his interview by saying his was one of the first families that moved into the brand new Mayor Wright's (this phrase, "Mayor Wright's," is how many people refer to Mayor Wright Homes, and these terms are used interchangeably in this section) when it opened in 1953. He had fond memories of all the activities and programs that Pālama Settlement had to offer.

Skippa Diaz described himself as kind of a "kolohe" (rascal), and said Pālama Settlement staff helped guide him to be a better person. He also talked about life at Mayor Wright's:

> Well, it was just like it is right now. It's a tough row to hoe. There's a lot of harsh things going on in the community. Economically, (socially), the things we lack in those areas really make life—a lot of mistakes over and over and over. So you see that a lot. But you also see people grabbing themselves by the bootstraps like that Horatio Alger kind of stuff and then stepping out of there. In the span of their own lifetime. (UH-COH 1998:829)

Lorin T. Gill, born in Honolulu in 1928, was raised in Tantalus. After receiving his B.A. from the University of Hawai'i in 1951, he took more courses at the university in social work, eventually joining Pālama Settlement in 1953. He developed camping and hiking programs. He eventually rose to the level of director of Pālama Settlement.

He discussed at length the history of Samoans coming Mayor Wright Homes, and having to fulfill family and social obligations by letting many members of their extended families come and stay with them, even though it was against the rules.

Jennie Lee In, born on the Big Island, moved to the Kauluwela/Liliha area of O'ahu when she was seven or eight years old (after the death of her mother). She was the seventh of seven children. Her father was born in China. Her mother, also Chinese, was born in the islands. Jennie Lee In obtained a degree from the University of Hawai'i in vocational home economics. She also earned a Master's degree in New York. She worked for a few years at Pālama Settlement as a social worker.

When she left a position at the Red Cross to work at Pālama, she was relatively inexperienced, and in her job interview to work at Pālama, she was asked question like, "Are you afraid to walk into Mayor Wright [Homes] housing?" She answered honestly,

> And I said, "Maybe the first few times, I would have some qualms." But I said, "If I walk into a hospital room with 150 patients and I get somebody scream at me, 'Get the hell out of there,' I don't think that could be any worse than walking into someplace in Pālama." I said, "I'm a local girl. What can they do? They're not about to swallow me." Because by then, I had developed this kind of consciousness that most of the dangers are reflected by your fear or lack of fear in a situation. (When) you walk in confidently, knowing what you're doing is right, then (you) would be generally safe. (UH-COH 1998:323)

She shared about trying to involve families and kids from Mayor Wright's into various programs that Pālama Settlement had to offer.

Bertha Lee Nahoopii, born in Honolulu in 1931, grew up in Kapahulu, but after receving her degree from the University of Hawai'i, was hired in the middle 1950s as a recreation instructor and, later, athletic director, at Pālama Settlement. Later, she worked as a policewoman with the Honolulu Police Department.

She talked about how, even after she left Pālama Settlement to work for the police, that she continued to be involved with juveniles at both Pālama and Mayor Wright, even spending some of her own money "to take the kids sometimes, you know? Go out, take them out, have a lunch or dessert or something" (UH-COH 1998:70):

> Oh yeah, they're all from the Mayor Wright [Homes] housing and Pālama [Street] so … Lot of parents were on welfare, I think. So they didn't have too much, especially the kids who came from the Mayor Wright area. Parents were not working.

Janet Nakashima—the oldest of 10 children—was born in Honolulu in 1921, and raised in Pālama. After a career in social work, she retired in 1996. Starting in 1965, she worked with Mayor Wright Homes through a Pālama Settlement-sponsored community action progam. She "started as one of the community org[anization] staff members under Shungo Okubo's supervision, and set up office in (an apartment in) Mayor Wright [Homes]" (UH-COH 1998:23). She had very fond memories of working at Mayor Wrights:

> We worked closely with the director of the Mayor Wright housing project and his tenant relations advisor, (Mrs.) Irene Fujiwara, and we had a ball. We were given an apartment which the residents themselves named Hale Kōkua. The whole purpose was to give some of the local women from the Mayor Wright Homes a chance to be trained and serve as outreach workers, paraprofessionals. (Their mission was) to get to know their neighbors and their concerns. (ibid.)

She described training several staff to inform Mayor Wright's residents about resources at their disposal, educational and vocational classes and other opportunities, including sewing classes and the establishment of a small library. She discussed the way that her trained staff occupied buildings throughout the complex as a way of integrating and interacting with the residents:

> …the aides were assigned certain building (within the housing project), They would get to know the residents of (their assigned) building and talk to—you know, they would have coffee hours and have the men and women get together and *talk story,* and express (their) concerns. And out of that (emerged a meeting), one of the things that we felt real good about. (UH-COH 1998:24)
>
> Also, the management, I think, found that the residents began to feel less intimated by them. And instead of seeing (management) as adversaries, they began to feel okay about letting them know, "Hey, you know this isn't working right," or whatever. And so, we feel that the aides provided some real meaningful kind of services. (UH-COH 1998:25)

Janet Nakashima also shared her experiences of the different ethnic and cultural groups she worked with over the years at Mayor Wright Homes:

> When I first started, just before the war, and during the war years, I guess there was a good-sized Japanese, Oriental population in and around Pālama. You know, Desha Lane [which is surrounded by the current project area] and all that. Then by the time I came back from Pittsburg and went back to work after my first two children, Mayor Wright had come up [been built, in 1952-3] . . . And so we began having an influx of non-Orientals—Hawaiians, part-Hawaiians, Samoans. (ibid.)

Earlene Piko, born in California in 1931, was raised in Westwood, California. She earned a B.A. in microbiology and nursing from UCLA. She also earned a Master's degree and did work towards a doctorate in educational phychology. She came to Hawai'i in 1952, and worked innovative youth programs at Pālama Settlement. During these years, from 1963 to 1979, she lived at the settlement.

In response to a question from her interviewer, and as "the only Haole in a sixteen-block area," Earlene Piko said,

> I was never afraid. I never locked my door. Really never crossed my mind that there was anything to be afraid of. . . . Everybody knew me. They didn't know my name, but they knew what I was. I was this Haole—they called the white-haired biddy that lived down there. . . . If I had business in Mayor Wright [Homes] housing at a house, I went to it. Night, morning, any kind, and felt perfectly safe. (UH-COH 1998:792)

She also talked quite a bit about gangs and fighting between Mayor Wright's and other places, such as Kūhiō Park Terrace. She said that back in this time, from the middle 1960s through the 1970s, these fights

did not involve weapons, only fists: "the knives didn't come in until later: (ibid.). She said the fights were not about money—because no one had any—and they were not about drugs; rather, they were just about pride.

She talked about the arrival of the Samoans as a difficult time because, according to Earlene Piko, they all (or nearly all) came from Apia (in Western Samoa), and were not used to modern conveniences. So, they had difficulty assimilating with the locals, especially Hawaiians and part-Hawaiians.

She described the demographic changes of the area:

> . . . the ethnic makeup of the area had changed really radically between '64, '63 and when the first big bunch of Samoans came in in the late [19]60s, probably '67 or '66. In those few years, that's when you had this mass influx from Samoa, right? Mayor Wright, when I first got here, was predominantly Hawaiian, part-Hawaiian mixed, a lot of Puerto Rican, chop suey. Mostly all chop suey. The Japanese in the area lived Waipā Lane, down to Liliha, down by the Japanese[-language] school there . . . There were hardly any Koreans. Koreans were an unknown factor. Filipinos, they didn't live in housing. They lived in these planned groups . . . UH-COH 1998:795)

Robert H. Rath was born in 1915 at the original Pālama Settlement—just makai (south) of the current project area, and his father was the first director of Pālama Settlement. When he was young, his mother taught Sunday school and English to immigrant families there. For the first 15 years of his life, he lived on the grounds of Pālama Settlement, but the family moved out in 1929 when his father died. Robert stayed involved with Pālama Settlement over the years, serving as president of the board of trustees.

Robert Rath talked about how the place of his birth (the orignal Pālama Settlement) later became the Komatsuya Hotel (at the time of the interview it was a Burger King). He shared some historical knowledge: that the "genesis of Pālama Settlement was Pālama Chapel and a man named Mr. P.C. Jones who was president of C. Brewer and Company, and one of the founders of Bank of Hawai'i" (UH-COH 1998:90). He shared that this particular congregation, the Central Union Church, struggled around the turn of the century and into the early twentieth century because most of the area residents were Hawaiian and its clergy did not speak the language (ibid.).

Staying with historical information, Robert Rath spoke about the last Hawaiian queen's relationship to the current project area (UH-COH 1998:91):

> … Queen Lili'uokalani had a home in that area [west corner of the current project area]. She liked to go there because [of] the informality as compared to being in the ['Iolani] Palace. A number of her retainers and a number of the *ali'i,* Hawaiian *ali'i* lived in the area where they were near her.

He then made the interesting connection between the struggles of Central Union Church in getting established around the turn of the century and the proximity of the Queen's house:

> …the predominantly Hawaiian group would in their minds connect Central Union Church's leaders with the overthrow of Queen Lili'uokalani in 1893. So there was a reticence on the part of the adult population of Hawaiians to assimilate with the Central Union Church. (ibid.)

Robert Rath also discussed the great Chinatown fire in 1900 that directly contributed to the construction of dense tenement housing in and around the current project area (ibid.):

> … the bubonic plague hit Honolulu Harbor and the Honolulu area. And they purposely burned down, they thought, a small section of Chinatown where people who had the plague had been residing. The fire got out of hand and decimated, just burned up that whole area, what is now Chinatown all the way through to 'A'ala Park. And that meant that those people had to be—they were displaced. And in a hurry tenements went up from 'A'ala Park, Liliha Street on through to what is now Mayor Wright housing. And that made it less desirable for

> the Hawaiian families to live there. They had enough wherewithal so they moved out and it turned into a vastly different community . . . [m]ore of an immigrant community or, you might say, the less wealthy Hawiians and others. There still [was a] substantial share of Hawaiians but they were not the *ali'i* retainers, Queen Lili'uokalani type of Hawaiian in there.

He also talked about what the area and neighborhood looked like when he was young (he was born in 1915):

> Well, looking up Liliha Street from the [old location of Pālama] settlement [the southeast of the current project area], on the right-hand side we had three-story tenement buildings, walk-ups. And the left-hand side were stores on the lower floor. Typical neighborhood type of grocery—and so on—stores.
>
> Many of the homes that were there . . . were community living. Lots of people packed into that area because, remember, there was panic when so many homes and so many people were displaced [by the Chinatown fire of 1900] that things were thrown up (quickly) for people to live in. Get something built quickly and move 'em in. Most of them, lot of them, had common cooking facilities. They didn't have their own kitchens. Common bath facilities. And I can remember as a kid mostly Japanese kids that I grew up with, you'd see 'em with their little towel and basket with soap. They used their (community) bath houses. They didn't have bathing facilities at home. (UH-COH 1998:95)

Recollecting from his childhood home at Pālama Settlement, he remembered " . . . a stream running back of us which would be now through Mayor Wright [Homes]" . . . "[a]nd you have to remember that there were taro patches up above what would now be Vineyard Boulevard, and rice fields. Those were all rice fields and taro patches" (ibid.).

Robert Rath also shared about Pālama Settlement staff doing outreach programs into Mayor Wright Homes (as well as Ka'ahumanu housing) to educate its residents about public health and other initiatives.

John E. Sharp, born in Tennessee in 1938, moved to Hawai'i in the early 1960s. Around 1967, after working for a year at the Kalihi YMCA, he was hired as a youth worker/coach at Pālama Settlement, where he lived for the next nine years. He eventually moved to O'ahu's northshore. Because it figures prominently in his interview, it is worth stating that Mr. Sharp is African-American.

His work at the Kalihi YMCA, and then later with Pālama Settlement, where he also ended up working with youth from Mayor Wright Homes, was geared towards "street gangs and . . . the hard-core kids," trying to get them involved in sports. He was accepted by the youth at the Kalihi position, but stated "it was kind of hard when I was at Mayor Wright's and Pālama [Settlement]" (UH-COH 1998:151).

He shared extensively about first coming to Pālama and becoming the head football coach, which also meant coaching the boys from Mayor Wright Homes:

> Football games, people be scared to go because the Pālama parents would be fighting if they lost. . . they were allowing these guys to bring booze and drink on the field and stuff. And there was not a lot of pride that I found in what the kids were doing. . .
>
> So, I had to make friends. I had to make friends with the parents first. . . We called all of the parents together from all the areas that had kids that was going to participate in the [sports] program. . . All I needed was their help and that is what I got. From the time that I started coaching Pālama, and I coached for fifteen years, from the day that I started to the day that I stopped coaching, I had the support of the community, the parents. . . you know why? Because we were winners. (UH-COH 1998:152)

He then goes on to discuss at length how he linked participation in sports at Pālama with doing well in school, finshing homework, and so on. He also talked about how the athletes were fed, and this helped everyone involved:

> The parents wanted their kids in the program because we didn't only have study hall, we had a training table, we fed 'em. (Laughs) Right out of Mayor Wright's they're eating on a training table, you know. So, this was something that turned the parents on because they could come to Pālama, get one good meal, and do their studies. (ibid.)

He went on to name several players, including Samoans, who ended up getting recruited to local schools such as St. Louis and Kamehameha, as well as the University of Hawai'i, including the Ma'afalas, Eddie Kealoha, Fituina Tua, the Noga brothers.

Don Snyder, born in Honolulu in 1943, was raised, along with two of his brothers, at Mayor Wright Homes by his mother (his parents had divorced, and his father lived on the mainland with his three older siblings). He played sports, took art lessons and learned how to play the clarinet at Pālama Settlement. After finishing his tour with the U.S. Navy, he earned a B.A. from the University of San Francisco in business (with a teaching certificate). He has lived on Maui ever since.

He shared that his mother was half Chinese, half Hawaiian, and that his father was Caucasian, so he, himself, is a mix. He discussed his first-hand recollections of growing up at Mayor Wright Homes:

> You know, it was a challenge. A real challenge. Because we had a variety of kinds of people that, you know, more the lower income. Because we were on welfare and everything at that time. And growing up there I met a lot of different people. We had people who would—gangsters in that area, some prositution going on. We had a lot of things like that going on, you know, shooting. But what really helped us was athletics. . . So Pālama Settlement was our saving grace. So we had a place of refuge. We would go there to get away from the other elements. (UH-COH 1998:522)

The interviewer then asked about what were some of the problems growing up at Mayor Wright's. Don Snyder answered as follows:

> Temptations. . . . Being poor, being on welfare, that lack of money. So you don't have supplies. You don't have equipment. You don't have the clothes. You steal. SO people go out there and go and take things for your needs. I used to go across the street to the store. And I took ice cream. I couldn't afford it. But you know, the guy at the store knew I was taking it. (UH-COH 1998:533)

Even after all the difficult times, however, Don Snyder said he had continuing associations with Pālama Settlement and Mayor Wright's for a long time:

> I still lived in Mayor Wright's. Yeah. You know, it's something about Mayor Wright's, Warren [the interviewer]. I mean, about Pālama Settlement. You never, never get away from it. It's always a part of you. When I went to Central [Intermediate], I used to walk to Central. 'Cause it was close to Mayor Wright's. I walked there. After school, I would start—at that time you met other friends, too, yeah? And I used to go to 'A'ala Park. (UH-COH 1998:532)

Jerry Tarutani, born in Kalihi in 1920, was the son of Japanese immigrants. His association with Pālama Settlement began in 1938 when he moved there with his mother and siblings. He played lots of sports there. He graduated from St. Louis School in 1938. He then taught judo at Pālama Settlement for an 35 years. He also served on the board of trustees.

Of relevance to Mayor Wright Homes, he discussed the fact that, unfortunately in his opinion, Pālama Settlement no longer (in the late 1990s, the time of the interview) served the people who need it most; that is, low-income folks with not enough opportunities. He extolled the good work of "Bobby" (Robert) Rath's father [James A. Rath], who started the settlement as "a place to come to learn any arts or crafts or

things like that.[5] And building their morale and dignity" (UH-COH 1998:612). He was disappointed that the settlement had gotten away from its original intent. "The guys that need it the most right now, in that community, is the Mayor Wright housing" (ibid.).

Fituina F. Tua, born in American Samoa in 1956, one of eight children, came to Hawai'i in 1958. He first lived across Liliha Street from Mayor Wright Homes, at what is now Kukui Gardens. Later, his family moved to Kamehameha IV Homes in Kalihi. At the age of 14, he started in the sports program at Pālama Settlement. In addition to earning a B.A. from San Jose State University, he also received a Master's degree from the University of Massachusetts. He has worked in the court system since 1991.

He shared that, when he lived across the street at (the current) Kukui Gardens, they lived on something called Horse Street [presumably a lane off of Liliha].

When he was young, presumably in the 1960s and maybe the 1970s, the family's landlord was Japanese, and the neighborhood was mixed, with Samoans, Filipinos and Hawaiians. He also remembers buildings and businesses owned by Japanese and Chinese in the area. He hung around with all the kids from the area, including Mayor Wright Homes' kids, and there was no sense that anyone from Mayor Wrights was any different from anyone else, just because it was public housing.

He recalls delivering newspapers around the area, and working with Mayor Wright's kids on this work. He also saw many of these same kids when he (and they) ended up at the juvenile detention center after getting in trouble.

Fituina Tua fondly remembers getting into football with coach John Sharp—whose interview is also summarized in this section. Fituina recalls:

> Mr. John Sharp came into my life when I was at Kam[ehameha] IV housing. He actually came down and was involved with my brother. And he saw a lot of kids, and he became involved, and got kids involved with sports. . . And then there really weren't a lot Blacks [in Hawai'i], you know. And they were kind of like role models when you saw them. You said, "Wow, yeah. I'd like to play for that guy." and that's how I became involved with Pālama Settlement. (UH-COH 1998:483)

He then went on to describe how instrumental John Sharp and others such as Eurlene Chambers (Piko) and Kenneth Ling were in helping keep kids on the straight and narrow, and helping them not only stay out of trouble, but thrive and prosper.

Jeff Yamashita, born in Honolulu in 1940, was raised by his mother at Pālama Settlement. He started frequenting Pālama Settlement when he was about seven years old, and eventually became a competitve swimmer. He served on the board of trustess for six years beginning in 1988. He had a long career as a police officer and investigator for the City and County of Honolulu. He worked as an undercover narcotics agent, and Mayor Wright Homes was one of the places he worked at.

He talked about the entire neighborhood area around Pālama Settlement and down to Mayor Wright's as a slum:

> Well, when people ask me that, I describe our neighborhood as a slum area. Not to boast or anything, but that's what it was, it was a—Mayor Wright's housing . . . was like a few blocks away, three blocks away. Lot of my friends came from that area, wasn't Mayor Wright's at that time [before 1953]. The time I was growing up was what we call kind of like "Hell's Half Acre," because it was a mixture of all kind of low-income people just living there, and a lot of run-down shacks, and really was a tough area. And where I was, we're kind of on the outskirts of that, but we played with these kids that, you know were our friends. (UH-COH 1998:707)

[5] See Robert Rath's interview in this section.

Jeff Yamashita said that, with Pālama Settlement as a kind of center to the area, there used to be much more of a community feeling, and that this most definitely included the kids and people from Mayor Wright's. He reckoned the change from what used to be a real community feel to something less so began in the late 1970s or early 1980s. He noted some (now) well-known local people such as Skippa Diaz came from Mayor Wright's.

In trying to explain some of the reasons why things changed so much, he talked about changing demographics at Mayor Wright Homes:

> Housing was, I think, was more family-oriented. Now it's more gangs, the families are having a hard time again. Because a mixture of immigrants, yeah, that come from different countries. I think the cultures are different. Whereas if you're local, you're local, even though you're of a different nationality, different ethnic background. We got along—Japanese, Chinese, Hawaiian. Now you have a problem with the Vietnamese, Koreans, Filipinos, and they don't understand each other. I think that's why they have problems over there, you know?

PREVIOUS ARCHAEOLOGICAL RESEARCH

In this section, we summarize relevant previous archaeological studies in order to reconstruct human use and modification of the land in and near the current project area. Given the age of the existing Mayor Wright Homes, which was constructed in the early 1950s (before the adoption of applicable historic-preservation and environmental laws starting in the late 1960s), no previous archaeological studies—prior to the most recent Archaeological Inventory Survey (AIS) by Monahan (currently in review)—have been conducted in the current project area. Similarly, the immediate surrounding area generally consists of commercial and residential buildings and infrastructure that was completed before the late 1960s. Therefore, with a few prominent exceptions, most of the nearby archaeological studies were conducted in support of roadway, utilities and other infrastructure improvements.

Nearby Archaeological Studies and Results

As discussed in detail below, a prominent, recent exception to this is an AIS by Cultural Surveys Hawai'i (Belluomini et al. 2016) of the American Savings Bank property across from 'A'ala Park, approximately 400 meters (1,312 ft.) east-southeast of the current project area. A large number of studies were conducted in Chinatown, on the east side of Nu'uanu Stream. Major archaeological studies were conducted in association with block developments in the 1990s at the River-Nimitz redevelopment, Kekaulike project, Marin Tower project and Liliha Civic Center.

Figure 29 is a graphic depiction of previous archaeological studies near the project area from a recent (2016) SHPD-approved AIS report (Belluomini et al. 2016:40). Figure 30 shows previously-identified archaeological sites—including burials—near the current project area from the same resource (ibid.:41).

Two fishponds—Kuwili (Site 5368) and Kawa (Site 5966)—were once located immediately south of the current project area. These fishponds were depicted on an 1855 map (see Figure 7), but appeared to have been filled in by at least 1878 (see Figure 11).

The closest burial site to the current project area (Site 7933) was recently documented by Belluomini et al. (2016) at the American Savings Bank property. A cluster of at least seven individuals, along with some pig and dog bones possibly representing buried animals associated with the human burials, was identified within a Land Commission Award (731 to Palile). The age of this site was interpreted as pre-Contact to post-Contact. All other known burials from the area are located on the other (east) side of the Nu'uanu Stream (a set of fragmentary human skeletal remains with no site number assigned at Foster Botanical Gardens; and numerous burials sites in Chinatown).

The closest previously-identified historic property to the current project area is a remnant of historic-period trolley (Site 5942) in the middle of King Street just south of its intersection with Liliha Street.

In addition to the burial cluster (Site 7933) found at the American Savings Bank project area, Belluomini et al. (2016) also documented the structural remains of LCA boundary walls (Site 7933) and the structural remains of a building foundation (Site 7935).

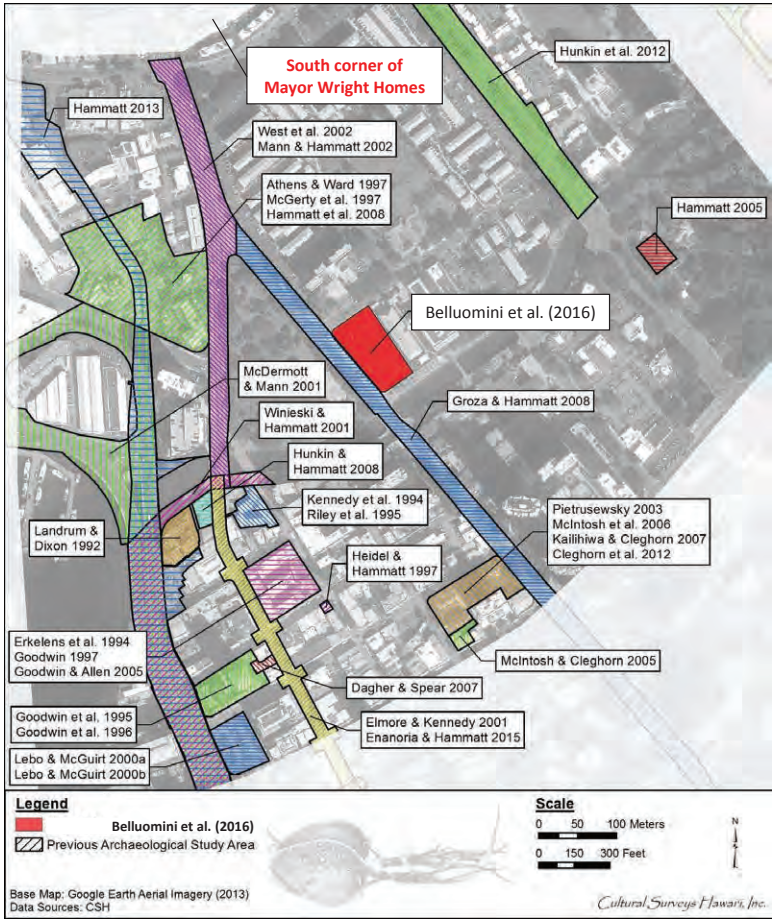

Figure 29. Cultural Surveys Hawai'i (2016:40) depiction of previous archaeological studies near the current project area; portion of current project area in upper left of this image; image slightly modified/annotated by TCP Hawai'i

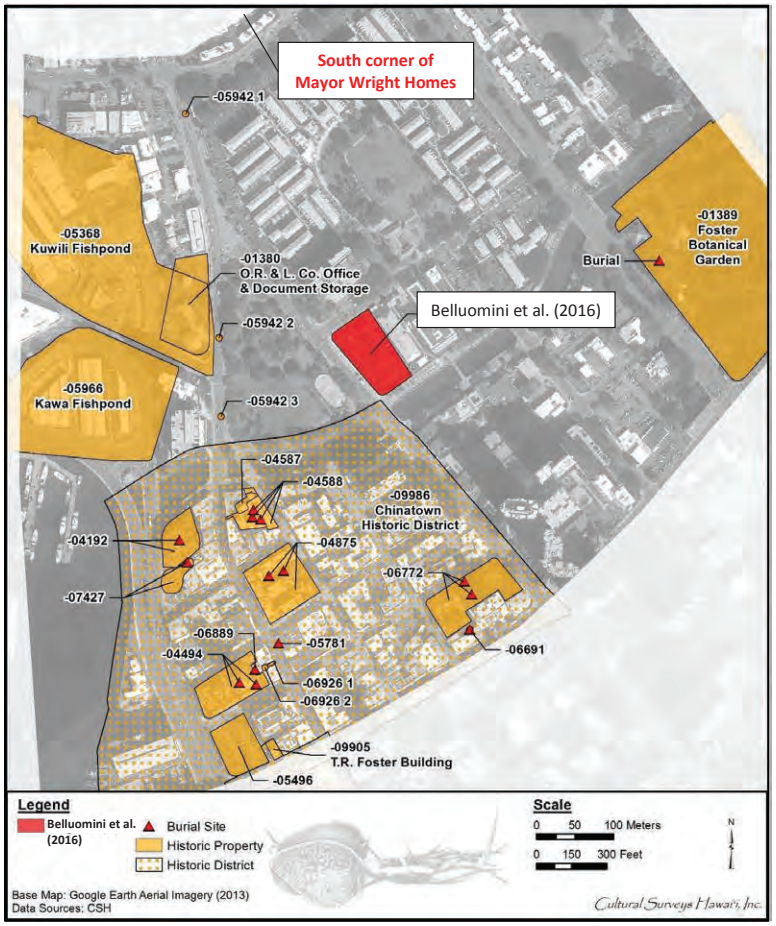

Figure 30. Cultural Surveys Hawai'i (2016:41) depiction of known archaeological sites near the current project area; portion of current project area in upper left of this image; image slightly modified/annotated by TCP Hawai'i

Results from the Current Project Area

As documented in Table 2, and graphically depicted in Figure 31, the AIS conducted recently by TCP Hawai'i (Monahan in review) identified four (4) historic properties: State Inventory of Historic Places (SIHP) # 50-80-14-8033, SIHP # 50-80-14-8034, SIHP # 50-80-14-8035, and SIHP # 50-80-14-8036.

- **Site 8033**—exposed in nearly all (21 of 24) of the trenches—is a subsurface layer, consisting of four (4) features. *Feature 1* is the widespread layer, itself. Trench #12, along the southwest boundary of the project area, is the only excavation where this subsurface layer is entirely missing (in the other two, Trench #s 11 and 23, this layer may have been removed by recent/modern disturbance). *Features 2 through 4* are filled-in garbage/debris pits emanating from the base of the subsurface layer (in Trench #s 16, 19 and 20, respectively). This site represents a project-area wide grading/bulldozing and pit-filling (dumping) event that occurred just prior to, and in preparation for, the construction of the Mayor Wright Homes residential complex (circa 1952-3). The site covers an area of approximately 14.0 acres. It is a subsurface layer with a great deal of variation in terms of its depth and thickness; it generally occurs between 20-30 cm below ground surface (upper limit of layer), with some trenches exposing this layer as shallow as 10-15 cm below ground surface (upper limit of layer), down to an average of 40-60 cm below ground surface (lower limit of layer), with some variation from this. Average thickness of this layer is approximately 30-50 cm.
- **Site 8034**—exposed in several trenches in the mauka (inland) portion of the project area (Trench #s 6, 7, 10, 15 & 17), is a subsurface layer consisting of gray clay interpreted as pond sediments, most likely the remnants of traditional Hawaiian lo'i kalo (irrigated, pond-field, taro cultivation). There is abundant historical evidence that, in pre-Contact times—before the development of Honolulu Harbor and in the early nineteenth century and subsequent urbanization—the project area represented a prime location for traditional Hawaiian subsistence cultivation of taro; and such activities continued in some portions into the early twentieth century. The upper portion of this sedimentary layer—and this site—appear to have been partially truncated by the grading/bulldozing. This site is discontinuous in its areal distribution, and its overall area is unknown. It is a subsurface layer with a great deal of variation in terms of its depth and thickness; it generally occurs between 20-65 cm below ground surface (upper limit of layer), with one trench (Trench #17) exposing this layer as deep as 95 cm below ground surface (upper limit of layer), down to an average of 60-90 cm below ground surface (lower limit of layer), with one deeper instance (Trench #17). Average thickness of this layer is approximately 40 cm.
- **Site 8035** consists of two features: Feature 1, an asphalt or concrete surface (exposed in Trench #11) dating from the late historic/early modern period. This old surface starts at 40 cm below the ground surface, and extends to an unknown depth (probably 10-15 cm). We do not know its area; and Feature 2, another (different) asphalt surface (exposed in Trench #12) dating from the late historic/early modern period. This old surface is located between 25-40 cm below the ground surface. We do not know its area.
- **Site 8036** is a set of very large drainage pipes (exposed in Trench #21) also dating from the late historic/early modern period. These large pipes are located between 75-140 cm below the ground surface. They extend to the north and south and unknown distance.

Also, a recent (2016) ALTA survey of the current project area depicts the location, orientation and configuration of a large number of walkways and sidewalks, some of which may be in excess of 50 years in age (i.e., they may be historic properties). These walkways and sidewalks may be considered components of the above-ground, architectural landscape.

Figure 31. Location of historic properties identified by TCP Hawai'i during this AIS and shallow lithified coral reef (brown dashed line) (see text discussion)

Table 2. Historic Properties in Project Area, Significance Assessments and Recommended Mitigation

SIHP #*	Formal Type	Function	Age	Sign. Assess.**	Recomm. Mitig.***
8033	Subsurface cultural layer (4 features)	Site preparation for construction of Mayor Wright Homes	1952-3	d, D	NFW
8034	Subsurface lo‘i kalo sedimentary layer (remnant)	Traditional, Hawaiian, irrigated taro pond-fields	Pre-Contact to historic period	d, D	NFW
8035	Subsurface asphalt/concrete surface (2 features)	Pavements, driveways or other similar surfaces	Early 20th century	d, D	NFW
8036	Pair of buried (subsurface) drainage pipes	Major drainage infrastructure	Early to middle 20th century	d, D	NFW

* Complete, formal State Inventory of Historic Places (SIHP) # is preceded by “50-80-14.”
** Significance Assessments: lower case letters = Hawai‘i State criteria; upper case letters = Federal criteria
*** Recommended Mitigation: NFW = No further (historic-preservation or archaeological) work

SIHP # 50-80-14-8033 was evaluated as significant under criteria d (State) and D (Federal) for its intrinsic informational value to research on the history of middle twentieth century urbanization in Honolulu, in particular, the advent of major public housing initiatives—and construction of the Mayor Wright Homes—by the State of Hawai‘i.

SIHP # 50-80-14-8034 was evaluated as significant under criteria d (State) and D (Federal) for its intrinsic informational value to research on the history of traditional Hawaiian agricultural practices in pre-Contact times as well as the later, historic period in Honolulu and the lower Nu‘uanu flood plain west of the stream.

SIHP # 50-80-14-8035 was evaluated as significant under criteria d (State) and D (Federal) for its intrinsic informational value to research on the history of early to middle twentieth century urbanization in Honolulu; and land use in the project area prior to the construction of the Mayor Wright Homes.

SIHP # 50-80-14-8036 was evaluated as significant under criteria d (State) and D (Federal) for its intrinsic informational value to research on the history of middle twentieth century urbanization in Honolulu, in particular, the advent of major public housing initiatives—and construction of the Mayor Wright Homes—by the State of Hawai‘i.

Several geoarchaeological observations are also worth noting. First, when not disturbed, truncated or removed by historic-period activities, the main sedimentary layer below the uppermost topsoil/fill and above any sterile sediments is clayey loam. Second, bedrock consists primarily of decomposing basalt, but in several cases it is lithified coral reef. The water table was reached before hitting bedrock, between 220–225 cm (7.2–7.4 ft.), in only two trenches (#s 20 and 21) along the southeast side of the project area. Third, the lithified coral reef was exposed at a relatively shallow depth—less than 1.0 m (3.3 ft.)—in several trenches (#s 1, 2, 3, 4, 5, 6 and 23) along the northwest side of the project area (see Figure 31). This distribution of shallow coral shelf is interesting because it corresponds with a feature depicted on von Kotzebue’s (georeferenced) 1817 map (see Figure 5), which appears to be an elevated (pu‘u-type) landform; it is probably a late Pleistocene formation representing the Waimānalo Sea Stand dating to ~120,000 years before present, when sea levels in Hawai‘i were ~7.5 m (24.8 ft.) above current levels (Macdonald et al. 1983; Ziegler 2002). Some of these trenches with shallow lithified coral shelf (#s 1, 2, 3, and 5) also had volcanic cinder deposited in channels, cracks and holes atop the coral. Lithified coral reef bedrock was also identified in three trenches in the southeast quadrant of the project area, but at a greater depth (150–230 cm [4.9–7.5 ft.]). Finally, clean beach sand was found in only one trench (#24), as a thin (5-15 cm) band of fill sediments.

Figure 32 through Figure 41 are representative photographs from the recent survey by TCP Hawai‘i at Mayor Wright Homes.

Figure 32. Close up of a fragment of leaf-spring-style suspension from an old vehicle recovered from base of Layer II at Trench #6

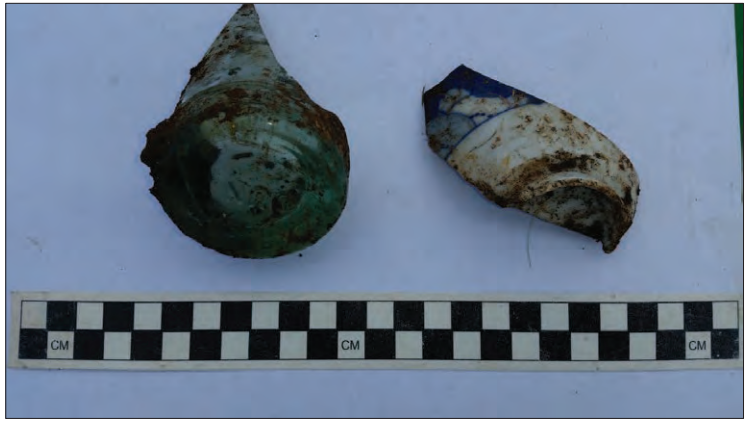

Figure 33. Base of glass bottle and ceramic cup recovered from Trench #8

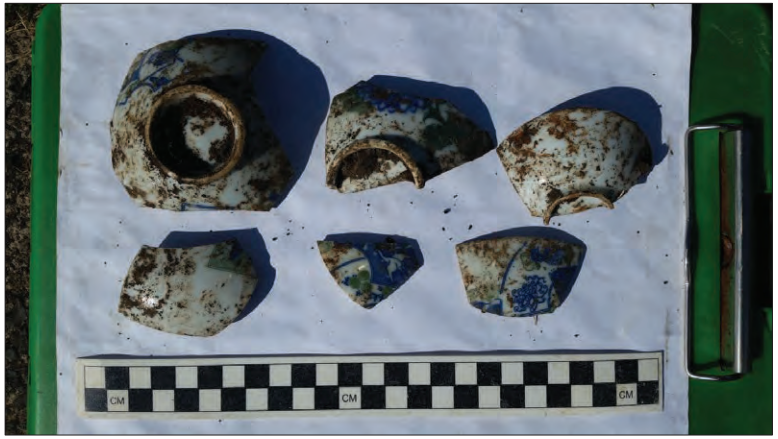

Figure 34. Close up of ceramics from Layer II at Trench #14

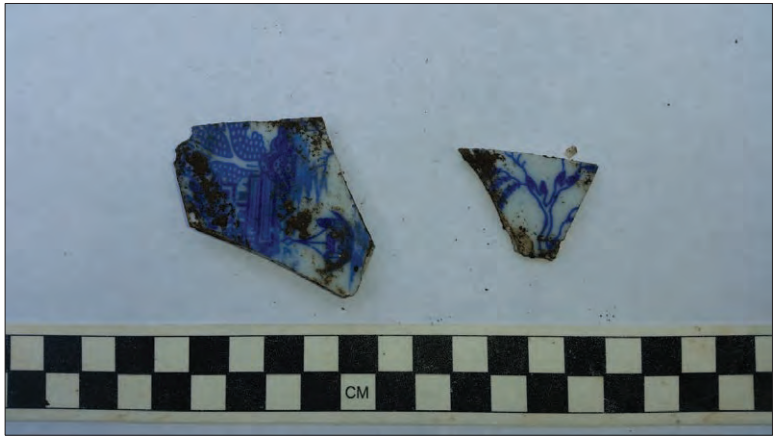

Figure 35. Ceramics recovered in base of Layer II at Trench #15

Figure 36. Recovered ferrous metal materials, glass fragments and animal bones, including portions of a horse metapodial (mostly complete gray-stained bone to the right)

Figure 37. Ferrous-metal items, glass fragments and rubber-wrapped wire (lower right) from Trench #19 (Layer IIa and/or Layer IIb)

Figure 38. Ferrous-metal object from base of Layer IIa in Trench #19

Figure 39. Overview of back dirt pile at Trench #20 showing large number of paving stones, blocks, bricks and other rocky debris, view west

Figure 40. Overview of metal and glass material recovered at Trench #20; note, several whole glass bottles and other materials were collected and described (see Laboratory Results)

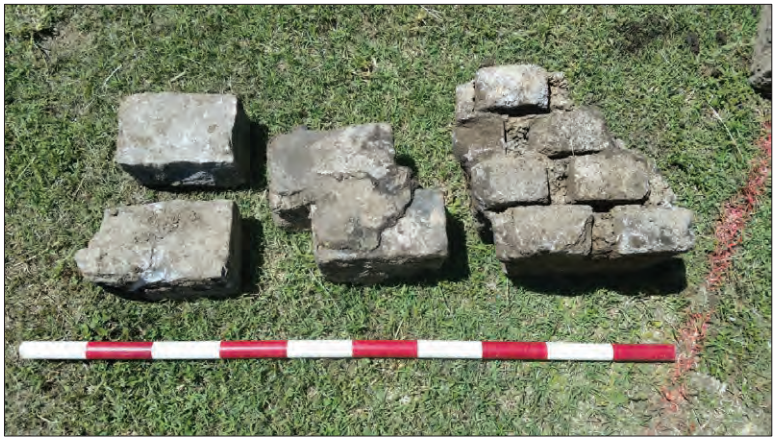

Figure 41. Detail of paving stones and bricks recovered from Trench #20

Temporally-diagnostic Glass Bottles from the Mayor Wright Survey

We collected historic artifacts that retained chronologically-diagnostic information, such as glass bottles with maker's marks and other indicators of their place and/or time of manufacture. As summarized in Table 3, a total of eighteen (18) glass bottles were collected for description and analysis from four (4) excavation units (Trench #s 14, 17, 19 and 20). The bottles we were able to identify indicate earliest dates of manufacture were no earlier than the 1920s. The latest (Catalogue #17) is from the 1950s. All of the glass bottles are depicted with photographs that follow the table. Photograph numbers for each catalogue number are listed in the table.

Table 3. Accessioned Glass Bottles from Mayor Wright Homes Project Area Excavations

Cat. #	Trench #	Provenience	Description and Comments
1	20	Site 8033, Feature 4, 60-200 cmbs	Clear glass, complete, medicine bottle, with stylized number "8" on bottom; Figure 42
2	20	Site 8033, Feature 4, 60-200 cmbs	Clear glass, complete, perfume bottle; with letter "K" embossed on bottom; **matches the Knox Glass Bottle Co., manufactured from 1932-1968;** Figure 42
3	20	Site 8033, Feature 4, 60-200 cmbs	Short, thick, clear glass, complete, medicine bottle w. screw top; stamped on bottom are stylized letters GC with numbers 2714 and 7; Figure 43
4	20	Site 8033, Feature 4, 60-200 cmbs	"OK Honolulu Soda Works" bottle, clear, complete; automated bottle making (ABM) method; **dates from no earlier than 1920s;** Figure 44
5	20	Site 8033, Feature 4, 60-200 cmbs	Clear glass, complete, medicine bottle, with "UNAMOTO" or "NOMOTO" on bottom (difficult to read); Figure 45
6	20	Site 8033, Feature 4, 60-200 cmbs	Broken, clear soda bottom (base missing) with "Kist" embossed on side; Figure 45 and Figure 46
7	20	Site 8033, Feature 4, 60-200 cmbs	Clear glass, complete, soda bottle, automated bottle making (ABM) method; "Malolo Soda Works, Honolulu, T.H." written on side at base; stamped with an "M" in a triangle on the bottom; stylized (cursive) "Malolo" embossed on neck; Figure 45 and Figure 47
8	20	Site 8033, Feature 4, 60-200 cmbs	"OK Honolulu Soda Works" bottle, clear, complete; automated bottle making (ABM) method; **dates from no earlier than 1920s;** Figure 48
9	20	Site 8033, Feature 4, 60-200 cmbs	"Aloha Soda Works" bottle, clear, complete; automated bottle making (ABM) method; Figure 48 and Figure 49
10	20	Site 8033, Feature 4, 60-200 cmbs	Clear glass, complete, perfume bottle; with "Colgate and Company Perfumers, New York" on bottom; stopper top; Figure 50
11	14	Site 8033, Lower Layer II, 50-100 cmbs	Clear glass, possible alcohol bottle, complete; Japanese characters on side; Figure 50 and Figure 51
12	14	Site 8033, Lower Layer II, 50-100 cmbs	"OK Honolulu Soda Works" bottle, clear, complete; automated bottle making (ABM) method; **dates from no earlier than 1920s;** Figure 52
13	20	Site 8033, Feature 4, 60-200 cmbs	Clear glass, complete, milk bottle, "WAIALAE NUI FARM" with "W" on bottom; Figure 52, Figure 53 and Figure 54
14	20	Site 8033, Feature 4, 60-200 cmbs	Green glass, complete, "Sunshine Soda" company with "SSS" on bottom; Figure 52 and Figure 55
15	17	Site 8033, Layer II	Clear glass, complete bottle with small metal stopper; Figure 56
16	17	Site 8033, Layer II	Green glass, base, wine bottle; Figure 57
17	19	Site 8033, Feature 3	Small, orange-brown bottle with "MUTH, BUFFALO, PAT. PEND." on bottom; **matches 1950s miniature "beer bottle" salt and pepper shakers;** original came with a metal screw-on cap through which salt and pepper poured out; Figure 58 and Figure 59
18	20	Site 8033, Feature 4, 60-200 cmbs	Large, orange-brown glass bottle, either beer or spirits with Japanese writing; "T.G.C" and the "3" on the bottom; Figure 60, Figure 61 and Figure 62

Figure 42. Catalogue #s 1 (left) and 2 (right)

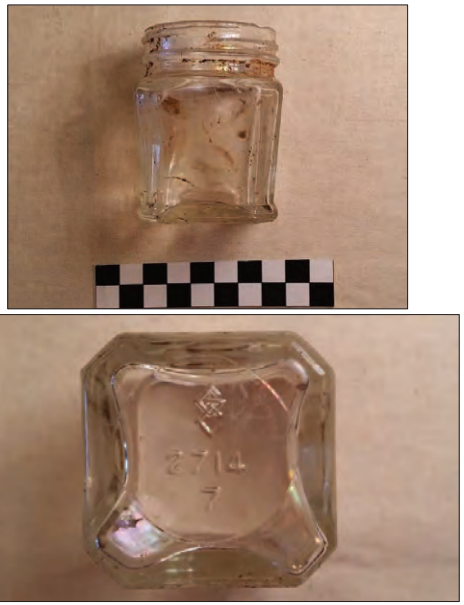

Figure 43. Catalogue #3, side view (top) and bottom detail (bottom)

Figure 44. Catalogue #4, overall (top) and bottom detail (bottom)

Figure 45. Catologue #s 5 (left), 6 (center) and 7 (right)

Figure 46. Detail of embossed body of Catologue # 6 labelled "Kist"

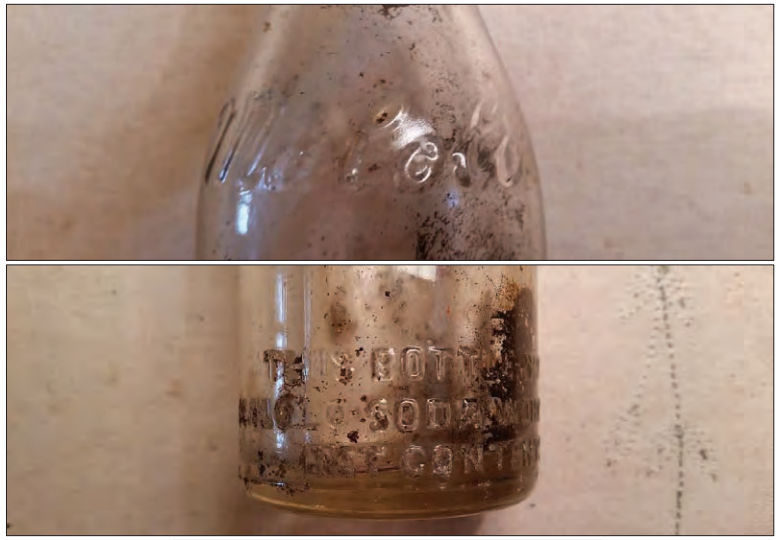

Figure 47. Catalogue #7, neck (top), side base (middle) and bottom (bottom)

Figure 48. Catalogue #s 8 (left) and 9 (right)

Figure 49. Detail of bottom of Catalogue #9

Figure 50. Catalogue #s 10 (right) and 11 (left)

Figure 51. Detail of Catalogue #11

Figure 52. Catalogue #s 12 (left), 13 (center) and 14 (right)

Figure 53. Detail of Catalogue #13

Figure 54. Detail of bottom of Catalogue #13

Figure 55. Detail of bottom of Catalogue #14

Figure 56. Catalogue #15

Figure 57. Catalogue #16

Figure 58. Catalogue #17

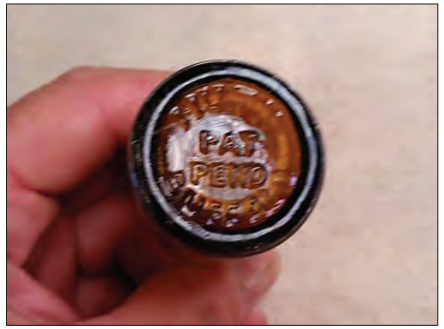

Figure 59. Base of Catalogue #17

Figure 60. Catalogue #18

Figure 61. Detail, neck of Catalogue #18

Figure 62. Bottom of Catalogue #18

INTERVIEW SUMMARIES

As explained in the Methods section, we reached out to many people to ask if they would like to participate in interviews for this CIA. Of these, only two agreed to be formally interviewed. The results of these two interviews—with Theresa Boter and Deriah Aana—are summarized below. Following the two interview summaries, we include a short subsection on recommendations made by these people for the proposed project.

Theresa Boter Interview

Chris Monahan interviewed Theresa Boter by phone (she was in California at the time) for about 75 minutes on April 7, 2017.

Biographical Notes

Therese Boter is 19 years old, was born in the Philippines, and grew up at Mayor Wright Homes with her parents and one (older) brother. She was a few months old when her mother brought her to Hawai‘i. Her father was already in Hawai‘i at this time, and, as Therese recently learned from her mother, her coming to the islands was a struggle and an event that almost didn’t happen due to immigration challenges at the time. Therese, currently a student at Pitzer College in Southern California, is studying economics and education. Because of her parents’ hard work and protective nature over their daughter, and, likewise, Therese’s work ethic in the public schools she attended, she has been able to benefit from different educational programs and opportunities, including LEDA (Leadership Enterprise for a Diverse America), which have allowed her to travel and study on the U.S. mainland.

Discussion Themes

These are subject themes that emerged naturally during the interview and discussion:

1. Despite Mayor Wright Homes’ reputation as a difficult to place to live, and widespread, negative stereotypes about what it’s like to live there, Therese also has feelings of pride about where she grew up. Her struggles helped her develop a strong desire to succeed in life, no matter what obstacles she may face.
2. Her parents were extremely protective of Therese, and she wasn’t allowed to go outside much at Mayor Wright Homes because of safety concerns.
3. Feelings of emotional hurt as she grew up at the ways people from outside of Mayor Wright talked about those who lived there.
4. Gang problems, mostly based on ethnicity/cultural groups, and violence were concerns not only at Mayor Wright but also some of the schools she attended in greater Kalihi.
5. Educational opportunities such as the LEDA program have provided her with the chance to succeed and, ultimately, to help her family and community.

Major Recommendations Related to the Cultural Impact Assessment

1. Therese recommends development of a community-based garden program at the redeveloped Mayor Wright Homes property so that residents can benefit from the raising and eating of fresh food. During our discussion, Chris Monahan shared with Therese that, well into the 20th century, major portions of the Mayor Wright property were still being used to grow food, including taro and other crops. Historic maps from as late as the 1920s show this. Therefore, her recommendation about starting a community garden project or program would be consistent with the history of this place.

Narrative Notes

After first living in Wai‘anae until she was 2 or 3 years old, Therese’s family moved to Mayor Wright, where she has lived ever since. She described her family as “stay at home” people, relatively quiet or shy Filipinos who pretty much kept to themselves at Mayor Wright.

When asked about any cultural traditions or practices she remembered at Mayor Wright, Therese recalled an annual, December-time tradition that she watched from inside her house where people paraded around, singing, and banging pots and pans. Because her parents were so over-protective, due to the rough nature of many of the people who lived at Mayor Wright, Therese had to experience this annual celebration from her window, inside the apartment.

Therese had both positive and negative experiences and recollections about growing up at Mayor Wright. She shared about an incident that occurred when she was young when a neighbor’s son was killed at a nearby bus stop by another Mayor Wright resident. The two young men (the perpetrator and the victim) were of different cultural/ethnic backgrounds. She remembers the racial tension was very high and scary, and it was difficult for all to deal with.

Another time, her father was physically beaten up by members of another cultural/ethnic group (also neighbors at Mayor Wright). Her family tried to keep a nice, clean lanai, with a small garden area, but some neighbors would throw their trash everywhere and engage in other unsavory/unclean activities in Therese’s family’s space. Her father tried to help her mother, who just wanted to have a clean garden space. He tried talking to the neighbors. He eventually called the police. Her father was eventually beaten up by one of the neighbors. She remembers hating living at Mayor Wright during this difficult time, asking herself questions such as “why do we have to be poor?” “Why are we here at Mayor Wright?” This was a time of fear and anger.

In general, one of the negative aspects of life at Mayor Wright, and also the many stereotypes about life there by people who lived elsewhere, was the strong racial/ethnic divisions that ran among certain groups.

We talked about the public schools Therese attended, and she said kids at Mayor Wright went to Kaiulani Elementary, Central Middle School, and McKinley High School, but that her parents worked to get her geographic exemptions starting in middle school, where she attended Kalakaua Middle School because there were lots of Filipinos there. Then, rather than go to McKinley, she attended Farrington High School. When at Farrington, she began to hear bad stories about Mayor Wright Homes and its people, heard it described as a ghetto for really the first time in her life, and it surprised and hurt her feelings. When she then ventured outside of Kalihi, she began to hear the same types of stereotypical stories and biases about Farrington High School.

Throughout all of this, she stayed home when not at school, and worked hard to get her studies done, which was not always easy at Mayor Wright due to the close quarters people live in, the noise of packs of kids running around after school, etc. She became very involved in extra-curricular activities at high school, joining several clubs to have a safe place to stay away from home. School was a safer place, but was still far from perfect. There were many gangs, gang activities and fights. She tried her best to focus on the good and the positive, whether at school or at Mayor Wright.

The gangs, which were mostly based on ethnicity, were never a part of her life, and she managed to avoid the troubles surrounding gang life.

Her brother, who is older than Therese, is somewhat different from her in terms of his ambitions. He was supposed to go to school locally on O‘ahu to study criminal justice, but he never attended, although his parents didn’t know this for some time. He ended up working as a security guard, which is also her father’s job.

Therese told a story, that her mother just recently told her about, of the time when she was still a baby in the Philippines, before coming to Hawai‘i. Her father had already gotten back to Hawai‘i, but Therese and

her mom were stuck in the Philippines, trying to get back to Hawai‘i. Despite many difficulties and obstacles, including many unsuccessful trips to government offices to get the right paperwork, a kind of “guardian angel” woman in the right office helped them eventually get here, a kind of small miracle in Therese’s life.

Because of all these life experiences, she has a strong desire to succeed, a kind of tenacity to rise above her circumstances, which brought the discussion around to her participation in the LEDA (Leadership Enterprise for a Diverse America) program—based in New York City, a “national nonprofit organization dedicated to diversifying the national leadership pipeline by helping high-achieving students from low-income backgrounds gain admission to our nation’s most selective colleges and supporting their success at these institutions” (source: ledascholars.org/). Through LEDA, Therese has been able to fly to Princeton, New Jersey, for an initial, 7-week program of study and mentoring, the result of which was she realized she was not the worst off among her LEDA peers, which helped put Mayor Wright, Kalihi, and Honolulu in perspective for her. She took extremely difficult college courses on this program, and she discovered she had an accent, which surprised her! Since then, she has been back to Princeton, and has also traveled to New York City, Newport (Rhode Island), and Boston the past couple years. In fact, this summer she will be working as a mentor at LEDA, completing the cycle that was begun a few years ago.

Therese finished her interview, and our discussion, talking about the importance of incorporating a community-based garden program at the redeveloped Mayor Wright Homes property so that residents can benefit from the raising and eating of fresh food. This recommendation is discussed above. Therese shared a recent article from Civil Beat that describes the importance of programs like this for people in Hawai‘i. Therese followed up on our conversation a day or two later by providing a link to this important article.

Deriah Aana (DeMello) Interview

Chris Monahan interviewed Deriah and her sister in person at her home for almost 2 hours on April 19, 2017. I originally spoke with Deriah on the phone, and set up the time to talk story at her place. When I arrived, Deriah’s younger sister Donna also participated and stayed for the entire interview/discussion. The information below does not distinguish between which sister said what because there was no disagreement about any of the important issues summarized below. Later, near the end of our discussion, around 3:30 pm, another sister, Vanessa, returned home and participated in the discussion, adding some important information that all agreed upon. Once again, we do not distinguish those comments offered by the third sister.

Biographical Notes

Deriah Aana (maiden name DeMello) is 69 years old, was born in 1947 and raised on O‘ahu, and grew up in the Honolulu area. She has lived at Mayor Wright Homes since 1970. Her mother, who passed away about 10 years ago, was Hawaiian. Her father was of Portuguese (local) ancestry. Her Hawaiian husband, from which the name Aana derives, passed away, but they were divorced many years ago (around 1973). Her younger sister, who is 56 years old, was also born and raised on O‘ahu, and grew up in the Honolulu area. When she was young, she was raised near School and Houghtailing streets. She has lived at Mayor Wright for many years. I did not record any specific information about the third sister, who arrived near the end of our time. I did learn that she has worked for the State Judiciary in some capacity for approximately 25 years. I didn’t get any information of what kind of work Deriah or her younger sister did in the past.

Discussion Themes

These are subject themes that emerged naturally during the interview and discussion:

1. Hearing from older relatives that, before the construction of Mayor Wright Homes, the block was full of lo‘i (irrigated taro fields) and also that there were burials. They also remembered when the neighborhood was surrounded by low, wooden structures, including houses, not tall buildings and apartment buildings.
2. There was a time, back in the 1970s and 1980s especially, when Mayor Wright had a real sense of community; it was a family place where people knew each other, looked out for each other, helped raise and discipline (if necessary) other peoples’ children. Back then, there were many community programs and recreational/holiday events at Mayor Wright, sponsored by the housing authority, where the kids and teens had safe activities to engage in.
3. They expressed many, detailed problems with the recent/current management and the way the place is run, with too many restrictions and rules, weak and ineffective security, and no voice for the long-term tenants, especially Hawaiians and kama‘āina. These policies and problems prevent people like Deriah Aana and her sisters from fully enjoying the kind of Hawaiian-style life they should be able to live (e.g., keeping a garden, barbequing in front of their house and socializing with their ‘ohana in their yard, etc.). Rather than feeling like a community place, Mayor Wright now feels like a prison where its residents are literally fenced in.
4. Some of the ethnic/cultural groups that most recently arrived in Hawai‘i, and who occupy many of the units, do not understand and practice the basic societal rules of Hawai‘i and the U.S. Lots of the violence, including the murder of long-time resident’s son, is caused by young men and gangs of some of these newly-arrived ethnic/cultural groups.
5. Deriah and her sisters are extremely concerned about a lack of specific information they are receiving about the process of moving them out (e.g., where they will be placed temporarily, and when they will be moved back in).

Major Recommendations Related to the Cultural Impact Assessment

1. The redeveloped Mayor Wright Homes property should include places where the tenants can plant small gardens in order to live the kind of Hawaiian-style life they grew up with, and to be allowed to grow culturally-significant plants such as ti leaf and others (e.g., bananas, papaya, ginger, plumeria, etc.).
2. The redeveloped Mayor Wright Homes property should include a funding stream whereby community programs, events and activities are designed and implemented that bring people of different ethnic/cultural groups together, and that provide safe and healthy activities for kids and teens. These programs, events and activities could include traditional and customary (cultural) practices that highlight the different groups that call Mayor Wright home.

Narrative Notes

We began by talking a bit about Deriah’s last name, Aana from her husband, but her maiden name was DeMello, from her Portuguese father.

The sisters talked about not knowing about the details of their upcoming move out, and being concerned about this uncertainty, which is causing stress.

Deriah’s younger sister mentioned that kupuna told her about there being lo‘i kalo (taro patches) all over the area of Mayor Wright. She was also told about there being burials out there. When asked about the location of burials, if she were ever told this information, a specific location was not explained; the interviewee could not determine where they may be.

They requested more information about the upcoming move out of Mayor Wright Homes, and stated they were not getting definitive answers from those they asked. They would like the state’s point of contact for

the Housing Authority to give them answers to their questions, rather than the on-site manager at Mayor Wright, who doesn't seem to know the details.

We discussed about how Aunty Deriah has lived at Mayor Wright Homes for 47 years, since 1970. She originally moved in with her four children. She and her ex-husband divorced in 1973.

The discussion returned again to the fear and anxiety of not knowing the details of where they would be moved to, and if it would be close by to where they are now. Deriah and her younger sister Donna are both on fixed incomes with some medical needs, doctors' offices to get to, etc., which are all near to home right now. They fear being moved far away to a part of the island that would make it difficult or impossible to get to the places they need to get to.

According to a kupuna, the street name, Vineyard, was named after an area used to grow grapes for a winery.

When they were young, they used to swim in the fresh-water spring of Kunawai, mauka of Mayor Wright Homes, as well as other springs in the area including Waikahalulu (just above School Street). These places used to be clean and accessible for the kids to use.

They talked about the block immediately east of Mayor Wright Homes that includes the Kukui Gardens apartment complex. Before it was developed into apartments, it used to be a combination of vacant land and small, wooden-framed structures scattered about. It was also a place where transient ("homeless") people would camp out/hang out. They used to cut through this area to reach Central Intermediate (Middle) School.

In Deriah's early days, she remembers her father going across King Street to the ice house to pick up block ice for the family. The ice house was near the old (OR & L) train tracks.

Discussion then turned away from remembrances of the old days to the relatively recent (last 10 or 15 years) arrival of other ethnic/cultural groups such as the Samoans and Micronesians. There was extensive discussion of problems associated with some of the recent arrivals, including the very sad story of the murder of the son of their neighbor. There was a lot of talk about the rise in violence and problems with security now at Mayor Wright. The security guards, who describe their jobs as "monitors," do not inspire confidence with Deriah and her 'ohana.

They then told a story—well documented in the newspapers of the time—of being without hot water for about 10 years. A lawsuit settlement, reached around the time Neil Abercrombie was governor (2010-2014), resulted in them receiving a check for several hundred dollars, which they pointed out was less than $100 per year of not having hot water.

Discussion turned to other quality of life issues including not being allowed to have certain plants or gardens in front of or around their homes anymore, and not being allowed to barbeque outside to enjoy the fresh air and gather with friends and family outside. In particular, Deriah was upset that the management recently ripped out a line of ginger shrubs she had planted way back in 1970 in front of her front door area that provided a green privacy "fence." Other similar actions, such as the management's removal of banana and papaya trees as well as ti leaf plants, were also extremely upsetting to Deriah and her 'ohana. They have been told they cannot use outside water to water their gardens and outside plants, and management removed outside watering hardware some time ago due to excess watering by some residents.

The importance of having places to grow plants, including food plants, outside was highlighted.

They discussed past politicians who did good things for Mayor Wright, including Frank Fasi (Mayor of Honolulu for 22 years between 1968 and 1994) and George Arioshi (Governor from 1974-1986); as well as those who did little for its residents (including John Waihee, Neil Abercrombie and the current governor, David Ige).

Mayor Wright Homes was good place to live in the 1970s and 80s, where people got long and shared what they had. Hawaiians and locals such as Deriah and her 'ohana had good relations with Filipinos, Chinese, Vietnamese and other Hawaiian/locals (e.g., Portuguese). Now things are totally different. There used to be much more green space for the kids to play. For example, just behind (east of) Building 14, and which now is an asphalt road, used to be all grass and greenery. Life back in the 1970s and 1980s was more of a family/community-type situation.

They also spoke of a rule they thought was part of living at Mayor Wrights that involved some kind of community service component. They were somewhat ambiguous about this, and seemed to think it wasn't being enforced by management.

Back when they were younger and living at Mayor Wright Homes, there used to be all sorts of management-sponsored activities and gatherings, such as movie nights and dances for young people. This was before fences were put up around the property. There used to be a junior community policing/patrolling program that imbued the young people with a sense of ownership and responsibility for Mayor Wright Homes, which used to be a much safer place.

There used be May Day celebrations, and other special days celebrated, even Father's and Mother's Days. These would be management-sponsored events and activities that people looked forward to and that enhanced a sense of collective kuleana (responsibility) for the place.

Deriah and her sisters fondly remember these good days at Mayor Wright Homes, and recommend efforts be made to invest in community-building programs and activities in the future.

Recommendations from Interviews with Community Members

The following summarizes recommendations from the interviews:

1. Include places where the residents can plant small gardens in order to live the kind of Hawaiian-style life they grew up with, and to be allowed to grow culturally-significant plants such as ti leaf and others (e.g., bananas, papaya, ginger, plumeria, etc.).
2. Include a funding stream whereby community programs, events and activities are designed and implemented that bring people of different ethnic/cultural groups together, and that provide safe and healthy activities for kids and teens. These programs, events and activities could include traditional and customary (cultural) practices that highlight the different groups that call Mayor Wright home.
3. Develop a community-based garden program at the redeveloped Mayor Wright Homes property so that residents can benefit from the raising and eating of fresh food. Well into the 20th century, major portions of the Mayor Wright property were still being used to grow food, including taro and other crops. Historic maps from as late as the 1920s show this. Therefore, this recommendation about starting a community garden project or program would be consistent with the history of this place.

CULTURAL IMPACT ANALYSIS

The following recommendations are based on the formal interviews conducted, as well as input from others interviewed during a previous oral-history project (i.e., UH-COH 1998).

1. Include places where the tenants can plant small gardens in order to live the kind of Hawaiian-style life they grew up with, and to be allowed to grow culturally-significant plants such as ti leaf and others (e.g., bananas, papaya, ginger, plumeria, etc.).
2. Include a funding stream whereby community programs, events and activities are designed and implemented that bring people of different ethnic/cultural groups together, and that provide safe and healthy activities for kids and teens. These programs, events and activities could include traditional and customary (cultural) practices that highlight the different groups that call Mayor Wright home. The idea here is to help build community.
3. Develop a community-based garden program at the redeveloped Mayor Wright Homes property so that residents can benefit from the raising and eating of fresh food. Well into the 20th century, major portions of the Mayor Wright property were still being used to grow food, including taro and other crops. Historic maps from as late as the 1920s show this continuing pattern of land use. Therefore, this recommendation about starting a community garden project or program would be consistent with the history of this place.

CONCLUSION

TCP Hawai‘i, LLC, has completed this Cultural Impact Assessment (CIA) of an approximately 15.3-acre project area in Honolulu in support of the Mayor Wright Homes Redevelopment Project (TMK [1] 1-7-029:003). The landowner is the Hawai‘i Public Housing Authority. The project area, which consists of the TMK parcel in the context of the surrounding neighborhoods of Honolulu, is bounded by North King Street, Pua Lane, Vineyard Boulevard, and Liliha Street in a thoroughly urbanized/developed part of Honolulu west of the channelized lower Nu‘uanu Stream.

The information has been gathered to support an Environmental Impact Statement (EIS) of the redevelopment of Mayor Wright Homes, a public housing complex built by the HPHA that was first occupied in 1952 or 1953 (depending on the source). The proposed undertaking will replace the existing 364 residential units—currently consisting of 35 separate, low-rise buildings (plus an administration building)—with an entirely new mixed-use, mixed-income development comprised of up to 2,500 residential units and up to 80,000 square feet of commercial uses (note, when we started this CIA, the number of new residential units was originally described as 1,000 to 1,500, but this was recently changed to 2,500). This project is considered to be part of the Transit-Oriented Development (TOD) associated with construction of the Honolulu rail transit project. There have not been any previous CIAs completed in the project area because the Mayor Wright Homes were built prior to the introduction of applicable environmental assessment laws (starting in the late 1960s). This CIA satisfies the state Office of Environmental Quality Control’s (OEQC) guidelines for assessing cultural impacts. This document is a synthesis of previously obtained information, new interviews, and details of the proposed project.

In accordance with HRS 6E and Section 106 of the National Historic Preservation Act (NHPA), extensive community outreach and consultation was conducted with numerous individuals and agencies, including Native Hawaiian organizations. The consultation objectives were (1) to provide notification that this project could affect cultural resources and practices of interest to the community; (2) to seek consulted party views on the methods by which we identified and evaluated cultural resources and practices in the project area; and (3) to solicit consulted party views on the proposed undertaking’s potential effects on these things.

Through extensive archival research, including historical map analysis and review of Māhele ‘Āina (Land Commission) records, we present detailed information and analysis on a wide variety of topics, including: the Hawaiian cultural landscape, middle nineteenth-century developments in and near the project area, royal residences of Kapālama, early twentieth-century developments in and near the project area, oral history information from the twentieth-century in and near the project area (including interview summaries from a study of Pālama Settlement), results of nearby archaeological studies and a new archaeological survey of the project area by TCP Hawai‘i, and results of new interviews by TCP Hawai‘i conducted for this CIA.

All of this information forms the basis for several recommendations we made in the previous section regarding the redevelopment of Mayor Wright Homes.

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APPENDIX A: State OEQC Guidelines for Assessing Cultural Impacts

Excerpt (pp. 11–13) from *Guide to the Implementation and Practice of the Hawaii Environmental Policy Act,* 2012 Edition, State of Hawai'i, Office of Environmental Quality Control (available online at http://oeqc.doh.hawaii.gov/Shared%20Documents/Misc_Documents/Guide%20to%20the%20Implementation%20and%20Practice%20of%20the%20HEPA.pdf)

GUIDELINES FOR ASSESSING CULTURAL IMPACTS

(Adopted by the Environmental Council, State of Hawaii, November 19, 1997)

I. INTRODUCTION

It is the policy of the State of Hawaii under Chapter 343, HRS, to alert decision makers through the environmental assessment process about significant environmental effects which may result from the implementation of certain actions. An environmental assessment of cultural impacts gathers information about cultural practices and cultural features that may be affected by actions subject to Chapter 343, and promotes responsible decision-making.

Articles IX and XII of the State Constitution, other state laws and the courts of the state require government agencies to promote and preserve cultural beliefs, practices, and resources of native Hawaiians and other ethnic groups. Chapter 343 also requires environmental assessment of cultural resources, in determining the significance of a proposed project.

The Environmental Council encourages preparers of environmental assessments and environmental impact statements to analyze the impact of a proposed action on cultural practices and features associated with the project area. The Council provides the following methodology and content protocol as guidance for any assessment of a project that may significantly affect cultural resources.

II. CULTURAL IMPACT ASSESSMENT METHODOLOGY

Cultural impacts differ from other types of impacts assessed in environmental assessments or environmental impact statements. A cultural impact assessment includes information relating to the practices and beliefs of a particular cultural or ethnic group or groups.

Such information may be obtained through scoping community meetings, ethnographic interviews and oral histories. Information provided by knowledgeable informants, including traditional cultural practitioners, can be applied to the analysis of cultural impacts in conjunction with information concerning cultural practices and features obtained through consultation and from documentary research.

In scoping the cultural portion of an environmental assessment, the geographical extent of the inquiry should, in most instances, be greater than the area over which the proposed action will take place. This is to ensure that cultural practices which may not occur within the boundaries of the project area, but which may nonetheless be affected, are included in the assessment. Thus, for example, a proposed action that may not physically alter gathering practices, but may affect access to gathering areas would be included in the assessment. An ahupua'a is usually the appropriate geographical unit to begin an assessment of cultural impacts of a proposed action, particularly if it includes all of the types of cultural practices associated with the project area. In some cases, cultural practices are likely to extend beyond the ahupua'a and the geographical extent of the study area should take into account those cultural practices.

The historical period studied in a cultural impact assessment should commence with the initial presence in the area of the particular group whose cultural practices and features are being assessed. The types of cultural practices and beliefs subject to assessment may

include subsistence, commercial, residential, agricultural, access-related, recreational, and religious and spiritual customs.

The types of cultural resources subject to assessment may include traditional cultural properties or other types of historic sites, both man made and natural, including submerged cultural resources, which support such cultural practices and beliefs.

If the subject area is in a developed urban setting, cultural impacts must still be assessed. Many incorrectly assume that the presence of urban infrastructure effectively precludes consideration of current cultural factors. For example, persons are known to gather kauna`oa, `ilima, `uhaloa, noni or ki on the grassy slopes and ramps of the H-1 freeway and some state highways on the neighbor islands. Certain landmarks and physical features are used by Hawaiian navigators for sailing, and the lines of sight from landmarks to the coast by fisherman to locate certain fishing spots. Blocking these features by the construction of buildings or tanks may constitute an adverse cultural impact.

The Environmental Council recommends that preparers of assessments analyzing cultural impacts adopt the following protocol:

A. Identify and consult with individuals and organizations with expertise concerning the types of cultural resources, practices and beliefs found within the broad geographical area, e.g. district or ahupua'a;
B. Identify and consult with individuals and organizations with knowledge of the area potentially affected by the proposed action;
C. Receive information from or conduct ethnographic interviews and oral histories with persons having knowledge of the potentially affected area;
D. Conduct ethnographic, historical, anthropological, sociological, and other culturally related documentary research;
E. Identify and describe the cultural resources, practices, and beliefs located within the potentially affected area; and
F. Assess the impact of the proposed action, alternatives to the proposed action, and mitigation measures, on the cultural resources, practices and beliefs identified.

Interviews and oral histories with knowledgeable individuals may be recorded, if consent is given, and field visits by preparers accompanied by informants are encouraged. Persons interviewed should be afforded an opportunity to review the record of the interview, and consent to publish the record should be obtained whenever possible. For example, the precise location of human burials is likely to be withheld from a cultural impact assessment, but it is important that the document identify the impact a project would have on the burials. At times an informant may provide information only on the condition that it remains in confidence. The wishes of the informant should be respected.

Primary source materials reviewed and analyzed may include, as appropriate: Mahele, land court, census and tax records including testimonies; vital statistics records; family histories and genealogies; previously published or recorded ethnographic interviews and oral histories; community studies, old maps and photographs; and other archival documents, including correspondence, newspaper or almanac articles, and visitor journals. Secondary source materials such as historical, sociological and anthropological texts manuscripts, and similar materials published and unpublished, should also be consulted. Other materials, which should be examined, include prior land use proposals, decisions, and rulings, which pertain to the study area.

III. CULTURAL IMPACT ASSESSMENT CONTENTS

In addition to the content requirements for environmental assessments and environmental impact statements, which are set out in HAR §11-200-10 and 16 through 18, the portion of the assessment concerning cultural impacts should address, but not necessarily be limited to, the following matters:

A. A discussion of the methods applied and results of consultation with individuals and organizations identified by the preparer as being familiar with cultural practices and features associated with the project area, including any constraints or limitations which might have affected the quality of the information obtained.
B. A description of methods adopted by the preparer to identify, locate, and select the persons interviewed, including a discussion of the level of effort undertaken.
C. Ethnographic and oral history interview procedures, including the circumstances under which the interviews were conducted, and any constraints or limitations which might have affected the quality of the information obtained.
D. Biographical information concerning the individuals and organizations consulted, their particular expertise, and their historical and genealogical relationship to the project area, as well as information concerning the persons submitting information or interviewed, their particular knowledge and cultural expertise, if any, and their historical and genealogical relationship to the project area.
E. A discussion concerning historical and cultural source materials consulted, the institutions and repositories searched and the level of effort undertaken. This discussion should include, if appropriate, the particular perspective of the authors, any opposing views, and any other relevant constraints, limitations or biases.
F. A discussion concerning the cultural resources, practices and beliefs identified, and, for resources and practices, their location within the broad geographical area in which the proposed action is located, as well as their direct or indirect significance or connection to the project site.
G. A discussion concerning the nature of the cultural practices and beliefs, and the significance of the cultural resources within the project area affected directly or indirectly by the proposed project.
H. An explanation of confidential information that has been withheld from public disclosure in the assessment.
I. A discussion concerning any conflicting information in regard to identified cultural resources, practices and beliefs.
J. An analysis of the potential effect of any proposed physical alteration on cultural resources, practices or beliefs; the potential of the proposed action to isolate cultural resources, practices or beliefs from their setting; and the potential of the proposed action to introduce elements which may alter the setting in which cultural practices take place.
K. A bibliography of references, and attached records of interviews which were allowed to be disclosed.
L. The inclusion of this information will help make environmental assessments and environmental impact statements complete and meet the requirements of Chapter 343, HRS. If you have any questions, please call 586-4185. You may ask OEQC if a directory of cultural impacts assessment providers is available.

APPENDIX B: CONSULTATION CORRESPONDANCE

This appendix includes all formal consultation sent by TCP Hawai‘i, LLC, in support of the subject Cultural Impact Assessment (CIA). It also includes one formal, written response we received (from OHA).

Documents included in this appendix:

1. Pages A-2 to A-7: Sample of initial consultation outreach letter sent to the following individuals and agencies in late May/early June, 2016: (a) SHPD/DLNR (Administrator Downer, Archaeology Branch Chief Susan Lebo, O‘ahu Burial Site Program staff Regina Hilo, and Ka‘āhiki Solis); (b) OHA (Ka Pouhana/CEO Crabbe and staff in Compliance, Kai Markell and Lauren Morawski); (c) Kalihi-Palama Neighborhood Board (Chair Ryan Mandado); (d) Kalihi-Palama Hawaiian Civic Club (Pelekikena/President Leimomi Khan); (e) Cynthia Yoshida (Public Housing Supervisor, MWH); (f) Historic Hawaii Foundation (Kirsten Faulkner); (g) Ka‘anohi Paulette Kaleikini (Native Hawaiian, cultural descendant, Honolulu area); (h) Michael Lee (Native Hawaiian, cultural descendant, Honolulu area).
2. Page A-8: Formal, written response from OHA dated June 28, 2016.

TCP Hawai'i, LLC

Documenting Traditional Cultural Properties of Hawai'i
Preserving and Restoring Cultural and Natural Resources of Hawai'i

May 25, 2016

To: **Mr. Kamana'opono Crabbe, Ph.D., Ka Pouhana (CEO), Office of Hawaiian Affairs, State of Hawai'i**

Re: **Initiation of Section 106 (36 CFR Part 800) Consultation for Mayor Wright Homes Redevelopment Project, Honolulu Ahupua'a, Honolulu (Kona) District TMK (1) 1-7-029: 003**

Aloha Mr. Crabbe,

On behalf of the lead agency for the proposed undertaking, the U.S. Department of Housing and Urban Development (HUD); and the landowner, the Hawai'i Public Housing Authority (HPHA); and in coordination with its national planner, Hunt Companies, Inc.; and its local planner, PBR Hawaii & Associates, Inc., TCP Hawai'i, LLC, is conducting an Archaeological Inventory Survey (AIS) and a Cultural Impact Assessment (CIA) of an approximately 15.3-acre project area in Honolulu in support of the Mayor Wright Homes Redevelopment Project (TMK [1] 1-7-029:003).

The Area of Potential Effect (APE) is the same as the physical footprint of the TMK parcel; and is synonymous with the term "project area," which is bounded by N. King St., Pua Lane, Vineyard Blvd., and Liliha St. in Honolulu (**Figure 1** and **Figure 2**). The APE/project area is located in a thoroughly urbanized/developed part of Honolulu: Iwilei is located just makai (seaward) of the project area; Kalihi and Kapālama are to the 'ewa (west) side; Nu'uanu and Chinatown are located to the northeast and southeast, respectively.

The purpose of this consultation letter is (1) to provide notification that this project could affect historic properties of interest to you; (2) to seek your views on the methods by which we will identify and evaluate historic properties in the project area; and (3) to solicit your views on the proposed undertaking's potential effects on historic properties.

We also seek your input as to other interested parties with whom you believe we should be consulting. At the end of this letter, we list other organizations and individuals with whom we have also initiated consultation for this proposed undertaking.

This letter represents only the start of our formal consultation efforts with you. We will continue to consult, formally as well as informally, throughout the entire process of conducting our AIS and CIA investigations; and we will continue to seek your views on the identification of historic properties, their evaluation, and mitigation of any adverse effects.

Proposed Undertaking

Mayor Wright Homes (public housing complex built by the HPHA) were first occupied in 1952 or 1953 (depending on the source), making them some 63 or 64 years old.[1] The proposed undertaking will replace the existing 364 residential units—currently consisting of 35 separate, low-rise buildings (plus an administration building)—with 1,000–1,500 residential units and other mixed-use structures; the new development will include low, medium and high-rise buildings. This project is considered to be part of the Transit-Oriented Development (TOD) associated with construction of the Honolulu Rail Transit Project.

Cultural and Historical Background

The entire project area is more or less full of Land Commission Awards (LCAw), or kuleana parcels, dating from the middle-nineteenth century legal process of land division and private ownership known as the Māhele.[2] There are more than two dozen LCAs wholly or partially within the project area, or immediately adjacent to its boundaries (**Figure 3**). Preliminary analysis of these records indicates the project area represented prime, irrigated taro lands in or immediately adjacent to the lower floodplain of Nu'uanu Stream, with traditional irrigation ditches ('auwai) and scattered house sites dotting the landscape.

A Hawaiian Kingdom government survey map from 1887 depicts a large residential structure labelled "R. Keliiokolani" (i.e., Princess Ruth Ke'elikōlani) in the southwest corner of the project area, but no other structures; the 1906 series of Dakin Fire Insurance maps shows many structures throughout most of the project area with the vast majority labelled as "dwellings" or "tenements." Interestingly, much of the eastern quadrant of the project area was still being used to grow taro and other plants. A tofu-making operation was located along Pua Lane. A "Japanese hotel" and several horse stables and facilities were also scattered about the project area.

These and other historical maps and documentation indicate the project area has been heavily developed/urbanized for over 100 years; before this, in the nineteenth century and in "precontact" times, the project area was full of traditional Hawaiian lo'i kalo (irrigated taro gardens). At least some small house sites were also located in the project area. It is unlikely that the project area would have been used for burials prior to the historic period. These were prime agricultural lands. However, following the social disruptions caused by the arrival of Americans, Euroamericans and Europeans around 1800 and increasingly in the early nineteenth century, burial practices may have changed as traditional access to the entire ahupua'a was cut off. Thus, it is possible that some "backyard burials" may have taken place in the nineteenth century in the project area.

Previous and Proposed Cultural Resource Evaluations in the Project Area

To the best of our knowledge, there have not been any formal archaeological surveys or cultural resources assessments in the project area, since the existing Mayor Wright Homes was completed prior to the introduction of environmental and historic-preservation laws (starting in the 1960s).

Our AIS will be conducted in accordance with Hawai'i Administrative Rules (HAR) § 13-276; we will consult with the SHPD to develop an appropriate scope of work to ensure all historic properties are identified. Our CIA will be conducted in accordance with Hawai'i Revised Statutes (HRS) § 343 and HAR § 11-200, as well as the State Office of Environmental Quality Control's (OEQC) 2012 *Guide to the Implementation and Practice of the Hawaii Environmental Policy Act*.

[1] The above-ground, architectural structures in the APE/project area are being evaluated by Fung Associates, Inc.
[2] The areas on the 1939 map where there are no LCAs depicted, but where Land Court Application numbers appear, conceal still more LCAs that will be documented and analyzed in our investigations.

Consultation Process for this Project to Date

In addition to your agency, we have also initiated formal consultation efforts with the following individuals and organizations:

- State Historic Preservation Division, Department of Land and Natural Resources
- O'ahu Island Burial Council
- Ms. Paulette Kaanohiokalani Kalcikini
- Ms. Cynthia B. Yoshida (Public Housing Supervisor at Mayor Wright Homes)
- Kalihi-Palama Hawaiian Civic Club
- Kalihi-Palama Neighborhood Board (No. 15)

If you know of other individuals or organizations with whom you believe we should consult, we request that you kindly share this information with us.

Please feel free to contact me via email, regular mail or phone if you have any questions about this consultation letter.

With aloha,

Christopher M. Monahan, Ph.D.
Owner, Principal Investigator
TCP Hawai'i, LLC
(808) 754-0304
mookahan@gmail.com

cc: Kai Markell, OHA
Lauren Morawski, OHA

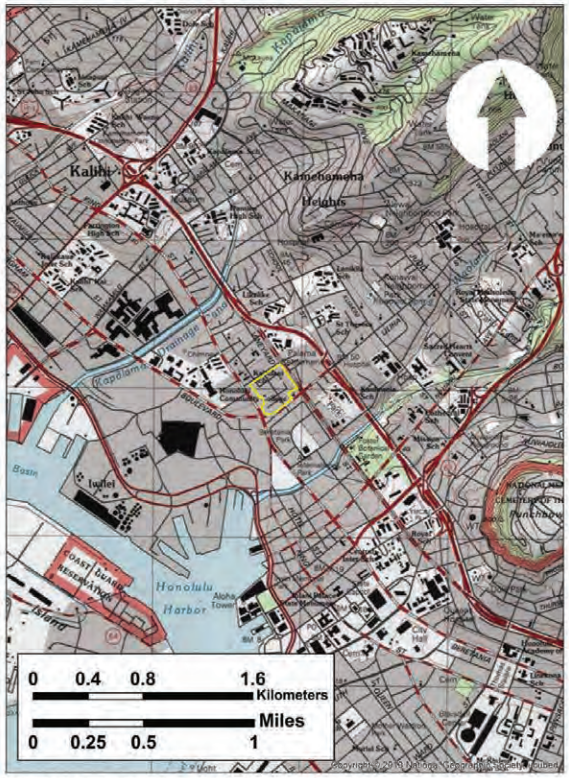

Figure 1. Project area (yellow outline) depicted on a USGS topographic map

Figure 2. Project area (yellow outline) depicted on an aerial photograph

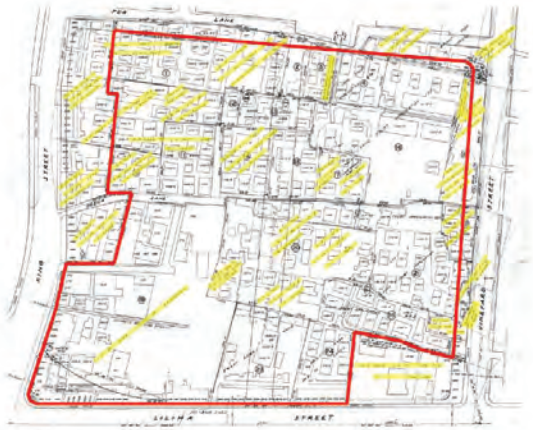

Figure 3. Detail of 1939 Hawaii Housing Authority map showing high density of Land Commission Awards (yellow highlights) in and adjacent to the project area (red line)

EXHIBIT 12

DAVID Y. IGE
GOVERNOR

HAKIM OUANSAFI
EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. G. Umi Kai
'Aha Kāne
P.O. Box 31303
Honolulu, HI 96820-1303

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Kai,

The Hawai'i Public Housing Authority ("HPHA") is evaluating the potential redevelopment of the Mayor Wright Homes public housing development located at 521 North Kukui Street, District of Kona, Oahu, Honolulu Ahupua'a, Tax Map Key ("TMK") (1) 1-7-029:003 ("Site"). The overall redevelopment program would include applying to the U.S. Department of Housing and Urban Development ("HUD") to raze the existing structures and redevelop the site as a mixed-income, mixed-use housing development ("Project"). The proposed Project will total approximately 2,448 residential rental units; approximately two-thirds of which shall be affordable units, including the replacement of the existing 364 public housing units on site, on a one-for-one basis, with similarly deeply subsidized units. In addition, up to 80,000 square feet of commercial space is also proposed for the Project, which may include a mix of retail, office space, and community services to support the new residential units and complement the surrounding neighborhood.

The Mayor Wright Homes redevelopment will not only improve housing conditions for our current tenants, but will fundamentally transform an existing, six-decade old, state-owned land asset, into a new, mixed-income, mixed-use, transit oriented development enhancing the existing vibrant Kalihi, Liliha, Kapālama, and Iwilei communities. As the Project's residential units will be 100% rental, the Project will facilitate the delivery of urgently needed new rental housing units to help address the existing affordable rental housing crisis across the State of Hawai'i. The HPHA has entered into a public/private partnership with MWH Partners, LLC, its affiliates and consultants ("Development Team") to execute the Project.

HPHA is evaluating utilizing available funding pursuant to the Housing Act of 1937, as amended, to assist in the construction of Replacement Units and to contribute toward the

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GOVERNOR

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EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

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July 18, 2018

Mr. Thomas Joseph Lenchanko
Aha Kukaniloko Koa Mana mea ola kanaka mauli
931 Uakanikoo Street
Wahiawa, HI 96786

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Lenchanko,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

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July 18, 2018

Ms. Donna D. Sterling
Aha Moku o Kahikinui
P.O. Box 700
Makawao, HI 96768

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Sterling,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

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July 18, 2018

Mr. Ke'eaumoku Kapu
Aha Moku o Maui Inc.
P.O. Box 11524
Lahaina, HI 96761

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Kapu,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
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July 18, 2018

Ms. Linda Kaleo Paik
Aha Wahine
98-070 Lokowai Street
Aiea, HI 96701

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Paik,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
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July 18, 2018

Ms. Rona Rodenhurst
'Ahahui Siwila Hawai'i O Kapōlei
P.O. Box 700007
Kapolei, HI 96709

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Rodenhurst,

The Hawai'i Public Housing Authority ("HPHA") is evaluating the potential redevelopment of the Mayor Wright Homes public housing development located at 521 North Kukui Street, District of Kona, Oahu, Honolulu Ahupua'a, Tax Map Key ("TMK") (1) 1-7-029:003 ("Site"). The overall redevelopment program would include applying to the U.S. Department of Housing and Urban Development ("HUD") to raze the existing structures and redevelop the site as a mixed-income, mixed-use housing development ("Project"). The proposed Project will total approximately 2,448 residential rental units; approximately two-thirds of which shall be affordable units, including the replacement of the existing 364 public housing units on site, on a one-for-one basis, with similarly deeply subsidized units. In addition, up to 80,000 square feet of commercial space is also proposed for the Project, which may include a mix of retail, office space, and community services to support the new residential units and complement the surrounding neighborhood.

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AN EQUAL OPPORTUNITY AGENCY

DAVID Y. IGE
GOVERNOR

HAKIM OUANSAFI
EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
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July 18, 2018

Ms. Kammy Purdy
Ahupua'a o Moloka'i
P.O. Box 159
Hoolehua, HI 96729

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Purdy,

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GOVERNOR

HAKIM OUANSAFI
EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
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July 18, 2018

Mr. Dennis Kanahele
Aloha First
P.O. Box 701
Waimanalo, HI 96795-0701

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Kanahele,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
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July 18, 2018

Ms. Annelle Amaral
Association of Hawaiian Civic Clubs
P.O. Box 1135
Honolulu, HI 96807

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Amaral,

The Hawai'i Public Housing Authority ("HPHA") is evaluating the potential redevelopment of the Mayor Wright Homes public housing development located at 521 North Kukui Street, District of Kona, Oahu, Honolulu Ahupua'a, Tax Map Key ("TMK") (1) 1-7-029:003 ("Site"). The overall redevelopment program would include applying to the U.S. Department of Housing and Urban Development ("HUD") to raze the existing structures and redevelop the site as a mixed-income, mixed-use housing development ("Project"). The proposed Project will total approximately 2,448 residential rental units; approximately two-thirds of which shall be affordable units, including the replacement of the existing 364 public housing units on site, on a one-for-one basis, with similarly deeply subsidized units. In addition, up to 80,000 square feet of commercial space is also proposed for the Project, which may include a mix of retail, office space, and community services to support the new residential units and complement the surrounding neighborhood.

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HPHA is evaluating utilizing available funding pursuant to the Housing Act of 1937, as amended, to assist in the construction of Replacement Units and to contribute toward the

DAVID Y. IGE
GOVERNOR

HAKIM OUANSAFI
EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Blossom Feiteira
Association of Hawaiians for Homestead Lands
2149 Lauwiliwili St., Ste. 200
Kapolei, HI 96707

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Feiteira,

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STATE OF HAWAII
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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Samson L. Brown
Au Puni O Hawaii
21 Pohai Street
Hilo, HI 96720

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Brown,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Brian Kaniela Nae'ole Naauao
Brian Kaniela Nae'ole Naauao
477 South Kamehameha Avenue
Kahului, HI 96732

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Naauao,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Maydean K. Bowman
Charles Pelenui Mahi Ohana
P.O. Box 44692
Kawaihae, HI 96743

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Bowman,

The Hawai'i Public Housing Authority ("HPHA") is evaluating the potential redevelopment of the Mayor Wright Homes public housing development located at 521 North Kukui Street, District of Kona, Oahu, Honolulu Ahupua'a, Tax Map Key ("TMK") (1) 1-7-029:003 ("Site"). The overall redevelopment program would include applying to the U.S. Department of Housing and Urban Development ("HUD") to raze the existing structures and redevelop the site as a mixed-income, mixed-use housing development ("Project"). The proposed Project will total approximately 2,448 residential rental units; approximately two-thirds of which shall be affordable units, including the replacement of the existing 364 public housing units on site, on a one-for-one basis, with similarly deeply subsidized units. In addition, up to 80,000 square feet of commercial space is also proposed for the Project, which may include a mix of retail, office space, and community services to support the new residential units and complement the surrounding neighborhood.

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STATE OF HAWAII
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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Napali Woode
Council for Native Hawaiian Advancement
2149 Lauwiliwili St., Ste. 200
Kapolei, HI 96707

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Woode,

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AN EQUAL OPPORTUNITY AGENCY

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STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Kippen de Alba Chu
Friends of ʻIolani Palace
P.O. Box 2259
Honolulu, HI 96804-2259

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUAʻA
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. de Alba Chu,

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STATE OF HAWAII
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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Blossom Feiteira
Friends of Mokuʻula, Inc.
505 Front Street, Suite 221
Lahaina, HI 96761

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUAʻA
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Feiteira,

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STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Mahealani Cypher
George K. Cypher ‘Ohana
c/o Denise DeCosta
45-342 Lilipuna Road #308
Kaneohe, HI 96744

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA‘A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Cypher,

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BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Ilima Ho-Lastimosa
God's Country Waimanalo
P.O. Box 723
Waimanalo, HI 96795

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA‘A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Ho-Lastimosa,

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STATE OF HAWAII
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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Winifred Basques
Hauʻouiwi Homestead Association on Lānaʻi
P.O. Box 630521
Lānaʻi City, HI 96743

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUAʻA
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Basques,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Antoinette K. Mallow
Hawaiian Civic Club of Hilo
P.O. Box 592
Hilo, HI 96721

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUAʻA
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Mallow,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Maria "Malia" Doo
Hawaiian Civic Club of Wahiawa
95-524 Wehewehe Loop
Mililani, HI 96789

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Doo,

The Hawai'i Public Housing Authority ("HPHA") is evaluating the potential redevelopment of the Mayor Wright Homes public housing development located at 521 North Kukui Street, District of Kona, Oahu, Honolulu Ahupua'a, Tax Map Key ("TMK") (1) 1-7-029:003 ("Site"). The overall redevelopment program would include applying to the U.S. Department of Housing and Urban Development ("HUD") to raze the existing structures and redevelop the site as a mixed-income, mixed-use housing development ("Project"). The proposed Project will total approximately 2,448 residential rental units; approximately two-thirds of which shall be affordable units, including the replacement of the existing 364 public housing units on site, on a one-for-one basis, with similarly deeply subsidized units. In addition, up to 80,000 square feet of commercial space is also proposed for the Project, which may include a mix of retail, office space, and community services to support the new residential units and complement the surrounding neighborhood.

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DAVID Y. IGE
GOVERNOR

HAKIM OUANSAFI
EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Jeff Gilbreath
Hawaiian Community Assets, Inc.
200 N. Vineyard Blvd., #A300
Honolulu, HI 96817

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Gilbreath,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Ilima Ho-Lastimosa
Ho Ohana
41-727 Ala Koa Street
Waimanalo, HI 96795

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Ho-Lastimosa,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Dawn N. S. Chang
Ho'okano Family Land Trust
c/o 1003 Bishop Street, Suite 2750
Honolulu, HI 96813

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Chang,

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HAKIM OUANSAFI
EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Adrian Nakea Silva
Hui Huliau Inc.
P.O. Box 587
Waianae, HI 96792

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Silva,

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EXECUTIVE ASSISTANT

STATE OF HAWAII
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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Jaynie I. Stone
Hui Kaleleiki Ohana
1091 Lunaanela Street
Kailua, HI 96734

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Stone,

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STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Michelle Malia Hiraishi
Hui Mālama Ola Nā ʻŌiwi
69 Railroad Ave., Suite A-3
Hilo, HI 96720

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUAʻA
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Hiraishi,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Kealii Lopez
Imua Hawaii
P.O. Box 1811
Honolulu, HI 96805

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUAʻA
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Lopez,

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DAVID Y. IGE
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HAKIM OUANSAFI
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EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Sharon K. Paulo
Kaha I Ka Panoa Kaleponi Hawaiian Civic Club
P.O. Box 9817
Moreno Valley, CA 92552

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Paulo,

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STATE OF HAWAII
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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Kanekoa Kukea-Shultz
Kākoʻo ʻŌiwi
46-005 Kawa Street #104
Kaneohe, HI 96744

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Kukea-Shultz,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Melissa M. Lyman
Kalaeloa Heritage and Legacy Foundation
P.O. Box 700012
Kapolei, HI 96709

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Lyman,

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STATE OF HAWAII
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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
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July 18, 2018

Ms. Gayla M. Haliniak-Lloyd
Kalama'ula Homesteaders Association
P.O. Box 1025
Kaunakakai, HI 96748

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Haliniak-Lloyd,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
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July 18, 2018

Ms. Leimomi Khan
Kalihi Palama Hawaiian Civic Club
c/o 1288 Kapiolani Boulevard, Unit 1905
Honolulu, HI 96814

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Khan,

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The Mayor Wright Homes redevelopment will not only improve housing conditions for our current tenants, but will fundamentally transform an existing, six-decade old, state-owned land asset, into a new, mixed-income, mixed-use, transit oriented development enhancing the existing vibrant Kalihi, Liliha, Kapālama, and Iwilei communities. As the Project's residential units will be 100% rental, the Project will facilitate the delivery of urgently needed new rental housing units to help address the existing affordable rental housing crisis across the State of Hawai'i. The HPHA has entered into a public/private partnership with MWH Partners, LLC, its affiliates and consultants ("Development Team") to execute the Project.

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DAVID Y. IGE
GOVERNOR

HAKIM OUANSAFI
EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Thomas Kamealoha
Kamealoha
84-1035 Kaulaili Road #A
Waianae, HI 96795

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Kamealoha,

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EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Piilani Hanohano
Kamehameha Schools - Community Relations and Communications Group,
Government Relations
567 South King Street, Suite 400
Honolulu, HI 96813

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Hanohano,

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EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Vivian L. Ainoa
Kamiloloa One Ali'i Homestead Association
P.O. Box 1349
Kaunakakai, HI 96748

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Ainoa,

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EXECUTIVE ASSISTANT

STATE OF HAWAII
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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Taffi Wise
Kanu o ka ʻĀina Learning ʻOhana
P.O. Box 6511
Kamuela, HI 96743

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUAʻA
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Wise,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

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18:OED/34

July 18, 2018

Mr. Joseph Kūhiō Lewis
Kapolei Community Development Corporation
P.O. Box 75658
Kapolei, HI 96707

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUAʻA
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Lewis,

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STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Carol N. Johnson
Kauwahi ʻAnaina Hawaiʻi Hawaiian Civic Club
P.O. Box 50808
Provo, UT 84605

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUAʻA
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Johnson,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Thomas T. Shirai
Kawaihapai Ohana
P.O. Box 601
Waialua, HI 96791

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUAʻA
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Shirai,

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STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Roth Puahala
Ke One O Kakuhihewa
P.O. Box 37874
Honolulu, HI 96837-1122

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Puahala,

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BARBARA E. ARASHIRO
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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Dennis W. Ragsdale
Kingdom of Hawai'i
1777 Ala Moana Blvd. #142-102
Honolulu, HI 96815-1603

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Ragsdale,

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STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Mahealani Cypher
Koʻolau Foundation
P.O. Box 4749
Kaneohe, HI 96744

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUAʻA
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Cypher,

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BARBARA E. ARASHIRO
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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Mahealani Cypher
Koʻolaupoko Hawaiian Civic Club
P.O. Box 664
Kaneohe, HI 96744

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUAʻA
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Cypher,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
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July 18, 2018

Mr. Glen Kila
Koa Ike
89-530 Mokiawe Street
Waianae, HI 96792-3840

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Kila,

The Hawai'i Public Housing Authority ("HPHA") is evaluating the potential redevelopment of the Mayor Wright Homes public housing development located at 521 North Kukui Street, District of Kona, Oahu, Honolulu Ahupua'a, Tax Map Key ("TMK") (1) 1-7-029:003 ("Site"). The overall redevelopment program would include applying to the U.S. Department of Housing and Urban Development ("HUD") to raze the existing structures and redevelop the site as a mixed-income, mixed-use housing development ("Project"). The proposed Project will total approximately 2,448 residential rental units; approximately two-thirds of which shall be affordable units, including the replacement of the existing 364 public housing units on site, on a one-for-one basis, with similarly deeply subsidized units. In addition, up to 80,000 square feet of commercial space is also proposed for the Project, which may include a mix of retail, office space, and community services to support the new residential units and complement the surrounding neighborhood.

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DAVID Y. IGE
GOVERNOR

HAKIM OUANSAFI
EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Adrienne Dillard
Kula no na Po'e Hawaii
P.O. Box 23268
Honolulu, HI 96823

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Dillard,

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BARBARA E. ARASHIRO
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STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Leslie Apiu Aipalena Kuloloio
Kuloloi'a Lineage - I ke Kai 'o Kuloloi'a
469 Maalo Street
Kahului, HI 96732

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Kuloloio,

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BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Craig V. Kahui
La'i 'Ōpua 2020
74-5599 Luhia Street, E5
Kailua Kona, HI 96740

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Kahui,

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EXECUTIVE ASSISTANT

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Kaleo Keeno
Lahui Kaka'ikahi
41-210 Hihimanu Street
Waimanalo, HI 96795

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Keeno,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
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IN REPLY PLEASE REFER TO:
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July 18, 2018

Ms. Lani Ma'a Lapilio
Ma'a 'Ohana c/o Lani Ma'a Lapilio
c/o Aukahi
P.O. Box 6087
Kaneohe, HI 96744-9998

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Lapilio,

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EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

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HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Brenda Luana Machado Lee
Machado-Akana-Aona-Namakaeha Ohana
P.O. Box 133
Captain Cook, HI 96704

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Lee,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Keona Mark
Mahu Ohana
P.O. Box 2
Haleiwa, HI 96712

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Mark,

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HAKIM OUANSAFI
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EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Charlene Lui
Mainland Council Association of Hawaiian Civic Clubs
766 North 900 West
Orem, UT 84057

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Lui,

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STATE OF HAWAII
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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Lu Faborito
Makaha Hawaiian Civic Club
P.O. Box 305
Waianae, HI 96792

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Faborito,

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STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Paula K. Kekahuna
Maku'u Farmers Association
15-2131 Keaau Pahoa Highway
Pahoa, HI 96778

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Kekahuna,

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BARBARA E. ARASHIRO
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STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
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July 18, 2018

Ms. Homelani Schaedel
Malu'ōhai Residents Association
P.O. Box 700911
Kapolei, HI 96709

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Schaedel,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
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July 18, 2018

Mr. Vincent Manuwai
Mana Health Services, Inc.
94-307 Farrington Hwy, Unit B01
Waipahu, HI 96797

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Manuwai,

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DAVID Y. IGE
GOVERNOR

HAKIM OUANSAFI
EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Glen Kila
Marae Ha'a Koa
89-530 Mokiawe Street
Waianae, HI 96792-3840

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Kila,

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HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Paul Richards
Meleana Kawaiaea, LLC
41-155 Poliala Street
Waimanalo, HI 96795

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Richards,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Michael Kahue
Menehune Foundation
1188 Bishop St., Suite 3004
Honolulu, HI 96813

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Kahue,

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EXECUTIVE DIRECTOR

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EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Jade Alohalani Smith
Moku o Kaupo
P.O. Box 1269
Kula, HI 96790

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Smith,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Uilani Kapu
Na Aikane O Maui
562A Front Street
Lahaina, HI 96761

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Kapu,

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STATE OF HAWAII
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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Mililani B. Trask
Na Koa Ikaika Ka Lahui Hawaii
P.O. Box 6377
Hilo, HI 96720

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Trask,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
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July 18, 2018

Ms. H. Kanoeokalani Cheek
Na Ku'auhau 'o Kahiwakaneikopolei
P.O. Box 5411
Kane'ohe, HI 96744

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Cheek,

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STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Donna Kaliko Santos
Nā Kuleana o Kānaka ʻŌiwi
P.O. Box 1541
Līhuʻe, HI 96766

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUAʻA
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Santos,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Noa Mau-Espirito
Na Mookupuna O Wailua
6200 Olohena Road Unit A
Kapaa, HI 96746

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUAʻA
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Mau-Espirito,

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EXECUTIVE ASSISTANT

STATE OF HAWAII
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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Roxanne Hanawahine
Na Ohana o Puaoi a me Hanawahine
41-153 Nalu Street
Waimanalo, HI 96795

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Hanawahine,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Paige Kapiolani Barber
Nanakuli Housing Corporation
P.O. Box 17489
Honolulu, HI 96817

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Barber,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
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IN REPLY PLEASE REFER TO:
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July 18, 2018

Ms. Leilani Williams-Solomon
Native Hawaiian Chamber of Commerce
P.O. Box 597
Honolulu, HI 96809

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Williams-Solomon,

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HPHA is evaluating utilizing available funding pursuant to the Housing Act of 1937, as amended, to assist in the construction of Replacement Units and to contribute toward the

DAVID Y. IGE
GOVERNOR

HAKIM OUANSAFI
EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Kaleo Patterson
Native Hawaiian Church
1127 Bethel Street, Suite 16
Honolulu, HI 96813

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Patterson,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Napali Woode
Native Hawaiian Economic Alliance
2149 Lauwiliwili St., Ste. 200
Kapolei, HI 96707

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Woode,

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STATE OF HAWAII
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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Sylvia M. Hussey
Native Hawaiian Education Council
735 Bishop Street, Suite 224
Honolulu, HI 96813

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Hussey,

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HAKIM OUANSAFI
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EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Pohai Ryan
Native Hawaiian Hospitality Association
310 Paoakalani Avenue, #201A
Honolulu, HI 96815

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Ryan,

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STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Maraea K. Nekaifes
Nekaifes Ohana
212 Hiipali Loop
Kula, HI 96790-7273

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Nekaifes,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Dr. Kamana'opono M. Crabbe
Office of Hawaiian Affairs
560 N. Nimitz Hwy., Suite 200
Honolulu, HI 96817

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Dr. Crabbe,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Dennis w. Ragsdale
Order of Kamehameha I
1777 Ala Moana Blvd. #142-102
Honolulu, HI 96815-1603

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Ragsdale,

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HAKIM OUANSAFI
EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. William W. Moekahi Steiner
Pacific Agricultural Land Management Systems
P.O. Box 4565
Hilo, HI 96720

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Steiner,

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BARBARA E. ARASHIRO
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STATE OF HAWAII
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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Kaleo Patterson
Pacific Justice & Reconciliation Center
1127 Bethel Street, Suite 16
Honolulu, HI 96813

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Victoria Holt Takamine
PA'I Foundation
P.O. Box 17483
Honolulu, HI 96817

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Takamine,

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STATE OF HAWAII
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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
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July 18, 2018

Ms. Sharlene Chun-Lum
Papa Ola Lokahi
894 Queen Street
Honolulu, HI 96813

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Chun-Lum,

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HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
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July 18, 2018

Ms. Lilia Kapuniai
Papakōlea Community Development Corporation
2150 Tantalus Drive
Honolulu, HI 96813

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Kapuniai,

The Hawai'i Public Housing Authority ("HPHA") is evaluating the potential redevelopment of the Mayor Wright Homes public housing development located at 521 North Kukui Street, District of Kona, Oahu, Honolulu Ahupua'a, Tax Map Key ("TMK") (1) 1-7-029:003 ("Site"). The overall redevelopment program would include applying to the U.S. Department of Housing and Urban Development ("HUD") to raze the existing structures and redevelop the site as a mixed-income, mixed-use housing development ("Project"). The proposed Project will total approximately 2,448 residential rental units; approximately two-thirds of which shall be affordable units, including the replacement of the existing 364 public housing units on site, on a one-for-one basis, with similarly deeply subsidized units. In addition, up to 80,000 square feet of commercial space is also proposed for the Project, which may include a mix of retail, office space, and community services to support the new residential units and complement the surrounding neighborhood.

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DAVID Y. IGE
GOVERNOR

HAKIM OUANSAFI
EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Jan E. Hanohano Dill
Partners in Development Foundation
2040 Bachelot Street
Honolulu, HI 96817

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Dill,

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STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Olinda Aiwohi
Paukukalo Hawaiian Homes Community Association
781 Kawananakoa Street
Wailuku, HI 96793

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Aiwohi,

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1002 NORTH SCHOOL STREET
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HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Apela Peahi
Peahi Ohana
41-205 Lupe Street
Waimanalo, HI 96795

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Peahi,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Ronald Kodani
Piihonua Hawaiian Homestead Community Association
37 Waiea Place
Hilo, HI 96720

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Kodani,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. L. Laakea Suganuma
Royal Hawaiian Academy of Traditional Arts
835 Ahuwale Street
Honolulu, HI 96821

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Suganuma,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Robin Puanani Danner
Sovereign Councils of the Hawaiian Homelands Assembly
2149 Lauwiliwili Street, Suite 200
Kapolei, HI 96707

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Danner,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. William K. Richards
The Friends of Hokule'a and Hawai'iloa
P.O. Box 696
Kailua, HI 96734

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Melvin Soong
The I Mua Group
422 Iliaina Street
Kailua, HI 96734

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Eugene O'Connell
The Makua Group
87-282 Holopono Street
Waianae, HI 96792

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. O'Connell,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Laʻakea Suganuma
The Mary Kawena Pūkuʻi Cultural Preservation Society
835 Ahuwale Street
Honolulu, HI 96821

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUAʻA
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Suganuma,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
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July 18, 2018

Ms. Mele Worthington
Waiʻanae Hawaiian Civic Club
P.O. Box 687
Waiʻanae, HI 96792-0687

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUAʻA
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Worthington,

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IN REPLY PLEASE REFER TO:
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July 18, 2018

Mr. Roy Oliveira
Waiehu Kou Phase 3 Association
49 Kaulana Na Pua Circle
Wailuku, HI 96793

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Oliveira,

The Hawai'i Public Housing Authority ("HPHA") is evaluating the potential redevelopment of the Mayor Wright Homes public housing development located at 521 North Kukui Street, District of Kona, Oahu, Honolulu Ahupua'a, Tax Map Key ("TMK") (1) 1-7-029:003 ("Site"). The overall redevelopment program would include applying to the U.S. Department of Housing and Urban Development ("HUD") to raze the existing structures and redevelop the site as a mixed-income, mixed-use housing development ("Project"). The proposed Project will total approximately 2,448 residential rental units; approximately two-thirds of which shall be affordable units, including the replacement of the existing 364 public housing units on site, on a one-for-one basis, with similarly deeply subsidized units. In addition, up to 80,000 square feet of commercial space is also proposed for the Project, which may include a mix of retail, office space, and community services to support the new residential units and complement the surrounding neighborhood.

The Mayor Wright Homes redevelopment will not only improve housing conditions for our current tenants, but will fundamentally transform an existing, six-decade old, state-owned land asset, into a new, mixed-income, mixed-use, transit oriented development enhancing the existing vibrant Kalihi, Liliha, Kapālama, and Iwilei communities. As the Project's residential units will be 100% rental, the Project will facilitate the delivery of urgently needed new rental housing units to help address the existing affordable rental housing crisis across the State of Hawai'i. The HPHA has entered into a public/private partnership with MWH Partners, LLC, its affiliates and consultants ("Development Team") to execute the Project.

HPHA is evaluating utilizing available funding pursuant to the Housing Act of 1937, as amended, to assist in the construction of Replacement Units and to contribute toward the

DAVID Y. IGE
GOVERNOR

HAKIM OUANSAFI
EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Mr. Kamakana M. Aquino
Waimānalo Hawaiian Homes Association
P.O. Box 353
Waimānalo, HI 96795

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Aquino,

The Hawai'i Public Housing Authority ("HPHA") is evaluating the potential redevelopment of the Mayor Wright Homes public housing development located at 521 North Kukui Street, District of Kona, Oahu, Honolulu Ahupua'a, Tax Map Key ("TMK") (1) 1-7-029:003 ("Site"). The overall redevelopment program would include applying to the U.S. Department of Housing and Urban Development ("HUD") to raze the existing structures and redevelop the site as a mixed-income, mixed-use housing development ("Project"). The proposed Project will total approximately 2,448 residential rental units; approximately two-thirds of which shall be affordable units, including the replacement of the existing 364 public housing units on site, on a one-for-one basis, with similarly deeply subsidized units. In addition, up to 80,000 square feet of commercial space is also proposed for the Project, which may include a mix of retail, office space, and community services to support the new residential units and complement the surrounding neighborhood.

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POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/34

July 18, 2018

Ms. Kiersten Faulkner
Historic Hawaii Foundation
680 Iwilei Road, Suite 690
Honolulu, HI 96817

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Ms. Faulkner,

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
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July 18, 2018

Mr. Winston Welch
The Outdoor Circle
1314 S. King Street, Suite 306
Honolulu, HI 96814

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Welch,

The Hawai'i Public Housing Authority ("HPHA") is evaluating the potential redevelopment of the Mayor Wright Homes public housing development located at 521 North Kukui Street, District of Kona, Oahu, Honolulu Ahupua'a, Tax Map Key ("TMK") (1) 1-7-029:003 ("Site"). The overall redevelopment program would include applying to the U.S. Department of Housing and Urban Development ("HUD") to raze the existing structures and redevelop the site as a mixed-income, mixed-use housing development ("Project"). The proposed Project will total approximately 2,448 residential rental units; approximately two-thirds of which shall be affordable units, including the replacement of the existing 364 public housing units on site, on a one-for-one basis, with similarly deeply subsidized units. In addition, up to 80,000 square feet of commercial space is also proposed for the Project, which may include a mix of retail, office space, and community services to support the new residential units and complement the surrounding neighborhood.

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
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July 18, 2018

Mr. Earl Fusato
Palama Settlement
810 N. Vineyard Blvd.
Honolulu, HI 96817

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Mr. Fusato,

The Hawai'i Public Housing Authority ("HPHA") is evaluating the potential redevelopment of the Mayor Wright Homes public housing development located at 521 North Kukui Street, District of Kona, Oahu, Honolulu Ahupua'a, Tax Map Key ("TMK") (1) 1-7-029:003 ("Site"). The overall redevelopment program would include applying to the U.S. Department of Housing and Urban Development ("HUD") to raze the existing structures and redevelop the site as a mixed-income, mixed-use housing development ("Project"). The proposed Project will total approximately 2,448 residential rental units; approximately two-thirds of which shall be affordable units, including the replacement of the existing 364 public housing units on site, on a one-for-one basis, with similarly deeply subsidized units. In addition, up to 80,000 square feet of commercial space is also proposed for the Project, which may include a mix of retail, office space, and community services to support the new residential units and complement the surrounding neighborhood.

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
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July 18, 2018

Pastor Reverand Emanuel Cruz
Aldersgate United Methodist Church
1352 Liliha Street
Honolulu, HI 96817

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Pastor Cruz,

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AN EQUAL OPPORTUNITY AGENCY

DAVID Y. IGE
GOVERNOR

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STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
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July 18, 2018

Chair Ryan Mandado
Neighborhood Board No. 15
1720 Kalani Street, Apt 202
Honolulu, HI 96819

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
TAX MAP KEY (TMK): (1) 1-7-029: 003

Aloha Chair Mandado,

The Hawai'i Public Housing Authority ("HPHA") is evaluating the potential redevelopment of the Mayor Wright Homes public housing development located at 521 North Kukui Street, District of Kona, Oahu, Honolulu Ahupua'a, Tax Map Key ("TMK") (1) 1-7-029:003 ("Site"). The overall redevelopment program would include applying to the U.S. Department of Housing and Urban Development ("HUD") to raze the existing structures and redevelop the site as a mixed-income, mixed-use housing development ("Project"). The proposed Project will total approximately 2,448 residential rental units; approximately two-thirds of which shall be affordable units, including the replacement of the existing 364 public housing units on site, on a one-for-one basis, with similarly deeply subsidized units. In addition, up to 80,000 square feet of commercial space is also proposed for the Project, which may include a mix of retail, office space, and community services to support the new residential units and complement the surrounding neighborhood.

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1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
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July 18, 2018

Chair Wesley Fong
Neighborhood Board No. 14
925 Dilingham Blvd. Suite 160
Honolulu, HI 96817

SUBJECT: NATIONAL HISTORIC PRESERVATION ACT
SECTION 106 CONSULTATION
MAYOR WRIGHT HOMES REDEVELOPMENT
DISTRICT OF KONA, OAHU, HONOLULU AHUPUA'A
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Aloha Chair Fong,

The Hawai'i Public Housing Authority ("HPHA") is evaluating the potential redevelopment of the Mayor Wright Homes public housing development located at 521 North Kukui Street, District of Kona, Oahu, Honolulu Ahupua'a, Tax Map Key ("TMK") (1) 1-7-029:003 ("Site"). The overall redevelopment program would include applying to the U.S. Department of Housing and Urban Development ("HUD") to raze the existing structures and redevelop the site as a mixed-income, mixed-use housing development ("Project"). The proposed Project will total approximately 2,448 residential rental units; approximately two-thirds of which shall be affordable units, including the replacement of the existing 364 public housing units on site, on a one-for-one basis, with similarly deeply subsidized units. In addition, up to 80,000 square feet of commercial space is also proposed for the Project, which may include a mix of retail, office space, and community services to support the new residential units and complement the surrounding neighborhood.

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HPHA is evaluating utilizing available funding pursuant to the Housing Act of 1937, as amended, to assist in the construction of Replacement Units and to contribute toward the

operation of the Replacement Units with either public housing operating subsidy and/or project based vouchers. Because these proposed funding sources would include federal funding or grants, the proposed Project is considered a federal action or undertaking. Accordingly, it is required to comply with the National Environmental Policy Act ("NEPA") and the National Historic Preservation Act of 1966, as amended ("NHPA"), and other federal requirements ("Federal Requirements").

As it begins the process of complying with these Federal Requirements, and in accordance with implementing regulations at 36 CFR Part 800 ("Section 106 Regulations"), The HPHA is in the process of identifying organizations who may have an interest in the Project and its potential to affect historic properties, as well as Native Hawaiian Organizations and Native Hawaiian descendants who may have ancestral lineal or cultural ties, knowledge, or religious attachment to the Project site or concerns regarding the proposed Project ("Consulting Party" or "Consulting Parties"). The purpose of this letter is to invite your organization to be a Consulting Party for this Project pursuant to the rights and obligations conveyed to Consulting Parties under NHPA and Section 106 Regulations[1].

Based on the Development Team's analysis, site and area observations, consultation with the State Historic Preservation Division ("SHPD") and ongoing consultation with local community groups, the proposed Project will ultimately result in a determination of "adverse effect" with regard to historic architectural resources since the proposed Project will involve demolition of the existing buildings on the Project site, which themselves have been identified as a eligible for listing on a historic register (as further detailed in Attachment 1). The Development Team will continue to consult with the State Historic Preservation Officer ("SHPO") and other Consulting Parties to develop and evaluate alternatives or modifications to the Project that may avoid, minimize, or mitigate potential adverse effects on historic properties located in the area of the Project. If warranted, a Memorandum of Agreement ("MOA") may also be developed to identify mitigation commitments pertaining to historic architectural resources and resolve potential adverse effects to those resources through on-going consultation with Consulting Parties.

By becoming a Consulting Party, you will be actively engaging in the Section 106 process for the proposed Project. If you would like to request Consulting Party status for this Project, please contact Kimi Yuen at PBR Hawai'i at kyuen@pbrhawaii.com. If you are requesting Consulting Party status as an organization, we respectfully request that your organization nominate one representative and an alternate to participate on behalf of the group. Individuals may also participate in the Section 106 process as members of the public. We would appreciate a written response by August 17, 2018.

A summary of the Project, the environmental, cultural and historic review completed to date and remaining steps are described in Attachment 1 to this letter. We welcome any comments regarding this Project, the proposed improvements, its potential effects to

[1] The review process, known as Section 106 review, is described at https://www.onecpd.info/environmental-review/historic-preservation/ and at http://www.achp.gov/citizensguide.html

historic architectural resources, and any further observations regarding historic architectural, archaeological, cultural resources, religious attachment or other concerns you may have.

In addition to this letter of invitation, a Section 106 notice/advertisement shall also be published in *The Honolulu Star-Advertiser*. The advertisement shall also request a response within 30 days of the publication.

We look forward to working with you, your organization and the State Historic Preservation Division in completing the Section 106 review and moving forward with the development of the proposed Project and completing desperately needed housing units.

Again, please contact Kimi Yuen at PBR Hawai'i if you have any questions regarding this project.

Sincerely,

Hakim Ouansafi
Executive Director

Attachment 1: *Historic Review Summary and Description of Next Steps Mayor Wright Homes*

Attachment 1
Historic Review Summary and Description of Next Steps
Mayor Wright Homes

Introduction

The Hawai'i Public Housing Authority ("HPHA") is partnered with MWH Partners, LLC ("MHW Partners") a Delaware Limited Liability Company authorized to do business in the State of Hawaii, under a Master Development Agreement ("MDA") for the proposed redevelopment of the HPHA's Mayor Wright Homes, a 364-unit public housing development comprising a 14.8 Acres site located at 521 North Kukui Street Honolulu, Hawaii (TMK: 1-7-029:003) bounded by North King Street, Pua Lane, North Vineyard Boulevard, and Liliha Street.

The Mayor Wright Homes redevelopment project ("Project") will transform an existing state owned housing project into a new mixed-income, mixed-use transit oriented development ("TOD") that will be an integral part of the Kalihi-Pālama neighborhood. The proposed Project includes approximately 2,448 residential rental units; approximately two-thirds of which shall be affordable units. In addition, the Project shall include, at minimum, a one-for-one replacement of the existing 364 public housing units. Up to 80,000 square feet of commercial space is also proposed for the Project, which may include a mix of retail, office space, and community services to support the new residential units and complement the surrounding neighborhood. Open spaces are envisioned throughout including a new community center, parks, community gardens, and recreational decks. New internal streets will be designed in accordance with City and County of Honolulu Complete Streets Ordinance (Section 14-33, ROH) to support safe pedestrian and bicycle circulation and will also include traffic calming measures to slow vehicle traffic through the site. Convenient pedestrian and bicycle access will also be provided to the surrounding transit facilities. The HPHA is partnering with MWH Partners, LLC under a master development agreement to redevelop the property with the goals of improving housing conditions for the existing residents as well as increasing the amount of affordable housing provided in this critical TOD neighborhood.

The proposed Project is considered a federal action and undertaking and is, therefore, required to comply with the National Environmental Policy Act ("NEPA"), and the National Historic Preservation Act of 1966, as amended ("NHPA"), and other federal requirements ("Federal Requirements"). The Project Team is in the process of drafting an Environmental Assessment Determinations and Compliance Finding for HUD-assisted Projects as required pursuant to 24 CFR Part 58.36 and completing a NHPA Section 106 in accordance with implementing regulations at 36 CFR Part 800.

Preparation of an Environmental Impact Statement (EIS) is also required pursuant to Chapter 343, Hawai'i Revised Statutes and Chapter 200, Title 11, State of Hawai'i Department of Health Administrative Rules ("State EIS"). Section 343-5, HRS identifies nine types of actions that "trigger" compliance, which require either an Environmental Assessment or an EIS. The use of State or County funds and/or lands is one of these

"triggers." HPHA determined that an EIS (rather than an Environmental Assessment) was necessary based on a review of the significance criteria set forth under Section 11-200-12(b), HAR.

A State EIS for the Project was prepared by PBR Hawaii & Associates, Inc. and was preceded by the Mayor Wright Homes Redevelopment Environmental Impact Statement Preparation Notice ("EISPN"). HPHA submitted the EISPN to the State of Hawai'i Office of Environmental Quality Control ("OEQC") on September 13, 2016. Notice of the availability of the EISPN was published in the September 23, 2016 edition of the OEQC's Environmental Notice, and was also posted on the OEQC website. Copies of the EISPN were provided to various government agencies, elected officials, utilities, regional public libraries, media outlets, and other individuals and community organizations. The public comment period for the EISPN began on September 23, 2016 and ended on October 24, 2016. Comments received during the public comment period on the EISPN and the respective responses were incorporated in a Draft EIS.

HPHA submitted the Draft EIS to OEQC on August 28, 2017 and Notice of the availability of the Draft EIS was published in the September 8, 2017 edition of OEQC's The Environmental Notice. Copies of the Draft EIS were provided to appropriate government agencies, (including DPP, DTS, OP, DAGS, DLNR, HFD, DOE, HPD, DHS, etc.) as well as elected officials, utilities, regional public libraries, media outlets, and other individuals and community organizations. The official 45-day public comment period on the Draft EIS began on September 8, 2017 and ended on October 23, 2017. Comments to the Draft EIS received during the public comment period and responses to the comments were incorporated into a final EIS ("FEIS")

The information contained in the FEIS was developed from site visits, generally available information regarding the characteristics of the proposed Project site and surrounding areas, information and input gathered during the master planning process, and technical studies prepared for the Project. The following is a list of the technical reports and studies prepared for the Project and attached as appendices to the FEIS.

- Biological Resources Survey
- Archaeological Inventory Survey
- Identification of Historic Properties Reconnaissance-Level Survey
- Cultural Impact Assessment
- Socio-Economic Impact Assessment
- Noise and Vibration Study
- Air Quality Study
- Preliminary Engineering Report
- Transportation Impact Analysis Report
- Phase I Environmental Site Assessment
- Human Capital Report
- Housing Market Study

HPHA's Board of Directors accepted/approved the FEIS and On February 15, 2018, authorizing HPHA's Executive Director to submit the State FEIS to the Governor's office for review and approval as the Accepting Authority for as required under Section 11-200-23, Hawai'i Administrative Rules (HAR). This submission was completed on Monday February 26, 2018.

The Governor accepted the State FEIS on April 24, 2018[2].

Project Overview

Named for George F. Wright, the seventh mayor of Honolulu, Mayor Wright Homes is a federally funded low-income housing project that is owned and operated by the HPHA. The property is located at North Kukui Street on the island of O'ahu in the State of Hawai'i and consists of a single 14.8-acre land parcel identified as TMK: 1-7-029:003. The property site is bound by four existing roadways: North King Street, Pua Lane, North Vineyard Boulevard, and Liliha Street. It is improved with 35 two-story and three-story walk-up buildings containing a total of 364 low-income rental units providing housing for approximately 1,500 residents. The property is currently subject to a Declaration of Trust with the U.S. Department of Housing and Urban Development ("HUD") and has been used for public housing since its construction in 1953. Although the property was recently upgraded in 1984, the existing units are functionally obsolete and have outlasted their useful life.

The HPHA is the proposing Agency for the Project. HPHA is a public body and a body corporate and politic of the State of Hawai'i established by the Territory of Hawai'i in 1935. HPHA's primary mission is to provide safe, decent, and sanitary housing for low-income residents of the State of Hawai'i. HPHA is governed by the Hawai'i State Legislature under Chapter 356D, Hawai'i Revised Statutes (HRS) and is the sole statewide public housing agency in the State of Hawai'i. Guided by an eleven-member Board of Directors appointed by the Governor, HPHA's efforts are focused on developing affordable rental and supportive housing, public housing and the efficient and fair delivery of housing services to the people of Hawai'i without discrimination. HPHA's Federal and State Low-Income Public Housing and rental assistance programs currently serve over 10,000 families, totaling more than 27,000 individuals.

The proposed master development plan for the Mayor Wright Homes redevelopment has evolved with extensive input from residents, community leaders and stakeholders, elected officials, government agencies, school officials, and service providers who participated in a series of community meetings held over several months starting in May 2016 and culminated in a week-long charrette held onsite in August 2016. It builds on research gathered on the property's historical, physical, social, and geographic context and

[2] Consultation to meet State of Hawai'i requirements for historic architectural resources is being carried out concurrently between the HPHA and the State Historic Preservation Division ("SHPD") under Chapter 6E of the Hawaii Revised Statutes.

technical information provided by consultants performing various site analyses. The proposed Project would involve the demolition of the existing buildings on the Site and redevelopment of the Site with residential uses including the Replacement Units, affordable and market rate units and non-residential uses. The proposed Project would also, include community facilities and commercial amenities, integrated into an overall mixed-use, mixed-income master development plan.

In addition to the minimum one-for-one replacement of the existing 364 public housing units currently available at the property, HPHA and its partner, MWH Partners, LLC, also propose to deliver up to 2,084 additional affordable and market rental housing units that can be offered to potential residents in a range of income levels. Approximately two-thirds of the total proposed units would be designated as long-term affordable housing targeted to residents earning up to 120 percent of the Area Median Income (AMI). In addition, up to 80,000 square feet of commercial space is also proposed as part of the Project which will include a mix of retail, office space, and community services to support the new residential units and complement the surrounding neighborhood. A series of open spaces are envisioned throughout the re-designed site including a new community center and park.

The redevelopment of Mayor Wright Homes is envisioned as a catalytic project with the potential to transform an existing, obsolete, state-owned land asset, into a new, mixed-income, mixed-use, transit oriented development designed to complement the existing vibrant Kalihi, Liliha, Kapālama, and Iwilei communities. While providing vastly improved housing conditions for its current residents, the proposed Project will also deliver desperately needed new rental housing units within Downtown Honolulu's Primary Urban Center. The property is well located nearby existing employment centers, easily accessible by public transit, and within walking distance of the future Iwilei rail station of the Honolulu Light Rail System currently being developed by The Honolulu Authority for Rapid Transportation.

Project Need and Positive Impacts

The State of Hawai'i and City and County of Honolulu are currently experiencing a housing crisis. Due to an increasingly high demand for housing, coupled with a decades-low new housing supply, limited land, and high production costs, Honolulu consistently ranks among the most expensive residential rental markets in the nation. As housing costs in Hawai'i continue to increase, the number of available affordable apartments continues to decline leaving low to moderate-income households with limited housing options. Consequently, many of these households are forced to relocate greater distances from their place of work in urban Honolulu, resulting in secondary impacts such as lengthening commute times, exacerbating traffic congestion, increasing pollution, social and environmental impacts associated with traffic congestion and a decreasing quality of life for commuters. In a worst-case scenario, many of these residents may be displaced altogether.

On June 29, 2016, SB2561, SD2, HD1, CD1, was signed into law as Act 127 (the ACT), Session Laws of Hawai'i (SLH), to address the affordable rental housing crisis by establishing an affordable rental housing goal, and a Special Action Team on affordable rental housing (SAT). The SAT is chaired by the Director of the State Office of Planning (OP) and its mission is to recommend actions to promote affordable rental housing. The primary goal of the ACT is to develop or vest the development of at least 22,500 affordable rental housing units, ready for occupancy, between January 1, 2017 and December 31, 2026.

According to the "Special Action Team on Affordable Rental Housing Report to the Hawai'i State Legislature in Response to Act 127, Session Laws of Hawai'i 2016" (State of Hawaii Office of Planning, 2016):

> *Housing is considered "affordable" when a household spends less than 30 percent of their income on shelter and utilities. But affordable housing is a serious challenge for Hawai'i's low-income residents, who face one of the highest housing cost in the country. In a market with some of the most expensive for-sale homes in the county, 43% of the state's households must rent. This is even more difficult for Hawai'i's residents as rent increases, but wages have not kept pace. There is a sense of urgency in developing needed rental housing units, particularly for households in the rental housing "gap" group (i.e., those earning between 60% and 80% of the area median income (AMI)). The need for affordable housing is particularly acute for households with low incomes.*

The proposed Project specifically responds to this urgent need for affordable rental housing and is an excellent candidate for redevelopment for the following reasons:

(i) The proposed Project is ideally located in the Honolulu's Primary Urban Center, close to existing employment centers, infrastructure, and transportation networks, which is highly consistent with the City and County of Honolulu's General Plan.

(ii) The Honolulu City Council recently adopted the Downtown Neighborhood TOD Plan on September 6, 2017 as City Council Resolution No. 16-247, CD1, FD1 permitting building heights up to 400 feet and a FAR up to 7.5 for the proposed Project site.

(iii) The overall intensification of land uses within the Kalihi-Kapālama-Iwilei corridor is a major goal of the City of Honolulu's long-range vision and general development pattern goals which emphasize the need for the existing urban core around Honolulu to remain O'ahu's primary urban center.

(iv) The proposed Project will reduce the pressure to develop in more rural areas that may be more adversely impacted by a project of similar scale and which may not have sufficient infrastructure, utilities, or access to transportation networks.

(v) The proposed Project is well serviced by O'ahu's existing bus transit system. It is also located less than a third-of-a-mile from the planned Iwilei Transit Station of the Honolulu Light Rail Transit Project and has been designed with thoughtful consideration to equitable Transit Oriented Development (TOD) design principles and may contribute to reductions in impacts such as traffic and related fuel consumption and air pollution.

(vi) The conceptual master plan for the proposed Project has been designed in accordance with City and County of Honolulu Complete Streets Ordinance (Section 14-33, ROH) and envisions incorporating retail and commercial uses at street level of the new buildings, complimenting existing area uses, and providing necessary services for area residents.

(vii) The proposed Project is expected to result in a reinvigorated community with well-connected thoroughfares together with interconnected and activated streets that will encourage walking and biking, which in turn support community safety.

(viii) The proposed Project incorporates well designed recreational spaces combined with green building and sustainability concepts that will contribute to improved individual health, wellbeing, quality of life and sense of connectedness for existing and future residents.

(ix) The proposed Project represents the efficient use of public resources by leveraging both private and public funding to redevelop an existing urbanized site.

(x) The proposed Project attempts to balance the potential impacts of intensification of use onsite with the social and environmental considerations of creating a high-quality, comfortable, and inviting community to live, work, and play with the potential for far-reaching transformative positive community impacts well beyond the boundaries of the project site.

Section 106 Consultation

Working with the SHPD, the Development Team has already identified several organizations with an interest in the Project and its potential to affect historic properties. The Development Team has conducted several rounds of outreach for public participation in the project Project to date. The majority of this previous outreach has focused on archaeological and cultural historic properties, as summarized here; notification of additional architectural historic properties that may be affected is also included in this summary.

An Architectural Area of Potential Effect ("APE") was determined through early consultation with the State Historic Preservation Division ("SHPD"), in accordance with ("NHPA") and Section 106 Regulations. The Architectural APE measures approximately 100 acres of land surrounding the Site and encompasses portions of TMKs: (1) 1-5-005;

1-5-006; 1-5-007; 1-5-017; 1-6-001; 1-7-023; 1-7-026; 1-7-027; 1-7-029; 1-7-031; 1-7-032; 1-7-033; and 1-7:045. The large survey boundary surrounding the Site was designed to include all architectural properties that could be affected by the redevelopment Project in the absence of a final design. In a letter dated June 20, 2017, SHPD concurred with the survey strategy for historic resources and requested a subsequent Reconnaissance Level Survey (RLS) for architectural resources within the approved Architectural APE, see Tab 3.

Section 106 consultation review of the site's archaeological and cultural resources was performed by TCP Hawaii, LLC ("TCP"). It also references an Archaeological APE, which is equivalent to the 14.8-acre Project area, and is identified within the Archaeological Inventory Survey (AIS).

Attached to this summary are the following materials to provide context concerning the proposed Project Site, its history, and consultation concerning the undertaking engaged to date.

Tab 1- Tax Map Key (TMK) map, site location map with photographs, and a map illustrating the Architectural Area of Potential Effect (APE)

Tab 2 - Site Photos
Tab 3 - Correspondence and Meeting Minutes
Tab 4 - Consultation List

Historical, Cultural, and Archaeological Background

A Cultural Impact Assessment ("CIA") together with an AIS, were prepared for the proposed Project by TCP in accordance with the Hawai'i Administrative Rules (HAR) 13-276 in 2017. Final revisions to the AIS report were submitted in 2018. No prior archaeological or cultural studies of the Archaeological APE had been completed prior to these studies, which yielded meaningful historical, cultural and archaeological background information about the Site.

The earliest documentary evidence of Hawaiians describing the Archaeological APE and its immediate environs, from the middle nineteenth-century Land Commission Awards, consistently refers to their lands as being in the 'āina of Honolulu (also known traditionally as Kou). It is likely, however, that the original inhabitants of O'ahu—prior to the invasions by Kahekili (Maui) starting in the late eighteenth century, and later by Kamehameha (Hawai'i Island)—would have referred to the Archaeological APE as Nu'uanu Ahupua'a, given its location in the flood plain of this stream. The earliest (1817) map by Otto von Kotzebue showing the Project area in some detail depicts the Project area as a dense cluster of lo'i kalo (irrigated taro) gardens. An 1855 map showing Honolulu harbor and environs by J.M.H. de La Passe shows the Archaeological APE as a dense cluster of lo'i kalo with scattered house sites here and there. Several fishponds—including Kuwila and Kawa—are located along the shoreline. By this (middle nineteenth-century) time, the

main town of Honolulu was still on the other (east) side of Nu'uanu Stream (in what would eventually become Chinatown). La Passe's (1855) map does show an old alignment of King Street passing just south of the Archaeological APE by this time. Liliha Street, bounding the Archaeological APE to the east, was described in the 1850s and 1860s as having lo'i terraces and pond fields in some places along its length.

Land Commission documents from the 1850s include at least five named 'ili in the Archaeological APE: Kapahaha, Kahawali (sometimes Kahawale), Koiuiu (at least once called "Koiuiu, Leleo"), Hauhaukoi, and Keoneula. Among the names of Hawaiians who were awarded parcels in the Archaeological APE, there is one Julia (or Juliana) Alapa'i Kauwa (or Kauwa'a), an ali'i nui (high chiefess), sometimes referred to as Princess and as konohiki by some claimants in the Archaeological APE (she married to the famous John Young, and died in 1849). Land uses described in these documents always refer to lo'i kalo with several house sites and occasional mentions of 'auwai (traditional irrigation ditch).

Later maps from the 1880s and 1890s show a large residence estate of Queen Lili'uokalani in the western corner of the Archaeological APE, which was at this time a kind of "suburban" Honolulu. The Queen's residence, which was named Mu'olaulani ("innumerable royal buds"), was an important center of activity for those resisting the U.S. takeover of Hawai'i (including Robert Wilcox). By the turn of the twentieth century, the Queen's former residence was used as a Japanese hotel (1901), then subdivided in 1906 into a series of "tenements" (rental apartments). A remnant portion of the original structure of Lili'uokalani's residence survived until the early 1950s (as depicted on a Sanborn fire insurance map), but was eventually demolished by 1953 to make way for the present Mayor Wright Homes.

Maps from 1906 and 1914 show a large soy factory (Hawaiian Soy Co., Ltd.) along Pua Lane, a small church (Palama Christian Church, in 1906, which had become an auto painting operation by 1914), laundries, a Japanese hotel, and small "factories" (to make candy and mattresses) along Liliha, and horse stables. A 1927 fire insurance map shows that residential structures (tenements) took over nearly the entire Archaeological APE with a few commercial operations remaining along Liliha and Pua Lane. A dance hall replaced the previous location of the auto painting structure, and a Filipino Missions and Social Club appeared in the corner parcel—just outside the Project area, at the intersection of Liliha and Vineyard. A 1947 map shows significant razing (demolition and removal) of structures throughout much of the Archaeological APE occurred, presumably as a precursor to the impending construction of Mayor Wright Homes.

In the late 1990s, the University of Hawai'i-Mānoa's Center for Oral History completed approximately 30 interviews with people who once lived or worked at Pālama Settlement. Many of those interviewed had specific knowledge of life and times at Mayor Wright Homes from as early as the 1960s. These recollections, along with interviews conducted for the CIA by TCP, paint a picture of Mayor Wright Homes as a place where people worked and lived together as a community, through good times and hard times, even though they were not necessarily well-to-do in a material sense. Most people looked back

to the 1970s and 1980s as the "golden era" of Mayor Wright Homes, where funding and programs to help people, particularly by including them in the neighboring Pālama Settlement activities.

Summary of Archaeological Sites within the Archaeological APE

An Archaeological Inventory Survey report by TCP was submitted to the State Historic Preservation Division on March 30, 2017. In a letter dated July 19, 2017 (Log No.: 2017.00597, Doc. No.: 1707KM03), the SHPD-Archaeology Branch reviewed the document for content and requested minor revisions. The revised report was submitted in May 23, 2018. Twenty-four (24) backhoe-assisted trenches were excavated, according to an SHPD-approved trenching plan. Four (4) historic properties were identified: SIHP # 50-80-14-8033, exposed in nearly all of the trenches (21 of 24), is a Project area wide grading/bulldozing and pit-filling (dumping) event that occurred just prior to, and in preparation for, the construction of the Mayor Wright Homes residential complex (circa 1952-3). Site 8034, exposed in several trenches in the mauka (inland) portion of the Project area (Trench #s 6, 7, 10, 15 & 17), is a subsurface layer consisting of gray clay interpreted as pond sediments, most likely the remnants of traditional Hawaiian lo'i kalo (irrigated, pond-field, taro cultivation).

Site 8035 consists of asphalt and/or concrete surfaces (exposed in Trench #11 [Feature 1] and Trench #12 [Feature 2], respectively) dating from the late historic/early modern period. Site 8036 is a set of very large drainage pipes (exposed in Trench #21) also dating from the late historic/early modern period. All four (4) identified historic properties are recommended significant per HAR § 13-13-275-6 under criterion d for their intrinsic informational value to research on the history and prehistory of Honolulu, its urbanization, and the advent of public housing in the State of Hawai'i, but all four (4) have also been determined to be not eligible for the National Register of Historic Places (NRHP). Under HRS § 6E, the TCP AIS Report recommended that the subject AIS had adequately identified historic properties within the open areas of the project area/direct APE based on all available archival information and archaeological testing.

Based on these same data, TCP concluded that there is a moderate likelihood of encountering additional historic properties, similar to the ones already documented in the AIS, under some of the current (extant) buildings. For these reasons, under HRS § 6E, TCP recommend the project effect determination (HAR § 13-13-275-7) would be "effect, with proposed mitigation commitments," and we recommend the proposed mitigation is data recovery in the form of archaeological monitoring in accordance with HAR § 13-13-279. In this way, additional data may be obtained from the four (4) identified historic properties in the open areas of the project area/direct APE, and, if present, from beneath the current (extant) buildings during demolition and construction. Under Section 106 (36 CFR Part 800.5), because the four (4) sites have been determined to be not eligible for the NRHP, the effect determination is "no historic properties affected."

Summary of Historic Architectural Properties within the Architectural APE

In 2017 and in accordance with the Hawai'i Administrative Rules (HAR) 13-275, Fung Associates, Inc. conducted an architectural Reconnaissance Level Survey ("RLS") of all properties within the Architectural APE built prior to 1977 Don Hibbard, Alison Chiu, and Anna Broverman of Fung Associates, Inc. completed the pedestrian field survey and prepared the RLS forms. Hibbard, Chiu and Broverman each meet the Secretary of the Interior's (SOI) Qualification Standards for architectural historians, per 36 CFR 61.

Properties constructed between 1967 and 1977 were included in the RLS due to the anticipated length of the Project, and the objective of the RLS was to ascertain whether any possible historic properties were located in the Architectural APE. Some properties that are not yet historic, but are anticipated to be eligible once they meet the 50-year requirement, were also included in the RLS. The Mayor Wright Homes site, itself, was identified as eligible for listing on a historic register under Criterion A for its association with the development of public housing in Hawai'i.

Of the 161 properties examined and included in the RLS only two are presently listed in either the Hawaii or National Registers of Historic Places. Forty-seven properties appear to meet the criteria for listing in the Hawaii and National Registers for their associations with the architectural traditions of Hawaii; of these properties, 6 are already identified in the Statewide Inventory of Historic Places (SIHP). An additional 13 properties were determined potentially eligible once they meet the 50-year age requirement. The other 83 properties do not appear to meet the criteria for listing in either historic register because their historic integrity has been compromised. There are 4 properties that were determined ineligible as individual properties, but they are eligible as contributing features to a historic district. Unknown determinations were given to 13 properties not visible from public right of ways.

Two possible historic districts were identified within the Architectural APE: 1) a potential historic district comprised of small scale, commercial properties along Liliha Street, from the mid-century era, and 2) a potential historic district comprised of the Kauluwela Redevelopment Area, which reflects design and construction efforts of the Honolulu Redevelopment Agency (HRA) spanning the 1960s and 1970s period.

The SHPD accepted the findings of the RLS on August 25, 2017, see Tab 3.

Completed Consultations for Archaeological and Cultural Resources

The Development Team previously initiated limited consultation during the development of the CIA, with TCP writing a letter to SHPD regarding the Project in May 2016, and participation in several rounds of public meetings and outreach for the proposed Project including resident and community meetings, area Neighborhood Board meetings, and a week-long conceptual design charrette at the Site. In addition, the Development Team has met with various stakeholders including area legislators and councilmembers,

businesses, schools, churches, public agencies, and service providers to discuss their suggestions and concerns regarding the proposed Project.

Architectural pre-consultation to satisfy State Historic Preservation Division requirements (HRS 6E-8) for the Project was initiated early in the process of evaluating architectural alternatives. The Development Team met with SHPD-Architecture branch staff along with staff from Historic Hawai'i Foundation, to discuss the nature of the existing structure and the considered alternatives for rehabilitation or replacement. Notes from this January 25, 2017 meeting are enclosed, see Tab 3.

As a part of CIA consultation, from the end of May to early June, 2016, TCP sent formal Section 106 and Chapter 6E consultation letters to the following agencies and individuals:

1. SHPD/DLNR (Administrator Downer, Archaeology Branch Chief Susan Lebo, O'ahu Burial Site Program staff Regina Hilo, and Ka'āhiki Solis);
2. OHA (Ka Pouhana/CEO Crabbe and staff in Compliance, Kai Markell and Lauren Morawski);
3. Kalihi-Palama Neighborhood Board (Chair Ryan Mandado);
4. Kalihi-Palama Hawaiian Civic Club (Pelekikena/President Leimomi Khan);
5. Cynthia Yoshida (Public Housing Supervisor, Mayor Wright Homes);
6. Historic Hawai'i Foundation (Kiersten Faulkner, Executive Director);
7. Ka'anohi Paulette Kaleikini (Native Hawaiian, cultural descendant, Honolulu area);
8. Michael Lee (Native Hawaiian, cultural descendant, Honolulu area).

Representatives of TCP and MWH Partners, LLC provided the O'ahu Island Burial Council with an informational presentation about the proposed CIA in June 2016, .

Ka'anohi Kaleikini and TCP exchanged emails in May-June, 2016, regarding her consultation input. Her primary input was to bring attention to the nearby, recent AIS at the American Savings Bank property where burials were identified; and to raise the issue of possibly including cultural monitoring on the AIS.

OHA replied in writing on June 28, 2016, to the formal consultation letter. TCP also communicated informally by phone in June 2016, with OHA Compliance staff, Kai Markell and Lauren Morawski, to notify them about the proposed AIS.

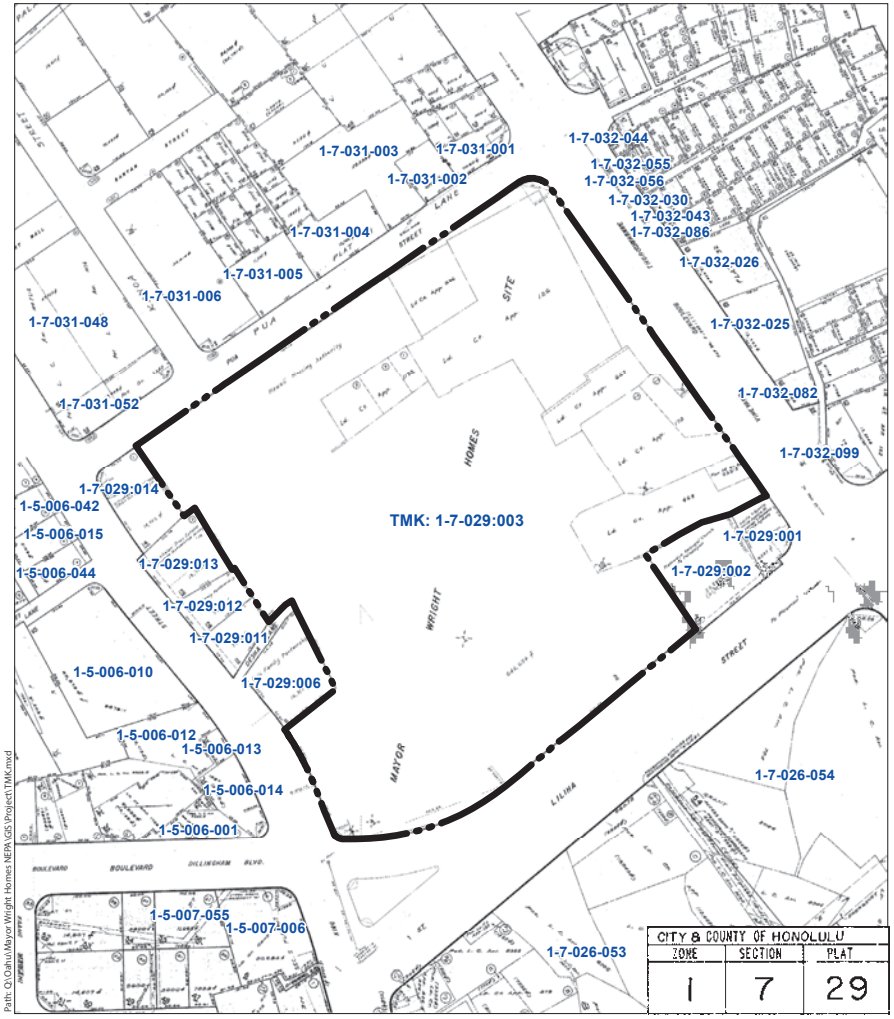
TCP met formally with Dr. Susan Lebo, in June 2016, about the proposed AIS who suggested TCP reach out to SHPD staff, Ka'āhiki Solis, History and Culture Branch, regarding information about the Site, and, specifically, the proposed CIA. TCP contacted Ka'āhiki Solis via email on June 3, 2016, and again in September 2016.

From the end of May to early June 2016, TCP sent Section 106 and HRS 6E-8 consultation letters regarding the (then) proposed Archaeological Inventory Survey to the following agencies and individuals:

1. SHPD/DLNR - Administrator Downer, Archaeology Branch Chief Susan Lebo, O'ahu Burial Site Program staff Regina Hilo, and Ka'āhiki Solis;
2. Office of Hawaiian Affairs ("OHA") - Ka Pouhana/CEO Crabbe and staff in Compliance, Kai Markell and Lauren Morawski;
3. Kalihi-Palama Neighborhood Board -Chair Ryan Mandado;
4. Kalihi-Palama Hawaiian Civic Club -Pelekikena/President Leimomi Khan;
5. Cynthia Yoshida -Public Housing Supervisor, Mayor Wright Homes;
6. Historic Hawai'i Foundation - Kiersten Faulkner, Executive Director;
7. Ka'anohi Paulette Kaleikini -Native Hawaiian, cultural descendant, Honolulu area; and
8. Michael Lee - Native Hawaiian, cultural descendant, Honolulu area.

Section 106 Next Steps – Resolving Adverse Effects

Based on its collective analysis, site observations, consultation with the SHPD and ongoing consultation with community groups, the proposed Project will ultimately result in a determination of "adverse effect" pursuant to Section 106 Regulations (36 CFR Part 800.5) for historic architectural properties, since the proposed Project will involve demolition of the existing buildings on the Site, which themselves have been identified as an eligible for listing on a historic register. HPHA and the Development team will continue to consult with the SHPD and other Consulting Parties to seek ways to avoid, minimize or mitigate the adverse effects historic architectural resources and, if required, the HPHA, the SHPO, and consulting parties may execute a memorandum of agreement ("MOA") defining such mitigation commitments.



Path: Q:\Oahu\Mayor Wright Homes NEPA\GIS\Project\TMK.mxd

LEGEND

Project Site

Figure 1
Tax Map Key
MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet): 0 50 100 200

PBR HAWAII & ASSOCIATES, INC.

Source: City and County of Honolulu, 1997.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.

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LEGEND

Project Site

TMK Parcels

Roads

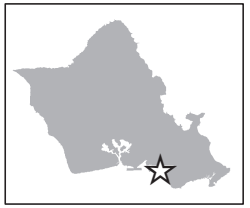


Figure 2
Site Location and Photographs
MWH Redevelopment

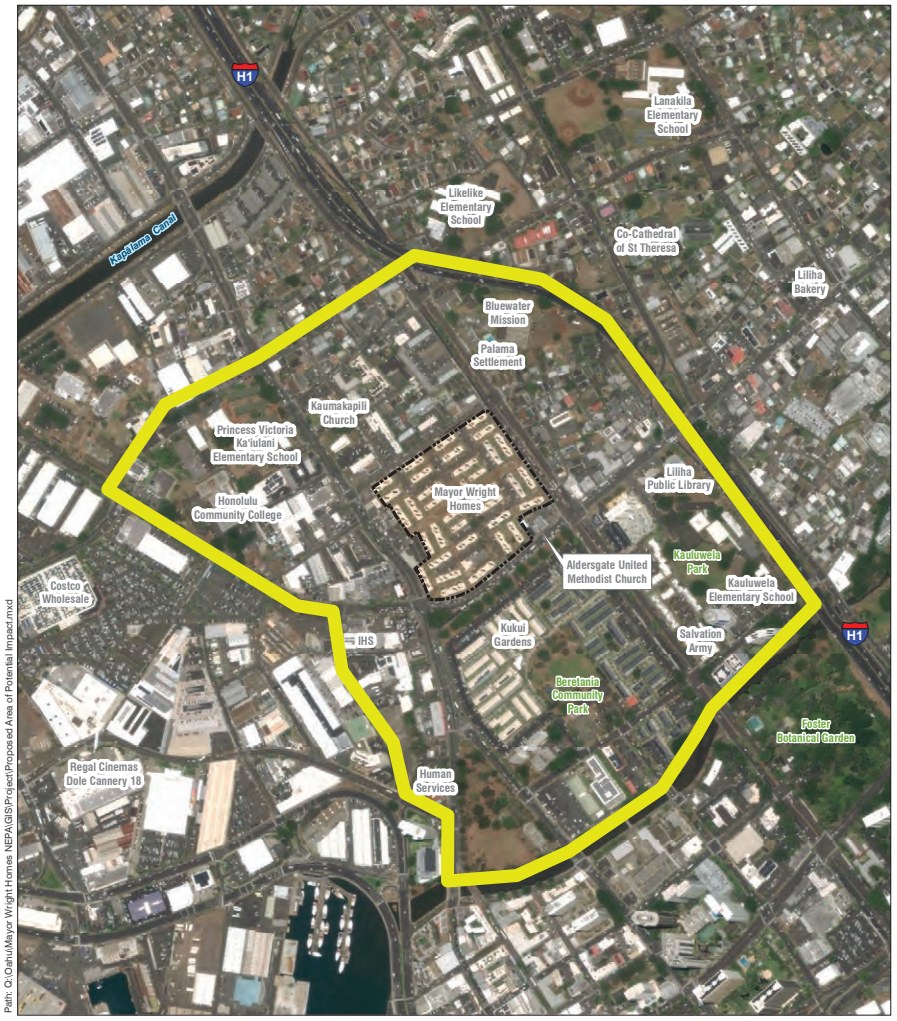
Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet): 0 75 150 300

PBR HAWAII & ASSOCIATES, INC.

Source: City and County of Honolulu, 2015. Pictometry, 2013.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.



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LEGEND

Proposed Area of Potential Effect

Mayor Wright Homes

Figure 3
Architectural
Area of Potential Effect
MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)
0 350 700

PBR HAWAII & ASSOCIATES, INC.

Source: Geographic Information System (GIS), ESRI World Street Map, 2016.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.

DAVID Y. IGE
GOVERNOR OF HAWAII

SUZANNE D. CASE
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

KEKOA KALUHIWA
FIRST DEPUTY

JEFFREY T. PEARSON
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE HISTORIC PRESERVATION DIVISION
KAKUHIHEWA BUILDING
601 KAMOKILA BLVD, STE 555
KAPOLEI, HAWAII 96707

June 20, 2017

IN REPLY REFER TO:
LOG: 2017.01289 &
2017.00472
DOC: 1706JLP23
Architecture

Hakim Ouansafi
Executive Director
Department of Human Services
Hawaii Public Housing Authority
1002 North School Street
P.O. Box 17907
Honolulu, HI 96817

Dear Mr. Ouansafi:

RE: National Historic Preservation Act Section 106 Cultural Resources Management Consultation and Hawaii Revised Statutes Chapter 6E-8 Historic Preservation Review
Agency: Department of Human Services, Hawaii Public Housing Authority (DHS)
Mayor Wright Homes Redevelopment
TMK: (1)1-7-029:003

Thank you for the opportunity to comment on this request from Hawaii Public Housing Authority, Department of Humans Services (DHS) for consultation and concurrence with the proposed area of potential effect (APE) for the proposed Mayor Wright Homes Redevelopment project. DHS has identified that this project is subject to historic preservation review, pursuant to Hawaii Revised Statutes (HRS) Chapter 6E-8. The proposed project may also be an undertaking, as defined at 36 § CFR 800. DHS anticipates project funds will include Part 58 funds for low-income public housing. The State Historic Preservation Division (SHPD) received this submittal on May 25, 2017.

The proposed APE includes the area within the general boundaries of Austin Lane to the north, Lunalilo Freeway to the east, River Street to the south, and Dillingham Boulevard and Iwilei Road to the west. This boundary includes the physical footprint of the TMK parcel for Mayer Wright Housing, as well as several notable and historic adjacent community resources. SHPD has reviewed and **concurs** with the above cited APE. SHPD looks forward to reviewing the subsequent Archaeological Inventory Survey and Reconnaissance Level Survey for architectural resources within the APE during future consultation.

As this is early coordination, and not enough information on the proposed undertaking is available at this time, it is premature for the SHPO to provide complete and meaningful comment as to the eligibility and effects the proposed project may have on historic properties within the APE, as outlined in HRS Chapter 6E-8 and Section 106 of the National Historic Preservation Act. As plans are developed, a HRS Chapter 6E-8 and Section 106 request for concurrence must be submitted to the SHPO to formalize consultation. The Section 106 regulations specify what is required for a Section 106 review [36 CFR § 800.11]. **Please reference our LOG number and DOC number in all communication with this office regarding this undertaking.**

DHS is the office of record for this undertaking. Please maintain a copy of this letter with your environmental review record. If you have any questions about this undertaking or if there is a change to the scope of work, please contact Jessica Puff, Architectural Historian, at (808) 692-8023 or by email at jessica.l.puff@hawaii.gov.

Sincerely,

Dr. Alan S. Downer
Deputy State Historic Preservation Officer
Administrator, State Historic Preservation Division

CC: Alison Chiu, Fung Associates, alison@funghawaii.com
Chris Monahan, TCP Hawaii, LLC, mookahan@gmail.com

FUNG ASSOCIATES INC.

architecture ■ preservation ■ planning ■ interiors

MEETING MINUTES
FINAL (REVISED)
By: Alison Chiu
Date: 2/13/2017

Project:	Mayor Wright Housing Redevelopment Project
Meeting Date:	January 25, 2017
Time:	3:00 pm
Location:	FAI Conference Room
Attendees:	See attached sign-in sheet

I. Eligibility
   a. A report on public housing prepared by Mason Architects for Helber Hastert & Fee (April 2006) identified Mayor Wright Housing (MWH) site not eligible for listing to state/federal registers due to lack of integrity.
   b. However, a letter from SHPD indicated they consider MWH site eligible for listing under Criterion A for its association with the history of public housing
      i. Alison's comment: Letter (attached to these minutes) dated 3/6/2014, L2014.00533, D1402GC13, identified MWH as a significant historic site; clarification – eligibility for listing under Criterion A was identified in an email between SHPD and FAI 5/27/2016.

II. Project Team
   a. Property ownership – HPHA
   b. Master Developer – Hunt, with the possibility of long term lease and management.
   c. PBR Hawaii, Inc. – Planning consultants
   d. Fung Associates, Inc. – Historic consultants
   e. TCP Hawaii, LLC – Archaeology consultants
   f. SHPD – State agency and consulting party
   g. Historic Hawaii Foundation – Consulting party and community stakeholder
   h. Citizens Advisory Committee

III. Project Funding
   a. Project funding to include Part 58 low-interest funds for low-income public housing; no federal funds are currently being used in the planning phase.

IV. Project Overview / Current Status
   a. Project requirements
      i. 1-1 Replacement of 364 existing units,
      ii. Mixed-use, mixed-income,
      iii. Planning for 2,500 units
         1. Approximately 70% affordable

1833 Kalakaua Avenue, Suite 1008 ■ Honolulu, Hawaii 96815 USA ■ Tel: (808) 941-3000 ■ Fax: (808) 941-0900 ■ Email: projects@funghawaii.com

2. 30% work force
3. 40K-80K SF Mixed-use/Commercial; includes Community + Social Services space

iv. Projected to be all rentals at project completion.
v. Approximately 15 acre site

b. Project EIS
   i. EISPN prepared by PBR Hawaii, September 2016 is available publicly.
c. Master Plan
   i. Master Plan in progress. A new site plan was shared with meeting attendees, showing the general framework of proposed development, which will be located next to a planned transit station.
   ii. Anticipated 5 phase project with approximately 2500 units to be developed over ~10 years; there are currently 364 existing units. Anticipated street frontage low-rise to be in keeping with neighborhood feel, with 4 towers on site up to 400' high – massing and exact configuration TBD.
      1. HHF and SHPD expressed concern about the magnitude of increased density, and note that the visual effect may result in a larger area of potential effect (APE) beyond the project site itself.
      2. Property setbacks and proposed green space were discussed.
         a. SHPD suggests existing setbacks at neighborhood historic properties should be considered so the new design will be compatible with existing fabric, or will transition appropriately. How will people experience the perimeter visually or while moving through these spaces? Consider how these transitions will occur also in relation to nearby existing buildings, such as the United Methodist Church immediately adjacent.
         b. HHF noted the row of monkey pod trees located on the Kukui Gardens street frontage are a character-defining feature of the neighborhood, and suggested these be mirrored on the proposed development / existing MWH side.
      3. New designs should be compatible and creative – this can occur in a variety of ways, such as through window patterns, volumes, and massing that are in keeping with the scale and patterns seen throughout the neighborhood, without creating a false historicity to the new design.
      4. Avoid creating "slums of the future."
   iii. Commercial space: 40,000 to 80,000 SF with possible grocery store as an anchor.
      1. Commercial space also to include service-related providers, such as social and health services, and flexible space for community programs.
   iv. Note: Bill 28 exempts higher towers in transit oriented development areas; TOD plan for this area still requires approval.
   v. Currently, the team is focused on community outreach phase.

V. State Level: HRS Chapter 6E
   a. Review Process
      i. SHPD will complete 6E reviews with each submittal.
      ii. Related: Consider additional triggers, such as EPA, traffic patterns, etc.
   b. Identification of Historic Properties

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   i. HHF suggested a beneficial next step is to identify additional historic properties in the area that may be affected and to identify the potential effects.
   c. Potential Mitigation
      i. HHF recommended any agreed upon mitigation should be appropriate to the history of public housing.
      ii. Mitigation options include, but are not limited to:
         1. Oral histories to tell individual stories,
         2. Off-site mitigation – perhaps working with Palama Settlement, and
         3. Creative interpretations showing a historic perspective.

VI. Federal Level: Section 106
   a. EIS Report / NEPA
      i. Projected Report Completion: end of 2017
      ii. Projected Phase 1 Start: late 2018?
      iii. Section 106 language addressing future federal funding should be integrated into EIS report so the PA/MOA can be developed in parallel. Public comments regarding the EIS can and should then be included as pre-consultation for Section 106.
      iv. Even though this master plan portion is not HUD funded, team will be able to move forward on Section 106 with HPHA as the designated consultation authority.
      v. A "human capital" study has been done and should be added to the EIS report. This can help with future site and historic programming, which can be studied even beyond construction of MWH to its associations with Hawaiian royalty; however, it is necessary to not lose sight of the current people living there; their stories are rarely told and are important as well.
      vi. HHF recommended an ACHP resource document integrating NEPA and Section 106, which can be found at the following link: http://www.achp.gov/docs/NEPA_NHPA_Section_106_Handbook_Mar2013.pdf.
   b. PA/MOA will require a more complete master plan.
   c. Signatories for the PA/MOA should include:
      i. HUD, if they decide to participate,
      ii. HPHA,
      iii. Hunt (invited), and
      iv. Additional agencies as identified during this process.
   d. Stipulations:
      i. Since pre-consultation is being completed through Hunt, a stipulation of the PA/MOA should include appropriate transfer-with-obligations language to ensure the obligations agreed upon at this time will be carried out in the future.
      ii. Since elements of federal involvement are yet to be determined, a stipulation should address involvement of new agencies when identified.

VII. Next Steps:
   a. Agency involvement in pre-consultation process (HPHA).
   b. Confirm HUD involvement (PBR?).
   c. Provide letter to SHPD initiating 6E consultation, indicating existing APE; note that APE may change once indirect effects upon historic properties are fully considered (HPHA, PBR, and FAI).

1833 Kalakaua Avenue, Suite 1008 ■ Honolulu, Hawaii 96815 USA ■ Tel: (808) 941-3000 ■ Fax: (808) 941-0900 ■ Email: projects@funghawaii.com

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SIGN IN SHEET

Project: Mayor Wright Housing Redevelopment Project

Meeting Date: January 25, 2017

Time: 3:00 PM

Location: FAI Conference Room

Attendees:

NAME	COMPANY	PHONE	EMAIL
Jessica Puff	State Historic Preservation Division	(808) 692-8026	Jessica.L.Puff@hawaii.gov
Kiersten Faulkner KF	Historic Hawaii Foundation	(808) 523-2900	Kiersten@historichawaii.org
Thomas Lee via phone	Hunt Development Group	(808) 585-7900	Thomas.Lee@HuntCcompanies.com
Kimi Yuen	PBR Hawaii, Inc.	(808) 521-5631	kyuen@pbrhawaii.com
Nathalie Razo sick	PBR Hawaii, Inc.	(808) 521-5631	nrazo@pbrhawaii.com
Tonia Moy tm	Fung Associates, Inc.	(808) 941-3000	tonia@funghawaii.com
Alison Chiu Ac	Fung Associates, Inc.	(808) 941-3000	Alison@funghawaii.com

1833 Kalakaua Avenue Suite 1008 ■ Honolulu, Hawaii 96815 USA ■ Tel (808) 941-3000 ■ Fax (808) 941-0900 ■ Email projects@funghawaii.com

NEIL ABERCROMBIE
GOVERNOR OF HAWAII

WILLIAM J. AILA, JR.
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BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

ESTHER KIA'AINA
FIRST DEPUTY

WILLIAM M. TAM
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

HISTORIC PRESERVATION DIVISION
DEPARTMENT OF LAND AND NATURAL RESOURCES

601 Kamokila Boulevard, Suite 555
Kapolei, HI 96806

March 6, 2014

Russell Y. Tsuji, Land Administrator
Department of Land and Natural Resources
Land Division
P.O. Box 621
Honolulu, HI 96809

LOG NO: 2014.00533
DOC NO: 1402GC13
Archaeology, Architecture

Dear Mr. Tsuji:

SUBJECT: **Chapter 6E-42 Historic Preservation Review –**
Pre-Consultation for an Environmental Assessment
Kalihi-Palama Health Center
Honolulu Ahupua'a, (Kona) District, Island of O'ahu
TMK: (1) 1-7-031:052

Thank you for initiating early consultation for developing an Environmental Assessment (EA) for the proposed new Kalihi-Palama Health Center within the Honolulu Judicial District. We received this request on February 12, 2014. The applicant, Kalihi-Palama Health Center, proposes to redevelop the project site which measures approximately 12,409 square feet in area. The proposed redevelopment includes construction of a new building atop the existing parking lot and renovating the existing commercial building in a subsequent phase. The submittal letter indicates the ED will focus on the second phase of the project which involves construction atop the existing parking lot.

Our records indicate the Kalihi-Palama Health Center site is surrounded by a significant amount of architectural historic properties including Mayor Wright Housing, Kaumakapili Church and, the New Palama (later Zamboanga) Theater. However, the construction of the new health center will not harm the integrity of these historic buildings. Our records also indicate that no archaeological inventory survey has been conducted, and that no archaeological historic properties have been identified within the subject property. However archaeological studies in the area have documented human burials within 500-600 m of the subject property. Dunn et al (1991) identified two burials (SIHP 50-80-14-3373) about 80 cm (30 inches) below the surface during archaeological monitoring at the corner of N. King and Robello Lane. It is believed these two burials may be related to the Keone'ula area cemetery for smallpox victims. Hammatt (1995) identified an in situ burial pit (SIHP 50-80-14-4929) during a Board of Water Supply project within Austin Lane. In addition, research indicates a former cemetery associated with Kaumakapili Church existed on TMK: (1) 1-5-005:015 and 038.

Based on the above, we have insufficient information for making a determination that no archaeological historic properties will be affected by the proposed project, which may involve subsurface excavation for utilities. **We request more information** on the scope of all project activities in order to assess potential effects on historic properties.

Please contact Anna Broverman at (808) 692-8023 or at Anna.E.Broverman@hawaii.gov for any questions regarding architectural resources. Please contact me at (808) 692-8019 or at Susan.A.Lebo@hawaii.gov if you have any questions regarding archaeological resources or this letter.

Aloha,

Susan A. Lebo

Susan A. Lebo, PhD
Oahu Lead Archaeologist

Mayor Wright Homes
Redevelopment Master Plan

June 2017

Credits

City and County of Honolulu

Mayor's Office
Hon. Kirk Caldwell

City Council District 7
Councilmember Joey Manahan

Honolulu Police Department District 5
Sergeant Caesar Piros

Honolulu Fire Department
Chief James Skellington

Honolulu Department of Planning and Permitting

Honolulu Department of Facility Maintenance

Honolulu Department of Transportation Services

Honolulu Board of Water Supply

State Legislature

Senate District 13
Sen. Suzanne Chun Oakland

Senate District 16
Sen. Breene Harimoto

House District 18
Rep. Mark Hashem

House District 29
Rep. Karl Rhoads

Hawaii State Department of Transportation

Hawaii State Department of Education

Hawai'i Public Housing Authority

Hakim Ouansafi
Barbara Arashiro

Other Agencies & Entities

Kalihi-Palama Health Center

Palama Settlement

Kalihi-Palama Business Association

Hawaii Literacy

Indigo Real Estate Services, INC.

Development and Master Planning Team

Hunt Development Group LLC
Master Developer
Robin Vaughn
Steve Colón
Thomas Lee
Ronald Roberts
Emily Davids

Vitus Group, Inc
Makani Maeva

Moss & Associates, LLC
Construction Management
Doug Rogers
Jonathan Kam

PBR HAWAII & Associates, Inc.
Lead Consultant
Grant Murakami
Kimi Yuen
Ramsay Taum
Nathalie Razo
Brian Wolf
Scott Murakami
Micah McMillan

Torti Gallas + Partners, Inc.
Master Plan Lead
Neal I. Payton
Martin Leitner
Rogelio Huerta
Christopher Jonick
Timothy Nash
Chaiwat Pilanun

Design Partners Inc.
Architect
Mike Muromoto
Keith Sawamura
Lena Tamashiro

Concordia, LLC
Community Asset Mapping
Steven Bingler
Bobbie Provosty Hill
Connor McManus

Fehr & Peers
Transportation & Traffic
Sohrab Rashid
Dale Domingo

RM Towill Corporation
Civil Engineer
Kevin Mendes

Credits

Community Advisory Committee

Earl Fusato, *Palama Settlement*
Kyle Ishizaka, *Kalihi YMCA*
Leimomi Khan, *Kalihi-Palama Hawaiian Civic Club*
Major John Chamness, *Salvation Army*
Major Lani Chamness, *Salvation Army*
Suzanne Skjold, *Hawaii Literacy*
Jill Puletasi, *Ka'iulani Elementary School*
Kelly Bart, *Likelike Elementary School*
Anne-Marie Murphy, *Central Middle School*
Ron Okamura, *McKinley High School*
Al Carganilla, *Farrington High School*
Bob Nakata, *FACE Hawaii*
David Gierlach, *St. Elizabeth's Episcopal Church*
Erika Lacro, *Kalihi Palama Business Association*
Emmanuel Kintu, *Kalihi Palama Health Center*
Cyrus Tamashiro, *Tamashiro Market*
Robert Faleafine, *Realty Laua*
Tina Tauasosi, *Community Partnership & Research Specialist*
David Hirano, *Kaumakapili United Church of Christ*
Sherman Thompson, *Kaumakapili United Church of Christ*
Kona Mann, *Kaumakapili United Church of Christ*
Melvin Spencer, *Kaumakapili United Church of Christ*
Emmanuel M. Cruz, *Aldersgate United Methodist Church*
Rev. Gregorio Honorio, Jr., *Co-Cathedral of Saint Theresa*
Etuati M. Lafaele, *Hawaii First Samoan Assembly of God*
Calvin Rivera, *resident*
Donna Rosa, *resident*
Phyllis Fallao, *resident*
Hilda Urita, *resident*
Gloria Castro, *resident*
Deriah K. Aana, *resident*
Andrew Nakoa, *resident*
Berenice Nakoa, *resident*

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Community-Based Vision

Mayor Wright Homes and the surrounding Kalihi neighborhood are poised for a comprehensive approach to transformation, where HPHA and Hunt Development, local leaders, residents, schools, police, firefighters, business owners and nonprofits can all join together to create and implement a community-centered plan that can simultaneously address all of the site's robust challenges and opportunities.

A strong alignment of all community resources can build critical human capital, improve social, organizational, educational, cultural and economic benefits, and generally improve the quality of life for all community stakeholders. And although each of these resources is most often viewed as a separate and distinct asset, it is often the interactions between all of them that can most effectively and efficiently improve the health and well-being for both individuals and the whole community system.

By far, the most important assets and resources at Mayor Wright Homes are the people who live there. In initial conversations with local residents we found an encouraging combination of strong will and personal passion among the residents who participated. Expanding the resident participation and aligning their passions with productive outcomes present some important opportunities to reinforce and greatly expand on an historical "aloha" spirit.

Our Community-Based Vision for Mayor Wright Homes was a collaborative effort with various forums for community involvement, from interim community meetings and the establishment of a Community Advisory Committee (CAC) to a weeklong *charrette* held onsite. The input and insights gained through this community-centric process informed the draft Master Plan.

We have held several resident and community meetings, attended and reported at area neighborhood board meetings, and held a week-long conceptual design *charrette* onsite at MWH. In addition, the project team has reached out to area legislators and councilmembers, businesses, schools, churches, and service providers and encouraged them to participate throughout the planning process.

The groups listed many suggestions especially for improving security within MWH and throughout the neighborhood. These ranged from tangible, physical improvements like better lighting and security cameras to social events and programming that encourages community building, with one group noting that "knowing your neighbors makes it a safer place." Several groups made notes that currently "nothing" contributes to safety at MWH and that the "minimal" security presence is "ineffective."

The Project Team Meets with Residents Off-Site

The project team held meetings on and off-site to encourage participation; the meeting above was held at Palama Settlement.

The Project Team Meets with Residents Onsite

The project team held a workshop for Mayor Wright Homes residents onsite.

To this end we have attempted to identify some initial projects and programs that could promote early wins between the Hunt design/development/construction team, HPHA and the current resident population. The most pressing of these is a plan for temporary relocation of residents during the construction phase of the work.

Community and Resident Meetings

As part of the community-outreach effort, meetings with the Mayor Wright Homes residents and community members were held at different points in the process to keep the residents informed and solicit feedback on the progress being made. These community engagement events were held on May 5th and 24th, 2016; June 28th, 2016; and July 20th and 28th, 2016 on and off-site.

Activities at the community meetings ranged from presentations and discussions, identifying areas for focus and group map exercises, to children's drawings and notecards for feedback. The results of these activities were compiled after each meeting and presented back to the groups in order to confirm the information was heard correctly. Then, this information was used to develop the program and goals of the project.

Community Advisory Committee

The Community Advisory Committee (CAC) is a voluntary advisory group that assists in the promotion and dissemination of public information, provides feedback to the planning team, and helps guide the process. The CAC were sought out to addressed the varying needs, aspirations, and concerns of the area's diverse constituencies; residents, business owners, and local organizations and officials to build community support. Members of the 20+ person CAC include residents, business owners, DOE school principals, faith-based organizations, and social service providers.

The members of the CAC help spread the word about upcoming meetings and assure that we are reaching all segments of the community. Their main focus has been to provide input from the perspective of the community they represent, not just their personal interests.

5-Day Public Charrette at Mayor Wright Homes

On-Site Public Charrette
Meetings and preliminary design took place in a tent at the center of the Mayor Wright Homes site.

Stakeholder Meetings
The design team met with public and private stakeholders to better understand site opportunities.

Listening and Learning
Residents and the community provided valuable insight for the transformation of the site.

Interim Presentation
The team presented to the community three times: at the opening, mid-week and closing of the charrette.

Design Work On-Site
The design team's charrette work area was open to the public.

Discussing Concepts
During pin-ups attendees could review, ask questions, and comment on the conceptual designs.

Social Gathering Place
The charrette tent quickly became a meeting place for conversations among residents and visitors.

One-on-One Conversations
The team was available for one-on-one conversations with anyone who attended the charrette.

Young Residents
The youngest residents could always be found in and around the charrette tent.

***Charrette* and Stakeholder Meetings**
The goal of the five-day *charrette*, held from August 8-12, 2016 was to come up with a redevelopment plan for Mayor Wright Homes, and to engage the residents and community at-large in the design process. Informal drop-ins from current residents allowed the design team to hear many of the residents' concerns ranging from safety to displacement and enabled the team to address those issues directly.

Ongoing presentations and group activities throughout the week provided invaluable interaction between the design team and the participants which is ultimately reflected in the draft Master Plan.

Concurrently, community stakeholders met with the development team in roundtable discussions to learn and speak about their respective interests for the greater success of the community. From policemen, firemen, school administrators and social service providers to cultural affair agencies, city planning officials, regulatory bodies and elected officials, these stakeholder meetings enhanced the plan's viability and scope to incorporate broader community goals.

2016					
Monday, Aug 8th	Tuesday, Aug 9th		Wednesday, Aug 10th	Thursday, Aug 11th	Friday, Aug 12th
	8AM - 12PM Design Team Works in Tent Open to residents & the public	9AM - 12PM Stakeholder Interviews 45 minute meeting time slots	6AM - 12PM Design Team Works in Tent Open to residents & the public	8AM - 12PM Design Team Works in Tent Open to residents & the public	8AM - 12PM Design Team Works in Tent Open to residents & the public
9AM - 12PM Site & Neighborhood Tour Torti Gallas team tours MWH site and neighborhood			9AM - 12PM Stakeholder Interviews 45 minute meeting time slots		
12PM - 1PM Lunch	12PM - 1PM Lunch		12PM - 1PM Lunch	12PM - 1PM Lunch	12PM - 1PM Lunch
1PM - 5PM Set-up Charrette Space in Tent	1PM - 8PM Design Team Works in Tent Open to residents & the public	1PM - 5PM Stakeholder Interviews 45 minute meeting time slots	1PM - 5PM Design Team Works in Tent Open to residents & the public	1PM - 8PM Design Team Works in Tent Open to residents & the public	1PM - 5PM Design Team Works in Tent Open to residents & the public
1PM - 5PM Stakeholder Interviews 45 minute meeting time slots			1PM - 5PM Stakeholder Interviews 45 minute meeting time slots		
5PM - 6PM Prepare for Meeting			5PM - 6PM Prepare for Meeting		5PM - 6PM Prepare for Meeting
6PM - 8 PM Kick-off Presentation & Table Exercise			6PM - 8 PM Interim Public Presentation		6PM - 8 PM Interim Public Presentation

Charrette Schedule
The charrette took place over five days from as early as 6 am to as late as 8 pm.

Conceptual Site Plan Drawings

The design team tested numerous arrangements of streets, development blocks, and open spaces during the charrette. All of them have in common that they bring new streets into the site and create smaller development blocks.

Sketch Master Plan

This sketch master plan was developed during the 5-day charrette. It shows the site layout and connections to the rail station and other destinations in the neighborhood.

MAYOR WRIGHT HOUSING – LIST OF MEETINGS

NEIGHBORHOOD BOARD MEETINGS

- May 9, 2016 - Liliha/Puʻunui/ʻĀlewa/Kamehameha Heights Neighborhood Board #14 Meeting – Maʻemaʻe Elementary School Cafeteria, 7:00 p.m.
- May 18, 2016 - Kalihi-Pālama Neighborhood Board #15 Meeting – Kalihi Union Church, 7:00 p.m.
- June 13, 2016 - Liliha/Puʻunui/ʻĀlewa/Kamehameha Heights Neighborhood Board #14 Meeting– Maʻemaʻe Elementary School Cafeteria, 7:00 p.m.
- July 11, 2016 - Liliha/Puunui/ʻĀlewa/Kam Heights Neighborhood Board #14 Meeting - Maʻemaʻe Elementary School Cafeteria, 7:00 p.m.
- October 19, 2016 – Kalihi-Pālama Neighborhood Board #15 Meeting – Kalihi Union Church, 7:00 pm
- November 15, 2017 – Kalihi-Pālama Neighborhood Board #15 Meeting – Kalihi Union Church, 7:00 pm

STATE LEGISLATORS

- April 5, 2016 - Senator Suzanne Chun Oakland – District includes Liliha, Pālama, Iwilei, Kalihi, Nuʻuanu, Pacific Heights, Pauoa, Lower Tantalus, Downtown; Chair of the Senate Human Services Committee
- April 6, 2016 - Representative Mark Hashem, Chair of House Housing Committee
- April 6, 2016 - Senator Breene Harimoto, Chair of Senate Housing Committee
- April 18, 2016 - Representative Karl Rhoads, District 29 Representative (Kalihi, Pālama, Iwilei, Chinatown)

COUNCILMEMBERS

- April 19, 2016 - Joey Manahan, Council District 7 (Kalihi-Pālama, Kalihi-Kai, Iwilei, Mapunapuna, Salt Lake, Aliamanu, Hickam, Foster Village, and portions of Pearl Harbor, Aiea, Kalihi Valley, and Liliha)
- August 17, 2016 - Carol Fukunaga, Council District 6 (Portions of Makiki, Downtown Honolulu, Punchbowl, Pauao Valley, Nuuanu, Alewa Heights, Papakolea, Fort Shafter, Moanalua, Halawa, Aiea, Kalihi Valley, and portions of Liliha and Kalihi)

RESIDENTS

- May 6, 2016 at MWH (Kick-off Meeting)
- July 20, 2016 at MWH (repeat of Community Meeting #2, Concordia Workshop)

COMMUNITY ADVISORY COMMITTEE

- July 28, 2016 - Kick-off Meeting
- August 10, 2016 - Charrette Week Input
- June 15, 2017 - Master Plan Overview and Discussion

COMMUNITY

- May 24, 2016 at Pālama Settlement (Community Meeting #1, Kick-off Meeting)
- June 28, 2016 at Pālama Settlement (Community Meeting #2, Concordia Workshop)
- July 14, 2016 – Liliha Pālama Business Association
- August 8-12, 2016 at MWH (Community Meeting #3, Torti Gallas + Partners Charrette)
- June 20, 2017 at MWH (Community Meeting #4, Community Update Meeting)
- August 1, 2017 at Pālama Settlement (OEQC EIS Scoping Meeting)
- November 29, 2017 at Pālama Settlement (NEPA EIS Scoping Meeting)

STAKEHOLDER INTERVIEWS (CHARRETTE WEEK at MWH)

- August 8, 2016 - City and County of Honolulu, Department of Planning and Permitting
- August 8, 2016 - City and County of Honolulu, Board of Water Supply
- August 8, 2016 - City and County of Honolulu, Department of Transportation Services and Department of Facilities Management
- August 9, 2016 - Moss Construction
- August 9, 2016 - Indigo Property Management
- August 9, 2016 - Local Businesses through the Kalihi-Pālama Business Association
- August 10, 2016 - Legislators (Senator Harimoto, Senator Chun Oakland, Representative Rhoads, Councilmember Fukunaga, Councilmember Manahan)
- August 10, 2016 - Social Services (Hawaiʻi Literacy, Kalihi-Pālama Health Center, Pālama Settlement, Principal of McKinley High School, Salvation Army, State Office of Planning, Faith Action for Community Equity)
- August 10, 2016 - Safety Service Providers, City and County of Honolulu, Fire Department and Police Department
- August 10, 2016 - Department of Education, Facilities Department and Principal of Likelike Elementary School

Consulting Parties – Distribution in addition to NHO list

- Ms. Kiersten Faulkner, Executive Director
  Historic Hawaii Foundation
  680 Iwilei Road #690
  Honolulu, Hawaii 96817

- Mr. Winston Welch, Executive Director
  The Outdoor Circle
  1314 S. King Street #306
  Honolulu, Hawaii 96814

- Mr. Earl Fusato, Executive Director
  Palama Settlement
  810 N. Vineyard Boulevard
  Honolulu, Hawaii 96817

- Reverend Emmanuel Cruz, Pastor
  Aldersgate United Methodist Church
  1352 Liliha Street
  Honolulu, Hawaii 96817

- Chair Ryan Mandado
  Neighborhood Board No. 15
  1720 Kalani Street Apt 202
  Honolulu, HI 96819

- Chair Wesley Fong
  Neighborhood Board No. 14
  Neighborhood Commission Office
  925 Dillingham Boulevard, Suite 160
  Honolulu, Hawaii 96817

Native Hawaiian Organization Notification List

U.S. Department of the Interior

Maintained by the

Office of Native Hawaiian Relations

U.S. Department of the Interior
Office of Native Hawaiian Relations
www.doi.gov/hawaiian

Native Hawaiian Organization (NHO) Notification List

ʻAha Kāne

Established: May 2009

Foundation for the Advancement of Native Hawaiian Males

Summary: Focus, Native Hawaiian community - nurturing and perpetuating of traditional male roles and responsibilities that contribute to the physical, mental, spiritual and social well-being of Hawaiian males, their families and communities.

Originally Registered: 3/1/2013

Island: Oʻahu	**Moku:** All	**Ahupuaʻa:** All

Contact: Mr. G. Umi Kai
President
P.O. Box 31303
Honolulu, HI 96820-1303
(808) 840-5510

E-mail:
umikai@ahakane.org
Website:
www.ahakane.org

Aha Kukaniloko Koa Mana mea ola kanaka mauli

Established: Mar 2005

Those families connected to Kukaniloko Koa Mana the living human being imbued with the spirit of `I`o.

Summary: Perpetuation of our traditional Hawaiian comprehension of our family's inheritance "to guard the kapu of Kukaniloko because we love them for all time . . . ." as this relates to the 36,000 acres of Lihue, Wahiawa, Halemano . . . kalana Kukaniloko.

Originally Registered: 2/4/2014

Island: Oʻahu	**Moku:** Kalana Kukaniloko	**Ahupuaʻa:** Lihue, Wahiawa, Halemano

Contact: Mr. Thomas Joseph Lenchanko
931 Uakanikoo Street
Wahiawa, HI 96786
(808) 349-9949

E-mail:
tlenchanko1@hawaii.rr.com
Website:
None Listed

Aha Moku O Kahikinui

Established: 2007

Summary: Preserving all natural resources, including: land, water, rivers, coastline, ocean, burials, and air.

Originally Registered: 5/16/2012

Island: Maui	**Moku:** Kahikinui	**Ahupuaʻa:** Kahikinui

Contact: Ms. Donna D. Sterling
Aha Moku Representative
P.O. Box 700
Makawao, HI 96768
(808) 446-4171

E-mail:
dhelekunihi@yahoo.com
Website:
None Listed

Aha Moku o Maui Inc.

Established: 2011

Summary: Every moku on Maui has a representative, thus representing each of the 12 moku of Maui.

Originally Registered: 10/16/2012

Island: Maui	**Moku:** All	**Ahupuaʻa:** All

Contact: Mr. Keʻeaumoku Kapu
Chief Executive Officer
P.O. Box 11524
Lahaina, HI 96761
(808) 250-1479

E-mail:
kapukapuakea@gmail.com
Website:
http://www.ahamoku.org/index.php/maui-na-hono-ao-piilani/

Aha Wahine
Gathering of Women

Established: 2011

Summary: To promote and perpetuate traditional practices and beliefs for the advancement and benefit of Hawaiian women for total well being in health, mental and spirit.

Originally Registered: 5/30/2012

Island: Oʻahu and Hawaiʻi	**Moku:** Kona	**Ahupuaʻa:** All

Contact: Ms. Linda Kaleo Paik
98-070 Lokowai Street
Aiea, HI 96701
(808) 354-7765

E-mail: kaleopaik@yahoo.com
Website: None Listed

ʻAhahui Siwila Hawaiʻi O Kapōlei
Kapolei Hawaiian Civic Club

Established: 1993

Summary: We are committed to the protection and preservation of historical places, endangered native flora and fauna. The protection and repatriation of our kupuna iwi. The preservation of Hawaiian Cultural, Language, oli, na mele, and the health and well being of native Hawaiians.

Originally Registered: 7/29/2008

Island: Oʻahu	**Moku:** Ewa	**Ahupuaʻa:** Honouliuli

Contact: Ms. Rona Rodenhurst
President
P.O. Box 700007
Kapolei, HI 96709
(808) 681-5076

E-mail: kapoleihcc@gmail.com
Website: www.kapoleihcc.com

Ahupuaʻa o Molokaʻi

Established: 1990

Summary: Molokai; Preservation of our Natural Resources; Priority Water

Originally Registered: 10/8/2010

Island: Molokaʻi	**Moku:** All	**Ahupuaʻa:** All

Contact: Ms. Kammy Purdy
President
P.O. Box 159
Hoolehua, HI 96729
(808) 658-0444

E-mail: kammypurdy@ahupuaaomolokai.org
Website: www.ahupuaaomolokai.org

Aloha First

Established: Jun 1996

Summary: The mission of Aloha First can be summed up in one word, EDUCATION. Our primary goal is to stimulate and provide educational programs and projects which address the economic, social, cultural issues & needs consistent with this mission in order to cross-bridge differences within the various societies of the Hawaiian islands.

Originally Registered: 5/23/2011

Island: Oʻahu	**Moku:** Moku o Koʻolaupoko	**Ahupuaʻa:** Ahupuaʻa Waimanalo

Contact: Mr. Dennis Kanahele
CEO
P.O. Box 701
Waimanalo, HI 96795-0701
(808) 551-5056

E-mail: puuhonua13@gmail.com
Website: www.alohafirst.com

Association of Hawaiian Civic Clubs

AHCC

Established: 1959

Summary: To promote Native Hawaiian culture, language and traditions. To actively assert and defend the cultural, traditional knowledge, and intellectual property rights of the Native Hawaiian people, of Kupuna and cultural practitioners. To protect, respect, and promote the inherent rights of Native Hawaiian people that derive from our political, economic, and social structures and from our culture, spiritual traditions, histories, and philosophies, especially our rights/kuleana to our lands, territories, and resources.

Originally Registered: 5/15/2012

Island: All	**Moku:** All	**Ahupua'a:** All

Contact: Ms. Annelle Amaral
President
P.O. Box 1135
Honolulu, HI 96807

E-mail: acamaral@yahoo.com
Website: www.aohcc.org

Additional Contacts:

Ms. Jalna Keala
Government Relations Chair
E-mail: jalna.keala2@hawaiiantel.net

Corresponding Secretary
E-mail: AHCC.Nuhou@gmail.com

Association of Hawaiians for Homestead Lands

Established: 2010

Summary: We are interested and advocate for beneficiaries of the Hawaiian Homes Commission Act who are currently on the waitlist.

Originally Registered: 10/16/2012

Island: Statewide	**Moku:** All	**Ahupua'a:** All

Contact: Ms. Blossom Feiteira
President
2149 Lauwiliwili St., Ste. 200
Kapolei, HI 96707
(808) 446-5572

E-mail: info@ahhl.org
Website: www.ahhl.org

Au Puni O Hawaii

Established: 1992

Summary: As GUARDIANS of "The Hawaiian Homes Commission Act of 1920," our organization seeks to educate and raise our opios and makuas in the ways of cultural intelligence and historical "Hawaiian home lands" protocol. As beneficiaries, we would like to share our mana'o on preservation, restoration, INTERPRETATION, and shared dialogues with respect to our cultural land-based assets. Our mission is to perpetuate compact advocacy for our communities at large, and coordinate projects like providing aid and relief to the general public in regards to provisions, securities for all family units, and most of all the well-being of our na kupuna. We will work relentlessly for the betterment of the native Hawaiians as defined in the HHCA with our local County and State agencies, and the Federal Government with our primary goal to live "SPIRITUALLY FREE and ALOHA."

Originally Registered: 2/9/2012

Island: All Islands including the Northwestern Islands and the mainland	**Moku:** All	**Ahupua'a:** All

Contact: Mr. Samson L. Brown
President
21 Pohai Street
Hilo, HI 96720
(808) 315-2141

E-mail: apohi21@gmail.com
Website: Pending

Brian Kaniela Nae‘ole Naauao **Established:**

Summary: **Originally Registered:** 5/9/2012

Island: Maui / O‘ahu / Hawaii	**Moku:** He Moku / Kona / Waiohinu	**Ahupua‘a:** Kahikinui / Ili no Waikiki / Kau

Contact: Mr. Brian Kaniela Nae‘ole Naauao
477 South Kamehameha Avenue
Kahului, HI 96732
(808) 264-1231

E-mail: naeoleohana5@yahoo.com
Website: None Listed

Charles Pelenui Mahi Ohana **Established:**

Summary: The Honokoa Cave "Forbes Cave" records show that a Alii Mahi is buried there; artifacts taken by Bishop Museum, I want it put back and to seal the cave. **Originally Registered:** 10/8/2010

Island: Hawai‘i	**Moku:** Honokoa Cave	**Ahupua‘a:** Kawaihae, Honokoa Gulch

Contact: Ms. Maydean K. Bowman
Representative
P.O. Box 44692
Kawaihae, HI 96743
(808) 882-1486

E-mail: None Listed
Website: None Listed

Council for Native Hawaiian Advancement **Established:** 2001
CNHA

Summary: Our mission is to enhance the cultural, economic, political, and community development of Native Hawaiians and support the capacity of community-based organizations that contribute to the well-being of the Hawaiian Islands and its people. We achieve our mission through policy advocacy, community convening, leadership development, training and technical assistance, and linking resources and solutions to community challenges. **Originally Registered:** 2/6/2008 **Last Renewed:** 5/9/2013

Island: Statewide, plus mainland	**Moku:** All	**Ahupua‘a:** All

Contact: Mr. Napali Woode
Senior Vice President
2149 Lauwiliwili St., Ste. 200
Kapolei, HI 96707
(808) 596-8155

E-mail: info@hawaiiancouncil.org
Website: www.hawaiiancouncil.org

Friends of ‘Iolani Palace **Established:** 1966

Summary: We are interested in topics related to the Native American Graves Protection and Repatriation Act (NAGPRA). **Originally Registered:** 11/15/2007 **Last Renewed:** 10/16/2012

Island: Statewide, plus mainland	**Moku:** All	**Ahupua‘a:** All

Contact: Mr. Kippen de Alba Chu
Executive Director
P.O. Box 2259
Honolulu, HI 96804-2259
(808) 522-0822

E-mail: info@iolanipalace.org
Website: www.iolanipalace.org

Friends of Moku‘ula, Inc.

Established: 1995

Summary: The purpose and mission of the Friends of Moku‘ula, Inc. is to educate the Hawaiian and non-Hawaiian community on the significance of historical sites in a non-exploitive environment; to initiate the process of restoring, protecting and preserving historically significant sites including the Hawaiian island ad pond at Lahaina known as Moku‘ula and Mokuhinia and; to create diverse economic opportunities through historic preservation. We endeavor to incorporate in our work the Hawaiian values of aloha, malama, mahele, ‘ike papalua, ho‘omana and ho‘okipa.

Originally Registered: 10/27/2008

Island: Maui	**Moku:** Lahaina	**Ahupua‘a:** Waine‘e

Contact: Ms. Blossom Feiteira
Executive Director
505 Front Street, Suite 221
Lahaina, HI 96761
(808) 661-3659

E-mail:
blossom@mokuula.com
Website:
www.mokuula.com

George K. Cypher ‘Ohana

Established: Pre-Contact

Summary: Preserving our lineal and cultural ties to Kāne‘ohe, Kahalu‘u, and He‘eia, and preserving the ‘āina and ocean resources.

Originally Registered: 12/28/2010

Island: O‘ahu, Maui, Hawai‘i	**Moku:** Ko‘olaupoko; Hāna; Hilo	**Ahupua‘a:** Kāne‘ohe, He‘eia, Kahalu‘u

Contact: Ms. Mahealani Cypher
Descendant
c/o Denise DeCosta, 45-342 Lilipuna Road #308
Kaneohe, HI 96744
(808) 226-4195

E-mail:
jhd6@hawaii.edu
Website:
None listed

God's Country Waimanalo

Established: 2005

Summary: Ho‘oulu a me Ho‘ola La Hui; Perpetuation of all things Hawaiian - our language, history, culture, and the arts, through education, economic, and interactive activities.

Originally Registered: 10/8/2010

Island: O‘ahu	**Moku:** Ko‘olaupoko	**Ahupua‘a:** Waimanalo

Contact: Ms. Ilima Ho-Lastimosa
Executive Director
P.O. Box 723
Waimanalo, HI 96795
(808) 499-5055

E-mail:
godscountrywaimanalo@gmail.com
Website:
http://godscountrywaimanalo.weebly.com

Hau‘ouiwi Homestead Association on Lāna‘i

Established: 1994

Summary: Culture, homestead, history.

Originally Registered: 10/8/2010

Island: Lāna‘i	**Moku:** Lāna‘i	**Ahupua‘a:** All

Contact: Ms. Winifred Basques
Director
P.O. Box 630521
Lāna‘i City, HI 96743
(808) 565-6871

E-mail:
winniebjr@yahoo.com
Website:
None Listed

Hawaiian Civic Club of Hilo

Established:

Summary: Our primary areas of concern are ALL MATTERS THAT IMPACT the island of Hawai‘i, and ALL MATTERS THAT MAY IMPACT the Native Hawaiian population here in Hawai‘i, or across the continental United States and Alaska. We also have special concerns about matters that MAY IMPACT Maunakea mountain and the astronomy projects atop the mountain.

Originally Registered: 10/10/2007

Last Renewed: 10/16/2012

Island: Statewide, plus mainland	**Moku:** All	**Ahupua‘a:** All

Contact: Ms. Antoinette K. Mallow
Pelekikena
P.O. Box 592
Hilo, HI 96721
(808) 895-5139

E-mail:
mallow@hawaii.edu

Website:
None Listed

Hawaiian Civic Club of Wahiawa

Established: 1960

Summary: HCCW Mission Statement: To inspire, educate, and encourage all things Hawaiian - seen and unseen. We protect, preserve, and perpetuate our ‘āina (families of the land), iwikupuna (ancestral bones), mo‘olelo (traditional comprehension), and na ‘opio (youth - future generations). As stewards of Kukaniloko, one of the most sacred sites in all the Hawai‘i islands, we are responsible for the maintenance and care of Kukaniloko Birthstones State Monument and site interpretation of the 36,000 acres of Kalana Kukaniloko.

Originally Registered: 2/20/2014

Island: O‘ahu	**Moku:** Kalana Kukaniloko	**Ahupua‘a:** Lihue, Wahiawa, Halemano

Contact: Ms. Maria "Malia" Doo
President
95-524 Wehewehe Loop
Mililani, HI 96789
(808) 625-7551

E-mail:
None Listed – see Additional Contacts

Website:
None Listed

Additional Contacts:

Mr. Thomas J. Lenchanko
Vice-President

E-mail:

Jo-Lin Lenchanko Kalimapau
Treasurer

E-mail:
kalimapau@hotmail.com

Hawaiian Community Assets, Inc.

Established: Aug 2000

Summary: We are interested in housing, financial, and lending services and affordable housing and business development for and by Hawaiian Home Lands beneficiaries with a particular focus on helping said beneficiaries with realizing the mission of the Hawaiian Homes Commission Act.

Originally Registered: 11/1/2013

Island: Statewide	**Moku:** All	**Ahupua'a:** All

Contact: Mr. Jeff Gilbreath
Executive Director
200 N. Vineyard Blvd., #A300
Honolulu, HI 96817
(808) 587-7886

E-mail:
info@hawaiiancommunity.net
Website:
www.hawaiiancommunity.net

Ho Ohana

Established:

Summary: We are a Hawaiian Chinese family from Waimanalo Homestead since 1945.

Originally Registered: 10/8/2010

Island: O'ahu	**Moku:** Ko'olaupoko	**Ahupua'a:** Waimanalo

Contact: Ms. Ilima Ho-Lastimosa
4th Generation
41-727 Ala Koa Street
Waimanalo, HI 96795
(808) 259-7598

E-mail:
None Listed
Website:
None Listed

Ho'okano Family Land Trust

Established: 1994

Summary: Preservation and protection of family kuleana parcels; watershed protection for lo'i, kalo; protection and preservation for 'ohana cemetery.

Originally Registered: 12/6/2011

Island: O'ahu	**Moku:** Ko'olaupoko	**Ahupua'a:** Kahalu'u

Contact: Ms. Dawn N.S. Chang
Chair
c/o Pauahi Tower, Suite 2750
1003 Bishop Street
Honolulu, HI 96813
(808) 539-3583

E-mail:
dnschang@kuiwalu.com
Website:
None Listed

Hui Huliau Inc.

Established: Jan 2011

Hui is defined as a group or organization. Huliau is defined as a turning point in time where we are rooted in the past, influenced by our present and creating stories for the future.

Summary: Hui Huliau's mission is to strengthen our communities and make a positive impact on the lives we touch, and provide a brighter future for the Native Hawaiian people through education, economic opportunities and the preservation of the Hawaiian language and culture.

Originally Registered: 2/10/2012

Last Renewed: 7/24/2017

Island: All Hawaiian Islands	**Moku:** Wai'anae/All	**Ahupua'a:** All

Contact: Mr. Adrian Nakea Silva
Chairman
P.O. Box 587
Waianae, HI 96792
(808) 216-4241

E-mail:
admin@huihuliau.com
Website:
www.huihuliau.com

Hui Kaleleiki Ohana
Kaleleiki Family Organization

Established: 2005

Summary: Our mission is the restoration and preservation of our ohana kuleana lands and our iwi kupuna in perpetuity. Our history is that we are lineal descendants of a kuleana awardee of the Great Mahele, whose lineage was authenticated in 2007. Our vision is to educate, assist, and advocate for the Native Hawaiian community, especially lineal descendants of awardees of a Palapala Sila Nui, issued by the Board of Commissioners to Quiet Land Titles beginning in 1845, on matters relevant to today.

Originally Registered: 3/21/2013

Island: Oʻahu	**Moku:** Koʻolaupoko	**Ahupuaʻa:** Kailua

Contact: Ms. Jaynie I. Stone
Ka Mea Mookuauhau
1091 Lunaanela Street
Kailua, HI 96734
(808) 381-7544

E-mail: jayniestone@gmail.com
Website: None Listed

Hui Mālama Ola Nā ʻŌiwi
Native Hawaiian Health Care System

Established: May 1991

Summary: We provide services to enhance the quality of life and to address health disparities, especially obesity, hypertension, diabetes, cancer, and heart disease. Our vision is a healthy community of Native Hawaiians and their ʻohana where everyone achieves their full potential physically, mentally, and spiritually. We provide disease prevention & health promotion services through advocacy, accessibility, and education. We offer Outreach Services, referrals, health education classes, and transportation to medical services.

Originally Registered: 9/18/2014

Island: Hawaiʻi	**Moku:**	**Ahupuaʻa:**

Contact: Ms. Michelle Malia Hiraishi
Executive Director
69 Railroad Ave, Ste A-3
Hilo, HI 96720
(808) 969-9220

E-mail: michelle@huimalamahawaii.com
Website: www.huimalamaolanaoiwi.org

Imua Hawaii

Established: August 2014

Summary: We are committed to a more empowered future for our people by exercising our inherent right to self-governance and to efforts related to recognition to expand our collective ability to promote the general well-geing of the Native Hawaiian people; implement culture-based programming to help our people; advance Native Hawaiian self-determination; enact laws that protect and advance culture and practices; among other critical goals for our people.

Originally Registered: 10/21/2015

Island:	**Moku:**	**Ahupuaʻa:**

Contact: Ms. Kealii Lopez
President
P.O. Box 1811
Honolulu, HI 96805

E-mail: imuahawaiinow@gmail.com
Website: www.imuahawaii.org

Kaha I Ka Panoa Kaleponi Hawaiian Civic Club
The Breath of Life in the California Desert

Established: Apr 2010

Summary: Living on the continent gives us very little access to issues at home. However, our concerns lean to those museums, libraries, etc. that continue to house artifacts that need to be returned to our kulaiwi (native land), We continually work to preserve the cultural traditions of our kupuna (elders) ub iur language, music, and moʻokuʻauhau genealogy.

Originally Registered: 5/20/2014

Island: Continental U.S.	**Moku:** Continental U.S.	**Ahupuaʻa:** N/A

Contact: Ms. Sharon K. Paulo
President
P.O. Box 9817
Moreno Valley, CA 92552
(951) 575-5772

E-mail: kuuipofrom2ndroad@ymail.com
Website: None Listed

Kākoʻo ʻŌiwi

Established: 2007

Summary: We are interested in preserving and perpetuating the history, heritage and culture of Native Hawaiians through sustainable agriculture, environmental restoration, food security, and maintaining cultural practices and ocean resources.

Originally Registered: 12/28/2010

Island: Oʻahu	**Moku:** Koʻolaupoko	**Ahupuaʻa:** Heʻeia

Contact: Mr. Kanekoa Kukea-Shultz
Executive Director
46-005 Kawa Street #104
Kaneohe, HI 96744
(808) 741-3403

E-mail: kanekoaks@gmail.com
Website: www.kakooiwi.org

Kalaeloa Heritage and Legacy Foundation

Established: Jan 2010

Summary: Through partnership, planning, advocacy, and stewardship, Kalaeloa Heritage and Legacy Foundation accepts the kulena to preserve and protect our Kupuna, historical sites and moolelo of Kalaeloa. We are also committed to assuring that cultural traditions and practices of Na ʻoiwi o Kalaeloa are perpetuated to maintain an authentic presence in the Kalaeloa area.

Originally Registered: 7/12/2012

Island: Oʻahu	**Moku:** Ewa	**Ahupuaʻa:** Honouliuli

Contact: Ms. Melissa M. Lyman
President
P.O. Box 700012
Kapolei, HI 96709
(808) 291-0842

E-mail: info@khlfoundation.org
Website: www.khlfoundation.org

Kalamaʻula Homesteaders Association

Established: 1961

Summary: We were established to: challenge and inspire youth who live on homestead land to achieve their full potential by providing support and opportunities for advancement in education; promote better health for our Kalamaʻula community and homesteaders outside of Kalamaʻula through education; and preserve and protect Hawaiʻi's natural environment, including Kiowea Park in Kalamaʻula in particular, through the stewardship of our lands consistent with Hawaiian culture, values, and traditional methods of resource management.

Originally Registered: 10/14/2008

Island: Molokaʻi	**Moku:** Ahupuaʻa o Molokaʻi	**Ahupuaʻa:** Kalamaʻula

Contact: Ms. Gayla M. Haliniak-Lloyd
President
P.O. Box 1025
Kaunakakai, HI 96748
(808) 646-0080

E-mail: kalamaula@live.com
Website: None Listed

Kalihi Palama Hawaiian Civic Club

Established: Nov 1969

Summary: Strong advocate for improved welfare of Native Hawaiians in culture, health, economic development, education, housing, social welfare, nationhood, supporting and defending Native Hawaiian rights, i.e., water rights, gathering rights, land rights, aliʻi trusts; perpetuating and preserving language, history, music, dance, and other cultural traditions.

Originally Registered: 11/1/2013

Island: Oʻahu	**Moku:** Oʻahu	**Ahupuaʻa:** Kalihi-Palama

Contact: Ms. Leimomi Khan
President
c/o 1288 Kapiolani Boulevard, Unit 1905
Honolulu, HI 96814
(808) 372-0630

E-mail: mkhan@hawaiiantel.net
Website: None Listed

Kamealoha

Established:

Summary: We are interested in preserving and protecting everything affiliated to our Hawaiian culture.

Originally Registered: 5/2/2011

Island: O‘ahu	**Moku:** Waianae, Wahiawa	**Ahupua‘a:** Waianae, Wahiawa

Contact: Mr. Thomas Kamealoha
Cultural Monitor
84-1035 Kaulaili Road #A
Waianae, HI 96795
(808) 692-3153

E-mail:
aliikane82@gmail.com
Website:
None listed

Kamehameha Schools - Community Relations and Communications Group, Government Relations

Established: 1887

Summary: Kamehameha Schools is a dynamic and nurturing learning community committed to educational excellence. We assist people of Hawaiian ancestry to achieve their highest potential by contributing to their development as people who are: grounded in spiritual and Christian values; intellectually, emotionally, and socially self-reliant; resourceful, resilient, life-long learners; skilled to succeed in their endeavors; responsible, ethical, contributing community members, and ready to perpetuate Hawaiian values and traditions of Ke Ali‘i Pauahi.

Originally Registered: 10/16/2012

Island: Statewide and the continental United States	**Moku:** All	**Ahupua‘a:** All

Contact: Ms. Piilani Hanohano
Government Relations Coordinator
567 South King Street, Suite 400
Honolulu, HI 96813
(808) 523-6368

E-mail:
pihanoha@ksbe.edu
Website:
www.ksbe.edu

Kamiloloa One Ali‘i Homestead Association

Established: 1992

Summary: Right now I am in partnership in restoring two fish ponds. My partners are Ka Honua Momona. At the fishponds, we hope to put up a Hawaiian hut made from mangrove and palms, doing a Hawaiian garden too; will be having classes on Hawaiian culture.

Originally Registered: 7/28/2008

Island: Moloka‘i	**Moku:** Moloka‘i	**Ahupua‘a:** Moloka‘i

Contact: Ms. Vivian L. Ainoa
President
P.O. Box1349
Kaunakakai, HI 96748
(808) 553-5186

E-mail:
vaniainoa@yahoo.com
Website:
None Listed

Kanu o ka ‘Āina Learning ‘Ohana
KALO

Established: 2000

Summary: Advancement of education of and about Hawaiian people; advancement of culture and tradition of Hawaiian people; training for people for the purpose of improving or developing capabilities of Hawaiian matters; literary program to encourage indigenous oppressions and analysis of recordings of indigenous history; protecting and preserving a healthful environment, relief of the the under privileged Hawaiian person; development of global awareness and knowledge about other cultures with a special emphasis on indigenous concerns and networking via telecommunications.

Originally Registered: 1/22/2008

Last Renewed: 4/5/2013

Island: Statewide, plus mainland	**Moku:** All	**Ahupua‘a:** All

Contact: Ms. Taffi Wise
Executive Director
P.O. Box 6511
Kamuela, HI 96743
(808) 887-1117

E-mail:
taffi@kalo.org
Website:
www.kalo.org

Kapolei Community Development Corporation
KCDC

Established: May 2008

Summary: We are interested in fostering the preservation of families and Hawaiian culture through implementing collaborative values-based projects and programs promoting environemtal (‘āina) and economic (‘ohana) sustainability.

Originally Registered: 7/14/2010

Island: O‘ahu	**Moku:** Ewa	**Ahupua‘a:** Honouliuli

Contact: Mr. Joseph Kūhiō Lewis
President
P.O. Box 75658
Kapolei, HI 96707
(808) 389-2006

E-mail: joe96817@gmail.com
Website: www.kapoleicdc.org

Kauwahi ‘Anaina Hawai‘i Hawaiian Civic Club

Established: Oct 2005

Summary: As an organization under the auspices of our parent the Association of Hawaiian Civic Clubs, Kauwahi ‘Anaina Hawai‘i Hawaiian Civic Club's purpose is to promote and perpetuate traditional Native Hawaiian values and cultural expressions, especially as our children born outside of our native Hawai‘i may learn and embrace those same values and practices. Also, it is of prime importance that other Native Hawaiians in Utah have a sense of identity with other Native Hawaiians in this locale through Kauwahi ‘Anaina Hawai‘i Hawaiian Civic Club, while being effective contributors in our individual communities and strong supporters of issues concerning Native Hawaiians in the State of Hawai‘i.

Originally Registered: 6/4/2015

Island: None Listed	**Moku:** None Listed	**Ahupua‘a:** None Listed

Contact: Ms. Carol N. Johnson
President
P.O. Box 50808
Provo, UT 84605
(801) 857-0056

E-mail: nalanijohnson@yahoo.com
Website: None Listed

Kawaihapai Ohana

Established: 2001

Summary: Protection and preservation of na iwi kupuna, cultural & historical sites with their applicable mo‘olelo (stories) of Waialua with a primary emphasis of the northwest coastline of Waialua that encompasses the ahupua‘a of Kamananui, Mokuleia, Aukuu, Kikahi, Kawaihapai, Kealia & Kaena. The ultimate emphasis is ahupua‘a of Kawaihapai.

Originally Registered: 12/19/2007

Last Renewed: 11/6/2012

Island: O‘ahu	**Moku:** Waialua	**Ahupua‘a:** Northwest Coastline of Waialua

Contact: Mr. Thomas T. Shirai Jr.
Po‘o
P.O. Box 601
Waialua, HI 96791
(808) 637-4690

E-mail: kawaihapai@hawaii.rr.com
Website: None Listed

Ke One O Kakuhihewa
O‘ahu Council of the Association of Hawaiian Civic Clubs

Established: 1959

Summary: Ke One O Kakuhihewa, the O‘ahu Council of the Association of Hawaiian Civic Clubs, is an organization of the 27 charterd member clubs on O‘ahu. We actively pursue the civic, economic, social, physical, and spiritual well-being of our community. We are committed to the rights of Native Hawaiians to self-determination with a sensitivity for the traditional cultural values and assets of our culture.

Originally Registered: 10/23/2015

Last Renewed: 10/23/2015

Island: O‘ahu	**Moku:** All	**Ahupua‘a:** All

Contact: Mr. Roth Puahala
President
P.O. Box 37874
Honolulu, HI 96837-1122

E-mail: rkpuahala@yahoo.com
Website: www.mokuokakuhihewa.org

Kingdom of Hawai‘i

Established: before 1810

Summary: Reinstate the de jure Kingdom of Hawai‘i.

Originally Registered: 9/18/2014

Island: All	**Moku:** All	**Ahupua‘a:** All

Contact: Mr. Dennis W. Ragsdale
Advocate General
1777 Ala Moana Blvd, #142-102
Honolulu, HI 96815-1603
(808) 235-2425

E-mail: kingdom@pixi.com
Website: www.kingdom-hawaii.org

Ko‘olau Foundation

Established: 2008

Summary: Preserve our cultural resources, landscapes, traditional and customary practices; preserve historic and sacred sites.

Originally Registered: 12/28/2010

Island: All	**Moku:** All	**Ahupua‘a:** All, especially Kaneohe and Heeia

Contact: Ms. Mahealani Cypher
Secretary
P.O. Box 4749
Kaneohe, HI 96744
(808) 226-4195

E-mail: malamapono744@aol.com
Website: None Listed

Ko‘olaupoko Hawaiian Civic Club

Established: 1937

Summary: Our organization is dedicated to the preservation and perpetuation of Hawaiian culture, history, and heritage in the Ko‘olaupoko area between Kane‘ohe and Kualoa.

Originally Registered: 12/28/2010

Island: O‘ahu	**Moku:** Ko‘olaupoko	**Ahupua‘a:** Kaneohe (including Mokapu), Heeia, Kahaluu, Waihee, Kaalaea, Waiahole, Waikane, Hakipuu, Kualoa

Contact: Ms. Mahealani Cypher
Government Relations Chair
P.O. Box 664
Kaneohe, HI 96744
(808) 235-8111

E-mail: malamapono744@aol.com
Website: www.koolaupokohcc.org

Koa Ike

Established: 2003

Summary: Koa Ike's mission is dedicated to the advancement of all peoples in Ko Hawai‘i Pae Aina to perpetuate the traditions of kanaka maoli in efforts to achieve a quality of life that is pono for the people of Hawai‘i.

Originally Registered: 4/23/2014

Island: Ko Hawai‘i Pae Aina	**Moku:** Waianae	**Ahupua‘a:** Kanehunamoku

Contact: Mr. Glen Kila
Program Director
89-530 Mokiawe Street
Waianae, HI 96792-3840
(808) 294-2441

E-mail: makakila@gmail.com
Website: www.koaike.org

Kula no na Poʻe Hawaii

School for the People of Hawaii

Established: 1992

Summary: We work to improve the health and well-being of the residents of the Native Hawaiian Homestead communities of Kewalo, Kalawahine, and Papakolea. Our work is in health and education which encompasses culture, language, and social services.

Originally Registered: 4/5/2017

Last Renewed: 4/5/2017

Island: Oʻahu	**Moku:** Honolulu	**Ahupuaʻa:** Kona

Contact: Ms. Adrienne Dillard
Executive Director
P.O. Box 23268
Honolulu, HI 96823
(808) 520-8997

E-mail:
kula.papakolea@gmail.com
Website:
www.kula-papakolea.com

Kululoiʻa Lineage - I ke Kai ʻo Kululoiʻa

Established: 9th Century

Summary: Our hui has the kuleana of preserving ancestral knowledge and the protection of human, cultural, and natural resources.

Originally Registered: 10/21/2015

Island: Maui and Oʻahu	**Moku:** Hāmākualoa, Hāmākuapoko, Honuaʻula, Kaʻanapali, Wailuku, Kona, ʻEwa	**Ahupuaʻa:** Paʻuwela, Lahaina, Makena

Contact: Mr. Leslie Apiu Aipalena Kululoio
Kupunakāne
469 Maʻalo Street
Kahului, HI 96732
(808) 281-7652

E-mail:
pokaiuli2@gmail.com
Website:
None Listed

Laʻi ʻŌpua 2020

Established: Mar 2006

Summary: Laʻi ʻŌpua 2020's mission is to develop social infrastructure to include social, educational, recreational, cultural, medical service, and programs in the Kealakehe Ahupua'a couth and bordering Kealakehe High School. Envisioned as a puʻuhonua (place of cultural agreement, safe place) will be a place where all can reflect, receive help, and reconnect again with family & community. Health & Wellness in both western & traditional method. We are interested in seeking funding sources to bring our Community Center to fruition.

Originally Registered: 4/9/2012

Island: Hawaiʻi	**Moku:** Hawaiʻi Island	**Ahupuaʻa:** Kealakehe

Contact: Mr. Craig V. Kahui
Executive Director
74-5599 Luhia Street, E5
Kailua Kona, HI 96740
(808) 327-1221

E-mail:
bokahui@yahoo.com
Website:
www.laiopua.org

Lahui Kakaʻikahi

Endangered Species

Established: May 2009

Summary: This organization is exclusively for charitable and educational purposes. It is our mission to provide Native Hawawiians with hand-on training in the construction industry. We will accomplish this mission by fostering the sense of "doing" and innovative thinking that is an intrinsic part of our culture. We envision a Native Hawaiian workforce that is both leading-edge and culturally cognizant at the same time. We will encourage our students to cultivate the value of Malama by passing on their knowledge to others in their community and by providing additional career opportunities for other Native Hawaiians, should they choose to go into business for themselves.

Originally Registered: 4/9/2012

Island: Oʻahu	**Moku:** Koʻolaupoko	**Ahupuaʻa:** Waimanalo

Contact: Mr. Kaleo Keeno
President
41-210 Hihimanu Street
Waimanalo, HI 96795

E-mail:
None Listed
Website:
None Listed

Ma‘a ‘Ohana c/o Lani Ma‘a Lapilio **Established:**

Summary: We are interested in all matters relating to Hawaiian cultural heritage, such as preserving and perpetuating our historic sites, iwi kupuna, language, music, etc. **Originally Registered:** 10/16/2012

Island: O‘ahu	**Moku:** All	**Ahupua‘a:** Honolulu

Contact: Ms. Lani Ma‘a Lapilio
c/o Aukahi
P.O. Box 6087
Kaneohe, HI 96744-9998
(808) 540-5741

E-mail:
lani@aukahi.com
Website:
None Listed

Machado-Akana-Aona-Namakaeha Ohana **Established:**

Summary: Family heiau in Puuhonua o Honaunau: human remains in the heiau; human remains of Kaiana Ahu'ula, brother of Mauna Namakaeha, uncle of Bennett Namakaeha, father of Malia Namakaeha, Great Grandmother of Brenda Luana Machado Lee **Originally Registered:** 11/29/2010

Island: Hawai‘i	**Moku:** Hawai‘i	**Ahupua‘a:** Honaunau/Captain Cook

Contact: Ms. Brenda Luana Machado Lee
Loea
P.O. Box 133
Captain Cook, HI 96704

E-mail:
None Listed
Website:
None Listed

Mahu Ohana **Established:** 1994

Summary: To Protect and preserve places our kupuna lived, fished, grew kalo, ginger and are buried. To be stewards of our iwi kupuna. Our kuleana is from Kaena Point to Waimea Valley and from Waialua to Ewa, including Schofield. **Originally Registered:** 6/22/2012

Island: O‘ahu	**Moku:** All, Waialua, Schofield	**Ahupua‘a:** All

Contact: Ms. Keona Mark
P.O. Box 2
Haleiwa, HI 96712
(808) 637-2778

E-mail:
keonamark@gmail.com
Website:
None Listed

Mainland Council Association of Hawaiian Civic Clubs **Established:** Jul 1990

Summary: To promote Native Hawaiian culture, language and traditions. To actively assert and defend the cultural, traditional knowledge, and intellectual property rights of the Native Hawaiian people, of Kupuna and cultural practitioners. To protect, respect, and promote the inherent rights of Native Hawaiian people that derive from our political, economic, and social structures and from our culture, spiritual traditions, histories, and philosophies, especially our rights/kuleana to our lands, territories, and resources. **Originally Registered:** 3/7/2014

Island: All	**Moku:** All	**Ahupua‘a:** All

Contact: Ms. Charlene Lui
President
766 North 900 West
Orem, UT 84057
(801) 230-5109

E-mail:
mcahccnews@aol.com
Website:
www.mainlandcouncil.org

Makaha Hawaiian Civic Club

Established: 2005

Summary: Stewards to the land and surrounding areas, adopt a park, beautification, citizens patrol, graffiti busting.

Originally Registered: 5/9/2012

Island: Oʻahu	**Moku:** Waiʻanae	**Ahupuaʻa:** Makaha

Contact: Ms. Lu Faborito
Secretary
P.O. Box 305
Waiʻanae, HI 96792
(808) 351-5650

E-mail:
kaluhiokalanik@aol.com
Website:
http://makanahawaiiancivicclub.webs.com

Makuʻu Farmers Association

Established: 1985

Summary: We are interested in preserving native Hawaiian plants, historic places, and identifying ancient burial grounds in our moku and ahupuaʻa. Collecting and sharing of oral history by our kūpuna is also important to us.

Originally Registered: 5/30/2012

Island: Hawaiʻi	**Moku:** Puna	**Ahupuaʻa:** All

Contact: Ms. Paula K. Kekahuna
President
15-2131 Keaau Pahoa Highway
Pahoa, HI 96778
(808) 896-5537

E-mail:
makuufarmersassociation@gmail.com
Website:
None Listed

Maluʻōhai Residents Association

Established: Mar 2001

Summary: Maluʻōhai Residents' Association is the first homestead in Kapolei serving 226 homes. Our mission is to perpetuate our cultural heritage by enhancing the education, safety and well being of our ohana with aloha. We support restoration and preservation of cultural sites, best use of natural resources and trust lands for the betterment of native Hawaiians.

Originally Registered: 1/10/2008

Last Renewed: 4/8/2013

Island: Oʻahu	**Moku:** Ewa	**Ahupuaʻa:** Honoʻuliʻuli

Contact: Ms. Homelani Schaedel
President
P.O. Box 700911
Kapolei, HI 96709
(808) 520-2267

E-mail:
homeshaedel@hawaii.rr.com
Website:
None Listed

Mana Health Services, Inc.

Established: Feb 2015

Summary: Mana Health Services, Inc. (MHS) is a Native Hawaiian Organization (NHO) established to provide healthcare, community and economic development for Native Hawaiians and kamaʻaina communities across the islands of Hawaiʻi, U.S. States and territories. As a NHO, we are a recognized 501(c)(3) private nonprofit organization incorporated under the laws of the State of Hawaiʻi with the primary purpose of serving the Native Hawaiian communities in Hawaiʻi and across the Pacific.

Originally Registered: 2/15/2018

Island: Oʻahu	**Moku:** ʻEwa, Waiʻanae, Waialua	**Ahupuaʻa:** Honolulu, Kapālama, Kalihi, Waikīkī

Contact: Mr. Vincent Manuwai
CEO
94-307 Farrington Hwy, Unit B01
Waipahu, HI 96797
(808) 200-3305

E-mail:
contact@manaservices.net
Website:
www.manaservices.net

Marae Haʻa Koa

Established: 2003

Summary: Koa Ike's mission is dedicated to the advancement of all peoples in Ko Hawaiʻi Pae Aina to perpetuate the traditions of kanaka maoli in efforts to achieve a quality of life that is pono for the people of Hawaiʻi.

Originally Registered: 4/23/2014

Island: Ko Hawaiʻi Pae Aina	**Moku:** Waianae	**Ahupuaʻa:** Kanehunamoku

Contact: Mr. Glen Kila
Program Director
89-530 Mokiawe Street
Waianae, HI 96792-3840
(808) 294-2441

E-mail: makakila@gmail.com

Website: www.maraehaakoa.org

Meleana Kawaiaea, LLC

Established: 1999

Summary: Na Kawaiaea ʻOhana is the governing board of the children of Mele Ana Kawaiaea land trust located in Kaupō, Maui, to preserve and establish a self-governing and sustainable entity.

Originally Registered: 10/8/2010

Island: Oʻahu	**Moku:** Koʻolaupoko	**Ahupuaʻa:** Waimanalo

Contact: Mr. Paul Richards
Member
41-155 Poliala Street
Waimanalo, HI 96795
(808) 259-8611

E-mail: paul_28827@msn.com

Website: None Listed

Menehune Foundation

Established: Jul 2005

Summary: The Mission of the Foundation - To cultivate, manage, and supports programs that perpetuate the Native Hawaiian community and its culture. It includes but is not limited to:

a. Strengthening Native Hawaiian traditions and core family values

b. Re-educating Native Hawaiians to be self-sufficient through a self-sustainable lifestyle

c. Supporting the preservation of Hawaii's economy and ecosystem

d. Promoting scientific research and technological innovation that enhance the way we live

e. Teaching life and business skills

Originally Registered: 9/18/2014

Island: Oʻahu	**Moku:** Koʻolaupoko	**Ahupuaʻa:** Kaneʻohe

Contact: Mr. Michael Kahue
President
1188 Bishop St., Suite 3004
Honolulu, HI 96813
(808) 943-0050

E-mail: plazachiro@hotmail.com

Website: None Listed

Moku o Kaupo

Established: Jun 2007

Summary: To incorporate appropriate Native Hawaiian knowledge and protocols for the preservation, cultivation, and management of all Native Hawaiian natural and cultural resources for future generations.

Originally Registered: 5/9/2012

Island: Maui	**Moku:** Kaupo	**Ahupuaʻa:** Kaupo

Contact: Ms. Jade Alohalani Smith
Representative
P.O. Box 1269
Kula, HI 96790
(808) 870-2820

E-mail: jadesmith@quixnet.net

Website: None Listed

Na Aikane O Maui

Established: 2011

Summary: Na Aikane O Maui is an educational organization regarding all aspects of Hawaiian culture - history, archaeology, iwi, etc.

Originally Registered: 10/16/2012

Island: Maui	**Moku:** Lahaina	**Ahupua'a:** Wainee

Contact: Ms. Uilani Kapu
Treasurer
562A Front Street
Lahaina, HI 96761
(808) 250-1479

E-mail:
uilani.kapu@gmail.com
Website:
None Listed

Na Koa Ikaika Ka Lahui Hawaii

Established: 2004

Summary: Cultural, Social & Economic Development.
Education, Health & Housing. Land entitlements, Energy and Water issues.

Originally Registered: 07/27/2015

Island: Hawai'i, Lāna'i, O'ahu, Maui, Kaua'i, Molokai, Ni'ihau, Kaho'olawe, archipelago	**Moku:** All	**Ahupua'a:** All

Contact: Ms. Mililani B. Trask
Convenor
P.O. Box 6377
Hilo, HI 96720

E-mail:
mililani.trask@icllchawaii.com
Website:
None Listed

(808) 961-4811

Na Ku'auhau 'o Kahiwakaneikopolei

Established: 2006

Summary: Na Ku'auhau 'o Kahiwakaneikopolei is a federal 501c3 charitable organization in Hawaii dedicated in providing educational workshops to individuals interested in learning about the Hawaiian culture.

Originally Registered: 12/19/2007

Last Renewed: 11/6/2012

Island: Statewide, plus mainland	**Moku:** Crown Land	**Ahupua'a:** Crown Land

Contact: Ms. H. Kanoeokalani Cheek
Vice President
P.O. Box 5411
Kane'ohe, HI 96744
(808) 778-5598

E-mail:
kcheek0722@yahoo.com
Website:
None Listed

Nā Kuleana o Kānaka 'Ōiwi

The responsibilities of native Hawaiians

Established: 2013

Summary: We are interested in the protection and preservation of all aspects of Hawaiian culture, and to integrate the knowledge and protocols of our kūpuna for the preservation, cultivation, and management of all cultural and natural resources on Kaua'i.

Originally Registered: 2/11/2015

Island: Kaua'i	**Moku:** All	**Ahupua'a:** All

Contact: Ms. Donna Kaliko Santos
P.O. Box 1541
Līhu'e, HI 96766
(808) 346-0841

E-mail:
kaliko08@outlook.com
Website:
None Listed

Na Mookupuna O Wailua — **Established:** Oct 2017

The Bloodlines of Wailua

Summary: Protection of ahupuaa lineal descendant and native tenant rights and interest in the Wailua Ahupuaa for subsistence, cultural, and religious purposes such as protection, restoration, and preservation of all waterways, taro patches, fish ponds, burials, and heiau (temples) in the Wailua Ahupuaa, Island of Kauai, including mineral rights and rights of piscary . . . Hawaiian Laws 1841-1842, Kamehameha III, Lahainaluna, Maui, Hawaiian Islands. — **Originally Registered:** 12/7/2017

Island: Kauaʻi	**Moku:** Puna	**Ahupuaʻa:** Wailua

Contact: Mr. Noa Mau-Espirito
6200 Olohena Road, Unit A
Kapaa, HI 96746
(808) 855-5575

E-mail: nkeliiua@gmail.com
Website: None Listed

Na Ohana o Puaoi a me Hanawahine — **Established:**

Summary: We want to preserve our homestead lands so that our culture, history, burial grounds, historical places, language, etc. are kept safe for my ohana and many others. — **Originally Registered:** 10/8/2010

Island: Oʻahu	**Moku:** Koʻolaupoko	**Ahupuaʻa:** Waimanalo

Contact: Ms. Roxanne Hanawahine
Representative
41-153 Nalu Street
Waimanalo, HI 96795

E-mail: roxy_96795@yahoo.com
Website: None Listed

(808) 489-2533

Nanakuli Housing Corporation — **Established:** 1989

Summary: Our mission is that all Native Hawaiians will build their personal assets through homeownership regardless of their economic status. Our vision is that every Native Hawaiian will have a home. — **Originally Registered:** 7/24/2012

Island: All islands	**Moku:** All	**Ahupuaʻa:** All

Contact: Ms. Paige Kapiolani Barber
P.O. Box 17489
Honolulu, HI 96817
(808) 842-0770

E-mail: info@baseyard.com
Website: www.baseyard.com

Native Hawaiian Chamber of Commerce — **Established:** 1974

Summary: NHCC's mission is to connect and strengthen Native Hawaiian businesses, communities and professions by building on a foundation of relationships, resources, and Hawaiian values. — **Originally Registered:** 9/30/2015

Island: Oʻahu	**Moku:** All	**Ahupuaʻa:** All

Contact: Ms. Leilani Williams-Solomon
President
P.O. Box 597
Honolulu, HI 96809
(808) 265-6349

E-mail: nhccoahu@gmail.com
Website: www.nativehawaiianchamberofcommerce.com

Native Hawaiian Church

Established: 2009

Summary: Protect, promote, and preserve native Hawaiian religious, cultural, and spiritual practices and traditions related to the people of old. These traditions and practices have evolved and continue to develop to enrich and nurture the wellness and health of the people and the land. These practices and traditions include Makahiki, Hooponopono, Hookuikahi, Laau Lapaau, and Lomilomi as passed down and practiced in today's world. These practices and traditions require a commitment to protect and preserve all archeological, historical, and iwi kupuna burial sites as sacred sites deserving respect and preservation. The protection and preservation of these sacred sites includes traditional cultural properties, places, and natural resources, and foods, plants, fishes, birds, and animals.

Originally Registered: 10/8/2010

Island: Oʻahu	**Moku:** Kona, Ewa, Waiʻanae	**Ahupuaʻa:** All

Contact: Mr. Kaleo Patterson
President
1127 Bethel Street, Suite 16
Honolulu, HI 96813
(808) 330-3769

E-mail: pjrcgo@gmail.com
Website: None Listed

Native Hawaiian Economic Alliance
NHEA

Established: 2002

Summary: The Native Hawaiian Economic Alliance is a Hawaii nonprofit founded in 2002 to support locally-owned and Native Hawaiian-owned small businesses. We believe that by building a sound small business sector, all of Hawaii prospers. Our mission is founded on service, collaboration, and partnerships that promote the talent and strength of Hawaii's small business owners.

Originally Registered: 3/27/2008

Last Renewed: 5/9/2013

Island: Statewide, plus mainland	**Moku:** All	**Ahupuaʻa:** All

Contact: Mr. Napali Woode
Director
2149 Lauwiliwili St., Ste. 200
Kapolei, HI 96707
(808) 596-8155

E-mail: info@nativealliance.com
Website: www.nativealliance.com

Native Hawaiian Education Council
NHEC

Established: 1994

Summary: The Native Hawaiian Education Council was established by the Native Hawaiian Education Act to carry out the purposes of the Act through the coordination of educational and related services and programs available to Native Hawaiians.

Originally Registered: 5/30/2012

Island: Statewide	**Moku:** All	**Ahupuaʻa:** All

Contact: Ms. Sylvia M. Hussey
Executive Director
735 Bishop Street, Suite 224
Honolulu, HI 96813
(808) 523-6432

E-mail: nhec@nhec.org
Website: www.nhec.org

Native Hawaiian Hospitality Association
NaHHA

Established: 1997

Summary: Dedicated to promoting and perpetuating the thriving culture that encompasses vast history, extensive knowledge, spiritual depth, relevant values, and natural treasures of Hawaii, NaHHA was created to address concerns about how Native Hawaiians and Hawaiian culture were represented in tourism. Our work is conducted via consulting, education, developing and implementing effective communication tools, researching, providing project support, coordination, and advocating for the advancement of Native Hawaiians in tourism.

Originally Registered: 10/23/2015

Island: Oʻahu	**Moku:** Kona	**Ahupuaʻa:** Waikiki

Contact: Ms. Pohai Ryan
Executive Director
310 Paoakalani Avenue, #201A
Honolulu, HI 96815
(808) 628-6374

E-mail: info@nahha.com
Website: www.nahha.com

Nekaifes Ohana

Established: Pre-Contact

Summary: Department of Hawaiian Home Lands; Hawaiian culture; preserving historical places.

Originally Registered: 5/9/2012

Island: Maui, Molokai	**Moku:** All	**Ahupua'a:** All

Contact: Ms. Maraea K. Nekaifes
212 Hiipali Loop
Kula, HI 96790-7273
(808) 760-2077

E-mail:
None Listed

Website:
None Listed

Office of Hawaiian Affairs
OHA

Established: 1978 Hawai'i Constitutional Convention, Art. XII, Sec. 5

Summary: OHA is obligated to work towards the betterment of the Hawaiian people, and to serve the needs and interests of a wide and diverse beneficiary group. Thus, OHA requests to be notified and/or consulted on any Federal undertaking related to the Hawaiian people.

Originally Registered: 12/19/2007

Last Renewed: 4/21/2017

Island: Statewide	**Moku:** All	**Ahupua'a:** All

Contact: Dr. Kamana'opono M. Crabbe Ph.D.
Ka Pouhana, Chief Executive Officer
560 N. Nimitz Hwy., Suite 200
Honolulu, HI 96817
(808) 594-1835

E-mail:
kamanaoc@oha.org

Website:
www.oha.org

Additional Contacts:

Ms. Lisa Victor	**E-mail:**
Ka Pou Nui, Chief Operating Officer	lisav@oha.org
Mr. Kawika Riley	**E-mail:**
Ka Pou Kihi Kū, Chief Advocate	kawikar@oha.org
David K. Laeha	**E-mail:**
Ka Pou Kihi Kanaloa, Chief Financial Officer/Resource Management – Financial Assets Director	davidl@oha.org
Ms. Lisa Watkins-Victorino, Ph.D.	**E-mail:**
Ka Pou Kihi Kāne, Research Director	lisaw@oha.org

Office of Hawaiian Affairs - continued

Ms. Mehanaokalā Hind	**E-mail:**
Ka Pou Kihi Lono, Community Engagement Director	mehanah@oha.org
Mr. Miles Nishijima	**E-mail:**
Land and Property Director	milesn@oha.org
Ms. Coti-Lynne Haia	**E-mail:**
Washington DC Bureau Chief	cotih@oha.org

Order of Kamehameha I

Established: 1865

Summary: Knightly Order of the Kingdom of Hawai‘i, today the members of the Order of Kamehameha I are obligated to the reinstatement of the Kingdom of Hawai‘I and it is the duty and responsibilit of the members to educate, train, prepare themselves and others as current community leaders as well as future leaders of our Nation. The Order of Kamehameha I has active committees for Trust Oversight, Environmental Oversight, Cultural Oversight, as well as Legislative Affairs, Reinstate the de jure Kingdom of Hawai‘i.

Originally Registered: 9/18/2014

Island: All	**Moku:** All	**Ahupua‘a:** All

Contact: Mr. Dennis W. Ragsdale
Advocate General
1777 Ala Moana Blvd, #142-102
Honolulu, HI 96815-1603
(808) 235-2425

E-mail: order@kamehameha-1.org
Website: www.kamehameha-1.org

Pacific Agricultural Land Management Systems
PALMS

Established: Jun 2012

Summary: Interested in conservation of wildlife and agricultural land and their restoration and cultivation in sustainable ways using Hawaiian cultural methods where possible.

Originally Registered: 1/28/2014

Island: Hawai‘i	**Moku:** Puna	**Ahupua‘a:** All

Contact: Mr. William W. Moekahi Steiner
Member
P.O. Box 4565
Hilo, HI 96720
(808) 294-0750

E-mail: wwmsteiner@gmail.com
Website: None Listed

Pacific Justice & Reconciliation Center

Established: 1989

Summary: Our organization provides education, advocacy, and promotion of healing traditions, including hooponopono, hookuikahi, and the restoration from political injustices.

Originally Registered: 10/8/2010

Island: O‘ahu	**Moku:** Wai‘anae	**Ahupua‘a:** Makaha

Contact: Mr. Kaleo Patterson
President
1127 Bethel Street, Suite 16
Honolulu, HI 96813
(808) 531-5122

E-mail: pjrcgo@gmail.com
Website: www.pacificpeace.org

PA‘I Foundation

Established: 2001

Summary: Preserving and Perpetuating Native Hawaiian Arts and Culture for Future Generations.

Originally Registered: 12/7/2017

Island: O‘ahu	**Moku:** O‘ahu	**Ahupua‘a:** N/A

Contact: Ms. Victoria Holt Takamine
Executive Director
P.O. Box 17483
Honolulu, HI 96817
(808) 844-2001

E-mail: vicky@paifoundation.org
Website: www.paifoundation.org

Papa Ola Lokahi

Native Hawaiian Health Board

Established: 1987

Summary: Papa Ola Lokahi is the Native Hawaiian Health Board. It is interested in all things that make for Indigenous Peoples' health and wellbeing including native lands and waters and their use/misuse, traditional health practices, and cultural practices that promote health and wellbeing, including promoting traditional languages, arts, crafts, sports, etc.

Originally Registered: 10/10/2007

Last Renewed: 4/5/2013

Island: Nationwide Purview	**Moku:** State of Hawai‘i	**Ahupua‘a:** All

Contact: Ms. Sharlene Chun-Lum
Executive Director
894 Queen Street
Honolulu, HI 96813
(808) 597-6550

E-mail: schunlum@papaolalokahi.org
Website: www.papaolalokahi.org

Papakōlea Community Development Corporation

PCDC

Established: 1999

Summary: We are interested in economic development and professional/career development on native land. We are also interested in all forms of community development strategies/initiatives. Our community center also has a heavy emphasis on health and wellness initiatives. Please notify us of all the above areas.

Originally Registered: 2/19/2008

Last Renewed: 4/8/2013

Island: O‘ahu	**Moku:** O‘ahu	**Ahupua‘a:** Kona

Contact: Ms. Lilia Kapuniai
Executive Director
2150 Tantalus Drive
Honolulu, HI 96813
(808) 520-8998

E-mail: lilia@papakolea.org
Website: www.papakolea.com

Partners in Development Foundation

Established: Apr 1997

Summary: Since 1997, Partners in Development Foundation (PIDF), a 501(c)(3), has been managing programs embedded in the Hawaiian culture and value and aimed at serving the most needy in our Native Hawaiian communities. PIDF's programs fall primarily in the areas of education (early childhood, middle, high school, adults), social service (foster resource family recruitment, safehouse for teens), and environmental work (wastewater remediation using natural processes).

Originally Registered: 2/11/2015

Island: All	**Moku:** All	**Ahupua‘a:** All

Contact: Mr. Jan E. Hanohano Dill
President and COB
2040 Bachelot Street
Honolulu, HI 96817
(808) 595-2752

E-mail: pid@pidfoundation.org
Website: www.pidfoundation.org

Paukukalo Hawaiian Homes Community Association

Established: 1967

Summary: Preserving all of our historical places and archeological places of interest.

Originally Registered: 10/8/2010

Island: Maui	**Moku:** Maui	**Ahupua‘a:** Central Maui

Contact: Ms. Olinda Aiwohi
President
781 Kawananakoa Street
Wailuku, HI 96793
(808) 244-3288

E-mail: None Listed
Website: None Listed

Peahi Ohana **Established:**

Summary: We are a Hawaiian Chinese family from Waimanalo Homestead since 1999. **Originally Registered:** 10/8/2010

Island: Oʻahu	**Moku:** Koʻolaupoko	**Ahupuaʻa:** Waimanalo

Contact: Mr. Apela Peahi
Representative
41-205 Lupe Street
Waimanalo, HI 96795
(808) 216-2039

E-mail:
speahi@htbyb.com
Website:
None Listed

Piihonua Hawaiian Homestead Community Association **Established:** Jul 2011
PHHCA

Summary: PHHCA's purpose is to promote the social welfare of the homestead community in Piihonua through activities that strengthen communities and families; to educate and strengthen the cultural identity of Hawaii's youth through instruction in Hawaiian history, culture and values; to preserve and protect Hawaii's natural environment through stewardship of lands consistent with traditional methods of resource management. **Originally Registered:** 5/30/2012

Island: Hawaiʻi	**Moku:** Hilo	**Ahupuaʻa:** Piihonua

Contact: Mr. Ronald Kodani
President
37 Waiea Place
Hilo, HI 96720
(808) 920-5072

E-mail:
phhcahilo@gmail.com
Website:
www.PHHCA.webs.com

Royal Hawaiian Academy of Traditional Arts **Established:** Nov 1996

Summary: Protect, preserve and perpetuate the Hawaiian culture and traditions. **Originally Registered:** 12/19/2007

Last Renewed: 10/2/2012

Island: Statewide, plus mainland	**Moku:** All	**Ahupuaʻa:** All

Contact: Mr. L. Laakea Suganuma
President
835 Ahuwale Street
Honolulu, HI 96821
(808) 377-5611

E-mail:
laakea1@hawaiiantel.net
Website:
None Listed

Sovereign Councils of the Hawaiian Homelands Assembly **Established:** 1987

Summary: The SCHHA is the oldest and largest advocacy organization serving and protecting the interests of beneficiaries of the Hawaiian Homes Commission Act. We are a membership organization of more than 25 Hawaiian Homestead Associations with beneficiary members on the land where more than 30,000 native Hawaiians live, and members on the waitlist where nearly as many are on the waitlist to receive a land award. **Originally Registered:** 10/13/2015

Island: Statewide	**Moku:** Statewide	**Ahupuaʻa:** Those with Trust Lands

Contact: Ms. Robin Puanani Danner
Chairman
2149 Lauwiliwili Street, Suite 200
Kapolei, HI 96707
(808) 652-0140

E-mail:
robin.puanani.danner@gmail.com
Website:
Under development

The Friends of Hokuleʻa and Hawaiʻiloa

Established: Jul 1996

Summary: Focus…perpetuating Hawaiian traditions and values by teaching preservation and development of canoe building - to improve understanding and appreciation for this unique Hawaiian heritage, for any person interested in learning.

Originally Registered: 3/1/2013

Island: Oʻahu	**Moku:** All	**Ahupuaʻa:** All

Contact: Mr. William K. Richards Jr.
President
P.O. Box 696
Kailua, HI 96734
(808) 843-8414

E-mail:
friends@fhh-hawaii.org
Website:
www.fhh-hawaii.org

The I Mua Group

Established: 2002

Summary: To improve enhance and perpetuate traditional Hawaiian rights, entitlements, culture and values through interation with individuals, organizations, and the general public. Recent emphasis on Federal recognition for Native Hawaiians.

Originally Registered: 1/31/2008

Last Renewed: 7/24/2013

Island: Statewide, plus mainland	**Moku:** All	**Ahupuaʻa:** All

Contact: Mr. Melvin Soong
President
422 Iliaina Street
Kailua, HI 96734
(808) 542-7869

E-mail:
Soongm001@hawaii.rr.com
Website:
None Listed

Additional Contacts:

Mr. Robert Moore
1st Vice President

E-mail:

Mr. Edward Lee
2nd Vice President

E-mail:

The Makua Group

Established: 2008

Summary: Our mission is to help our Native Hawaiian People, through the promotion and the fostering of various programs in Health & Welfare, Education, quality of life for Kūpuna (Grandparent) & Keiki (children) and Enhancement of Cultural Preservation.

Originally Registered: 12/7/2017

Island: All islands	**Moku:** Waiʻanae/All	**Ahupuaʻa:** Nānākuli to Makua and All

Contact: Mr. Eugene O'Connell
Project Coordinator
87-282 Holopono Street
Waiʻanae, HI 96792
(808) 668-6470

E-mail:
eugene.oconnell@makuagroup.com
Website:
www.makuagroup.com

The Mary Kawena Pūkuʻi Cultural Preservation Society

Established: Jan 2015

Summary: Our purpose is to be a unique and invaluable education resource based on the life's work of Mary Kawena PūkuʻI, who dedicated her life to the preservation of Hawaiian culture, customs, traditions and language, authoring/co-authoring over 50 books and scholarly papers, including the Hawaiian Dictionary; composing over 150 chants & songs while helping many others in their own work concerning Hawaiian culture.

Originally Registered: 8/10/2017

Island: All	**Moku:** All	**Ahupuaʻa:** All

Contact: Mr. Laʻakea Suganuma
President
835 Ahuwale Street
Honolulu, HI 96821
(808) 377-5611

E-mail:
marykawenapukui@gmail.com
Website:
www.marykawenapukui.com

Waiʻanae Hawaiian Civic Club

Established: Jun 1935

Summary: Traditional Navigational Sailing: Steward of E Ala Canoe. Goal: to educate community in entity that brought native Hawaiians to islands; instill in our opio the history and background of voyaging.

Originally Registered: 5/30/2012

Island: Oʻahu	**Moku:** Waiʻanae	**Ahupuaʻa:** Waiʻanae

Contact: Ms. Mele Worthington
President
P.O. Box 687
Waiʻanae, HI 96792-0687
(808) 347-6549

E-mail:
makahamele@gmail.com
Website:
www.waianaehcc.org

Waiehu Kou Phase 3 Association

Established: 2005

Summary: We are the kanaka maoli of the ili of Waiehu Kou, a united self reliant community guided by the values of Aloha (love), Ahonui (tolerance), Kuleana (responsibility), Kokua (helpfulness), Laulima (cooperation), Lokahi (harmony), Malama (stewardship), Pono (proper procedure), and who live, work, and play together in a safe environment.

Originally Registered: 5/9/2012

Island: Maui	**Moku:** Waiehu, Waihee	**Ahupuaʻa:** Waiehu, Waihee

Contact: Mr. Roy Oliveira
President
49 Kaulana Na Pua Circle
Wailuku, HI 96793
(808) 760-8374

E-mail:
waiehukouphase3association@hotmail.com
Website:
www.waiehukouphase3.org

Additional Contacts:

Mr. Daniel L. Ornellas
Vice President

E-mail:
daniel.l.ornellas@hawaii.gov

U.S. Department of the Interior – Office of Native Hawaiian Relations
Native Hawaiian Organization (NHO) Notification List

Waimānalo Hawaiian Homes Association

Established: 1938

Summary: The purpose is to protect the Hawaiian Homes Commission Act, 1920, and to improve the quality of life, school, health, church, and welfare of the homestead residents of Waimānalo.

Originally Registered: 10/8/2010

Island: Oʻahu	**Moku:** Koʻolaupoko	**Ahupuaʻa:** Waimānalo

Contact: Mr. Kamakana M. Aquino
President
P.O. Box 353
Waimānalo, HI 96795
(808) 426-1223

E-mail:
kamakana808@yahoo.com

Website:
www.waimanalo.org

Updated: April 5, 2018

SUPPLEMENTARY INFORMATION: Section 7209 of IRTPA, as amended, provides that upon full implementation, U.S., Bermudian, and Canadian citizens, and Mexican nationals would be required to present a passport or such alternative documents as the Secretary of Homeland Security designates as satisfactorily establishing identity and citizenship upon entering the United States.

In a Notice of Proposed Rulemaking (NPRM) published in the **Federal Register** on June 26, 2007 (72 FR 35088), DHS and the Department of State (DOS) described the second phase of a joint plan, known as WHTI, to implement these new requirements. The NPRM proposed the specific documents that U.S. citizens and nonimmigrant aliens from Canada, Bermuda, and Mexico would be required to present when entering the U.S. at sea and land ports-of-entry from Western Hemisphere countries.

DHS and CBP have analyzed the potential impacts on the human environment of several alternate ways of implementing WHTI at sea and land ports-of-entry based on technological and operational considerations as part of the decision-making process. The impact analysis in the Final PEA and FONSI focuses primarily on the effects of implementing WHTI at land ports-of-entry because the land environment is the most sensitive to the proposed document and technological changes associated with implementation of WHTI.

Four technological and operational alternatives to meet the requirements to define and process secure, standardized travel documents under WHTI are analyzed in the PEA. The four alternatives are: (1) No-Action Alternative: maintain the status quo; (2) Standardized Documents Alternative: accept a limited number of document categories for admission at all sea or land ports-of-entry (LPOEs); (3) MRZ Alternative: Accept standardized documents that contain a Machine Readable Zone (MRZ); and (4) RFID Alternative: Accept standardized documents that contain Radio Frequency Identification (RFID) technology and an MRZ, for the use of RFID-enabled readers at the busiest LPOEs and MRZ at all LPOEs. As described in the PEA, air quality and noise are the primary resource areas that have the most potential to be affected by implementation of WHTI. However, no significant environmental impacts to these resources or any other human or natural environments from the implementation of any of the WHTI alternatives are anticipated.

Dated: September 19, 2007.

Eugene H. Schied,

Assistant Commissioner, Office of Finance.

[FR Doc. E7–19035 Filed 9–25–07; 8:45 am]

BILLING CODE 9111–14–P

DEPARTMENT OF THE INTERIOR

Office of the Secretary

Native Hawaiian Organization Notification List

AGENCY: Office of Hawaiian Relations, Office of the Secretary, Department of the Interior.

ACTION: Creation of a Native Hawaiian Organization Notification List to be maintained by the U.S. Department of the Interior, Office of Hawaiian Relations.

SUMMARY: The Office of Hawaiian Relations (OHR), within the Office of the Secretary, U.S. Department of the Interior (DOI), has developed criteria for establishment of a Native Hawaiian Organization Notification List (Notification List). The purpose of the Notification List is to provide the DOI officials with a tool to help satisfy their statutory notification obligations under such laws as the National Environmental Policy Act (NEPA), the National Historic Preservation Act (NHPA), and the Native American Graves Protection and Repatriation Act (NAGPRA). It is also the intent of the Office of Hawaiian Relations to make available to other Federal agency officials this mechanism to assist them with their reasonable and good faith efforts to identify Native Hawaiian organizations that are to be notified or consulted with when required by statute or when desired.

DATES: Eligible organizations should submit their application for inclusion on the list. Although organizations may apply for inclusion on the list at anytime, we will begin using the list on November 26, 2007.

ADDRESSES: To apply for placement of an organization on the Notification List send certification to: Ka'i'ini K. Kaloi, Director, Office of Hawaiian Relations, 1849 C Street, NW., MS 3543, Washington, DC 20240.

SUPPLEMENTARY INFORMATION:

1. What Does the Native Hawaiian Organization Notification List Do?

a. The Native Hawaiian Organization Notification List, to be maintained and housed within OHR, is designed to assist the DOI and other agencies to locate and communicate with interested Native Hawaiian organizations when statutory, regulatory, or when otherwise desired by the agency.

b. The Native Hawaiian Organization Notification List may assist other Federal agency officials with their reasonable and good faith efforts to identify Native Hawaiian organizations that are to be notified or consulted with when required by statute or when otherwise desired by the agency.

c. The Native Hawaiian Organization Notification List is voluntary, and Native Hawaiian organizations are not required to participate in the Notification List. However, it is anticipated that Federal agencies will rely on this list.

d. The placement of an organization on the Notification List shall not be construed as recognition by the Federal Government that the organization is a governmental, tribal, or other similar type entity.

e. The placement of an organization on the Notification List is not intended to and does not confer any substantive or procedural right, benefit, or privilege enforceable at law or in equity, which is not otherwise available to the organization by law, by any party against the United States, its agencies or instrumentalities, its officers or employees, or any other person.

f. The Notification List is created as a convenience for the U.S. Government and Native Hawaiian organizations. It does not provide a basis for legal action against the U.S. Government.

2. How Does a Native Hawaiian Organization Apply To Be on the Native Hawaiian Organization Notification List?

a. An organization must certify in writing to OHR the following:

i. The organization serves and represents the interests of Native Hawaiians;

ii. The organization has as a primary and stated purpose the provision of services to Native Hawaiians;

iii. The organization has expertise in Native Hawaiian affairs; and

iv. The organization would like to be placed on the Notification List.

b. The certification must be signed and dated by the organization's governing body and include a valid U.S. mailing address where the organization wants notifications to be sent.

c. The request may also include the organization's topical and geographic areas of interest.

d. If the certification from the organization is incomplete, the organization may not be listed.

e. It is a violation of Federal law to make false, fictitious, or fraudulent statements to the Federal Government.

3. How Long Does Registration on the Notification List Last?

Placement on the list is valid for five years. Placement automatically expires at the end of five years, measured from the date the organization was placed on the Notification List or last had its membership renewed, whichever is more recent. The OHR will notify the organization at the last listed address of the need to renew their membership on the Notification List.

4. How Will DOI Manage and Provide Public Notification of the List?

a. The DOI will maintain the Native Hawaiian Organization Notification List and will periodically update it.

i. The OHR will publish on the DOI Web site the names and contact information of the listed Native Hawaiian organizations. The information contained therein will be updated periodically

ii. Copies of the Notification List and instructions outlining how to become a listed organization will also be available online or may be requested from the OHR.

5. How Will Listed Native Hawaiian Organizations Be Notified of Federal Actions?

a. Agency officials who are seeking to consult with Native Hawaiian organizations regarding a NAGPRA or NHPA action should notify those Native Hawaiian organizations on the Notification List.

b. The notification should:

i. Be sent to the address listed on the Native Hawaiian Organization Notification List;

ii. Outline the Federal action to take place that will affect Native Hawaiians;

iii. Provide a point of contact within the acting agency for the Native Hawaiian organization where inquiries may be sent.

6. What Must a Listed Native Hawaiian Organization Do in Order To Remain on the Notification List?

a. To remain on the Notification List, Native Hawaiian organizations must submit a written request at least every five years. It is the responsibility of the organization to notify the OHR of changes to its U.S. mailing address.

b. The request to remain on the Notification List must be sent to the DOI, OHR, within 30 days before the organization's listing expires.

c. The request to remain on the Notification List must include a certification, signed and dated by the organization's governing body, that includes:

i. The organization's current contact information, including a valid U.S. mailing address;

ii. A statement that the organization meets the criteria listed in 2(a)(i)–(iii); and

iii. A statement that it is the official position of the organization to remain on the Notification List.

d. If the information submitted by an organization to update its registration is incomplete, the organization may not remain listed.

e. If an organization does not provide a satisfactory update every five years, registration on the Notification List will automatically expire. Registration automatically expires at the end of two years measured from the date the organization was placed on the Notification List or the date the organization last submitted a written request to remain on the Notification List, whichever is more recent.

7. How Does an Organization Voluntarily Remove Its Name From the Notification List?

a. If an organization wants to be removed from the Notification List prior to the automatic expiration date, the organization must send a signed and dated written statement from the organization's governing body affirmatively requesting removal from the Notification List.

b. After receipt of the removal request, the OHR will remove the organization during the periodic update of the Notification List.

Dated: September 5, 2007.

Ka'i'ini Kaloi,

Director, Office of Hawaiian Relations.

[FR Doc. E7–19003 Filed 9–25–07; 8:45 am]

BILLING CODE 4310–02–P

DEPARTMENT OF THE INTERIOR

Fish and Wildlife Service

Lacassine National Wildlife Refuge

AGENCY: Fish and Wildlife Service, Interior.

ACTION: Notice of availability of the Final Comprehensive Conservation Plan (CCP) and Finding of No Significant Impact (FONSI).

SUMMARY: We, the Fish and Wildlife Service, announce our decision and the availability of the Final CCP and FONSI for Lacassine National Wildlife Refuge in Cameron and Evangeline Parishes, Louisiana. The CCP was prepared pursuant to the National Wildlife Refuge System Improvement Act of 1997, and in accordance with the National Environmental Policy Act of 1969, and describes how the refuge will be managed for the next 15 years.

ADDRESSES: A copy of the CCP/FONSI may be obtained by writing to: Lacassine National Wildlife Refuge, 1428 Highway 27, Bell City, Louisiana 70630; Telephone: 337/598–2216. The CCP/FONSI may also be accessed and downloaded from the Service's Web site: *http://southeast.fws.gov/planning/.*

FOR FURTHER INFORMATION CONTACT: Judy McClendon, Refuge Planner, at the address in the **ADDRESSES** section or by electronic mail at the following address: *judy_mcclendon@fws.gov.*

SUPPLEMENTARY INFORMATION:

Introduction: With this notice, we finalize the CCP process for Lacassine National Wildlife Refuge, begun as announced in the **Federal Register** (68 FR 2566; January 17, 2003). For more about the process, see that notice. We released the Draft CCP and Environmental Assessment (EA) to the public, announcing and requesting comments in a notice of availability in the **Federal Register** (71 FR 65832; November 9, 2006). Lacassine National Wildlife Refuge, established on December 30, 1937, is one of four refuges that makes up the Southwest Louisiana National Wildlife Refuge Complex. The 34,724-acre refuge is strategically located on the boundary of coastal marshes and agricultural habitats at the southern terminus of the Mississippi and Central Flyways, making the refuge critically important to migratory birds, especially wintering waterfowl.

With this notice, we announce our decision and the availability of the Final CCP/FONSI in accordance with the National Environmental Policy Act [40 CFR 1506.6(b)] requirements. We completed a thorough analysis of the environmental, social, and economic considerations, which we included in the Final CCP/FONSI. The FONSI documents the selection of Alternative B, the preferred alternative.

Alternatives and Preferred Alternative: The Draft CCP/EA identified and evaluated three alternatives for managing the refuge over the next 15 years. Alternative A, the no-action alternative, would have continued current management of the refuge. Alternative C would refocus management priority to actively investigating and extending the life/value of Lacassine Pool as a migratory bird sanctuary. We chose Alternative B (maximize refuge management capabilities in all programs) as our preferred alternative. This determination was made based on the

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(SAMPLE - Use of This Form Is Not Required)

Native Hawaiian Organization Notification List Registration Document
Provided for the Convenience of NHOs

****Organization Name** (optional - please translate any Hawaiian names to English as best as possible) ʻĀāĒēĪīŌōŪū

Is your organization a member of a larger parent organization? ◯ Yes ◯ No

If yes, please identify:

When was your organization established?

****Mailing Address (P.O. Box, Street, City, State, Zip Code)**

Telephone Number to be listed	Electronic Mail Address to be listed	World Wide Web address to be listed
Island of primary interest	Moku of primary interest	Ahupuaʻa of primary interest

Please summarize your organization's primary topical areas of interest related to Hawaiian culture, history, language, etc. Example: "We are interested in archaeology and anthropology. . . preserving historical places and identified ancient burials in our moku and collecting oral history from our kupuna." (Maximum: 525 characters)

****Please sign and date the following statement certifying that your group qualifies as a Native Hawaiian organization and giving the Department permission to list the information above.**

I/we the undersigned certify that I/we are the governing body for the organization listed above and request that the Office of Native Hawaiian Relations for the U.S. Department of the Interior list the information contained above. We also certify that the organization which I/we represent serves and represents the interests of Native Hawaiians; has as a primary and stated purpose the provision of services to Native Hawaiians; and has expertise in Native Hawaiian affairs.

Signature _____ Printed Name and Title _____ Date _____

Signature _____ Printed Name and Title _____ Date _____

Signature _____ Printed Name and Title _____ Date _____

(if more signature lines are needed, please continue on the back of this page)

****Denotes required field**. All others are optional.

To register, complete and send this form or such relevant information to the U.S. Department of the Interior, Office of Native Hawaiian Relations, P.O. Box 50165, Honolulu, Hawai'i 96813. If you have any questions, please call (808) 541-2693, ext. 723.

EXHIBIT 13

Preserving America's Heritage

October 25, 2018

Mr. Hakim Ouansafi
Executive Director
Hawaii Public Housing Authority
1002 North School Street
Honolulu, HI 96817

Ref: *Proposed Demolition and Redevelopment of the Mayor Wright Homes located on North Kukui Street Island of O'ahu, Hawaii*
ACHPConnect Log Number: 13262

Dear Mr. Ouansafi:

The Advisory Council on Historic Preservation (ACHP) has received your notification and supporting documentation regarding the adverse effects of the referenced undertaking on a property or properties listed or eligible for listing in the National Register of Historic Places. Based upon the information provided, we have concluded that Appendix A, *Criteria for Council Involvement in Reviewing Individual Section 106 Cases*, of our regulations, "Protection of Historic Properties" (36 CFR Part 800), does not apply to this undertaking. Accordingly, we do not believe that our participation in the consultation to resolve adverse effects is needed. However, if we receive a request for participation from the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (THPO), affected Indian tribe, a consulting party, or other party, we may reconsider this decision. Additionally, should circumstances change, and it is determined that our participation is needed to conclude the consultation process, please notify us.

Pursuant to 36 CFR §800.6(b)(1)(iv), you will need to file the final Memorandum of Agreement (MOA), developed in consultation with the Hawaii State Historic Preservation Officer (SHPO), and any other consulting parties, and related documentation with the ACHP at the conclusion of the consultation process. The filing of the MOA, and supporting documentation with the ACHP is required in order to complete the requirements of Section 106 of the National Historic Preservation Act.

Thank you for providing us with the notification of adverse effect. If you have any questions or require further assistance, please contact Anthony G. Lopez at (202) 517-0220 or by email at alopez@achp.gov.

Sincerely,

LaShavio Johnson

LaShavio Johnson
Historic Preservation Technician
Office of Federal Agency Programs

EXHIBIT 14

DAVID Y. IGE
GOVERNOR
1911013

HAKIM OUANSAFI
EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
19:OED/66

October 29, 2019

MEMORANDUM:

TO: The Honorable David Y. Ige
Governor, State of Hawaii

THROUGH: Pankaj Bhanot, Director
Department of Human Services Pankaj Bhanot.

FROM: Hakim Ouansafi, Executive Director
Hawaii Public Housing Authority

SUBJECT: Recommendation to the Governor as Agency Official Under Section 106 National Historic Preservation Act to Execute the Memorandum of Agreement Between the State of Hawaii, the Hawaii Public Housing Authority, the State Historic Preservation Officer, and MWH Partners, LLC Regarding the Demolition and Redevelopment of the Mayor Wright Homes Public Housing Development

REFERENCES:
HPHA 18:OED/32 Memorandum dated June 25, 2018
HPHA 18:OED/68 Memorandum dated October 26, 2018

Requested Action:

The Hawaii Public Housing Authority ("HPHA") respectfully recommends the Governor of the State of Hawaii, as the Agency Official under Section 106 of the Historic Preservation Act, take the following action:

Execute the Memorandum of Agreement Between the State of Hawaii, the Hawaii Public Housing Authority, the State Historic Preservation Officer, and MWH Partners, LLC Regarding the Demolition and Redevelopment of the Mayor Wright Homes Public Housing Development. See Tab 1.

Background and Purpose of the Request

In the Memorandum dated June 25, 2018 (18:OED/32) (attached under Tab 2), the HPHA stated that it is evaluating the potential redevelopment of the Mayor Wright Homes public housing development located at 521 North Kukui Street, Oahu, Honolulu Tax Map Key ("TMK") No. (1) 1-7-029:003 ("Site"). The overall redevelopment program would include applying to the U.S. Department of Housing and Urban Development ("HUD") to raze the existing structures and redevelop the site as a mixed-finance, mixed-use housing development (the "Project"). The proposed Project will total approximately 2,448 residential rental units; approximately two-thirds of which shall be affordable units, including the replacement of the existing 364 public housing units on site, on a one-for-one basis, with similarly deeply subsidized units. In addition, up to 80,000 square feet of commercial space is also proposed for the Project, which may include a mix of retail, office space, and community services to support the new residential units and complement the surrounding neighborhood.

As the HPHA plans to leverage federal funding for the proposed Project, the Project is required to comply with Section 106 of the National Historic Preservation Act of 1966 and Section 106, as amended ("NHPA"). The HPHA's June 25 memorandum requested the Agency Official to (i) declare the MWH project an "*Undertaking*" pursuant to 36 C.F.R. § 800.2 and (ii) authorize the HPHA, its development partner and their consultants to initiate and conduct consultation with the State Historic Preservation Officer ("SHPO") and other consulting parties as allowed under 36 C.F.R. § 800.2(a)(3). Additionally, because the Project will involve the demolition of the existing buildings on the Project site, which have been identified as eligible for listing on a historic register, the HPHA informed the Agency Official that the redevelopment will ultimately result in a determination of "adverse effect" with regard to historic architectural resources.

In the Memorandum dated October 26, 2018 (18:OED/68) (attached under Tab 3), the HPHA, based on its continued consultation with the SHPO and Historic Hawaii Foundation, recommended the Agency Official identify and apply a finding of "*Adverse Effect*" for the Mayor Wright Homes Redevelopment Project pursuant to 36 C.F.R. § 800.5(a)(1). This allowed the HPHA to continue the consultation process, determine mitigation to address and resolve the adverse effect, and memorialize the proposed mitigation in the form of a Memorandum of Agreement ("MOA") pursuant to 36 C.F.R. § 800.6 that the HPHA could recommend to the Agency Official for acceptance and execution.

After continued consultation with the SHPO and Historic Hawaii Foundation to consider mitigation measures to address the adverse effect determination, all parties agreed to appropriate mitigation measures which are set forth in the attached MOA. The HPHA is now presenting its recommendation to the Agency Official to accept and execute the attached MOA.

Once accepted and executed by the Agency Official, the executed MOA will be included in the Environmental Assessment for the Project being prepared pursuant to the National Environmental Protection Act to evidence Section 106 compliance. The HPHA,

on behalf of the Agency Official, will also file the final executed MOA and related supporting documentation with the Advisory Council on Historic Preservation ("ACHP") upon conclusion of the consultation process, pursuant to 36 C.F.R. § 800.6(b)(1)(iv), which will complete the NHPA compliance requirements required for the undertaking.

HPHA shall also provide a copy of this authorization to the SHPO.

Accordingly, the HPHA recommends the Governor, as the Section 106 Agency Official, execute the Memorandum of Agreement Between the State of Hawaii, the Hawaii Public Housing Authority, the State Historic Preservation Officer, and MWH Partners, LLC Regarding the Demolition and Redevelopment of the Mayor Wright Homes Public Housing Development under Tab 1.

As time is of the essence, the HPHA is transmitting this MOA with the scanned signature page (not an original) of the State Historic Preservation Officer, Dr. Alan Downer. MWH Partners, LLC (Hunt Development) has been unable to secure Dr. Downer's original signature page. Please note the HPHA will not distribute the MOA executed by the Governor to the other parties or the ACPH until the HPHA receives the original signature page from Dr. Downer.

When executing this agreement, please insert the date of your signature on page 1 of 19 of the MOA. This date will be the effective date of the MOA.

If you have any questions or concerns regarding this matter, please contact Hakim Ouansafi, Executive Director at (808) 832-4682.

[X] APPROVED [ ] DISAPPROVED

David Y. Ige

DAVID Y. IGE:
Governor, State of Hawaii

NOV 13 2019

Date:

Attachments:
TAB 1: Section 106 Memorandum of Agreement
TAB 2: HPHA 18:OED/32 Memorandum dated June 25, 2018 (w/o Attachments)
TAB 3: HPHA 18:OED/68 Memorandum dated October 26, 2018 (w/o Attachments)

MEMORANDUM OF AGREEMENT
BETWEEN
THE STATE OF HAWAII,
THE HAWAII PUBLIC HOUSING AUTHORITY,
THE STATE HISTORIC PRESERVATION OFFICER,
AND MWH PARTNERS, LLC
REGARDING THE DEMOLITION AND REDEVELOPMENT OF
THE MAYOR WRIGHT HOMES PUBLIC HOUSING DEVELOPMENT

THIS AGREEMENT ("Agreement") is made this 13th day of November, 2019 by and between the State of Hawaii as the Responsible Entity, by and through its Certifying Officer of the Responsible Entity, the Governor of the State of Hawaii ("Governor) as described below, the Hawaii Public Housing Authority, a public body corporate and politic ("HPHA"), the Hawaii State Historic Preservation Division, a division of the Department of Land and Natural Resources of the State of Hawaii ("SHPD") and MWH Partners, LLC, a Delaware limited liability company ("Developer") (collectively "Signatory Parties") for the purposes herein set forth.

RECITALS

WHEREAS, pursuant to 24 C.F.R. ("CFR") Part 58, the U.S. Department of Housing and Urban Development ("HUD") designated the State of Hawaii as the Responsible Entity, as defined in 24 CFR § 58.2(a)(7), for environmental reviews of HPHA public housing projects, and the Governor as the certifying officer of the Responsible Entity. Pursuant to 24 CFR §§ 58.4 and 58.5, the State of Hawaii, as the Responsible Entity, must assume responsibilities for environmental review, decision-making and action that would apply to HUD under the National Environmental Policy Act of 1969, as amended (42 U.S.C. § 4321 et seq.) ("NEPA"), Section 106 of the National Historic Preservation Act, as amended (54 U.S.C. § 306108, formerly 16 U.S.C. § 470f ("Section 106"), and Section 106 implementing regulations at 36 CFR Part 800. Accordingly, pursuant to 24 CFR §§ 58.5 and 58.13, as the Responsible Entity's Certifying Officer, the Governor is the "responsible Federal official" as that term is used in section 102 of NEPA, and the "Agency Official" as that term is used in Section 106 and 36 CFR Part 800. The Governor, as the Certifying Officer of the Responsible Entity and Section 106 Agency Official, hereby delegates authority to HPHA to implement and monitor this Agreement; and

WHEREAS, HPHA is the owner of a 364-unit public housing development located at 521 North Kukui Street in Honolulu, Hawaii, known as the Mayor Wright Homes, and more particularly located on the parcels described in the attached Exhibit A (the "Property"). The thirty-six buildings on the 14.8 acre Property were built in 1952 and have been determined to be functionally obsolete; and

WHEREAS, HPHA has determined that it can best meet the needs of existing tenants residing at the Property and provide additional housing to the surrounding community by entering into a public-private partnership with a private developer to redevelop the Property; and

WHEREAS, through a competitive bidding process, HPHA selected Developer to plan, pursue and

undertake redevelopment of the Property pursuant to the terms and conditions of that certain Master Development Agreement dated December 29, 2017 made by and between HPHA and Developer ("MDA"); and

WHEREAS, due to Developer's extensive involvement in project implementation, HPHA invited Developer to sign this Agreement as an Invited Signatory; and

WHEREAS, HPHA plans to apply to the HUD for permission to demolish the existing housing units located on the Property pursuant to Section 18 of the United States Housing Act of 1937, as amended ("Housing Act") (42 U.S.C. § 1437p). In addition, HPHA, together with Developer, intends to redevelop the Property into a mixed income development that will replace all of the demolished public housing with new public housing or other similarly deeply subsidized units, construct a significant number of affordable and market rate units, and build commercial/retail space. The demolition and redevelopment together shall be referred to herein as the "Project." The Project will be undertaken in multiple phases over an approximate 10-12 year overall development period and will utilize funds from HUD including but not limited to Project Based Vouchers authorized by Section 8 of the Housing Act (42 U.S.C. § 1437f), public housing capital or operating funds authorized by Section 9 of the Housing Act (42 U.S.C. § 1437g), and/or conversion assistance pursuant to the Rental Assistance Demonstration ("RAD") Program authorized by the Consolidated and Further Continuing Appropriations Act of 2012 and HUD Notice PIH-2012-32 (HA) REV-1 (July 2, 2013), as may be further amended. Due to the involvement of HUD and HUD funds for the Project, the Project is an undertaking subject to review under Section 106 and its implementing regulations, 36 CFR Part 800; and

WHEREAS, HPHA has defined the undertaking's architectural area of potential effect ("APE") as the area within the general boundaries of Austin Lane to the north, Lunalilo Freeway to the east, River Street to the south and Dillingham Boulevard and Iwilei Road to the west in Honolulu, Oahu (includes the project site and portions of Honolulu Tax Map Key (TMK) Nos. (1) 1-5-006; 1-5-007, 1-5-017, 1-6-001, 1-7-023, 1-7-026, 1-7-027, 1-7-029, 1-7-031, 1-7-032, 1-7-033, and 1-7-045 (see Exhibit B); and

WHEREAS, HPHA has defined the undertaking's archaeological APE as the 14.8 acre project footprint located at 521 North Kukui Street (Honolulu TMK No. (1) 1-7-029:003) (see Exhibit B); and

WHEREAS, the Governor, as the certifying official of the Responsible Entity and Agency Official under Section 106, has determined that the undertaking will have an adverse effect on the Property, which has been determined eligible for listing in the National Register of Historic Places, and through HPHA has consulted with SHPD under 36 CFR Part 800; and

WHEREAS, SHPD has reviewed and conditionally concurred with the evaluations and recommendations in the following referenced materials *Reconnaissance Level Survey for Mayor Wright Housing* and *Archaeological Inventory Survey of the Mayor Wright Homes Redevelopment Project Honolulu (Nu'uanu) Ahupua'a, Honolulu (Kona) District, O'ahu Island, Hawai'i TMK (1) 1-7-029:003* (May 2018); and

WHEREAS, in July 2018, HPHA and Developer prepared and delivered over 100 letters of invitation ("Invitation") and accompanying background materials describing the proposed undertaking to organizations and individuals with a potential interest in the proposed undertaking and its potential to affect historic properties including all Native Hawaiian Organizations identified on the *Native Hawaiian Organization Notification List* published by the U.S. Department of the Interior, and maintained by the Office of Native Hawaiian Relations, to identify any Native Hawaiian Organizations and/or Native Hawaiian descendants who may have ancestral lineal or cultural ties, knowledge, or religious attachment

or concerns regarding the proposed undertaking (See Exhibit C). Three parties responded to the Invitation and, of these, only the Historic Hawaii Foundation, a Hawaii nonprofit corporation ("Concurring Party") expressed a desire to participate in consultation as a consulting party; and

WHEREAS, HPHA and Developer have consulted with Concurring Party regarding the effects of the undertaking on historic properties and has invited them to sign this Agreement as a concurring party; and

WHEREAS, in accordance with 36 CFR § 800.6(a)(1), HPHA has notified the Advisory Council on Historic Preservation ("ACHP") of the Governor's adverse effect determination with specified documentation, and ACHP has chosen not to participate in the consultation pursuant to 36 CFR §800.6(a)(1)(iii) (see Exhibit D); and

NOW, THEREFORE, the State of Hawaii, by and through the Governor, in his capacity as Responsible Entity's Certifying Officer and the Section 106 Agency Official, HPHA, SHPD, and Developer agree that the undertaking shall be implemented in accordance with the following stipulations in order to take into account the effect of the undertaking on historic properties.

STIPULATIONS

I. DOCUMENTATION OF MAYOR WRIGHT HOMES COMPLEX

HPHA shall require Developer to consult with the National Park Service ("NPS") Historic American Buildings Survey ("HABS"), Historic American Engineering Record ("HAER") and Historic American Landscapes Survey ("HALS") (collectively "HHH") Coordinator in the Pacific West Regional Office as to the required type and level of HHH documentation and on the guidelines and protocols for HHH documentation submission.

HPHA shall require Developer to ensure that all HHH documentation activities will be performed or directly supervised by architects, historians, photographers and/or other professionals meeting the minimum qualifications in their field as specified in the Secretary of Interior's Professional Qualifications Standards ("Qualification Standards") as further defined in 36 CFR 61; Appendix A.

HPHA shall require Developer to provide to the NPS originals of all HHH documentation. The NPS-approved HHH documentation will then be digitally submitted to SHPD.

HPHA shall require Developer to receive NPS approval of the submitted HHH documentation ("NPS-Approved Documentation") prior to any demolition or construction activities.

HPHA shall require Developer to submit digital copies of NPS-approved Documentation to the following agencies and organizations for acceptance and retention in their permanent records:

- Hawaii State Archives
- University of Hawaii at Manoa
- Other local repositories available to the public and local community, such as the Liliha Public Library

II. PROJECT DESIGN REVIEW

A. HPHA shall invite SHPD and Concurring Party to participate in two internal design review meetings with HPHA, Developer and their architects, designers and consultants. One meeting shall be held during the schematic design phase and one meeting shall be held during the design development review phase of the Project. The two (2) design review meetings shall address potential issues or concerns to eligible historic properties with attention to establishing appropriate setbacks, bulk and mass envelopes, architectural detailing and articulation, and selected materials to minimize or mitigate potential adverse effect to directly adjacent eligible historic properties listed on Exhibit E ("Adjacent Eligible Properties") and to ensure consistent streetscape frontage transitions along commercial corridors of the Project, while respecting the existing scale and improvement features of adjacent Eligible Properties.

B. HPHA shall require Developer to deliver to SHPD Project plans for its review and comment prior to submitting Project plans for permit approval. SHPD shall agree to provide comments or concurrence with the Project plans submittal within fifteen (15) calendar days of receipt. If SHPD does not respond with comments or concurrence to the Project plans within fifteen (15) calendar days of delivery to SHPD, HPHA may assume SHPD's concurrence and move forward with the Project.

III. DOCUMENTARY FILM PRODUCTION FOR EDUCATIONAL PURPOSES

Prior to and during Project implementation, HPHA shall require Developer to produce a documentary film ("Documentary Film") recording the Mayor Wright Homes redevelopment effort and exploring and celebrating the unique history of Mayor Wright Homes to record and preserve its unique characteristics and significance with the Iwilei Kapalama community for future generations.

Documentary Film will be developed to be used for educational purposes as well as a documenting tool for the overall Project. Documentary Film shall include the following minimum parameters:

- Overall length of 10-20 minutes.
- At least two (2) oral histories of current or former Mayor Wright Homes residents
- Completed no later than 36 months after occupancy of Phase 1 of the Project.
- HPHA and Developer will present the Documentary Film at a public screening;
- Copies of the Documentary Film shall be distributed to the following agencies and organizations for acceptance and retention in their permanent records and where it may be made available for public access and viewing:
    - Hawaii State Archives
    - University of Hawaii at Mānoa
    - Historic Hawaii Foundation
    - Other local repository available to the public and local community, such as the Liliha Public Library

IV. COMMUNITY EDUCATION

A. HPHA shall require Developer to develop an interpretative plan that provides the framework for the content, design, manufacturing specifications and installation parameters for interpretive displays ("Interpretive Plan"). Interpretive Plan shall include the locations, dimensions, materials, general appearance and content of interpretive signs and displays. HPHA shall require Developer to use qualified professionals in architectural history and/or historic architecture to prepare Interpretive Plan.

Interpretive materials shall include:

- A summary of the Liliha/Palama neighborhood
- Native Hawaiian history within the Liliha/Palama neighborhood
- A summary of the historic aspects of Mayor Wright Homes and its significance as Public Housing community
- Identification of other eligible historic sites in the Liliha/Palama neighborhood and their significance to the community

B. HPHA shall require Developer to develop the Interpretive Plan through consultation with the signatories and Concurring Party, to include:

- HPHA shall distribute drafts of Interpretive Plan to Signatory Parties and Concurring Party during the preliminary, interim and pre-final stages of development of the Interpretive Plan for review and comment.

- Signatory Parties and Concurring Party shall agree to provide written comments to the drafts of the Interpretive Plan within 30 calendar days of receipt of the drafts. Any Signatory Party or Concurring Party may request a meeting to discuss the materials within the 30 calendar day review period.

- HPHA shall require Developer to address any comments received to the Interpretive Plan.

- HPHA shall require Developer to provide electronic copies of the final Interpretative Plan to Signatory Parties and Concurring Party within 60 calendar days of completion. ("Final Interpretive Plan").

C. Prior to construction completion of each phase of the Project, HPHA shall require Developer to construct and install interpretive materials in accordance with the Final Interpretative Plan. HPHA shall require Developer to design, manufacture and install no fewer than five (5) historic interpretive signs and displays in accordance with the Final Interpretive Plan by the time of occupancy of Phase 1 of Project.

V. PROJECT CONSTRUCTION

Prior to commencement of construction of each phase of the Project, HPHA shall require Developer

to complete a pre-construction inspection survey ("Inspection Survey") of the Eligible Properties to document baseline conditions for those Eligible Properties and to retain a Historic Architect who meets the Qualifications Standards to complete Inspection Survey.

Prior to commencement of construction of each phase of the Project, HPHA shall require Developer to submit a Noise and Vibration Control Plan, for implementing noise and vibration control measures to address protection measures prior to the commencement of any construction near the Eligible Properties. Suggested Noise and Vibration control measures shall include:

- The use of original equipment manufacturer (OEM) or high-performance mufflers on excavating and drilling equipment.
- Construction machinery to be regularly inspected and maintained.
- Machinery in use on-site will be limited to the minimum necessary.
- Noisier activities to be completed off-site until infeasible or impossible.
- Proper machinery usage and power to be employed – no machinery overkill.
- Noise barriers and machinery enclosures to be used where feasible.
- Spatial elements of adjacent historic buildings.

VI. ARCHAEOLOGICAL MONITORING OF GROUND DISTURBING ACTIONS

Prior to commencement of construction of the Project, HPHA shall require Developer to prepare and submit to SHPD for its review and approval an Archaeological Monitoring Plan ("Approved AMP") meeting the requirements of Hawaii Administrative Rules ("HAR") §13-279-4. All ground-disturbing work shall proceed in accordance with Approved AMP.

VII. POST-REVIEW DISCOVERIES

In the event that non-burial historic properties (e.g., cultural deposit, artifact concentration) or human burial or skeletal remains are encountered following completion of archaeological monitoring, HPHA shall require Developer to cease all work, secure the find, and promptly notify SHPD. In the case of human remains, HPHA shall require the developer to also notify the Honolulu Police Department. HPHA shall require Developer to comply with HAR Chapter 13-280 and SHPD directives for the documentation and treatment for non-burial historic properties, and to comply with HRS 6E-43.6, HAR § 13-300-40, and SHPD directives for the documentation and treatment of human burial or skeletal remains.

VIII. MONITORING AND REPORTING

Each year following the execution of this Agreement, until it expires or is terminated, HPHA shall require Developer to provide Signatory Parties and Concurring Party a summary written report detailing work undertaken with respect to the Project, scheduling changes proposed that may materially affect the overall timing or schedule of the Project, problems encountered including any adverse effect to Eligible Properties or other obligations hereunder. A meeting to discuss the annual report or any implementation item will be held at the request of any Signatory Party or Concurring Party to facilitate review and comment of the annual report, to resolve questions, or to resolve adverse conditions.

IX. DURATION

If the terms of this Agreement have been fully implemented by twelve (12) years from the date of the execution of this Agreement, or HPHA's receipt of certificate of occupancy for the final phase of the Project, this Agreement will terminate. Prior to termination of the Agreement, HPHA, at its sole discretion may, or may require Developer to, consult with the other Signatory Parties and Concurring Party to review the terms of the Agreement and amend the Agreement in accordance with Stipulation XI below. In the event the terms of this Agreement have not been fully implemented by twelve (12) years from the date of the execution of this Agreement, HPHA shall notify Signatory Parties and Concurring Party, and if, in its sole discretion, it chooses to continue with the undertaking, shall re-initiate review of the undertaking in accordance with 36 CFR Part 800.

X. DISPUTE RESOLUTION

Should any Signatory Party or Concurring Party to this Agreement, with the exception of Developer, object at any time to any actions proposed or the manner in which the terms of this Agreement are implemented, HPHA shall bring the matter to the Governor, including HPHA's recommendation and proposed resolution, and with the Governor's approval, consult with such party to resolve the objection. If HPHA determines that such objection cannot be resolved, HPHA will:

A. Forward all documentation relevant to the dispute, including HPHA's proposed resolution, to the Governor, and upon the Governor's approval, forward same to ACHP on behalf of the Governor. ACHP shall provide HPHA with its advice on the resolution of the objection within thirty (30) calendar days of receiving adequate documentation. Prior to reaching a final decision on the dispute, HPHA shall prepare a written response for the Governor's approval that takes into account any timely advice or comments regarding the dispute from ACHP, Signatory Parties and Concurring Party, and provide them with a copy of this written response. HPHA will proceed according to the Governor's final decision.

B. If ACHP does not provide its advice regarding the dispute within the thirty (30) calendar day time period, HPHA may proceed according to the Governor's final decision.

C. Any terms of this Agreement that are not subject to dispute shall remain unchanged and in full force and effect.

XI. AMENDMENTS

This Agreement may be amended when such an amendment is agreed to in writing by all Signatory Parties and Concurring Party. Such amendment shall be effective the date such amendment is executed by Signatory Parties and Concurring Party and delivered electronically to the ACHP.

XII. TERMINATION

If any Signatory Party to this Agreement, other than Developer, determines that its terms will not or cannot be carried out, that party shall immediately consult with the other signatories, Invited Signatory and Concurring Party to attempt to develop an amendment per Stipulation XI, above. If within thirty (30) calendar days an amendment cannot be reached, any signatory may terminate the Agreement upon written notification to the other signatories.

Once the Agreement is terminated, and prior to work continuing on the undertaking, HPHA must either execute an agreement pursuant to 36 CFR § 800.6 or request, take into account, and respond to comments of ACHP under 36 CFR § 800.7; provided, however, nothing herein shall be construed to require HPHA to halt construction and related activities proceeding in accordance with this Agreement initiated prior to the termination of this Agreement. HPHA shall notify the signatories of action it will pursue. Any new agreement pursuant to 36 CFR § 800.6 or action based under 36 CFR § 800.7 shall apply solely to activities initiated after the termination of this Agreement.

Execution of this Agreement by HPHA and SHPD and implementation of its terms evidence HPHA has taken into account the effects of the undertaking on historic properties.

XIII. MISCELLANEOUS

A. Formal notices and communication between Signatory Parties or Concurring Party shall be sufficiently given if, and shall not be deemed given unlesssent to the e-mail addresses of the signatories shown as follows, or such other address as the signatory may designate in writing from time to time:

STATE OF HAWAII:
The Honorable David Y. Ige
Governor of the State of Hawaii
Office of the Governor, State of Hawaii
415 S. Beretania Street, Honolulu, HI 96813
Attention: Sara Lin, Senior Special Assistant
E-mail address: sara.n.lin@hawaii.gov

HPHA:
Hawaii Public Housing Authority
1002 North School Street
Honolulu, HI 96817
Attention: Hakim Ouansafi, Executive Director
E-mail address: hakim.ouansafi@hawaii.gov

SHPD:
Ms. Suzanne Case, Chairperson and State Historic Preservation Officer
Hawai'i Department of Land and Natural Resources
601 Kamokila Boulevard, Suite 555
Kapolei, HI 96707
Attn: Dr. Alan Downer, Deputy State Historic Preservation Officer
E-mail address: alan.s.downer@hawaii.gov

Developer:
MWH Partners, LLC
1188 Bishop Street, Suite 2212
Honolulu, HI 96813
Attention: Steve Colon, President
E-mail address: Steve.Colon@HuntCompanies.com

HHF:
Historic Hawaii Foundation
680 Iwilei Road, Ste. 690
Honolulu, HI 96817
Attn: Kiersten Faulkner, Executive Director
Email address: kiersten@historichawaii.org

B. This Agreement may be executed in counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same agreement.

C. Notwithstanding anything to the contrary herein, the duties and obligations of Developer under this Agreement shall be binding on all Housing Owners and Commercial Owners, as such terms are defined in the MDA, through incorporation by reference in DDAs to be entered into in accordance with the MDA and the Authority Closing Documents as such terms are defined in the MDA. However, nothing in this Agreement shall be construed to limit the HPHA's right to terminate the Developer under the MDA pursuant to the MDA or to limit the HPHA's right to determine that any Housing Owner or Commercial Owner is in default under the Authority Closing Documents pursuant to the terms of the Authority Closing Documents.

[signature page follows]

SIGNATORIES:

State of Hawaii (Responsible Entity)

By: _____
David Y. Ige
Governor, State of Hawaii
Certifying Officer of Responsible Entity
Section 106 Agency Official

Date: NOV 13 2019

APPROVED AS TO FORM:

By: _____
Deputy Attorney General of the State of Hawaii

Date: 9/5/19

Hawaii Public Housing Authority,
a public body and a body corporate and politic
of the State of Hawaii

By: _____
Hakim Ouansafi
Executive Director

Date: 9/6/2019

APPROVED AS TO FORM:

By: _____
Deputy Attorney General of the State of Hawaii

Date: 9/3/2019

Hawaii State Historic Preservation Division

By: _____
Dr. Alan Downer
Deputy State Historic Preservation Officer

Date: _____

INVITED SIGNATORY:

MWH Partners, LLC,
a Delaware limited liability company

By: _____
Steve Colon
President

Date: _____

CONCURRING PARTY:

Historic Hawaii Foundation,
a Hawaii nonprofit corporation

By: _____
Kiersten Faulkner
Executive Director

Date: _____

SIGNATORIES:

State of Hawaii (Responsible Entity)

By: _____
David Y. Ige
Governor, State of Hawaii
Certifying Officer of Responsible Entity
Section 106 Agency Official

Date: _____

APPROVED AS TO FORM:

By: _____
Deputy Attorney General of the State of Hawaii

Date: _____

Hawaii Public Housing Authority,
a public body and a body corporate and politic
of the State of Hawaii

By: _____
Hakim Ouansafi
Executive Director

Date: _____

APPROVED AS TO FORM:

By: _____
Deputy Attorney General of the State of Hawaii

Date: _____

Hawaii State Historic Preservation Division

By: _____
Dr. Alan Downer
Deputy State Historic Preservation Officer

Date: 9.9.19

INVITED SIGNATORY:

MWH Partners, LLC,
a Delaware limited liability company

By: _____
Steve Colon
President

Date: _____

CONCURRING PARTY:

Historic Hawaii Foundation,
a Hawaii nonprofit corporation

By: _____
Kiersten Faulkner
Executive Director

Date: _____

SIGNATORIES:

State of Hawaii (Responsible Entity)

By: _____
David Y. Ige
Governor, State of Hawaii
Certifying Officer of Responsible Entity
Section 106 Agency Official

Date: _____

APPROVED AS TO FORM:

By: _____
Deputy Attorney General of the State of Hawaii

Date: _____

Hawaii Public Housing Authority,
a public body and a body corporate and politic
of the State of Hawaii

By: _____
Hakim Ouansafi
Executive Director

Date: _____

APPROVED AS TO FORM:

By: _____
Deputy Attorney General of the State of Hawaii

Date: _____

Hawaii State Historic Preservation Division

By: _____
Dr. Alan Downer
Deputy State Historic Preservation Officer

Date: _____

INVITED SIGNATORY:

MWH Partners, LLC,
a Delaware limited liability company

By: _____
Steve Colon
President

Date: 09/12/19

CONCURRING PARTY:

Historic Hawaii Foundation,
a Hawaii nonprofit corporation

By: _____
Kiersten Faulkner
Executive Director

Date: _____

SIGNATORIES:

State of Hawaii (Responsible Entity)

By: _____
David Y. Ige
Governor, State of Hawaii
Certifying Officer of Responsible Entity
Section 106 Agency Official

Date: _____

APPROVED AS TO FORM:

By: _____
Deputy Attorney General of the State of Hawaii

Date: _____

Hawaii Public Housing Authority,
a public body and a body corporate and politic
of the State of Hawaii

By: _____
Hakim Ouansafi
Executive Director

Date: _____

APPROVED AS TO FORM:

By: _____
Deputy Attorney General of the State of Hawaii

Date: _____

Hawaii State Historic Preservation Division

By: _____
Dr. Alan Downer
Deputy State Historic Preservation Officer

Date: _____

INVITED SIGNATORY:

MWH Partners, LLC,
a Delaware limited liability company

By: _____
Steve Colon
President

Date: _____

CONCURRING PARTY:

Historic Hawaii Foundation,
a Hawaii nonprofit corporation

By: Kiersten Faulkner
Kiersten Faulkner
Executive Director

Date: 9/9/19

EXHIBIT A

Legal Property Description

All of that certain parcel of land (being portions of the land(s) described in and covered by Royal Patent (none), Land Commission Award Number 8525-B to Julia Alapai Kauwa; Royal Patent Number 4423, Land Commission Award Number 605, Apana 2 to Kalunaaina no Lupe; Royal Patent Number 1982, Land Commission Award Number 1285, Apana 4 to W. Kaluau; Royal Patent Number 5572, Land Commission Award Number 2072, Apana 3 to Kapaalua; Royal Patent Number 4423, Land Commission Award Number 605, Apana 3 to Kalunaaina no Lupe; Land Patent Number 8293, Land Commission Award Number 8520, Apana 1, Part 3 to Iosua Kaeo; Land Patent Number 8197, Land Commission Award Number 8520, Apana 1 to Iosua Kaeo; Royal Patent Number 4528, Land Commission Award Number 2107, Apana 2 to Kahina; Land Patent Grant Number 9375 to Hattie K. Vivichaves; Royal Patent (none), Land Commission Award Number 6236 to Kaaiawaawa; Royal Patent Grant Number 2065 to Napehe; Land Patent Number 8239, Land Commission Award Number 640 to Kamahalo; Royal Patent Number 5553, Land Commission Award Number 1405, Apana 4 to Pihiliilii; Royal Patent Number 1226, Land Commission Award Number 933, Apana 3 to Kamae; Royal Patent Number 2102, Land Commission Award Number 2 F.L. to Kamoku; Royal Patent Number 2684, Land Commission Award Number 3 F.L. to Kapo; Royal Patent Grant Number 2063 to Panio; Royal Patent Grant Number 2346, Apana 2 to Kaona; and being all of the land(s) described in and covered by Royal Patent Number 5553, Land Commission Award Number 1405, Apana 1 to Pihiliilii; Royal Patent Number 4393, Land Commission Award Number 1078 to Naili no Kanui; Royal Patent Number 4528, Land Commission Award Number 2107, Apana 1 to Kahina; Royal Patent Number 2681, Land Commission Award Number 1362 to Naholowaa no Hoa; Royal Patent Number 7446, Land Commission Award Number 8613, Apana 2 to Keonekapu; Royal Patent Number 1226, Land Commission Award Number 933, Apana 2 to Kamae; Royal Patent Number 5610, Land Commission Award Number 4747, Apana 2 to Kama; and Royal Patent Number 4518, Land Commission Award Number 25 F.L. to Kukui) situate, lying and being at Hauhaukoi, Kapahaha, Keoneula, Kahawali, Koiuiu, Aala and Kuaiula, City and County of Honolulu, State of Hawaii, being PROJECT NO. HA-1-3, formerly identified as PROJECT TH-1-3 of the HAWAII HOUSING AUTHORITY, MAYOR WRIGHT HOMES, bearing Tax Key designation (1) 1-7-029-003, and containing an area of 646,654 square feet, more or less.

The above described parcel of land comprising, as a part thereof, all of the lands covered by each of the following Land Court Applications, filed in the Land Court of the State of Hawaii, and all of the lands described in each of the following Transfer Certificate of Title of the said Land Court issued to HAWAII PUBLIC HOUSING AUTHORITY, as follows:

(A) Land Court Application No. 836 of Henry Atkinson Nye, Map 1, Transfer Certificate of Title No. 26,705;

(B) Land Court Application No. 1192 of Union Trust Company,Limited, LOTS 1 and 3 as shown on Map 2, Transfer Certificate of Title No. 26,706;

(C) Land Court Application No. 126 of John Vivichaves, Map 1, Transfer Certificate of Title No. 26,707;

(D) Land Court Application No. 667 of Annie K. Wong Leong, Map 1, Transfer Certificate of Title No. 26,746;

(E) Land Court Application No. 170 of Bernhard Rudolph Banning, LOTS 1-A and 2-A as shown on Map 2, Transfer Certificate of Title No. 26,747;

(F) Land Court Application No. 463 of William Kahlbaum, Map 1, Transfer Certificate of Title No. 26,748; and

Said above described parcel(s) of land having been acquired by HAWAII PUBLIC HOUSING AUTHORITY, a public body and a body corporate and politic of the State of Hawaii, as follows:

1. By FINAL ORDER OF CONDEMNATION had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated October 27, 1942, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16655, Proceedings in Eminent Domain, on October 27, 1942, recorded in the Bureau of Conveyances in Liber 1733 at Page 123;

2. By FINAL ORDER OF CONDEMNATION AS TO PARCEL 10 had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated October 7, 1941, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16407, Proceedings in Eminent Domain, on October 8, 1941, recorded in the Bureau of Conveyances in Liber 1682 at Page 17;

3. By FINAL ORDER OF CONDEMNATION AS TO PARCEL 14 had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated October 7, 1941, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16407, Proceedings in Eminent Domain, on October 8, 1941, recorded in the Bureau of Conveyances in Liber 1682 at Page 5;

4. By FINAL ORDER OF CONDEMNATION AS TO PARCEL 15 had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated March 31, 1942, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16407, Proceedings in Eminent Domain, on March 31, 1942, recorded in the Bureau of Conveyances in Liber 1712 at Page 137;

5. By FINAL ORDER OF CONDEMNATION had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated October 6, 1941, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16386, Proceedings in Eminent Domain, on October 8, 1941, recorded in the Bureau of Conveyances in Liber 1682 at Page 21;

6. By FINAL ORDER OF CONDEMNATION AS TO PARCEL 20 had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated October 7, 1941, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16407, Proceedings in Eminent Domain, on October 8, 1941, recorded in the Bureau of Conveyances in Liber 1682 at Page 13;

7. By FINAL ORDER OF CONDEMNATION AS TO PARCELS 21 AND 21-A had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated July 31, 1942, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16407, Proceedings in Eminent Domain, on August 3, 1942, recorded in the Bureau of Conveyances in

Liber 1733 at Page 296;

8. By FINAL ORDER OF CONDEMNATION AS TO PARCEL 22 had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated October 7, 1941, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16407, Proceedings in Eminent Domain, on October 8, 1941, recorded in the Bureau of Conveyances in Liber 1682 at Page 9;

9. By FINAL ORDER OF CONDEMNATION AS TO PARCEL 23 had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated October 7, 1941, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16407, Proceedings in Eminent Domain, on October 8, 1941, recorded in the Bureau of Conveyances in Liber 1679 at Page 495;

10. By FINAL ORDER OF CONDEMNATION AS TO PARCEL 24 had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated October 7, 1941, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16407, Proceedings in Eminent Domain, on October 8, 1941, recorded in the Bureau of Conveyances in Liber 1682 at Page 1;

11. By FINAL ORDER OF CONDEMNATION AS TO PARCELS 25 AND 25-A had in the matter of the HAWAII HOUSING AUTHORITY, a public body and a body corporate and politic, dated July 31, 1942, filed in the Circuit Court of the First Circuit, Territory of Hawaii, Law No. 16407, Proceedings in Eminent Domain, on August 3, 1942, recorded in the Bureau of Conveyances in Liber 1733 at Page 303;

12. By DEED of the TERRITORY OF HAWAII dated August 20, 1942, recorded in Liber 1710 at Page 80;

13. By EXCHANGE DEED of THE CITY AND COUNTY OF HONOLULU, a municipal corporation of the Territory of Hawaii, dated April 2, 1952, recorded in Liber 2599 at Page 157; and

14. By QUITCLAIM DEED of the STATE OF HAWAII dated July 10, 1986, recorded in Liber 19657 at Page 159 (L.O.D. S-27576) and filed as Land Court Document No. 1384263.

All of that certain parcel of land situate at Kahawali, Honolulu, Oahu, City and County of Honolulu, State of Hawaii, described as follows:

LOT 2, area 4,522 square feet, more or less, as shown on Map 2, filed in the Office of the Assistant Registrar of the Land Court of the State of Hawaii with Land Court Application No. 1192 of Union Trust Company, Limited.

Being land(s) described in Transfer Certificate of Title No. 284,424 issued to HAWAII PUBLIC HOUSING AUHTORITY, a public body and body corporate and politic of the State of Hawaii.

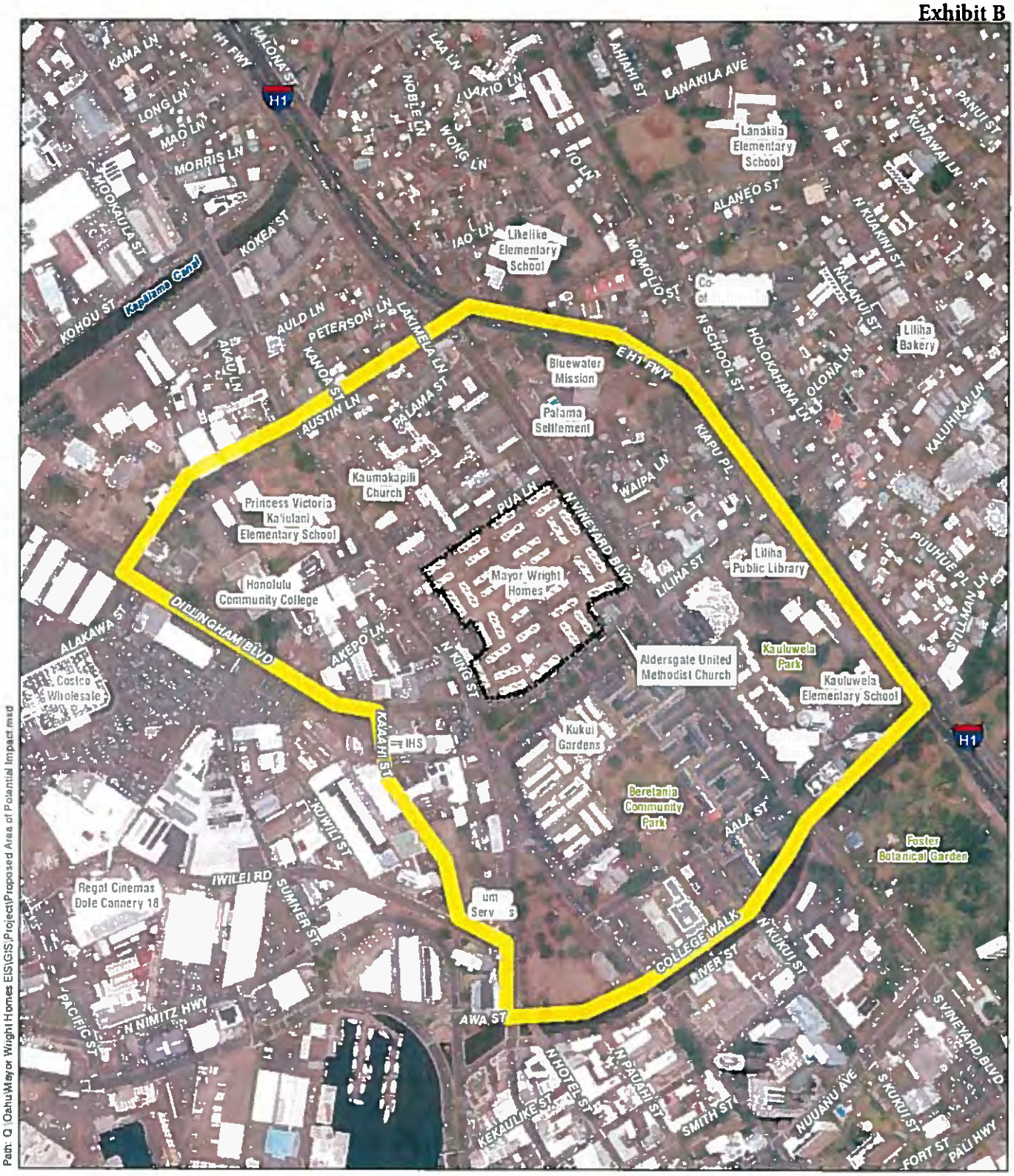
Said above described parcel of land having been acquired by HAWAII PUBLIC HOUSING AUTHORITY, a public body and body corporate and politic of the State of Hawaii, as follows:

1. By QUITCLAIM DEED of the STATE OF HAWAII dated July 10, 1986, recorded in Liber 19657 at Page 159 (L.O.D. S-27576) and filed as Land Court Document No. 1384263.

EXHIBIT B

Map of Architectural & Archeological APE

Exhibit B



Path: O:\Oahu\Mayor Wright Homes EIS\GIS\Project\Proposed Area of Potential Impact.mxd

LEGEND

Architectural APE

Archeological APE / MWH Site

Proposed Area of Potential Effect
Mayor Wright Homes

Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)
0 350 700

Source: Geographic Information System (GIS), ESRI World Street Map, 2016.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.

EXHIBIT C

Native Hawaiian Organization Notification List

	PREFIX	FIRST	LAST	SUFFIX	TITLE	AGENCY	DEPARTMENT	ADDRESS 1	ADDRESS 2	CITY	STATE	ZIP	PHONE	EMAIL	WEBSITE
NHO - DOI															
'Aha Kāne	Mr.	G. Umi	Kai		President	'Aha Kāne		P.O. Box 31303		Honolulu	HI	96820-1303	(808) 840-5510	umikai@ahakane.org	www.ahakane.org
Aha Kukaniloko Koa Mana mea ola kanaka mauli	Mr.	Thomas Joseph	Lenchanko			Aha Kukaniloko Koa Mana mea ola kanaka mauli		931 Uakanikoo Street		Wahiawa	HI	96786	(808) 349-9949	tlenchanko1@hawaii.rr.com	
Aha Moku o Kahikinui	Ms.	Donna D.	Sterling		Aha Moku Representa	Aha Moku o Kahikinui		P.O. Box 700		Makawao	HI	96768	(808) 446-4171	ahiekunihi@yahoo.com	
Aha Moku o Maui Inc.	Mr.	Ke'eaumoku	Kapu		Chief Executive Office	Aha Moku o Maui Inc.		P.O. Box 11524		Lahaina	HI	96761	(808) 250-1479	kapukapuaka@gmail.com	www.ahamoku.org/index.php/mauiinq-hono-ao-p
Aha Wahine	Ms.	Linda Kaleo	Paik			Aha Wahine		98-070 Lokowai Street		Aiea	HI	96701	(808) 354-7765	kaleopaik@yahoo.com	
'Ahahui Siwila Hawai'i O Kapōlei	Ms.	Rona	Rodenhurst		President	'Ahahui Siwila Hawai'i O Kapōlei		P.O. Box 700007		Kapolei	HI	96709	(808) 681-5076	kapoleihcc@gmail.com	www.kapoleihcc.com
Ahupua'a o Moloka'i	Ms.	Kammy	Purdy		President	Ahupua'a o Moloka'i		P.O. Box 159		Hoolehua	HI	96729	(808) 658-0444	kammypurdy@ahupuaamolokai.org	www.ahupuaamolokai.org
Aloha First	Mr.	Dennis	Kanahele		CEO	Aloha First		P.O. Box 701		Waimanalo	HI	96795-0701	(808) 551-5056	puuhonua13@gmail.com	www.alohafirst.com
Association of Hawaiian Civic Clubs	Ms.	Annelle	Amaral		President	Association of Hawaiian Civic Clubs		P.O. Box 1135		Honolulu	HI	96807		acamaral@yahoo.com	www.aohcc.org
Association of Hawaiians for Homestead Lands	Ms.	Blossom	Feiteira		President	Association of Hawaiians for Homestead Lands		2149 Lauwiliwili St., Ste. 200		Kapolei	HI	96707	(808) 446-5572	info@ahhl.org	www.ahhl.org
Au Puni O Hawaii	Mr.	Samson L.	Brown		President	Au Puni O Hawaii		21 Pohai Street		Hilo	HI	96720	(808) 315-2141	apohi21@gmail.com	
Brian Kaniela Nae'ole Naauao	Mr.	Brian Kaniela Nae'ole	Naauao					477 South Kamehameha Avenue		Kahului	HI	96732	(808) 264-1231	naeolephang5@yahoo.com	
Charles Pelenui Mahi Ohana	Ms	Maydean K.	Bowman		Representative	Charles Pelenui Mahi Ohana		P.O. Box 44692		Kawaihae	HI	96743	(808) 882-1486		
Council for Native Hawaiian Advancement	Mr.	Napali	Woode		Senior Vice President	Council for Native Hawaiian Advancement		2149 Lauwiliwili St., Ste. 200		Kapolei	HI	96707	(808) 596-8155	info@hawaiiancouncil.org	www.hawaiiancouncil.org
Friends of 'Iolani Palace	Mr.	Kippen	de Alba Chu		Executive Director	Friends of 'Iolani Palace		P.O. Box 2259		Honolulu	HI	96804-2259	(808) 522-0822	info@iolanipalace.org	www.iolanipalace.org
Friends of Moku'ula, Inc.	Ms	Blossom	Feiteira		Executive Director	Friends of Moku'ula, Inc		505 Front Street, Suite 221		Lahaina	HI	96761	(808) 661-3659	blossom@mokuula.com	www.mokuula.com
George K. Cypher 'Ohana	Ms	Mahealani	Cypher		Descendant	George K. Cypher 'Ohana		c/o Denise DeCosta	45-342 Lilipuna Road #308	Kaneohe	HI	96744	(808) 226-4195	jhd6@hawaii.edu	
God's Country Waimanalo	Ms	Ilima	Ho-Lastimosa		Executive Director	God's Country Waimanalo		P.O. Box 723		Waimanalo	HI	96795	(808) 499-5055	godscountrywaimanalo@gmail.com	http://godscountrywaimanalo.weebly.com
Hau'ouiwi Homestead Association on Lāna'i	Ms	Winifred	Basques		Director	Hau'ouiwi Homestead Association on Lāna'i		P.O. Box 630521		Lāna'i City	HI	96743	(808) 565-6871	winniejbjr@yahoo.com	
Hawaiian Civic Club of Hilo	Ms	Antoinette K.	Mallow		Pelekikena	Hawaiian Civic Club of Hilo		P.O. Box 592		Hilo	HI	96721	(808) 895-5139	mallow@hawaii.edu	
Hawaiian Civic Club of Wahiawa	Ms	Maria "Malia"	Doo		President	Hawaiian Civic Club of Wahiawa		95-524 Wehewehe Loop		Mililani	HI	96789	(808) 625-7551		
Hawaiian Community Assets, Inc.	Mr.	Jeff	Gilbreath		Executive Director	Hawaiian Community Assets, Inc.		200 N. Vineyard Blvd., #A300		Honolulu	HI	96817	(808) 587-7886	info@hawaiiancommunity.net	www.hawaiiancommunity.net
Ho Ohana	Ms	Ilima	Ho-Lastimosa		4th Generation	Ho Ohana		41-727 Ala Koa Street		Waimanalo	HI	96795	(808) 259-7598		
Ho'okano Family Land Trust	Ms	Dawn N. S.	Chang		Chair	Ho'okano Family Land Trust		c/o 1003 Bishop Street, Suite 2750		Honolulu	HI	96813	(808) 539-3583	dnschang@kuwaiu.com	
Hui Huliau Inc.	Mr.	Adrian Nakea	Silva		Chairman	Hui Huliau Inc.		P.O. Box 587		Waianae	HI	96792	(808) 216-4241	admin@huihuliau.com	www.huihuliau.com
Hui Kaleleiki Ohana	Ms	Jaynie I	Stone		Ka Mea Mookuauhau	Hui Kaleleiki Ohana		1091 Lunaanela Street		Kailua	HI	96734	(808) 381-7544	jaynestone@gmail.com	
Hui Mālama Ola Nā 'Ōiwi	Ms	Michelle Malia	Hiraishi		Executive Director	Hui Mālama Ola Nā 'Ōiwi		69 Railroad Ave., Suite A-3		Hilo	HI	96720	(808) 969-9220	michelle@huimalamahawaii.com	www.huimalamaolanaoiwi.org
Imua Hawaii	Ms	Keali'i	Lopez		President	Imua Hawaii		P.O. Box 1811		Honolulu	HI	96805		imuahawaiinow@gmail.com	www.imuahawaii.org
Kaha I Ka Panoa Kaleponi Hawaiian Civic Club	Ms	Sharon K.	Paulo		President	Kaha I Ka Panoa Kaleponi Hawaiian Civic Club		P.O. Box 9817		Moreno Valley	CA	92552	(951) 575-5772	kuupofrom2ndroad@ymail.com	
Kākoʻo ʻŌiwi	Mr.	Kanekoa	Kukea-Shultz		Executive Director	Kākoʻo ʻŌiwi		46-005 Kawa Street #104		Kaneohe	HI	96744	(808) 741-3403	kanekoaks@gmail.com	www.kakoooiwi.org
Kalaeloa Heritage and Legacy Foundation	Ms.	Melissa M.	Lyman		President	Kalaeloa Heritage and Legacy Foundation		P.O. Box 700012		Kapolei	HI	96709	(808) 291-0842	info@khlfoundation.org	www.khlfoundation.org
Kalama'ula Homesteaders Association	Ms.	Gayla M.	Hatiniak-Lloyd		President	Kalama'ula Homesteaders Association		P.O. Box 1025		Kaunakakai	HI	96748	(808) 646-0080	kalamaula@live.com	
Kalihi Palama Hawaiian Civic Club	Ms.	Leimomi	Khan		President	Kalihi Palama Hawaiian Civic Club		c/o 1288 Kapiolani Boulevard, Unit 1905		Honolulu	HI	96814	(808) 372-0630	mkhan@hawaiiintel.net	
Kamealoha	Mr.	Thomas	Kamealoha		Cultural Monitor	Kamealoha		84-1035 Kaulaili Road #A		Waianae	HI	96795	(808) 692-3153	alikona82@gmail.com	
Kamehameha Schools - Community Relations and Communications Group, Government Relations	Ms.	Pilani	Hanohano		Government Relations	Kamehameha Schools - Community Relations and Communications Group, Government Relations		567 South King Street, Suite 400		Honolulu	HI	96813	(808) 523-6368	pihanoha@ksbe.edu	www.ksbe.edu
Kamiloloa One Ali'i Homestead Association	Ms.	Vivian L.	Ainoa		President	Kamiloloa One Ali'i Homestead Association		P.O. Box 1349		Kaunakakai	HI	96748	(808) 553-5186	vgniginca@yahoo.com	
Kanu o ka 'Āina Learning 'Ohana	Ms.	Taffi	Wise		Executive Director	Kanu o ka 'Āina Learning 'Ohana		P.O. Box 6511		Kamuela	HI	96743	(808) 887-1117	taffi@kalo.org	www.kalo.org
Kapolei Community Development Corporation	Mr.	Joseph Kūhiō	Lewis		President	Kapolei Community Development Corporation		P.O. Box 75658		Kapolei	HI	96707	(808) 389-2006	joe96817@gmail.com	www.kapoleicdc.org
Kauwahi 'Anaina Hawai'i Hawaiian Civic Club	Ms.	Carol N.	Johnson		President	Kauwahi 'Anaina Hawai'i Hawaiian Civic Club		P.O. Box 50808		Provo	UT	84605	(801) 857-0056	nalanijohnson@yahoo.com	
Kawaihapai Ohana	Mr.	Thomas T.	Shirai	Jr.	Po'o	Kawaihapai Ohana		P.O. Box 601		Waialua	HI	96791	(808) 637-4690	kawaihapai@hawaii.rr.com	
Ke One O Kakuhihewa	Mr.	Roth	Puahala		President	Ke One O Kakuhihewa		P.O. Box 37874		Honolulu	HI	96837-1122		rkpuahala@yahoo.com	www.mokupukakuhihewa.org
Kingdom of Hawai'i	Mr.	Dennis W.	Ragsdale		Advocate General	Kingdom of Hawai'i		1777 Ala Moana Blvd. #142-102		Honolulu	HI	96815-1603	(808) 235-2425	kingdom@pui.com	www.kingdom-hawaii.org
Ko'olau Foundation	Ms.	Mahealani	Cypher		Secretary	Ko'olau Foundation		P.O. Box 4749		Kaneohe	HI	96744	(808) 226-4195	malamapono744@aol.com	
Ko'olaupoko Hawaiian Civic Club	Ms.	Mahealani	Cypher		Government Relations	Ko'olaupoko Hawaiian Civic Club		P.O. Box 664		Kaneohe	HI	96744	(808) 235-8111	malamapono744@aol.com	www.koolaupokohcc.org
Koa Ike	Mr.	Glen	Kila		Program Director	Koa Ike		89-530 Mokiawe Street		Waianae	HI	96792-3840	(808) 294-2441	makakila@gmail.com	www.koaike.org
Kula no na Po'e Hawaii	Ms.	Adrienne	Dillard		Executive Director	Kula no na Po'e Hawaii		P.O. Box 23268		Honolulu	HI	96823	(808) 520-8997	kula.papakolea@gmail.com	www.kula-papakolea.com
Kuloloi'a Lineage - I ke Kai 'o Kuloloi'a	Mr.	Leslie Apiu Aipalena	Kuloloio		Kupunakāne	Kuloloi'a Lineage - I ke Kai 'o Kuloloi'a		469 Maalo Street		Kahului	HI	96732	(808) 281-7652	pokayli2@gmail.com	
La'i 'Ōpua 2020	Mr.	Craig V.	Kahui		Executive Director	La'i 'Ōpua 2020		74-5599 Luhia Street, E5		Kailua Kona	HI	96740	(808) 327-1221	bokahui@yahoo.com	www.laiopua.org
Lahui Kaka'ikahi	Mr.	Kaleo	Keeno		President	Lahui Kaka'ikahi		41-210 Hihimanu Street		Waimanalo	HI	96795			
Ma'a 'Ohana c/o Lani Ma'a Lapilio	Ms.	Lani Ma'a	Lapilio			Ma'a 'Ohana		c/o Aukahi	P.O. Box 6087	Kaneohe	HI	96744-9998	(808) 540-5741	lani@aukahi.com	
Machado-Akana-Aona-Namakaeha Ohana	Ms.	Brenda Luana Machado	Lee		Loea	Machado-Akana-Aona-Namakaeha Ohana		P.O. Box 133		Captain Cook	HI	96704			
Mahu Ohana	Ms.	Keona	Mark			Mahu Ohana		P.O. Box 2		Haleiwa	HI	96712	(808) 637-2778	keonamark@gmail.com	
Mainland Council Association of Hawaiian Civic Clubs	Ms.	Charlene	Lui		President	Mainland Council Association of Hawaiian Civic Clubs		766 North 900 West		Orem	UT	84057	(801) 230-5109	mcahccnews@aol.com	www.mainlandcouncil.org
Makaha Hawaiian Civic Club	Ms.	Lu	Faborito		Secretary	Makaha Hawaiian Civic Club		P.O. Box 305		Waianae	HI	96792	(808) 351-5650	kalyhokalanik@aol.com	http://makanahawaiiancivicclub.webs.com
Maku'u Farmers Association	Ms.	Paula K.	Kekahuna		President	Maku'u Farmers Association		15-2131 Keaau Pahoa Highway		Pahoa	HI	96778	(808) 896-5537	makuufarmersassociation@gmail.com	
Malu'ōhai Residents Association	Ms.	Homelani	Schaedel		President	Malu'ōhai Residents Association		P.O. Box 700911		Kapolei	HI	96709	(808) 520-2267	homeschaedel@hawaii.rr.com	
Mana Health Services, Inc.	Mr.	Vincent	Manuwai		CEO	Mana Health Services, Inc.		94-307 Farrington Hwy, Unit B01		Waipahu	HI	96797	(808) 200-3305	contact@manaservices.net	www.manaservices.net
Marae Ha'a Koa	Mr.	Glen	Kila		Program Director	Marae Ha'a Koa		89-530 Mokiawe Street		Waianae	HI	96792-3840	(808) 294-2441	makakila@gmail.com	www.maraehaakoa.org
Meleana Kawaiaea, LLC	Mr.	Paul	Richards		Member	Meleana Kawaiaea, LLC		41-155 Poliala Street		Waimanalo	HI	96795	(808) 259-8611	paul_28827@msn.com	
Menehune Foundation	Mr.	Michael	Kahue		President	Menehune Foundation		1188 Bishop St., Suite 3004		Honolulu	HI	96813	(808) 943-0050	plazachip@hotmail.com	
Moku o Kaupo	Ms.	Jade Alohalani	Smith		Representative	Moku o Kaupo		P.O. Box 1269		Kula	HI	96790	(808) 870-2820	jadesmith@quixnet.net	

Na Aikane O Maui	Ms.	Uilani	Kapu		Treasurer	Na Aikane O Maui		562A Front Street		Lahaina	HI	96761	(808) 250-1479	uilani.kapu@gmail.com	
Na Koa Ikaika Ka Lahui Hawaii	Ms.	Mililani B.	Trask		Convenor	Na Koa Ikaika Ka Lahui Hawaii		P.O. Box 6377		Hilo	HI	96720		mililani.trask@ictlchawaii.com	
Na Ku'auhau 'o Kahiwakaneikopolei	Ms.	H. Kanoeokalani	Cheek		Vice President	Na Ku'auhau 'o Kahiwakaneikopolei		P.O. Box 5411		Kane'ohe	HI	96744	(808) 778-5598	kcheek0722@yahoo.com	
Nā Kuleana o Kānaka 'Ōiwi	Ms.	Donna Kalikō	Santos			Nā Kuleana o Kānaka 'Ōiwi		P.O. Box 1541		Līhu'e	HI	96766	(808) 346-0841	kaiko08@outlook.com	
Na Mookupuna O Wailua	Mr.	Noa	Mau-Espinto			Na Mookupuna O Wailua		6200 Olohena Road Unit A		Kapaa	HI	96746	(808) 855-5575	nkeliiwa@gmail.com	
Na Ohana o Puaoi a me Hanawahine	Ms.	Roxanne	Hanawahine		Representative	Na Ohana o Puaoi a me Hanawahine		41-153 Nalu Street		Waimanalo	HI	96795		roxy_96795@yahoo.com	
Nanakuli Housing Corporation	Ms.	Paige Kapiolani	Barber			Nanakuli Housing Corporation		P.O. Box 17489		Honolulu	HI	96817	(808) 842-0770	info@baseyard.com	www.baseyard.com
Native Hawaiian Chamber of Commerce	Ms.	Leilani	Williams-Solomon		President	Native Hawaiian Chamber of Commerce		P.O. Box 597		Honolulu	HI	96809	(808) 265-6349	nhccoahu@gmail.com	www.nativehawaiianchamberofcommerce.com
Native Hawaiian Church	Mr.	Kaleo	Patterson		President	Native Hawaiian Church		1127 Bethel Street, Suite 16		Honolulu	HI	96813	(808) 330-3769	purcgo@gmail.com	
Native Hawaiian Economic Alliance	Mr.	Napali	Woode		Director	Native Hawaiian Economic Alliance		2149 Lauwiliwili St., Ste. 200		Kapolei	HI	96707	(808) 596-8155	info@nativealliance.com	www.nativealliance.com
Native Hawaiian Education Council	Ms.	Sylvia M.	Hussey		Executive Director	Native Hawaiian Education Council		735 Bishop Street, Suite 224		Honolulu	HI	96813	(808) 523-6432	nhec@nhec.org	www.nhec.org
Native Hawaiian Hospitality Asso	Ms.	Pohai	Ryan		Executive Director	Native Hawaiian Hospitality Association		310 Papakalani Avenue, #201A		Honolulu	HI	96815	(808) 628-6374	info@nahha.com	www.nahha.com
Nekaifes Ohana	Ms.	Maraea K.	Nekaifes			Nekaifes Ohana		212 Hiipali Loop		Kula	HI	96790-7273	(808) 760-2077		
Office of Hawaiian Affairs	Dr.	Kamana'opono M.	Crabbe	Ph.D.	Ka Pouhana, Chief Ex	Office of Hawaiian Affairs		560 N. Nimitz Hwy., Suite 200		Honolulu	HI	96817	(808) 594-1835	kamanaopc@oha.org	www.oha.org
Order of Kamehameha I	Mr.	Dennis w.	Ragsdale		Advocate General	Order of Kamehameha I		1777 Ala Moana Blvd. #142-102		Honolulu	HI	96815-1603	(808) 235-2425	order@kamehameha-1.org	www.kamehameha-1.org
Pacific Agricultural Land Management Systems	Mr.	William W. Moekahi	Steiner		Member	Pacific Agricultural Land Management Systems		P.O. Box 4565		Hilo	HI	96720	(808) 294-0750	wwmsteiner@gmail.com	
Pacific Justice & Reconciliation Center	Mr.	Kaleo	Patterson		President	Pacific Justice & Reconciliation Center		1127 Bethel Street, Suite 16		Honolulu	HI	96813	(808) 531-5122	purcgo@gmail.com	www.pacificpeace.org
PA'I Foundation	Ms.	Victoria Holt	Takamine		Executive Director	PA'I Foundation		P.O. Box 17483		Honolulu	HI	96817	(808) 844-2001	vicky@paifoundation.org	www.paifoundation.org
Papa Ola Lokahi	Ms.	Sharlene	Chun-Lum		Executive Director	Papa Ola Lokahi		894 Queen Street		Honolulu	HI	96813	(808) 597-6550	schunlum@papaolalokahi.org	www.papaolalokahi.org
Papakōlea Community Development Corporation	Ms.	Lilia	Kapuniai		Executive Director	Papakōlea Community Development Corporation		2150 Tantalus Drive		Honolulu	HI	96813	(808) 520-8998	lilia@papakolea.org	www.papakolea.org
Partners in Development Foundation	Mr.	Jan E. Hanohano	Dill		President and COB	Partners in Development Foundation		2040 Bachelot Street		Honolulu	HI	96817	(808) 595-2752	pdf@pdfoundation.org	www.pdfoundation.org
Paukukalo Hawaiian Homes Community Association	Ms.	Olinda	Aiwohi		President	Paukukalo Hawaiian Homes Community Association		781 Kawananakoa Street		Wailuku	HI	96793	(808) 244-3288		
Peahi Ohana	Mr.	Apela	Peahi		Representative	Peahi Ohana		41-205 Lupe Street		Waimanalo	HI	96795	(808) 216-2039	speahi@hotpop.com	
Piihonua Hawaiian Homestead Community Association	Mr.	Ronald	Kodani		President	Piihonua Hawaiian Homestead Community Association		37 Wailea Place		Hilo	HI	96720	(808) 920-5072	phhcahilo@gmail.com	www.phhca.webs.com
Royal Hawaiian Academy of Traditional Arts	Mr.	L. Laakea	Suganuma		President	Royal Hawaiian Academy of Traditional Arts		835 Ahuwale Street		Honolulu	HI	96821	(808) 377-5611	laakea@hawaiiantel.net	
Sovereign Councils of the Hawaiian Homelands Assembly	Ms.	Robin Puanani	Danner		Chairman	Sovereign Councils of the Hawaiian Homelands Assembly		2149 Lauwiliwili Street, Suite 200		Kapolei	HI	96707	(808) 652-0140	robin.puanani.danner@gmail.com	
The Friends of Hokule'a and Hawai'iloa	Mr.	William K.	Richards	Jr.	President	The Friends of Hokule'a and Hawai'iloa		P.O. Box 696		Kailua	HI	96734	(808) 843-8414	friends@fhh-hawaii.org	www.fhh-hawaii.org
The I Mua Group	Mr.	Melvin	Soong		President	The I Mua Group		422 Iliaina Street		Kailua	HI	96734	(808) 542-7869	soongm001@hawaii.rr.com	
The Makua Group	Mr.	Eugene	O'Connell		Project Coordinator	The Makua Group		87-282 Holopono Street		Waianae	HI	96792	(808) 668-6470	eugene.oconnell@makuagroup.com	www.makuagroup.com
The Mary Kawena Pūku'i Cultural Preservation Society	Mr.	La'akea	Suganuma		President	The Mary Kawena Pūku'i Cultural Preservation Society		835 Ahuwale Street		Honolulu	HI	96821	(808) 377-5611	marykawenapukui@gmail.com	www.marykawenapukui.com
Wai'anae Hawaiian Civic Club	Ms.	Mele	Worthington		President	Wai'anae Hawaiian Civic Club		P.O. Box 687		Wai'anae	HI	96792-0687	(808) 347-6549	makahamele@gmail.com	www.waianaehcc.org
Waiehu Kou Phase 3 Association	Mr.	Roy	Oliveira		President	Waiehu Kou Phase 3 Association		49 Kaulana Na Pua Circle		Wailuku	HI	96793	(808) 760-8374	waiehukouphase3association@hotmail.com	www.waiehukouphase3.org
Waimānalo Hawaiian Homes Association	Mr.	Kamakana M.	Aquino		President	Waimānalo Hawaiian Homes Association		P.O. Box 353		Waimānalo	HI	96795	(808) 426-1223	kamakana808@yahoo.com	www.waimanalo.org
ADDITIONAL 106 INTERESTED PARTIES															
Historic Hawaii Foundation	Ms.	Kiersten	Faulkner		Executive Director	Historic Hawaii Foundation		680 Iwilei Road, #690		Honolulu	HI	96817			
The Outdoor Circle	Mr.	Winston	Welch		Executive Director	The Outdoor Circle		1314 S. King Street #305		Honolulu	HI	96814			
Palama Settlement	Mr.	Earl	Fusato		Executive Director	Palama Settlement		810 N. Vineyard Blvd		Honolulu	HI	96817			
Aldersgate United Methodist Chu	Reveran	Emmanuel	Cruz		Pastor	Aldersgate United Methodist Church		1352 Liliha Street		Honolulu	HI	96817			
Neighborhood Board No. 15	Chair	Ryan	Mandado			Neighborhood Board No. 15		1720 Kalani Street Apt 202		Honolulu	HI	96819			
Neighborhood Board No. 14	Chair	Wesley	Fong			Neighborhood Board No. 14		925 Dillingham Blvd Suite 160		Honolulu	HI	96817			

EXHIBIT D

Advisory Council on Historic Preservation
Notice of Election Not to Participate in Consultation

Exhibit D

Preserving America's Heritage

October 25, 2018

Mr. Hakim Ouansafi
Executive Director
Hawaii Public Housing Authority
1002 North School Street
Honolulu, HI 96817

Ref: *Proposed Demolition and Redevelopment of the Mayor Wright Homes located on North Kukui Street Island of O'ahu, Hawaii*
ACHPConnect Log Number: 13262

Dear Mr. Ouansafi:

The Advisory Council on Historic Preservation (ACHP) has received your notification and supporting documentation regarding the adverse effects of the referenced undertaking on a property or properties listed or eligible for listing in the National Register of Historic Places. Based upon the information provided, we have concluded that Appendix A, *Criteria for Council Involvement in Reviewing Individual Section 106 Cases*, of our regulations, "Protection of Historic Properties" (36 CFR Part 800), does not apply to this undertaking. Accordingly, we do not believe that our participation in the consultation to resolve adverse effects is needed. However, if we receive a request for participation from the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (THPO), affected Indian tribe, a consulting party, or other party, we may reconsider this decision. Additionally, should circumstances change, and it is determined that our participation is needed to conclude the consultation process, please notify us.

Pursuant to 36 CFR §800.6(b)(1)(iv), you will need to file the final Memorandum of Agreement (MOA), developed in consultation with the Hawaii State Historic Preservation Officer (SHPO), and any other consulting parties, and related documentation with the ACHP at the conclusion of the consultation process. The filing of the MOA, and supporting documentation with the ACHP is required in order to complete the requirements of Section 106 of the National Historic Preservation Act.

Thank you for providing us with the notification of adverse effect. If you have any questions or require further assistance, please contact Anthony G. Lopez at (202) 517-0220 or by email at alopez@achp.gov.

Sincerely,

LaShavio Johnson

LaShavio Johnson
Historic Preservation Technician
Office of Federal Agency Programs

EXHIBIT E

Eligible Historic Properties Directly Adjacent to the Property ("Adjacent Eligible Properties"):

A. Agmata Building (1959), 1386 Liliha Street
B. Aldersgate Methodist Church (1961), 1340 Liliha Street
C. Fujii Store (1913), 1023 Desha Lane
D. U&M Fujii Building (1972), 600 N. King St.
E. Ito Building (1961), 622 North King Street

For a complete list of eligible historic resources identified within the Architectural APE, refer to the following report:

Mayor Wright Homes Redevelopment Project Identification of Historic Properties: Reconnaissance Level Survey of Multiple Properties Located within the Selected Area of Potential Effect, prepared for the Hawaii Public Housing Authority by Fung Associates, Inc. August 2017 and accepted by the Hawaii State Historic Preservation Division on August 25, 2017.

1807005

DAVID Y. IGE
GOVERNOR

HAKIM OUANSAFI
EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/32

June 25, 2018

MEMORANDUM

TO: The Honorable David Y. Ige
Governor, State of Hawaii

THROUGH: Pankaj Bhanot, Director
Department of Human Services

FROM: Hakim Ouansafi, Executive Director
Hawaii Public Housing Authority

SUBJECT: Request for the Governor as Agency Official Under Section 106 National Historic Preservation Act to Establish Mayor Wright Homes Redevelopment Project as an "Undertaking"; and Authorize HPHA to Conduct Consultation And Inform the State Historic Preservation Officer Of Such Authorization

Proposed Redevelopment Project
The Hawai'i Public Housing Authority ("HPHA") is evaluating the potential redevelopment of the Mayor Wright Homes public housing development located at 521 North Kukui Street, Oahu, Honolulu Tax Map Key ("TMK") (1) 1-7-029:003 ("Site"). The overall redevelopment program would include applying to the U.S. Department of Housing and Urban Development ("HUD") to raze the existing structures and redevelop the site as a mixed-income, mixed-use housing development (the "Project"). The proposed Project will total approximately 2,448 residential rental units; approximately two-thirds of which shall be affordable units, including the replacement of the existing 364 public housing units on site, on a one-for-one basis with similarly deeply subsidized units. In addition, up to 80,000 square feet of commercial space is also proposed for the Project, which may include a mix of retail, office space, and community services to support the new residential units and complement the surrounding neighborhood.

The Mayor Wright Homes redevelopment will not only improve housing conditions for its current residents, but will fundamentally transform an existing, six-decade old, state-owned land asset, into a new, mixed-income, mixed-use, transit oriented development

enhancing the existing vibrant Kalihi, Liliha, Kapālama, and Iwilei communities. The Project will facilitate the delivery of urgently needed new rental housing units to help address the existing affordable rental housing crisis across the State of Hawai'i. The HPHA has entered into a public/private partnership with MWH Partners, LLC, its affiliates and consultants ("Hunt") to execute the Project.

Purpose of the Request
HPHA is evaluating utilizing available funding pursuant to the Housing Act of 1937, as amended, to assist in the construction of Replacement Units and to contribute toward the operation of the Replacement Units with either public housing operating subsidy and/or project based vouchers. Because these proposed funding sources would include federal funding or grants, the proposed Project is considered a federal action or "Undertaking".

Accordingly, the Undertaking is required to comply with the National Environmental Policy Act ("NEPA") and the National Historic Preservation Act of 1966, as amended ("NHPA") and its implementing regulations at 36 CFR Part 800 (the "Federal Regulations") (attached as Exhibit A). Section 800.2 of the Federal Regulations defines the Participants in the Section 106 process as follows:

> 800.2 (a) ***Agency official***. It is the statutory obligation of the Federal agency to fulfill the requirements of section 106 and to ensure that an agency official with jurisdiction over an undertaking takes legal and financial responsibility for section 106 compliance in accordance with subpart B of this part. The agency official has approval authority for the undertaking and can commit the Federal agency to take appropriate action for a specific undertaking as a result of section 106 compliance. For the purposes of subpart C of this part, the agency official has the authority to commit the Federal agency to any obligation it may assume in the implementation of a program alternative. The agency official may be a State, local, or tribal government official who has been delegated legal responsibility for compliance with section 106 in accordance with Federal law.
>
> 800.2 (a)(3) ***Use of contractors***. Consistent with applicable conflict of interest laws, the agency official may use the services of applicants, consultants, or designees to prepare information, analyses and recommendations under this part. The agency official remains legally responsible for all required findings and determinations. If a document or study is prepared by a non-Federal party, the agency official is responsible for ensuring that its content meets applicable standards and guidelines.
>
> 800.2 (c) ***Consulting Parties***: the following Parties have consultative roles in the Section 106 Process.
>
> (1) *State Historic Preservation Officer*. (i)The State historic preservation officer (SHPO) reflects the interests of the State and its citizens in the preservation of their cultural heritage.

(2) *Indian tribes and Native Hawaiian organizations.* (ii) Consultation on historic properties of significance to Indian tribes and Native Hawaiian organizations. Section 101(d)(6)(B) of the act requires the agency official to consult with any Indian tribe or Native Hawaiian organization that attaches religious and cultural significance to historic properties that may be affected by an undertaking. This requirement applies regardless of the location of the historic property. Such Indian tribe or Native Hawaiian organization shall be a consulting party.

(3) *Representatives of local governments.*

(4) *Applicants for Federal assistance, permits, licenses, and other approvals.* An applicant for Federal assistance or for a Federal permit, license, or other approval is entitled to participate as a consulting party as defined in this part. The agency official may authorize an applicant or group of applicants to initiate consultation with the SHPO/ THPO and others, but remains legally responsible for all findings and determinations charged to the agency official. The agency official shall notify the SHPO/THPO when an applicant or group of applicants is so authorized. A Federal agency may authorize all applicants in a specific program pursuant to this section by providing notice to all SHPO/THPOs. Federal agencies that provide authorizations to applicants remain responsible for their government-to-government relationships with Indian tribes.

HUD has unique legislative authority, as specified in several statutes, including the Housing and Community Development Act of 1974, as amended, that allows State, Tribal, and local governments ("responsible entities" or REs) to assume responsibility for all of HUD's environmental requirements in a number of HUD programs. This has been codified in 24 CFR Part 58, "Environmental Review Procedures for Entities Assuming HUD Environmental Responsibilities." Within Part 58, Sections 106 and 110 of the National Historic Preservation Act and 36 CFR Part 800 are identified as specific requirements that may be assumed by the RE. As noted in various subsections of 36 CFR Part 800, including §800.2(a) above, REs are the "agency official" for the purposes of Section 106. HUD may provide technical assistance or otherwise facilitate Section 106 agreements for REs. However, as noted above, HUD is not a signatory to those agreements. The legal responsibility lies with the RE. (See HUD Environmental Regulations and Section 106 Agreement Documents Memo Dated Sep 21, 2005 attached as Exhibit B).

In order to initiate the NHPA Section 106 process and to comply with Federal Regulations, pursuant to 36 CFR § 800.3 for the Project the agency official should do the following:

A) § 800.3 (a) *Establish undertaking.* The agency official shall determine whether the proposed Federal action is an undertaking as defined in § 800.16 (y) and, if

so, whether it is a type of activity that has the potential to cause effects on historic properties.

B) § 800.3 (c) (3) Conducting consultation. The agency official should consult with the SHPO/THPO in a manner appropriate to the agency planning process for the undertaking and to the nature of the undertaking and its effects on historic properties.

Since the proposed Project will involve demolition of the existing buildings on the Project Site, which themselves have been identified as eligible for listing on a historic register, the HPHA anticipates/acknowledges that proposed Project will ultimately result in a determination of "adverse effect" with regard to historic architectural resources.

This consultation will further include identifying organizations who may have an interest in the Project and its potential to affect historic properties, including Native Hawaiian Organizations and Native Hawaiian descendants who may have ancestral lineal or cultural ties, knowledge, or religious attachment to the Project Site or concerns regarding the proposed Project ("Consulting Parties").

Accordingly, the HPHA requests the agency official to take the following actions:

1. Establish the Mayor Wright Homes Redevelopment Project as an "Undertaking"; and

2. Authorize the HPHA, MWH Partners, LLC, its affiliates and consultants to initiate and conduct consultation with the SHPO/THPO and other consulting Parties pursuant to 800.2 (c) (4) (referenced above), to prepare information, analyses and recommendations pursuant to 36 CFR 800.2 (a)(3) (referenced above).

Upon your approval, a copy of this authorization will be delivered to the SHPO/SHPO pursuant to 800.2 (c)(4) to start the consultation process.

If you have any questions or concerns regarding this matter, please contact Hakim Ouansafi, Executive Director at (808) 832-4682.

[☑] APPROVED [☐] DISAPPROVED

David Y. Ige

DAVID Y. IGE
Governor, State of Hawaii

Jul 12, 2018

Date

1810141

DAVID Y. IGE
GOVERNOR

HAKIM OUANSAFI
EXECUTIVE DIRECTOR

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

STATE OF HAWAII
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
POST OFFICE BOX 17907
HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:
18:OED/68

October 26, 2018

MEMORANDUM:

TO: The Honorable David Y. Ige
Governor, State of Hawaii

THROUGH: Pankaj Bhanot, Director
Department of Human Services Pankaj Bhanot.

FROM: Hakim Ouansafi, Executive Director
Hawaii Public Housing Authority

SUBJECT: Request for the Governor as Agency Official Under Section 106 National Historic Preservation Act to Identify an Effect Determination Regarding the Mayor Wright Homes Redevelopment Project Undertaking
REFERENCES: 18:OED/32

Requested Action:

The HPHA hereby respectfully requests the Agency Official to take the following action:

(1) identify and apply a finding of "*Adverse Effect*" for the Mayor Wright Homes Redevelopment Project pursuant to § 800.5(a)(1) so that the HPHA may continue the consultation process, determine mitigation to address and resolve the adverse effect, and memorialized the proposed mitigation in the form of a MOA pursuant to §800.6 that the HPHA may recommended to the Agency Official for acceptance and execution.

Background and Purpose of the Request

In our Memorandum Dated June 25, 2018 (18:OED/32-attached), the Hawai'i Public Housing Authority ("HPHA") stated that we are evaluating the potential redevelopment of the Mayor Wright Homes public housing development located at 521 North Kukui Street, Oahu, Honolulu Tax Map Key ("TMK") (1) 1-7-029:003 ("Site"). The overall redevelopment program would include applying to the U.S. Department of Housing and Urban Development ("HUD") to raze the existing structures and redevelop the site as a mixed-finance, mixed-use housing development (the "Project"). The proposed Project will total approximately 2,448 residential rental units; approximately two-thirds of which shall be affordable units, including the replacement of the existing 364 public housing units on site, on a one-for-one basis, with similarly deeply subsidized units. In addition, up to 80,000 square feet of commercial space is also proposed for the Project, which may include a mix of retail, office space, and community services to support the new residential units and complement the surrounding neighborhood.

As the HPHA plans to leverage federal funding for the proposed Project, the Project is required to comply with the National Historic Preservation Act of 1966 and Section 106, as amended ("NHPA"). HPHA's June 25, 2018 memorandum (18:OED/32) requested the Agency Official to (i) declare the MWH project an "*Undertaking*" pursuant to §800.2 and (ii) authorize the HPHA, its development partner and their consultants to initiate and conduct consultation with the State Historic Preservation Officer ("SHPO") and other consulting parties as allowed under §800.2 (a)(3). Additionally, because the Project will involve the demolition of the existing buildings on the Project Site, which have been identified as eligible for listing on a historic register, the HPHA informed the Agency Official that the redevelopment will ultimately result in a determination of "adverse effect" with regard to historic architectural resources.

The HPHA, having continued consultation with the SHPO, and other identified consulting parties requested consulting party status pursuant to §800.3 (f), recommends that the Agency Official identify and apply a finding of "*Adverse Effect*" for the Mayor Wright Homes Redevelopment Project pursuant to §800.5(a)(1). Once a determination of Adverse Effect has been made, the HPHA shall continue the consultation process to develop proposed mitigation to address and resolve the Adverse Effect so that agreed upon mitigation measures may be memorialized in a Memorandum of Agreement (MOA) with the SHPO and other invited signatories, pursuant to § 800.6, which the HPHA will then recommended to the Agency Official for acceptance and execution.

In July 2018, the HPHA, and its development partner, prepared and delivered over 100 letters of invitation and accompanying background materials describing the proposed Project to organizations and individuals with a potential interest in the proposed undertaking and its potential to affect historic properties. This list included all Native Hawaiian Organizations identified on the *Native Hawaiian Organization Notification List* published by the U.S. Department of the Interior, and maintained by the Office of Native Hawaiian Relations, to identify any Native Hawaiian Organizations and/or Native Hawaiian descendants who may have ancestral lineal or cultural ties, knowledge, or

religious attachment or concerns regarding the proposed undertaking. The letters of invitation were delivered on July 18, 2018 with a response requested within 30 days. Three parties responded to the letter of invitation and, of these, only the Historic Hawaii Foundation, expressed a desire to participate in consultation as a consulting party.

On October 9, 2018, after all prospective consulting parties and Native Hawaiian Organizations had been identified, contacted and provided sufficient opportunity to respond, the HPHA then (i) notified the Advisory Council on Historic Preservation (ACHP) and provided supporting documentation regarding the adverse effects of the proposed undertaking on a property or properties listed or eligible for listing in the National Register of Historic Places and (ii) invited the ACHP to participate in consultation as required pursuant to §800.6 (a)(1). On October 25, 2018, the HPHA received a response from the ACHP acknowledging the notification and submission of supporting documentation regarding the adverse effects of the referenced undertaking. After review, the ACHP concluded that Appendix A, Criteria for Council Involvement in Reviewing Individual Section 106 Cases pursuant to "Protection of Historic Properties" under 36 CFR 800, did not apply to this undertaking. Accordingly, ACHP determined that its participation in the consultation to resolve adverse effects was not required.

HPHA wishes to continue consultation with the SHPD and Historic Hawaii Foundation, as identified consulting parties, with the objective of considering and proposing mitigation measures to address the adverse effect determination. Final agreed upon mitigation measures will then be documented in a final MOA that the HPHA will present and recommend to the Agency Official for acceptance/execution. Once accepted by the Agency Official, the executed MOA will be included in the Environmental Assessment for the Project being prepared pursuant to the National Environmental Protection Act to evidence Section 106 compliance. The HPHA, on behalf of the Agency Official, will also file the final MOA and related supporting documentation with the ACHP upon conclusion of the consultation process, pursuant to §800.6(b)(1)(iv), which will complete the NHPA compliance requirements required for the undertaking.

To initiate the MOA process for the undertaking pursuant to §800.6, the Agency Official, pursuant to § 800.5(a)(1), should *Apply the criteria of adverse effect*. An adverse effect is found when an undertaking may alter, directly or indirectly, any of the characteristics of a historic property that qualify the property for inclusion in the National Register in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association. Since the undertaking will involve the demolition of the existing buildings on the Project Site, which themselves have been identified as eligible for listing on a historic register, a determination of "adverse effect" with regard to historic architectural resources is warranted.

Upon your approval, the HPHA shall also provide a copy of this authorization to the SHPO.

If you have any questions or concerns regarding this matter, please contact Hakim Ouansafi, Executive Director at (808) 832-4682.

[☑] APPROVED [☐] DISAPPROVED

DAVID Y. IGE
Governor, State of Hawaii

Nov 9, 2018
Date

Attachments: 18:OED/32

EXHIBIT 15

MAYOR WRIGHT HOMES REDEVELOPMENT PROJECT

NOISE & VIBRATION STUDY

Prepared for

PBR HAWAII AND ASSOCIATES INC.

Prepared by

TERRY A. HAYES ASSOCIATES INC.

AUGUST 2017

taha 2015-019

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1.0 SUMMARY OF FINDINGS

Terry A. Hayes Associates Inc. has completed a Noise Study for the Mayor Wright Homes Redevelopment Project (proposed project). Key findings are listed below.

- Construction activity would result in temporary increases in ambient noise levels in the project area on an intermittent basis. Construction noise levels would exceed the allowable noise levels listed in the Hawaii State Department of Health *Noise Reference Manual Oahu Edition* and the Hawaii Administrative Rules. Therefore, without noise control, the proposed project would result in an adverse effect related to construction noise. The following noise control measures would eliminate adverse effects.

  N1 The project applicant shall obtain a noise permit associated with exceeding a noise level of 78 dBA L_{eq} as discussed in the *Noise Reference Manual Oahu Edition*.

  N2 The project applicant shall obtain a noise permit associated with exceeding the maximum permissible noise levels discussed in the Hawaii Administrative Rules.

  N3 The construction contractor shall use specialty equipment with enclosed engines and/or high-performance mufflers.

  N4 The construction contractor shall locate equipment and staging areas as far from noise-sensitive receivers as practicable.

  N5 The construction contractor shall limit unnecessary idling of equipment.

  N6 The construction contractor shall install temporary noise barriers to enclose stationary noise sources, such as compressors, generators, laydown and staging areas, and other noisy equipment.

  N7 Prior to the commencement of construction activities, notification shall be provided to the on-site residential uses that discloses the construction schedule, including the various types of activities and equipment that would be occurring throughout the duration of the construction period.

  N8 A “noise disturbance coordinator” shall be established. The noise disturbance coordinator shall be responsible for responding to any local complaints about construction noise. The noise disturbance coordinator shall determine the cause of the noise complaint (e.g., starting too early, bad muffler, etc.) and shall be required to implement reasonable measures such that the complaint is resolved. All notices that are posted at the construction site shall list the telephone number for the noise disturbance coordinator.

- Construction activity can result in varying degrees of ground-borne vibration, depending on the equipment and methods employed. Construction vibration levels would not exceed the relevant standards. Therefore, the proposed project would result in an adverse effect related to construction vibration without vibration control measures. The following vibration control measure would eliminate adverse effects.

  N9 Prior to issuance of a grading/shoring permit, a qualified structural engineer shall survey the existing foundation and structural integrity of off-site buildings that will be located within 11 feet of large bulldozers and similar vibration-generating equipment and at the Fuji Store and Tenement Houses. The survey shall be submitted to the

  appropriate mitigation monitor. At the conclusion of vibration causing activities, the qualified structural engineer shall issue a follow-on letter describing damage, if any, to the adjacent buildings. The letter shall identify recommendations for any repair, and certify the completion of any repairs as necessary to confirm the integrity of the foundation and structure of the adjacent buildings.

  N10 If the construction plans call for high-vibration construction activities being performed close to structures, the contractor may be required to use alternative procedures that produce lower vibration levels. Examples of high-vibration construction activities include the use of pavement breakers, vibratory compaction, and hoe rams next to sensitive buildings. Alternative procedures shall include the use of non-vibratory compaction in limited areas and concrete saws in place of jackhammers or pavement breakers for demolition.

  N11 If piles are required to support new structures, pile driving shall be prohibited in place of cast-in-drilled-hole (CIDH) piles or caissons.

- Stationary noise sources would potentially exceed the Hawaii Administrative Rules maximum permissible noise levels. Therefore, without noise control, the proposed project would result in an adverse effect related to stationary noise. The following noise control measures would eliminate adverse effects.

  N12 The project applicant shall require mechanical equipment (e.g., ventilation and air conditioning systems) to be enclosed such that noise levels do not exceed the maximum permissible noise levels listed in the Hawaii Administrative Rules.

- Mobile source noise levels would not exceed the 5-dBA operational mobile source noise criteria. Therefore, the proposed project would not result in adverse effects related to off-site vehicular noise.

- The proposed project would not include significant stationary sources of ground-borne vibration. Vibration would be similar to existing conditions and project-related traffic vibration levels would not be perceptible outside the roadway right-of-way. Therefore, the proposed project would not result in adverse effect related to the operational vibration.

2.0 INTRODUCTION

2.1 PURPOSE

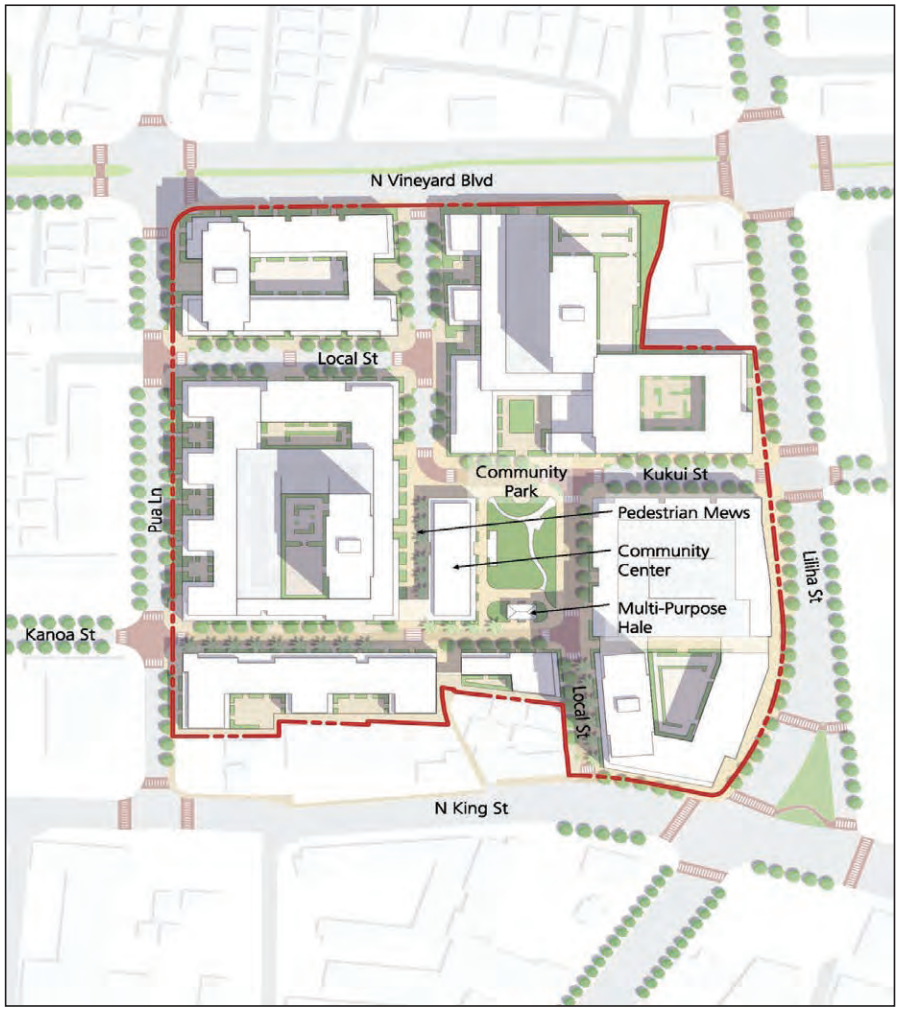
The purpose of this report is to evaluate the potential for noise and vibration impacts associated with the proposed project. Potential noise levels are analyzed for construction and operational activities. Noise control measures for potentially adverse effects are recommended when appropriate to reduce noise and vibration levels.

2.2 PROJECT DESCRIPTION

The proposed project would redevelop the existing Mayor Wright Housing on Liliha Street in Honolulu, Hawaii. The existing 15-acre project site includes 364 affordable housing units. The proposed mixed-use development includes up to 2,500 residential units and up to 80,000 square feet of retail and commercial uses. The proposed project would also incorporate a community park, pedestrian mews, a multi-purpose hall, and a community center.

The project site is located in the Kalihi community on the island of Oahu. The site is bounded by North King Street on the southwest, Vineyard Boulevard on the northeast, Pua Lane on the northwest, and Liliha Street on the southeast. The H-1 freeway is located east of the site and would provide residents living in the future project with access to jobs in Kapolei, Pearl City, Aiea and Pearl Harbor, as well as areas Diamond Head of downtown Honolulu.

The location of the proposed project is shown in **Figure 2-1** and the site plan is shown in **Figure 2-2**.



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3.0 NOISE AND VIBRATION CHARACTERISTICS AND REGULATIONS

3.1 NOISE

Characteristics of Sound

Sound is technically described in terms of the loudness (amplitude) and frequency (pitch) of the sound. The standard unit of measurement for sound is the decibel (dB). The human ear is not equally sensitive to sound at all frequencies. The "A-weighted scale," abbreviated dBA, reflects the normal hearing sensitivity range of the human ear. On this scale, the range of human hearing extends from approximately 3 to 140 dBA. **Figure 3-1** provides examples of A-weighted noise levels from common sounds.

Noise Definitions

This noise analysis discusses sound levels in terms of Equivalent Noise Level (L_{eq}) and Day-Night Noise Level (L_{dn}).

Equivalent Noise Level (L_{eq}). L_{eq} is the average noise level on an energy basis for any specific time period. The L_{eq} for one hour is the energy average noise level during the hour. The average noise level is based on the energy content (acoustic energy) of the sound. L_{eq} can be thought of as the level of a continuous noise which has the same energy content as the fluctuating noise level. The equivalent noise level is expressed in units of dBA.

Day-Night Noise Level (L_{dn}). L_{dn} is basically a 24-hour L_{eq} with an adjustment to reflect the greater sensitivity of most people to nighttime noise. The adjustment is a 10-dBA penalty for all sound that occurs in the nighttime hours of 10:00 p.m. to 7:00 a.m. The effect of the penalty is that in the calculation of L_{dn}, any event that occurs during the nighttime hours is equivalent to ten of the same event during the daytime hours.

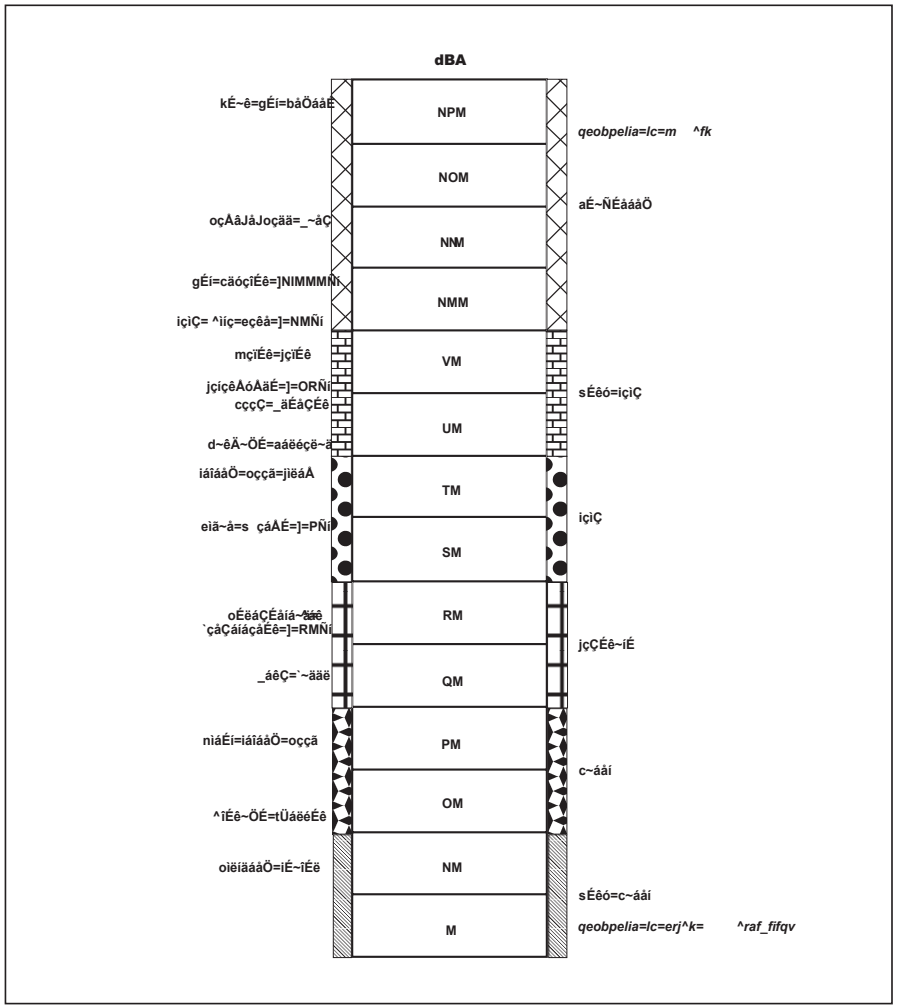
Effects of Noise

Noise is generally defined as unwanted sound. The degree to which noise can impact the human environment ranges from levels that interfere with speech and sleep (annoyance and nuisance) to levels that cause adverse health effects (hearing loss and psychological effects). Human response to noise is subjective and can vary greatly from person to person. Factors that influence individual response include the intensity, frequency, and pattern of noise, the amount of background noise present before the intruding noise, and the nature of work or human activity that is exposed to the noise source.

Audible Noise Changes

Studies have shown that the smallest perceptible change in sound level for a person with normal hearing sensitivity is approximately 3 dBA. A change of at least 5 dBA would be noticeable and would likely evoke a community reaction. A 10-dBA increase is subjectively heard as a doubling in loudness and would cause a community response.

Noise levels decrease as the distance from the noise source to the receiver increases. Noise generated by a stationary noise source, or "point source," will decrease by approximately 6 dBA over hard surfaces (e.g., reflective surfaces such as parking lots or smooth bodies of water) and 7.5 dBA over soft surfaces (e.g., absorptive surfaces such as soft dirt, grass, or scattered bushes and trees) for each doubling of the distance.



For example, if a noise source produces a noise level of 89 dBA at a reference distance of 50 feet, then the noise level would be 83 dBA at a distance of 100 feet from the noise source, 77 dBA at a distance of 200 feet, and so on. Noise generated by a mobile source will decrease by approximately 3 dBA over hard surfaces and 4.5 dBA over soft surfaces for each doubling of the distance.

Generally, noise is most audible when traveling by direct line-of-sight.[1] Barriers, such as walls, berms, or buildings that break the line-of-sight between the source and the receiver greatly reduce noise levels from the source since sound can only reach the receiver by bending over the top of the barrier (diffraction). Sound barriers can reduce sound levels by up to 20 dBA. However, if a barrier is not high or long enough to break the line-of-sight from the source to the receiver, its effectiveness is greatly reduced.

Applicable Regulations

United States Housing and Urban Development (HUD). HUD has a stated goal to provide "a decent home and suitable living environment for every American family." HUD regulations state that acceptable exterior noise levels are 65 L_{dn} or less, normally unacceptable exterior noise levels are between 65 and 75 L_{dn} (to achieve an acceptable status, appropriate sound attenuation measures must be provided), and unacceptable noise levels exceed 75 L_{dn}. HUD's regulations do not contain standards for interior noise levels. Rather, a goal of 45 dBA L_{dn} is set forth and the attenuation requirements are geared towards achieving that goal. It is assumed that with standard construction, any building will provide sufficient attenuation so that if the exterior level is 65 L_{dn} or less, the interior level will be 45 L_{dn} or less. HUD offers three suggestions for mitigating high noise levels on residential projects, including relocation, erecting barriers, and using noise control designs on the building's exterior.

Federal Aviation Administration (FAA). The FAA has published land use compatibility guidelines that can be used to assess potential noise impacts to new development projects.[2] The guidelines indicate that residential land uses exposed to aircraft-related noise levels of less than 65 dBA L_{dn} are compatible with the ambient noise environment. Where the community determines that residential or school uses must be allowed, measures to achieve outdoor to indoor noise level reduction of at least 25 dBA and 30 dBA should be incorporated into building codes and be considered in individual approvals.

Hawaii Statutes. Chapter 342F, of the Hawaii Revised Statutes contains standards and guidelines to address noise pollution. The Department has adopted a state community noise code pursuant to Chapter 91, which recognizes differences in noise level standards in urban and non-urban areas of the State and noise level standards of each county. The community noise codes are the relevant standards for analysis of noise pollution and impacts.

Noise Reference Manual Oahu Edition. The Hawaii State Department of Health *Noise Reference Manual Oahu Edition* discusses local rules for various noise sources. Relevant information includes a discussion of construction noise. A Community Noise Permit is required for construction projects exceeding 78 dBA or that has a total cost of more than $250,000 (based on the value on the building permit). Construction is allowed from 7:00 a.m. to 6:00 p.m., Monday through Friday, and 9:00 a.m. to 6:00 p.m. on Saturdays. The use of certain demolition and construction equipment (such as pile drivers, hydraulic hammers, jackhammers, etc.) is limited to 9:00 a.m. to 5:30 p.m., Monday through Friday. Construction projects exceeding the

[1] Line-of-sight is an unobstructed visual path between the noise source and the noise receptor.
[2] FAA, *1050.1F Desk Reference, Chapter 11 - Noise and Noise-Compatible Land Use*, July 2015.

maximum permissible sound levels (78 dBA) before 7:00 a.m. and after 6:00 p.m., Monday through Friday, or before 9:00 a.m. and after 6:00 p.m. on Saturdays, or at any time on Sundays and holidays are allowed only with an approved Community Noise Variance issued by the State Department of Health.[3]

Hawaii Department of Health. The Hawaii Administrative Rules (HAR) includes a section on noise control (Title 11 - Department of Health, Chapter 46 – Community Noise Control). The purpose is to define maximum permissible sounds levels, and to provide for the prevention, control, and abatement of noise pollution in Hawaii from stationary noise, construction and agricultural equipment, and industrial activities. The maximum permissible sound levels are shown in **Table 3-1**. Backup alarm devices on construction equipment that is required by federal or State occupational safety and health regulations are exempt from complying with the maximum noise levels. The HAR also state that all construction equipment should include mufflers, except pile hammers and pneumatic hand tools.

The Director of the Department of Health may grant a permit to operate excessive noise sources that exceed the maximum permissible noise levels. The permit application should include, but is not limited to, an assessment of best available control technology and disclosure of nighttime impacts.

TABLE 3-1: MAXIMUM PERMISSIBLE SOUND LEVELS

Zoning District	Daytime (dBA) (7:00 a.m. to 10:00 p.m.)	Nighttime (dBA) (10:00 p.m. to 7:00 a.m.)
Class A	55	45
Class B	60	50
Class C	70	70

Notes:
Class A: Lands zoned residential, conservation, preservation, public space, open space, or similar type.
Class B: Lands zoned for multi-family dwellings, apartment, business, commercial, hotel, resort, or similar type.
Class C: Lands zoned agriculture, country, industrial, or similar type.
The sound levels apply to any excessive noise source emanating within the specified zoning district, and at any point at or beyond the property line.
Noise levels shall not exceed the maximum permissible sound levels for more than ten percent of the time within any twenty minute period, except by permit or variance.
For mixed zoning districts, the primary land use designation shall be used to determine the applicable zoning district.
The maximum permissible sound level for impulsive noise shall be ten dBA above the maximum permissible sound levels.
SOURCE: Hawaii Administrative Rules, Title 11, Chapter 45.

3.2 VIBRATION

Characteristics of Vibration

Vibration is an oscillatory motion through a solid medium in which the motion's amplitude can be described in terms of displacement, velocity, or acceleration. Vibration can be a serious concern, causing buildings to shake and rumbling sounds to be heard. In contrast to noise, vibration is not a common environmental problem. Some common sources of vibration are trains, buses on rough roads, and construction activities, such as blasting, pile driving, and heavy earth-moving equipment.

Vibration Definitions

There are several different methods that are used to quantify vibration. The peak particle velocity (PPV) is defined as the maximum instantaneous peak of the vibration signal. The PPV is most frequently used to describe vibration impacts to buildings and is usually measured in

[3]Hawaii State Department of Health, *Noise Reference Manual*, Oahu Edition, February, 2008.

inches per second. The root mean square (RMS) amplitude is most frequently used to describe the effect of vibration on the human body. The RMS amplitude is defined as the average of the squared amplitude of the signal. Decibel notation (Vdb) is commonly used to measure RMS. The decibel notation acts to compress the range of numbers required to describe vibration.[4]

Effects of Vibration

High levels of vibration may cause physical personal injury or damage to buildings. However, ground-borne vibration levels rarely affect human health. Instead, most people consider ground-borne vibration to be an annoyance that may affect concentration or disturb sleep. In addition, high levels of ground-borne vibration may damage fragile buildings or interfere with equipment that is highly sensitive to ground-borne vibration (e.g., electron microscopes).

Perceptible Vibration Changes

In contrast to noise, ground-borne vibration is not a phenomenon that most people experience every day. The background vibration velocity level in residential areas is usually 50 RMS or lower, well below the threshold of perception for humans which is around 65 RMS.[5] Most perceptible indoor vibration is caused by sources within buildings, such as operation of mechanical equipment, movement of people, or slamming of doors. Typical outdoor sources of perceptible ground-borne vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. If the roadway is smooth, the vibration from traffic is rarely perceptible.

Applicable Regulations

Neither the State of Hawaii nor the City and County of Honolulu has vibration standards. To counter the effects of ground-borne vibration, the Federal Transit Administration (FTA) has published guidance relative to vibration impacts. According to the FTA, engineered concrete and masonry buildings (no plaster) can be exposed to can be exposed to ground-borne vibration levels of 0.3 inches per second without experiencing structural damage. Non-engineered timber and masonry buildings can be exposed to ground-borne vibration levels of 0.2 inches per second and buildings extremely susceptible to vibration damage can be exposed to ground-borne vibration levels of 0.12 inches per second without experiencing structural damage.[6]

[4]Federal Transit Administration, *Transit Noise and Vibration Impact Assessment*, May 2006.
[5]*Ibid.*
[6]*Ibid.*

4.0 EXISTING SETTING

4.1 EXISTING NOISE ENVIRONMENT

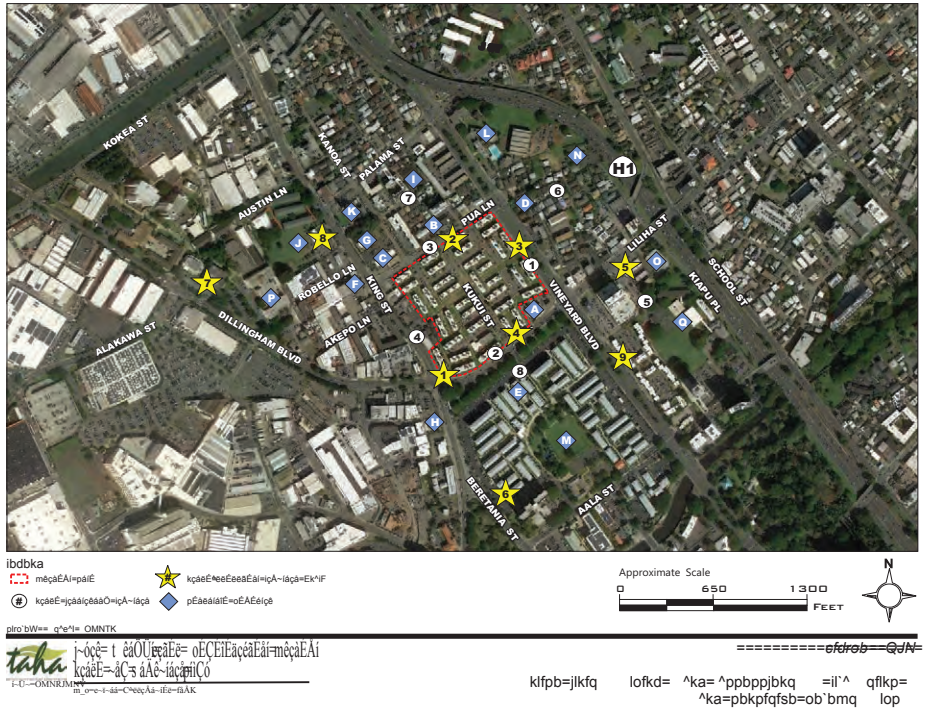
The surrounding area has a mix of mostly low-income rental units; various businesses including several gas stations, restaurants, and home improvement shops; and civic institutions, including several churches and schools such as Princess Victoria Ka'iulani Elementary School and Honolulu Community College across King Street and Kauluwela Elementary School across Vineyard Boulevard. Commercial uses southwest of Dillingham Boulevard include industrial office space, warehouses, machine shops, and food industries, while the area northeast of Dillingham include mostly residential with smaller commercial lots including fast food restaurants, gas stations, banks, and automotive shops.

Noise generators in the vicinity of the proposed project include nearby roadways, HNL and the H-1 Freeway. A suitable location for a 24-hour measurement on the project site was not identified so a series of short-term measurements were used to calculate the L_{dn}. This methodology is described on Page D-3 of the FTA Transit Noise and Vibration Impact Assessment guidance.[7] A series of 15-minute sound measurements were taken using a Type 1 SoundPro DL Sound Level Meter on Thursday April 27, 2017. Noise monitoring locations are shown in **Figure 4-1**. Measurements were taken adjacent to the project site for three different time periods: peak traffic from 8:00 a.m. to 9:00 a.m., midday from 11:00 a.m. to 12:00 p.m., and evening from 10:00 p.m. to 11:00 p.m. As shown in **Table 4-1**, the estimated L_{dn} ranges from 56.9 dBA to 67.8 dBA. The average 24-hour L_{dn} was 64.0 dBA. In addition to the four on-site measurements, four off-site measurements (Sites 5 through 8) were taken at nearby sensitive receptors between the hours of 12:00 p.m. and 1:00 p.m. As shown in **Table 4-1,** the hourly L_{eq} ranged from 54.7 dBA to 71.8 dBA.

TABLE 4-1: EXISTING MONITORED NOISE LEVELS

Key to Figure 4-1	Noise Monitoring Location	Noise Level (dBA, L_{eq})			Noise Level (dBA, L_{dn})
		Peak Traffic	Midday	Evening	
1	Project Boundary (Vineyard Blvd.)	71.4	71.0	66.1	67.8
2	Project Boundary (Liliha St.)	68.0	67.8	61.3	64.3
3	Project Boundary (Pua Ln.)	61.4	60.0	54.7	56.9
4	Project Boundary (King St.)	71.8	70.2	62.3	66.9
5	Kauluwela Elementary School (Kauluwela Pl.)	60.7	n/a	n/a	n/a
6	Residence (642 Vineyard Blvd.)	56.2	n/a	n/a	n/a
7	Residence (1115 Banyan St.)	61.4	n/a	n/a	n/a
8	Kukui Gardens (1103 Liliha St.)	59.9	n/a	n/a	n/a

n/a = Not Available. Additional monitoring was not necessary at these locations to establish 24-hour noise levels at the project site.
SOURCE: TAHA, 2017.



[7] Federal Transit Administration, *Transit Noise and Vibration Impact Assessment*, May 2006.

4.2 EXISTING VIBRATION ENVIRONMENT

There are no stationary sources of vibration located near the project site. Heavy-duty trucks can generate ground-borne vibrations that vary depending on vehicle type and weight, and pavement conditions. Based on site visits, vibration levels from adjacent roadways are not typically perceptible at the project site. In the year 2025, the Honolulu Rail Transit Project (HART) rail line will be fully operational and could potentially generate vibration at nearby receptors. However, the nearest component of HART is located approximately 660 feet to the southwest of the proposed project. Vibration is a high localized event and typically dissipates within a few feet from the source. Therefore, vibration generated by HART would not be perceptible at the project site.

4.3 SENSITIVE RECEPTORS

Sensitive land uses are locations where people reside or where the presence of unwanted sound could adversely affect the use of the land. Residences, schools, hospitals, guest lodging, libraries, and some passive recreation areas would each be considered sensitive and may warrant unique measures for protection from intruding noise. Sensitive receptors near the project site are listed below in **Table 4-2** and shown in **Figure 4-1**.

TABLE 4-2: SENSITIVE RECEPTORS

Key to Figure 4-1	Sensitive Receptor	Distance (feet)	Location
A	Aldersgate United Methodist Church	adjacent	Near the corner of Liliha St. and Vineyard Blvd.
B	Residences	50	North across Pua Ln.
C	Korean Presbyterian Miral Church	120	Northwest across Pua Ln.
D	Residences	130	Northeast across Vineyard Blvd.
E	Residences	180	South across Liliha St.
F	Palama Theater	200	West across King St.
G	St. Elizabeth's Episcopal Church	280	Northwest across Pua Ln.
H	Hawaii Chinese Baptist Church	300	Southwest across Liliha St. and King St.
I	Seventh-Day Adventist Church	400	Northwest across Pua Ln.
J	Princess Victoria Ka'iulani Elementary School	420	West across King St.
K	Kaumakapili Church	450	Northwest, south of Palama St.
L	Bluewater Mission Church	500	North across Vineyward Blvd.
M	Beretania Community Park	620	South across Pua Ln.
N	Korean Care Home	680	Northeast across Vineyard Blvd.
O	Liliha Public Library	740	East, across Vineyard Blvd.
P	Honolulu Community College	750	West, across King St.
Q	Kauluwela Elementary School	860	Southeast across Vineyard Blvd.

SOURCE: TAHA, 2017.

The above sensitive receptors represent the nearest noise sensitive receptors with the potential to be impacted by the proposed project. Additional sensitive receptors are located further from the project site in the surrounding community within one-quarter mile of the project site and would be less affected by the proposed project than the above sensitive receptors.

In addition to the off-site sensitive receptors listed above, sensitive receptors would be located on the project site during construction activity. The project site would be developed over phases and newly constructed residences would potentially be located adjacent to ongoing construction activity. These residences would be sensitive to construction noise and vibration.

5.0 METHODLOGY AND SIGNIFICANCE CRITERIA

5.1 METHODOLOGY

The analysis considers construction and operational sources of noise and vibration. The noise level during the construction period at each receptor location was calculated by (1) making a distance adjustment to the construction source sound level and (2) logarithmically adding the adjusted construction noise source level to the ambient noise level. Operational noise levels were calculated based on information provided in the traffic study and stationary noise sources located on the project site (e.g., mechanical equipment). To assess future noise levels at the project site, both railway noise from HART and traffic noise were analyzed using the HUD Day/Night Noise Level Calculator. The model calculates the Day/Night Noise Level for roadways by taking into account average vehicle speed, distance to receptor, average daily trips, road gradient, average daily trips (ADT) by vehicle type, and the percentage of ADT that occurs between the hours of 10:00 p.m. to 7:00 a.m. Railway noise is calculated using average train speed, distance to receptor, average daily train operations, track type, use of whistles and horns, railway cars per train, and the percentage of average daily train operations that occur between the hours of 10:00 p.m. to 7:00 a.m. The analysis is split by scenario, 50 percent buildout in the year 2022 without and with the project and 100 percent buildout in the year 2028 without and with the project. The HART will be fully operational in the year 2025 and as such, railway noise has been taken into account only for assessment of year 2028. Noise assessment locations (NALs) were selected along each side of the project site to represent noise levels that would be experienced by sensitive receptors.

5.2 SIGNIFICANCE CRITERIA

According to the Council on Environmental Quality regulations (40 Code of Federal Regulations (CFR) §§ 1500-1508), the determination of a significant impact is a function of both context and intensity. Context means that the significance of an action must be analyzed in several contexts such as society as a whole (human, national), the affected region, the affected interests, and the locality. Both short- and long-term effects are relevant. Intensity refers to the severity of impact. To determine significance, the severity of the impact must be examined in terms of the type, quality and sensitivity of the resource involved; the location of the proposed project; the duration of the effect (short- or long-term) and other consideration of context. Adverse impacts will vary with the setting of the proposed action and the surrounding area. Specific construction and operational impact criteria are listed below.

Construction Noise Adverse Effect Criteria

The proposed project would result in an adverse construction noise effect if:

- Construction activities occur prior to 7:00 a.m. and after 6:00 p.m., Monday through Friday, or before 9:00 a.m. and after 6:00 p.m. on Saturdays, or at any time on Sundays;
- Noise levels exceed the Hawaii State Department of Health *Noise Reference Manual Oahu Edition* maximum noise level of 78 dBA without first obtaining a noise variance; and/or
- Noise levels exceed the maximum Hawaii Administrative Rules noise levels shown in **Table 3-1** without first obtaining a permit from the Director of the Department of Health.

Operational Noise Adverse Effect Criteria

The proposed project would result in an adverse operational noise effect if:

- Noise levels at proposed residential land uses exceed the HUD exterior noise standard 65 dBA L_{dn}. If this standard is exceeded, further study is required to demonstrate that interior noise levels would not exceed 45 dBA L_{dn};
- Mobile sources cause a 5-dBA or more noise increase along off-site roadway segments, which is considered a noticeable change in noise levels that would likely evoke a community reaction; and/or
- Stationary source noise levels exceed the maximum Hawaii Administrative Rules noise levels shown in **Table 3-1** without first obtaining a permit from the Director of the Department of Health.

Ground-Borne Vibration Adverse Effect Criteria

The proposed project would result in an adverse vibration effect if:

- Vibration levels exceed 0.3 inches per second at off-site engineered concrete and masonry buildings; and/or
- Vibration levels exceed 0.12 inches per second at historic structures.

6.0 ENVIRONMENTAL EFFECTS

6.1 CONSTRUCTION NOISE

Construction activity would result in temporary increases in ambient noise levels in the project area on an intermittent basis. Noise levels would fluctuate depending on the construction phase, equipment type and duration of use, distance between the noise source and receptor, and presence or absence of noise attenuation barriers. Typical noise levels from various types of equipment that may be used during construction are listed in **Table 6-1**. The table shows noise levels at distances of 50 and 100 feet from the construction noise source.

TABLE 6-1: MAXIMUM NOISE LEVELS OF COMMON CONSTRUCTION MACHINES

	Noise Level (dBA)	
Noise Source	**50 Feet /a/**	**100 Feet /a/**
Auger Drill Rig	77.4	71.3
Backhoe	73.6	67.6
Compressor (air)	73.7	67.7
Concrete Mixer Truck	74.8	68.8
Concrete Pump Truck	74.4	68.4
Crane	72.6	66.6
Dozer	77.7	71.7
Dump Truck	72.5	66.5
Excavator	76.7	70.7
Flat Bed Truck	70.3	64.3
Front End Loader	75.1	69.1
Gradall	79.4	73.4
Paver	74.2	68.2
Roller	73.0	67.0
Vibratory Pile Driver	93.8	87.8
Welder / Torch	70.0	64.0

/a/ Assumes a 6-dBA drop-off rate for noise generated by a "point source" and traveling over hard surfaces.
SOURCE: Federal Highway Administration, *Roadway Construction Noise Model, Version 1.1*, 2008.

Project-related construction noise may contribute to community noise levels. Instead of a quantitative construction noise threshold, HUD encourages the use of quieter construction equipment and methods in population centers. Construction activity would only occur from 7:00 a.m. to 6:00 p.m., Monday through Friday and 9:00 a.m. to 6:00 p.m. on Saturdays. Noise levels would depend on the construction activity, type of equipment, number of pieces of equipment operating, general condition, length of time each piece would operate per day, the presence or absence of noise-attenuating features such as walls or other intervening structures, and the location of construction noise sources relative to sensitive receptors. **Table 6-1** shows the maximum estimated noise levels that would be generated by the construction equipment at 50 feet during the various stages and the estimated duration of construction. Construction activity would be short-term and intermittent and located within a dense urban environment with many existing sources of noise. In addition, Noise Control Measures **N1** through **N8** would minimize potential adverse effects.

Construction Noise Control Measures

N1 The project applicant shall obtain a noise permit associated with exceeding a noise level of 78 dBA L_{eq} as discussed in the *Noise Reference Manual Oahu Edition*.

N2 The project applicant shall obtain a noise permit associated with exceeding the maximum permissible noise levels discussed in the Hawaii Administrative Rules.

N3 The construction contractor shall use specialty equipment with enclosed engines and/or high-performance mufflers.

N4 The construction contractor shall locate equipment and staging areas as far from noise-sensitive receivers as practicable.

N5 The construction contractor shall limit unnecessary idling of equipment.

N6 The construction contractor shall install temporary noise barriers to enclose stationary noise sources, such as compressors, generators, laydown and staging areas, and other noisy equipment.

N7 Prior to the commencement of construction activities, notification shall be provided to the on-site residential uses that discloses the construction schedule, including the various types of activities and equipment that would be occurring throughout the duration of the construction period.

N8 A "noise disturbance coordinator" shall be established. The noise disturbance coordinator shall be responsible for responding to any local complaints about construction noise. The noise disturbance coordinator shall determine the cause of the noise complaint (e.g., starting too early, bad muffler, etc.) and shall be required to implement reasonable measures such that the complaint is resolved. All notices that are posted at the construction site shall list the telephone number for the noise disturbance coordinator.

6.2 CONSTRUCTION VIBRATION

Construction activity can result in varying degrees of ground-borne vibration, depending on the equipment and methods employed. As shown in **Table 6-2**, use of heavy equipment (e.g., a large bulldozer or caisson drilling) typically generates vibration levels of 0.089 inches per second at a distance of 25 feet. Impact pile driving may be required for the proposed project which would generate a maximum vibration level of 1.518 inches per second or a typical vibration level of 0.644 inches per second.

TABLE 6-2: VIBRATION VELOCITIES FOR CONSTRUCTION EQUIPMENT

Equipment		**PPV at 25 feet (Inches/Second) /a/**
Pile Driver (impact)	Upper Range	1.518
	Typical	0.644
Caisson Drilling		0.089
Large Bulldozer		0.089
Loaded Trucks		0.076

/a/ Generally, historic buildings can be exposed to ground-borne vibration levels of 0.12 inches per second without experiencing structural damage.
SOURCE: Federal Transit Administration, *Transit Noise and Vibration Impact Assessment*, May 2006.

In extreme circumstances, equipment-related vibration can cause building damage. A number of buildings abut the project site, including Fuji Store and Tenement Houses, the Aldersgate United Methodist Church, the Agmata Building, Fujii Family Partnership. Liu Trading, and a Shell Gas Station. Site visits suggest that these buildings were constructed using engineered concrete and masonry. Federal guidance indicates that such buildings can withstand up to 0.3 inches per second without experiencing damage.[8] The use of construction equipment that would produce high levels of vibration, such as large bulldozers, jack hammers, and load trucks, could exceed this criterion if occurring within 11 feet of the buildings. However, the Fuji Store and Tenement Houses would be held to the vibration standard for historic resources, which is discussed below. Construction activity would only occur from 7:00 a.m. to 6:00 p.m., Monday through Friday and 9:00 a.m. to 6:00 p.m. on Saturdays. In addition, Vibration Control Measures **N9** through **N11** would minimize potential adverse effects associated with damage to adjacent buildings.

There are also several historic structures near the project site, including the Fuji Store and Tenement Houses adjacent to the project site along King Street, Palama Theater located approximately 200 feet to the west, Kaumakapili Church located approximately 420 feet to the northwest, and Tamashiro Market located approximately 690 feet to the northwest and O'ahu Railway and Land Company Depot – Honolulu Station located approximately 800 feet to the southwest. Federal guidance indicates that such buildings can withstand up to 0.12 inches per second without experiencing damage.[9] Vibration levels from construction equipment such as a large bulldozer would be 0.0039 at 200 feet and there is no potential for vibration to damage historic structures located at a distance of 22 feet or greater. However, the Fuji Store and Tenement Houses are adjacent to the project site and could experience vibrations levels above the 0.12 inches per second threshold. Vibration Control Measures **N9** through **N11** would minimize potential adverse effects associated with damage at the Fuji Store and Tenement Houses.

Construction Vibration Control Measures

N9 Prior to issuance of a grading/shoring permit, a qualified structural engineer shall survey the existing foundation and structural integrity of off-site buildings that will be located within 11 feet of large bulldozers and similar vibration-generating equipment and at the Fuji Store and Tenement Houses. The survey shall be submitted to the appropriate mitigation monitor. At the conclusion of vibration causing activities, the qualified structural engineer shall issue a follow-on letter describing damage, if any, to the adjacent buildings. The letter shall identify recommendations for any repair, and certify the completion of any repairs as necessary to confirm the integrity of the foundation and structure of the adjacent buildings.

N10 If the construction plans call for high-vibration construction activities being performed close to structures, the contractor may be required to use alternative procedures that produce lower vibration levels. Examples of high-vibration construction activities include the use of pavement breakers, vibratory compaction, and hoe rams next to sensitive buildings. Alternative procedures shall include the use of non-vibratory compaction in limited areas and concrete saws in place of jackhammers or pavement breakers for demolition.

[8]Federal Transit Administration, *Transit Noise and Vibration Impact Assessment*, May 2006.
[9]*Ibid*.

N11 If piles are required to support new structures, pile driving shall be prohibited in place of cast-in-drilled-hole (CIDH) piles or caissons.

6.3 OPERATIONAL NOISE

Land Use Compatibility

The surrounding neighborhood has a mix of residential and commercial uses, churches, community services. A detailed land use compatibility analysis was completed to assess noise level at new residential land uses along heavily traveled roadways.
Table 6-3 shows the monitored exterior noise levels and predicted interior noise levels. Monitored noise levels along Liliha Street and Pua Lane were less than the 65 dbA L_{dn} exterior standard. The monitored noise levels along Vineyard Boulevard and King Street were 67.8 dBA L_{dn} and 66.9 dBA L_{dn}, respectively. However, new construction typically provides at least 26 dBA exterior-to-interior noise reduction.[10] With this reduction, it is anticipated that interior noise levels at new residences would be less than the 45 dBA L_{dn} standard. In addition, the project is designed such that the majority of exterior useable space would be centrally located away from off-site sources of noise.

TABLE 6-3: RESIDENTIAL LAND USE COMPATIBILITY ANALYSIS

Roadway Segment	Exterior Noise Level (L_{dn} dBA)	Interior Noise Level (L_{dn} dBA) /a/
Vineyard Blvd.	**67.8**	41.8
Liliha St.	64.3	38.3
Pua Ln.	56.9	30.9
King St.	**66.9**	40.9

/a/ Typical single-pane windows (i.e., 7/16 inches) provide a minimum noise reduction of approximately 26 dBA with windows closed. Window noise reduction can be found in the HUD Noise Notebook, Chapter 4 Supplement, Sound Transmission Class Guidance.
SOURCE: TAHA, 2017; FTA, *Transit Noise and Vibration Impact Assessment Manual*, 2006; HUD, *The Noise Guidebook, Chapter 4 Supplement, Sound Transmission Class Guidance, Page A-25*, March 2009.

The project site is located approximately 2.6 miles from the end of runway 26R of the HNL. This location is within the 55 to 60 dBA L_{dn} noise contour of the HNL 2008 (Forecast) Five Year Noise Exposure Map (**Figure 6-1**). The FAA has published land use compatibility guidelines that can be used to assess potential noise impacts to new development projects.[11] The guidelines indicate that residential land uses exposed to aircraft-related noise levels of less than 65 dBA L_{dn} are compatible with the ambient noise environment. The current HNL noise contours indicate that project site is located in a compatible noise environment related to aircraft activities. In addition, as discussed in Section 4.0 Existing Setting, above, noise monitoring was completed at the project site. The noise monitoring accounted for noise generated by HNL activities in addition to other sources of noise such as roadway traffic. The estimated L_{dn} associated with all sources of existing noise was estimated to range from 56.9 dBA to 67.8 dBA. As shown in **Table 6-3**, above, it is estimated the interior noise levels at new residences would range from 36.3 to 41.8 dBA L_{dn}. This would be less than the 45 dBA L_{dn} standard recommended by HUD and residents would not be exposed to excessive 24-hour noise.

It is acknowledged that single-event noise would be audible at the project site depending on multiple variables, including time of day and type of plane. Single event noise levels represent the noise generated by a single aircraft overflight. Specifically, it is a measure the total noise

[10]HUD, *The Noise Guidebook, Chapter 4 Supplement, Sound Transmission Class Guidance, Page A-25*, March 2009
[11]FAA, *1050.1F Desk Reference, Chapter 11 - Noise and Noise-Compatible Land Use*, July 2015.

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energy from an overflight at a specific location. When excessive, single event noise activities can cause speech interference, sleep disturbance, and other negative effects. For aircraft noise, single event noise levels are typically about 10 dB higher than the maximum (L_{max}) noise levels. The L_{max} represents the maximum instantaneous noise energy at a specific location. The highest L_{max} monitored at the project site was 87.6 dBA, which results in a single event noise level of approximately 97.6 dBA. During the noise monitoring process, single event noise was not noted as being excessive during day or night time periods. In addition, as previously discussed, it is anticipated that interior noise levels would be consistent with applicable HUD standards for new residential development.

The HART will be fully operational in the year 2025 and will operate approximately 660 feet to the southwest of the project site along Dillingham Boulevard and Kaahi Street. The FTA has stated that light rail transit projects have no potential to impact sensitive land uses and distances greater than 350 feet.[12] A detailed analysis was completed to confirm this finding at the project site. The analysis was based on FTA guidance and used information obtained from the Honolulu High-Capacity Transit Corridor Project Final Environmental Impact Statement, prepared in June 2010. The analysis indicated that HART-related noise levels would be 48.0 dBA L_{dn} at the project site, which would be well below the existing 24-hour noise levels shown in **Table 4-1**.

Project-Related Transportation Noise

Traffic will be the dominant noise source during project operation. The proposed project would generate approximately 5,065 net new vehicles trips at 50 percent buildout in 2022, with approximately 235 a.m. peak hour trips and 502 p.m. peak hour trips. At full buildout in 2028, the proposed project would generate approximately 10,085 net new vehicles trips, with approximately 578 a.m. peak hour trips and 959 p.m. peak hour trips. In addition to traffic noise, the HART will be fully operational in the year 2025 and will operate approximately 660 feet to the southwest of the project site along Dillingham Boulevard and Kaahi Street. Railway noise has been taken into account for assessment of future year 2028 operations. Noise levels during the project's 50 percent buildout in 2022 and 100 percent buildout in 2028 were calculated using HUD's Day/Night Noise Level calculator, which is explained in detail under Section 5.0 Methodology and Significance Criteria. A comparison between the future year without project and future year with project scenarios was conducted for both years 2022 and 2028. **Table 6-4** shows anticipated noise levels for the year 2022 and **Table 6-5** shows noise levels for the year 2028. **Figure 4-1**, above shows the four NALs.

TABLE 6-4: FUTURE 2022 NOISE LEVELS

	Estimated dBA, L_{dn}			
NAL	**Noise Without Project**	**Noise With Project**	**Increase (dBA, L_{dn})**	**Exceed 5 dBA Increase?**
1	65.9	66.0	0.1	No
2	55.9	56.8	0.9	No
3	66.0	67.7	1.7	No
4	63.7	63.8	0.1	No
5	60.8	60.9	0.1	No
6	57.0	57.2	0.2	No
7	61.8	61.9	0.1	No
8	57.5	57.6	0.1	No
9	62.8	62.9	0.1	No

SOURCE: TAHA, 2017.

[12]Federal Transit Administration, *Transit Noise and Vibration Impact Assessment*, May 2006.

TABLE 6-5: FUTURE 2028 NOISE LEVELS

NAL	Estimated dBA, L_{dn}			
	Noise Without Project	Noise With Project	Increase (dBA, L_{dn})	Exceed 5 dBA Increase?
1	66.0	66.3	0.3	No
2	56.2	57.6	1.4	No
3	67.8	67.9	0.1	No
4	63.8	64.0	0.2	No
5	60.9	61.1	0.2	No
6	57.1	57.4	0.3	No
7	65.2	65.3	0.1	No
8	57.6	57.8	0.2	No
9	62.9	63.0	0.1	No

SOURCE: TAHA, 2017.

The proposed project's maximum contribution to increasing noise levels in the year 2022 would occur at NAL 3, with an increase of 1.7 dBA L_{dn} above future without project noise levels. The maximum increase for the year 2028 would occur at NAL 2, with an increase of 1.4 dBA L_{dn} above future without project noise levels. The proposed project's contribution to mobile source noise levels would be would be less than 3 dBA for both years 2022 and 2028 and would not result in an adverse effect related to increasing noise levels at on-site or off-site sensitive receptors.

Stationary Noise

The primary stationary source of noise would be the operation of ventilation and air conditioning systems. The precise location of these systems is unknown at this time as detailed site plans have not been developed. Possible locations include street level and rooftops. Mechanical equipment such as ventilation and air conditioning systems typically generate noise levels of approximately 60 dBA L_{eq} at 50 feet without enclosures. Enclosures typically reduce noise levels by at least 10 dBA. Noise generated by mechanical equipment must meet the maximum permissible noise limits shown in **Table 3-1**. Modern developments typically include enclosed or fully shielded from view mechanical equipment. In addition, Noise Control Measure **N12** would ensure noise levels would be consistent with noise regulations.

Operational Noise Control Measures

N12 The project applicant shall require mechanical equipment (e.g., ventilation and air conditioning systems) to be enclosed such that noise levels do not exceed the maximum permissible noise levels listed in the Hawaii Administrative Rules.

6.4 OPERATIONAL VIBRATION

The proposed project would not include significant stationary sources of ground-borne vibration. Operational ground-borne vibration in the project vicinity would be generated by vehicular travel on the local roadways. However, similar to existing conditions, project-related traffic vibration levels would not be perceptible outside the roadway right-of-way. Therefore, the proposed project would not result in adverse effect related to the operational vibration.

7.0 CUMULATIVE EFFECTS

7.1 Federal

The National Environmental Policy Act (NEPA) requires that any agency proposing a major federal action, which may significantly affect the environment, consider the environmental impacts of the proposed action, any unavoidable adverse environmental impacts, and the relationship between local short term uses and long term productivity of the environment (42 United States Code 4332(c)). There are three types or categories of effect that must be considered during the NEPA process: direct, indirect, and cumulative (40 CFR 1508.25). A direct effect is one which is caused directly by our activities, at the same time, and in the same place. An indirect effect is a reasonably foreseeable effect caused by the proposed action or alternatives, but occurs later in time or are further removed from the project site than a direct effect. "Indirect effects may include growth inducing effects and other effects related to induced changes in the pattern of land use, population density or growth rate," and related effects on resources (40 CFR 1508.8(b)). A cumulative effect is an "impact on the environment which results from the incremental effect of the action when added to other past, present, and reasonably foreseeable future actions" (40 CFR 1508.7). Cumulative effects can result from individually minor but collectively significant actions taking place over time (40 CFR 1508.7).

A cumulative effects analysis is required whenever an Environmental Impact Statement is prepared in accordance with NEPA. A project must have a direct and/or indirect effect on a specific resource to exert a cumulative influence. If no direct and/or indirect effect to a specific resource is expected, there is no need to consider cumulative effects to that resource. As previously discussed, the proposed project would not result in an adverse noise or vibration effect. The HART project is located approximately 660 feet to the southwest. The HART project would be in its construction phase concurrently with construction of the proposed project. However, at a distance of 660 feet it is unlikely for the HART project to combine with the proposed project to produce a cumulative construction noise or vibration impact. HART operational noise levels were assessed as a part of the transportation noise analysis and were found to be not adverse when combined with the proposed project's operational noise levels. Therefore, a cumulative effect would not occur under NEPA regulations.

7.2 State

Section 11-200-2 of the Hawaii Administrative Rules contains the definition of a "cumulative impact" for Environmental Impact Statements. A "cumulative impact" is defined as the impact on the environment, which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency or person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time.

Noise and vibration generated by the proposed project would generally be contained to the project site and unlikely to interact with past, present, and reasonably foreseeable future actions in the immediate vicinity to increase noise and vibration. Project-related vehicle trips would combine with past, present, and reasonably foreseeable future actions to increase traffic noise on the roadway network. **Tables 6-4** and **6-5**, above, include noise levels associated with traffic growth unrelated to the proposed project in years 2022 and 2028. The analysis demonstrates that a cumulative increase in traffic volumes would not result in an adverse effect resulting from an off-site mobile noise level increase. Therefore, a cumulative effect would not occur under State regulations.

Appendix

Calculations and Formulas

FTA DNL Calculation_Option 3

Formula: Ldn = 10Log (3*10^[(Leq (peak Hour) - 2)/10] + 12*10^[(Leq (midday) - 2)/10] + 9*10^[(Leq (latenight)+8)/10]) -13.8

Site	Peak Traffic (dBA, Leq)	Midday (dBA, Leq)	Evening (dBA, Leq)	Ldn
1	71.4	71.0	66.1	67.8
2	68.0	67.8	61.3	64.3
3	61.4	60.0	54.7	56.9
4	71.8	70.2	62.3	66.9

Source: FTA, *Transit Noise and Vibration Impact Assessment* , *page D-3* , 2006

Train Volume Calculations

Time of Day	Hours	System Headway (minutes)	Trains Per Time Period
4 a.m. to 6 a.m.	2	6	40
6 a.m. to 9 a.m.	3	3	120
9 a.m. to 3 p.m.	7	6	140
3 p.m. to 6 p.m.	3	3	120
6 p.m. to 8 p.m.	2	6	40
8 p.m. to midnight	4	10	48
Trains Per Day			508
Trains Per Year			

Night (10 pm to 7 am
% Operations 20.47

Source: Table 2-25 Honolulu High-Capicity Transit Corridor Project DEIR, page 2-20

Train Top Speed 50 mph
Average Speed 30 mph

Source: Operating Parameters, Honolulu High-Capaity Transit Corridor Project DEIR, page 2-20

Vehicles Per Train 4

Source: HART FAQs available at http://www.honolulutransit.org/inform/rail-facts?view=faq&catid=3

Nightime Operation Calculation			
Time of Day	Hours	System Headway (minutes)	Trains Per Time Period
10 p.m. to Midnight	2	10	24
4 a.m. to 6 a.m.	2	6	40
7 a.m.	1	3	40
Nightime Trains per Day			104

Vibration PPV Attenuation

Equation: PPVequip = PPVref x (25/D)^1.5
PPV (equip) is the peak particle velocity in in/sec of the equipment adjusted for distance
PPV (ref) is the reference vibration level in in/sec at 25 feet from Table 12-2
D is the distance from the equipment to the receiver.

Source: Federal Transit Administration, Transit Noise and Vibration Impact Assessment, May 2006.

Monitoring Data

Site 1_Peak Traffic

Information Panel

Name	Mayor Wright Site 1_Peak Traffic
Start Time	Thursday, April 27, 2017 11:05:02
Stop Time	Thursday, April 27, 2017 11:20:02
Device Model Type	SoundPro DL
Comments	

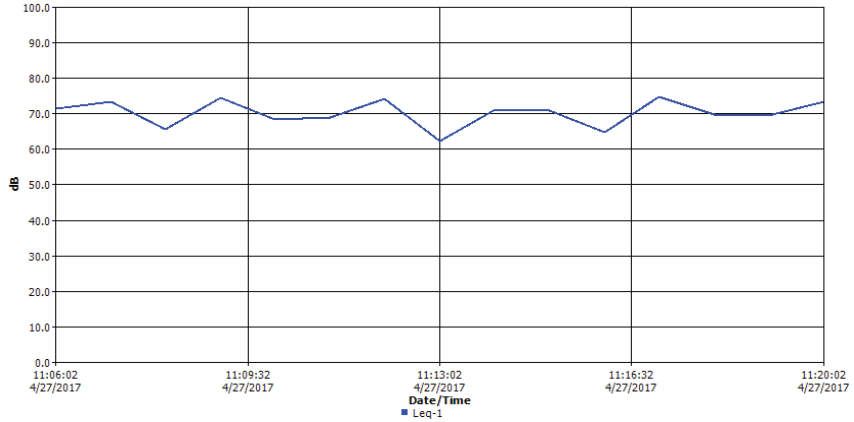
General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	71.3 dB	Lmax	1	82.4 dB
Lmin	1	53.5 dB	Exchange Rate	1	3 dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	5 dB
Weighting	2	C	Response	2	FAST

Logged Data Table

Timestamp	Leq-1
4/27/2017 11:06:02 AM	71.4
4/27/2017 11:07:02 AM	73.4
4/27/2017 11:08:02 AM	65.4
4/27/2017 11:09:02 AM	74.4
4/27/2017 11:10:02 AM	68.4
4/27/2017 11:11:02 AM	68.9
4/27/2017 11:12:02 AM	74.0
4/27/2017 11:13:02 AM	62.1
4/27/2017 11:14:02 AM	71.0
4/27/2017 11:15:02 AM	70.8
4/27/2017 11:16:02 AM	64.8
4/27/2017 11:17:02 AM	74.6
4/27/2017 11:18:02 AM	69.8
4/27/2017 11:19:02 AM	69.4
4/27/2017 11:20:02 AM	73.4

Logged Data Chart



Site 1_Midday

Information Panel

Name	Mayor Wright Site 1_Midday
Start Time	Thursday, April 27, 2017 14:12:44
Stop Time	Thursday, April 27, 2017 14:27:44
Device Model Type	SoundPro DL
Comments	

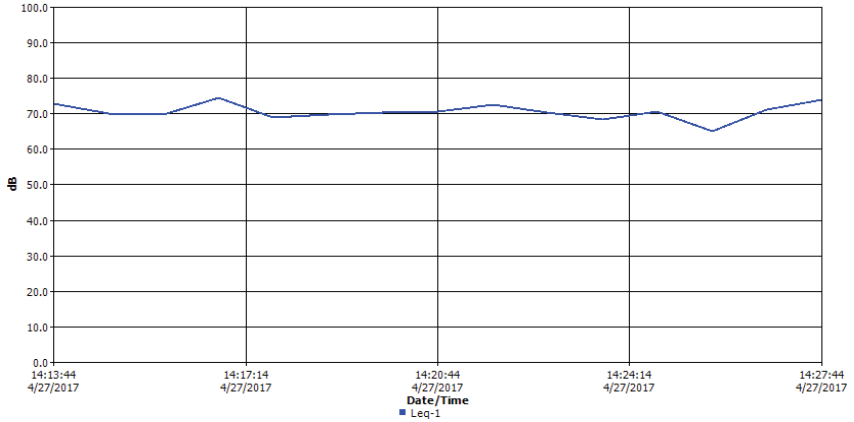
General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	71 dB	Lmin	1	52.8 dB
Lmax	1	83.4 dB	Exchange Rate	1	3 dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	5 dB
Weighting	2	C	Response	2	FAST

Logged Data Table

Timestamp	Leq-1
4/27/2017 2:13:44 PM	72.6
4/27/2017 2:14:44 PM	69.9
4/27/2017 2:15:44 PM	69.6
4/27/2017 2:16:44 PM	74.5
4/27/2017 2:17:44 PM	68.7
4/27/2017 2:18:44 PM	69.7
4/27/2017 2:19:44 PM	70.2
4/27/2017 2:20:44 PM	70.4
4/27/2017 2:21:44 PM	72.3
4/27/2017 2:22:44 PM	70.2
4/27/2017 2:23:44 PM	68.4
4/27/2017 2:24:44 PM	70.5
4/27/2017 2:25:44 PM	64.9
4/27/2017 2:26:44 PM	71.0
4/27/2017 2:27:44 PM	73.8

Logged Data Chart



Site 1_Evening

Information Panel

Name	Mayor Wright Site 1_Evening
Start Time	Thursday, April 27, 2017 01:17:09
Stop Time	Thursday, April 27, 2017 01:32:09
Device Model Type	SoundPro DL
Comments	

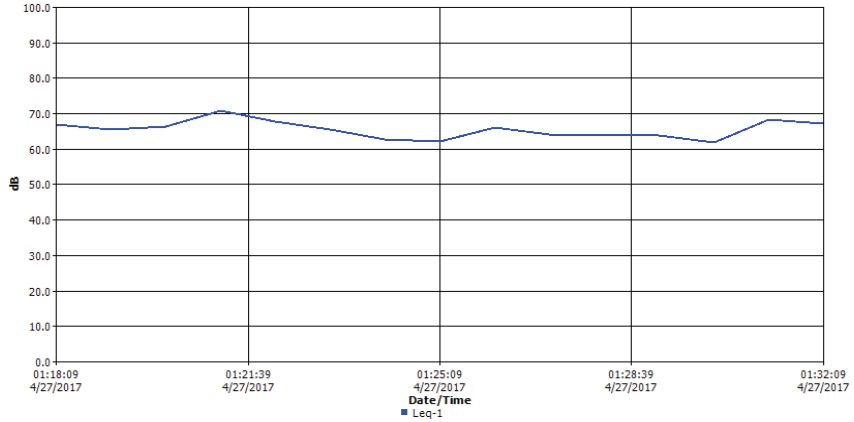
General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	66.1 dB	Lmin	1	50.1 dB
Lmax	1	83.4 dB	Exchange Rate	1	3 dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	5 dB
Weighting	2	C	Response	2	FAST

Logged Data Table

Timestamp	Leq-1
4/27/2017 1:18:09 AM	66.8
4/27/2017 1:19:09 AM	65.3
4/27/2017 1:20:09 AM	66.2
4/27/2017 1:21:09 AM	70.8
4/27/2017 1:22:09 AM	67.6
4/27/2017 1:23:09 AM	65.5
4/27/2017 1:24:09 AM	62.5
4/27/2017 1:25:09 AM	62.0
4/27/2017 1:26:09 AM	66.0
4/27/2017 1:27:09 AM	64.0
4/27/2017 1:28:09 AM	63.6
4/27/2017 1:29:09 AM	63.7
4/27/2017 1:30:09 AM	61.8
4/27/2017 1:31:09 AM	68.2
4/27/2017 1:32:09 AM	67.2

Logged Data Chart



Site 2_Peak Traffic

Information Panel

Name	Mayor Wright Site 2_Peak Traffic
Start Time	Thursday, April 27, 2017 11:26:24
Stop Time	Thursday, April 27, 2017 11:41:24
Device Model Type	SoundPro DL
Comments	

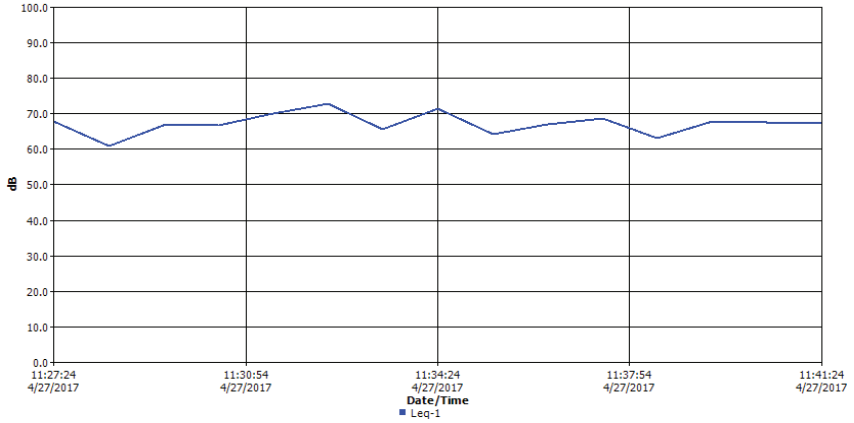
General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	67.9 dB	Lmax	1	82.7 dB
Lmin	1	56.4 dB	Exchange Rate	1	3 dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	5 dB
Weighting	2	C	Response	2	FAST

Logged Data Table

Timestamp	Leq-1
4/27/2017 11:27:24 AM	67.8
4/27/2017 11:28:24 AM	60.8
4/27/2017 11:29:24 AM	66.6
4/27/2017 11:30:24 AM	66.7
4/27/2017 11:31:24 AM	70.0
4/27/2017 11:32:24 AM	72.7
4/27/2017 11:33:24 AM	65.5
4/27/2017 11:34:24 AM	71.2
4/27/2017 11:35:24 AM	64.0
4/27/2017 11:36:24 AM	66.9
4/27/2017 11:37:24 AM	68.6
4/27/2017 11:38:24 AM	63.1
4/27/2017 11:39:24 AM	67.6
4/27/2017 11:40:24 AM	67.4
4/27/2017 11:41:24 AM	67.1

Logged Data Chart



Site 2_Midday

Information Panel

Name	Mayor Wright Site 2_Midday
Start Time	Thursday, April 27, 2017 14:33:28
Stop Time	Thursday, April 27, 2017 14:48:28
Device Model Type	SoundPro DL
Comments	

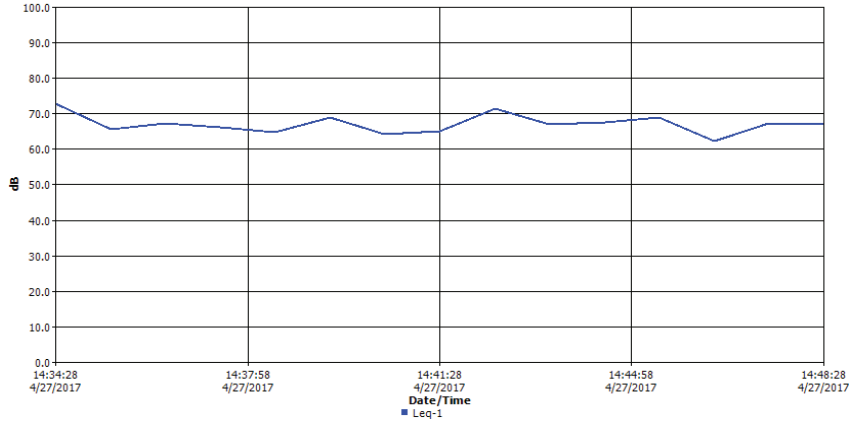
General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	67.8 dB	Exchange Rate	1	3 dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	5 dB
Weighting	2	C	Response	2	FAST

Logged Data Table

Timestamp	Leq-1
4/27/2017 2:34:28 PM	72.6
4/27/2017 2:35:28 PM	65.4
4/27/2017 2:36:28 PM	67.3
4/27/2017 2:37:28 PM	66.0
4/27/2017 2:38:28 PM	64.8
4/27/2017 2:39:28 PM	68.9
4/27/2017 2:40:28 PM	64.2
4/27/2017 2:41:28 PM	65.0
4/27/2017 2:42:28 PM	71.3
4/27/2017 2:43:28 PM	66.9
4/27/2017 2:44:28 PM	67.5
4/27/2017 2:45:28 PM	68.8
4/27/2017 2:46:28 PM	62.3
4/27/2017 2:47:28 PM	67.1
4/27/2017 2:48:28 PM	66.9

Logged Data Chart



Site 2_Evening

Information Panel

Name	Mayor Wright Site 2_Evening
Start Time	Thursday, April 27, 2017 01:37:11
Stop Time	Thursday, April 27, 2017 01:52:11
Device Model Type	SoundPro DL
Comments	

General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	61.3 dB	Lmin	1	47.1 dB
Lmax	1	78.7 dB	Exchange Rate	1	3 dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	5 dB
Weighting	2	C	Response	2	FAST

Logged Data Table

Timestamp	Leq-1
4/27/2017 1:38:11 AM	66.4
4/27/2017 1:39:11 AM	63.9
4/27/2017 1:40:11 AM	57.3
4/27/2017 1:41:11 AM	55.5
4/27/2017 1:42:11 AM	55.6
4/27/2017 1:43:11 AM	56.8
4/27/2017 1:44:11 AM	58.6
4/27/2017 1:45:11 AM	64.4
4/27/2017 1:46:11 AM	63.7
4/27/2017 1:47:11 AM	52.4
4/27/2017 1:48:11 AM	59.0
4/27/2017 1:49:11 AM	62.7
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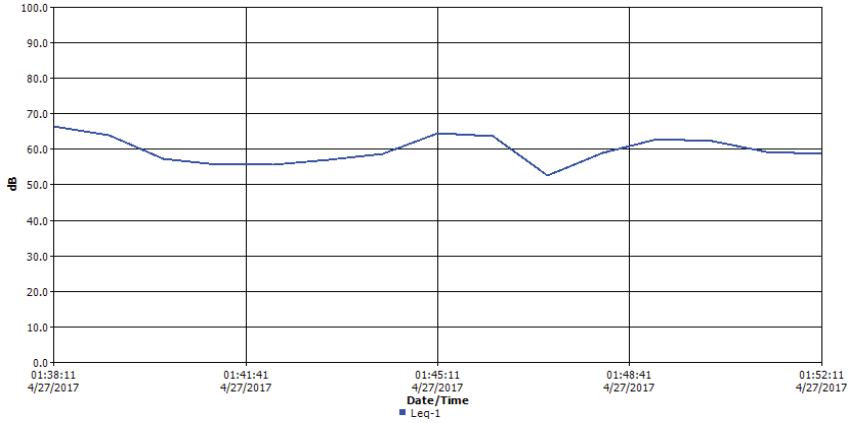
Logged Data Chart



Site 3_Peak Traffic

Information Panel

Name	Mayor Wright Site 3_Peak Traffic
Start Time	Thursday, April 27, 2017 10:43:16
Stop Time	Thursday, April 27, 2017 10:58:16
Device Model Type	SoundPro DL
Comments	

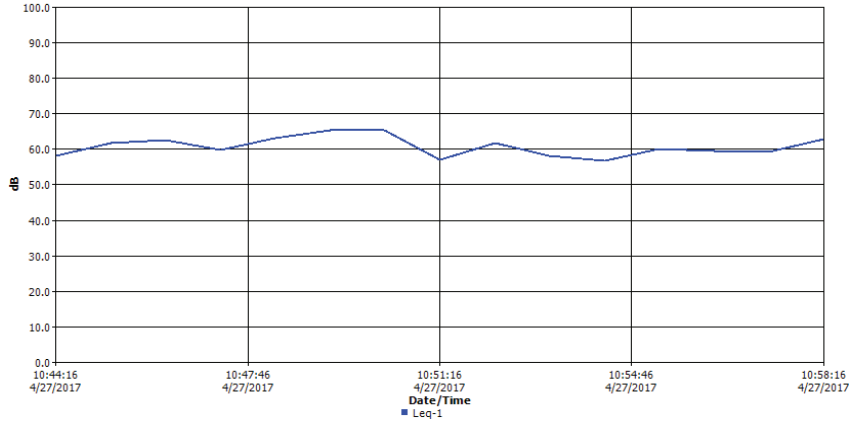
General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	61.4 dB	Lmax	1	76.3 dB
Lmin	1	50.5 dB	Exchange Rate	1	3 dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	5 dB
Weighting	2	C	Response	2	FAST

Logged Data Table

Timestamp	Leq-1
4/27/2017 10:44:16 AM	58.1
4/27/2017 10:45:16 AM	61.6
4/27/2017 10:46:16 AM	62.6
4/27/2017 10:47:16 AM	59.7
4/27/2017 10:48:16 AM	63.0
4/27/2017 10:49:16 AM	65.1
4/27/2017 10:50:16 AM	65.1
4/27/2017 10:51:16 AM	56.9
4/27/2017 10:52:16 AM	61.5
4/27/2017 10:53:16 AM	57.9
4/27/2017 10:54:16 AM	56.7
4/27/2017 10:55:16 AM	60.1
4/27/2017 10:56:16 AM	59.5
4/27/2017 10:57:16 AM	59.1
4/27/2017 10:58:16 AM	62.7

Logged Data Chart



Site 3_Midday

Information Panel

Name	Mayor Wright Site 3_Midday
Start Time	Thursday, April 27, 2017 13:50:57
Stop Time	Thursday, April 27, 2017 14:05:57
Device Model Type	SoundPro DL
Comments	

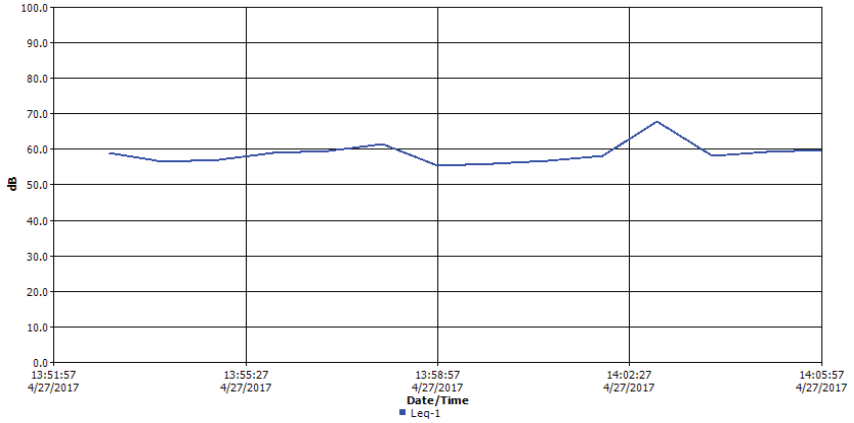
General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	60 dB	Exchange Rate	1	3 dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	5 dB
Weighting	2	C	Response	2	FAST

Logged Data Table

Timestamp	Leq-1
4/27/2017 1:51:57 PM	58.5
4/27/2017 1:52:57 PM	58.8
4/27/2017 1:53:57 PM	56.4
4/27/2017 1:54:57 PM	57.0
4/27/2017 1:55:57 PM	58.9
4/27/2017 1:56:57 PM	59.3
4/27/2017 1:57:57 PM	61.4
4/27/2017 1:58:57 PM	55.2
4/27/2017 1:59:57 PM	55.8
4/27/2017 2:00:57 PM	56.7
4/27/2017 2:01:57 PM	58.1
4/27/2017 2:02:57 PM	67.6
4/27/2017 2:03:57 PM	57.9
4/27/2017 2:04:57 PM	59.2
4/27/2017 2:05:57 PM	59.7

Logged Data Chart



Site 3_Evening

Information Panel

Name	Mayor Wright Site 3_Evening
Start Time	Thursday, April 27, 2017 00:54:34
Stop Time	Thursday, April 27, 2017 01:09:34
Device Model Type	SoundPro DL
Comments	

General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	54.7 dB	Lmax	1	69.8 dB
Lmin	1	47.8 dB	Exchange Rate	1	3 dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	5 dB
Weighting	2	C	Response	2	FAST

Logged Data Table

Timestamp	Leq-1
4/27/2017 12:55:34 AM	52.2
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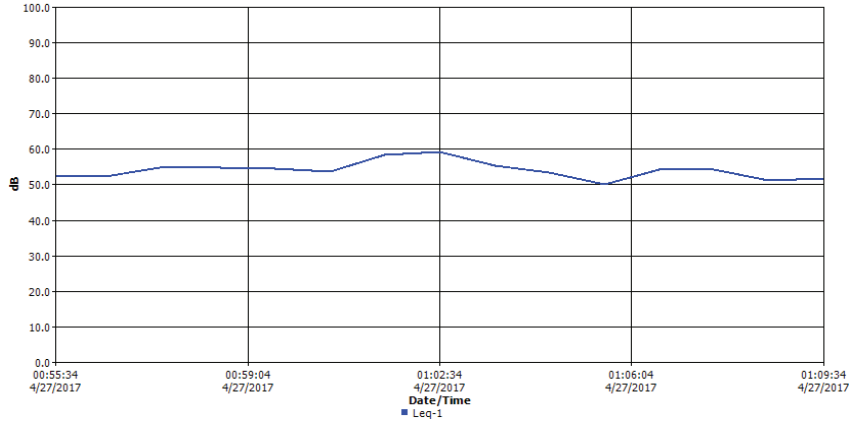
4/27/2017 12:57:34 AM	55.1
4/27/2017 12:58:34 AM	54.6
4/27/2017 12:59:34 AM	54.3
4/27/2017 1:00:34 AM	53.6
4/27/2017 1:01:34 AM	58.4
4/27/2017 1:02:34 AM	59.2
4/27/2017 1:03:34 AM	55.3
4/27/2017 1:04:34 AM	53.3
4/27/2017 1:05:34 AM	50.1
4/27/2017 1:06:34 AM	54.2
4/27/2017 1:07:34 AM	54.1
4/27/2017 1:08:34 AM	51.1
4/27/2017 1:09:34 AM	51.7

Logged Data Chart



Site 4_Peak Traffic

Information Panel

Name	Mayor Wright Site 4_Peak Traffic
Start Time	Thursday, April 27, 2017 11:48:07
Stop Time	Thursday, April 27, 2017 12:03:07
Device Model Type	SoundPro DL
Comments	

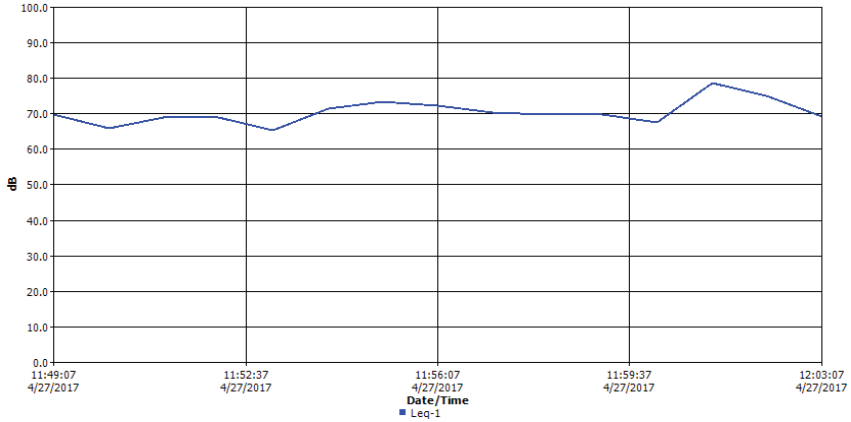
General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	71.8 dB	Lmax	1	87.6 dB
Lmin	1	58.9 dB	Exchange Rate	1	3 dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	5 dB
Weighting	2	C	Response	2	FAST

Logged Data Table

Timestamp	Leq-1
4/27/2017 11:49:07 AM	69.8
4/27/2017 11:50:07 AM	65.7
4/27/2017 11:51:07 AM	68.8
4/27/2017 11:52:07 AM	68.8
4/27/2017 11:53:07 AM	65.1
4/27/2017 11:54:07 AM	71.4
4/27/2017 11:55:07 AM	73.3
4/27/2017 11:56:07 AM	72.1
4/27/2017 11:57:07 AM	70.1
4/27/2017 11:58:07 AM	69.8
4/27/2017 11:59:07 AM	69.8
4/27/2017 12:00:07 PM	67.5
4/27/2017 12:01:07 PM	78.5
4/27/2017 12:02:07 PM	74.9
4/27/2017 12:03:07 PM	69.0

Logged Data Chart



Site 4_Midday

Information Panel

Name	Mayor Wright Site 4_Midday
Start Time	Thursday, April 27, 2017 14:54:54
Stop Time	Thursday, April 27, 2017 15:09:54
Device Model Type	SoundPro DL
Comments	

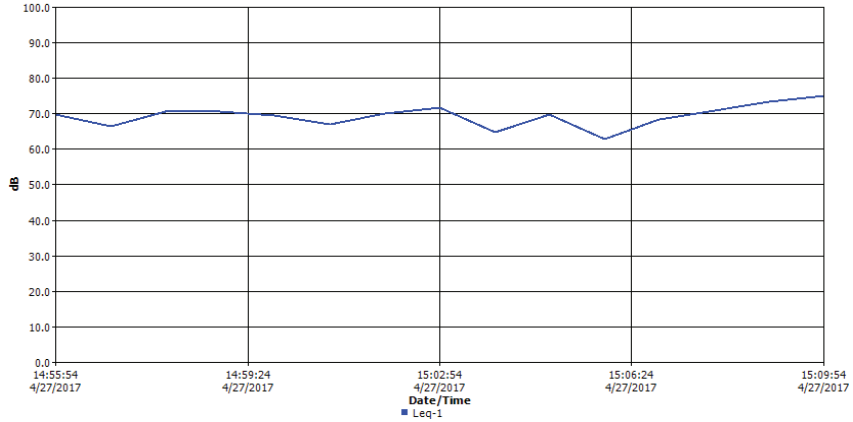
General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	70.2 dB	Lmax	1	86 dB
Lmin	1	58 dB	Exchange Rate	1	3 dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	5 dB
Weighting	2	C	Response	2	FAST

Logged Data Table

Timestamp	Leq-1
4/27/2017 2:55:54 PM	69.6
4/27/2017 2:56:54 PM	66.3
4/27/2017 2:57:54 PM	70.5
4/27/2017 2:58:54 PM	70.5
4/27/2017 2:59:54 PM	69.3
4/27/2017 3:00:54 PM	66.9
4/27/2017 3:01:54 PM	70.0
4/27/2017 3:02:54 PM	71.6
4/27/2017 3:03:54 PM	64.7
4/27/2017 3:04:54 PM	69.8
4/27/2017 3:05:54 PM	62.7
4/27/2017 3:06:54 PM	68.2
4/27/2017 3:07:54 PM	70.7
4/27/2017 3:08:54 PM	73.2
4/27/2017 3:09:54 PM	74.8

Logged Data Chart



Site 4_Evening

Information Panel

Name	Mayor Wright Site 4_Evening
Start Time	Thursday, April 27, 2017 01:58:18
Stop Time	Thursday, April 27, 2017 02:13:18
Device Model Type	SoundPro DL
Comments	

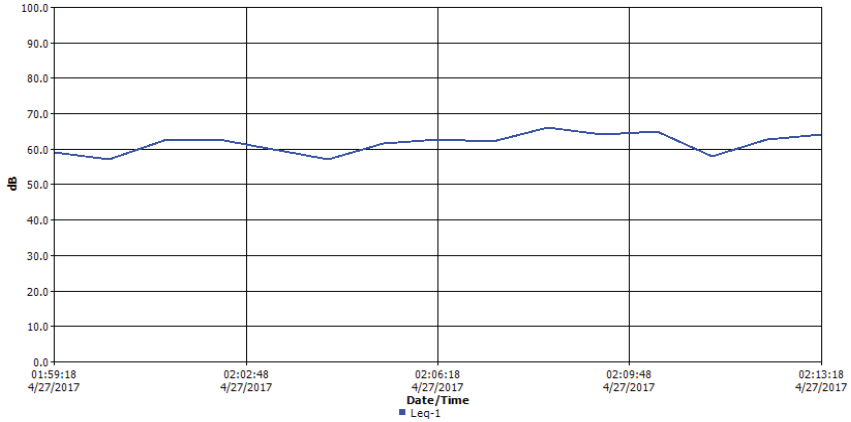
General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	62.3 dB	Lmin	1	49.5 dB
Lmax	1	75.3 dB	Exchange Rate	1	3 dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	5 dB
Weighting	2	C	Response	2	FAST

Logged Data Table

Timestamp	Leq-1
4/27/2017 1:59:18 AM	58.9
4/27/2017 2:00:18 AM	56.9
4/27/2017 2:01:18 AM	62.3
4/27/2017 2:02:18 AM	62.5
4/27/2017 2:03:18 AM	59.9
4/27/2017 2:04:18 AM	57.0
4/27/2017 2:05:18 AM	61.5
4/27/2017 2:06:18 AM	62.6
4/27/2017 2:07:18 AM	62.0
4/27/2017 2:08:18 AM	66.0
4/27/2017 2:09:18 AM	64.0
4/27/2017 2:10:18 AM	64.8
4/27/2017 2:11:18 AM	57.9
4/27/2017 2:12:18 AM	62.6
4/27/2017 2:13:18 AM	64.1

Logged Data Chart



Site 5_Peak Traffic

Information Panel

Name	Mayor Wright Site 5_Peak Traffic
Start Time	Thursday, April 27, 2017 15:38:15
Stop Time	Thursday, April 27, 2017 15:53:15
Device Model Type	SoundPro DL
Comments	

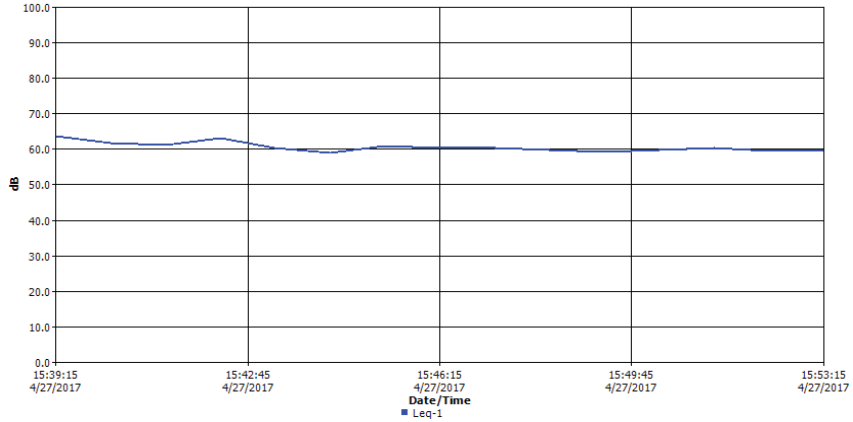
General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	60.7 dB	Lmax	1	78.7 dB
Lmin	1	57.8 dB	Exchange Rate	1	3 dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	5 dB
Weighting	2	C	Response	2	FAST

Logged Data Table

Timestamp	Leq-1
4/27/2017 3:39:15 PM	63.5
4/27/2017 3:40:15 PM	61.5
4/27/2017 3:41:15 PM	61.0
4/27/2017 3:42:15 PM	63.0
4/27/2017 3:43:15 PM	60.3
4/27/2017 3:44:15 PM	59.0
4/27/2017 3:45:15 PM	60.9
4/27/2017 3:46:15 PM	60.3
4/27/2017 3:47:15 PM	60.3
4/27/2017 3:48:15 PM	59.7
4/27/2017 3:49:15 PM	59.2
4/27/2017 3:50:15 PM	59.7
4/27/2017 3:51:15 PM	60.2
4/27/2017 3:52:15 PM	59.5
4/27/2017 3:53:15 PM	59.4

Logged Data Chart



Site 6_Peak Traffic

Information Panel

Name	Mayor Wright Site 6_Peak Traffic
Start Time	Thursday, April 27, 2017 16:02:53
Stop Time	Thursday, April 27, 2017 16:17:53
Device Model Type	SoundPro DL
Comments	

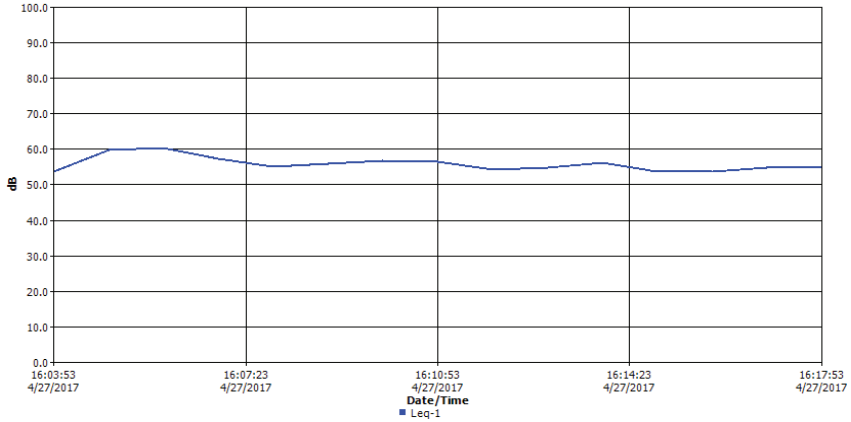
General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	56.2 dB	Lmax	1	68.8 dB
Lmin	1	52.3 dB	Exchange Rate	1	3 dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	5 dB
Weighting	2	C	Response	2	FAST

Logged Data Table

Timestamp	Leq-1
4/27/2017 4:03:53 PM	53.5
4/27/2017 4:04:53 PM	59.7
4/27/2017 4:05:53 PM	60.3
4/27/2017 4:06:53 PM	57.3
4/27/2017 4:07:53 PM	54.9
4/27/2017 4:08:53 PM	55.9
4/27/2017 4:09:53 PM	56.7
4/27/2017 4:10:53 PM	56.5
4/27/2017 4:11:53 PM	54.1
4/27/2017 4:12:53 PM	54.6
4/27/2017 4:13:53 PM	56.1
4/27/2017 4:14:53 PM	53.7
4/27/2017 4:15:53 PM	53.6
4/27/2017 4:16:53 PM	54.8
4/27/2017 4:17:53 PM	54.7

Logged Data Chart



Site 7_Peak Traffic

Information Panel

Name	Mayor Wright Site 7_Peak Traffic
Start Time	Thursday, April 27, 2017 16:30:23
Stop Time	Thursday, April 27, 2017 16:45:23
Device Model Type	SoundPro DL
Comments	

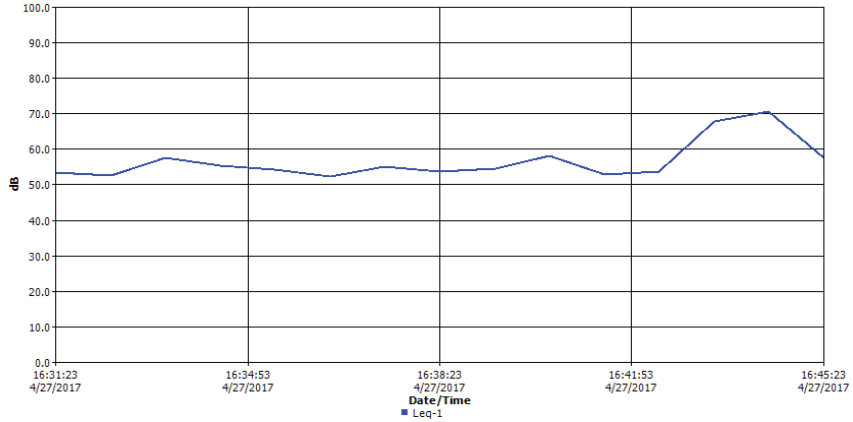
General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	61.4 dB	Lmax	1	83.4 dB
Lmin	1	50.3 dB	Exchange Rate	1	3 dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	5 dB
Weighting	2	C	Response	2	FAST

Logged Data Table

Timestamp	Leq-1
4/27/2017 4:31:23 PM	53.2
4/27/2017 4:32:23 PM	52.5
4/27/2017 4:33:23 PM	57.6
4/27/2017 4:34:23 PM	55.4
4/27/2017 4:35:23 PM	54.1
4/27/2017 4:36:23 PM	52.1
4/27/2017 4:37:23 PM	55.0
4/27/2017 4:38:23 PM	53.7
4/27/2017 4:39:23 PM	54.5
4/27/2017 4:40:23 PM	58.1
4/27/2017 4:41:23 PM	52.9
4/27/2017 4:42:23 PM	53.7
4/27/2017 4:43:23 PM	67.7
4/27/2017 4:44:23 PM	70.4
4/27/2017 4:45:23 PM	57.6

Logged Data Chart



Site 8_Peak Traffic

Information Panel

Name	Mayor Wright Site 8_Peak Traffic
Start Time	Thursday, April 27, 2017 15:13:29
Stop Time	Thursday, April 27, 2017 15:28:29
Device Model Type	SoundPro DL
Comments	

General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	59.9 dB	Lmin	1	53 dB
Lmax	1	75.4 dB	Exchange Rate	1	3 dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	5 dB
Weighting	2	C	Response	2	FAST

Logged Data Table

Timestamp	Leq-1
4/27/2017 3:14:29 PM	63.3
4/27/2017 3:15:29 PM	59.7
4/27/2017 3:16:29 PM	60.2
4/27/2017 3:17:29 PM	58.5
4/27/2017 3:18:29 PM	60.5
4/27/2017 3:19:29 PM	61.5
4/27/2017 3:20:29 PM	59.1
4/27/2017 3:21:29 PM	56.0
4/27/2017 3:22:29 PM	58.5
4/27/2017 3:23:29 PM	61.9
4/27/2017 3:24:29 PM	59.2
4/27/2017 3:25:29 PM	57.1
4/27/2017 3:26:29 PM	59.8
4/27/2017 3:27:29 PM	60.1
4/27/2017 3:28:29 PM	58.4

Logged Data Chart

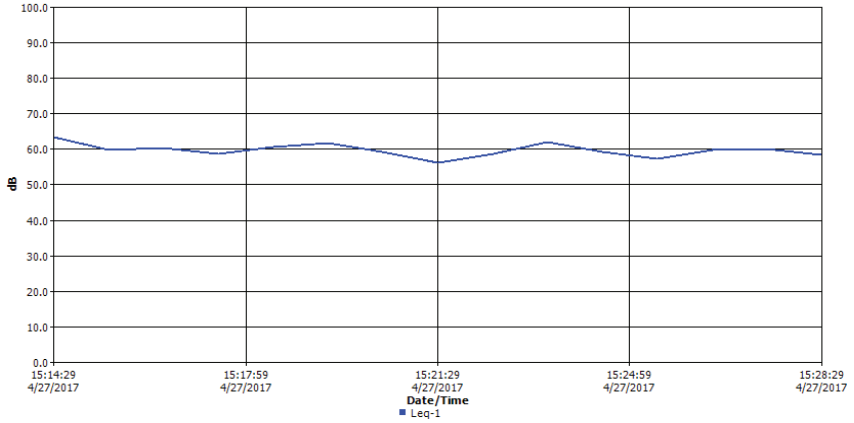


EXHIBIT 16

U.S. Department of Housing and Urban Development
San Francisco Regional Office, Region IX
450 Golden Gate Avenue
San Francisco, California 94102-3448

MAY 13 1991

MEMORANDUM FOR: C. Raphael Mecham, Director, Indian Programs Office, 9OIP
Lily Lee, Manager, Fresno Office, 9.1S
Gordan Y. Furutani, Manager, Honolulu Office, 9.2S
Charles Ming, Manager, Los Angeles Office, 9.4S
Dwight A. Peterson, Manager, Phoenix Office, 9.5S
Anthony A. Randolph, Manager, Sacramento Office, 9.7S
Jeanne Staley, Manager, Tucson Office, 9.10S

FROM: Robert J. De Monte, Regional Administrator-Regional Housing Commissioner, 9S

SUBJECT: Implementation of the HUD-EPA Memorandum of Understanding on Sole Source Aquifers

All housing actions and programs and all, non-exempt CDBG, Rental Rehabilitation, Emergency Shelter Grant and HDG activities and projects are subject, by regulation, to the Sole Source Aquifer (SSA) consultation procedures [Section 1424(e)] of the Safe Drinking Water Act (SDWA). In order to ensure that all HUD activity complies with the Act and to facilitate and expedite the required consultation procedures, the regional offices of HUD and EPA have executed the enclosed Memorandum of Understanding (MOU) limiting the types of activity that require consultation. Whereas this information has already been imparted to affected offices, this present memorandum has been prepared to facilitate implementation of the MOU.

There are presently only six (6) EPA-designated SSA's in the HUD Region IX area. Two are located in Arizona, including portions of Pima, Pinal, Santa Cruz, and Cochise counties and part of the Tohono O'Odham Reservation. Two are located in the California counties of Fresno and Santa Cruz. One is in Hawaii, entirely within Honolulu County. And one is located in the Territory of Guam.

We have identified the following CDBG grantees with SSA's in their geographic jurisdictions: the State of Arizona; the State of California; the City of Tucson; the County of Fresno; the Tohono O'odham Nation; the Pascua-Yaqui Tribe; the Cold Springs Tribe; the City and County of Honolulu, and the Territory of Guam. Please convey this information to all HUD staff and any other grantees whose environmental review functions are affected by this MOU.

In essence, the MOU states that HUD program staff and HUD grantees must, henceforth, refer to EPA for comment only those assisted projects which, in addition to being located in a SSA area, involve the following: 1) agricultural activities; 2) construction or land development projects whose sanitation facilities will consist of individual disposal systems, community sewer systems, or publicly owned sewer systems discharging on the aquifer; 3) the preparation of an EIS; 4) toxic chemicals or radioactive materials; 5) sanitary landfills; 6) water wells; or 7) facilities which dispose of waste water without employing treatment plants. Non-consultation with EPA on these program activities would constitute non-compliance with the Safe Drinking Water Act.

Section II of the MOU contains sufficient information to make, when permissible, the unilateral determination that a project will not contaminate a SSA through its streamflow, source, or recharge zones. In short, HUD staff may now determine, without further consultation, whether certain activities and projects (other than those mentioned above) can cause the contamination of EPA designated SSA's and thus whether they are in compliance with Section 1424(e) of the SDWA.

The MOU defines the EPA-designated SSA areas and further specifies the kind of information required to make decisions about those SSA contamination impacts which can create significant hazards to public health. Refer to the MOU itself for more specific details.

Feel free to call Environmental Specialist Ernest Molins at FTS 556-6642 if you have questions on this issue.

Enclosure

Memorandum of Understanding
Between
The Department of Housing and Urban Development
Region IX, San Francisco, CA, and
The Environmental Protection Agency, Region IX, San Francisco, CA

CHRON FILE

I. INTRODUCTION and PURPOSE

This Memorandum of Understanding (MOU) is a record of agreement between the Region IX Offices of the U.S. Environmental Protection Agency (EPA) and the Department of Housing and Urban Development (HUD) concerning EPA review of projects receiving Federal financial assistance and that may affect Region IX sole source aquifers designated pursuant to Section 1424(e) of the Safe Drinking Water Act (PL 93-523). This MOU outlines the steps that will be followed by HUD in determining which projects should be subject to review, and the procedures that will be followed by both agencies in meeting the requirements of Section 1424(e).

Pursuant to Section 1424(e), EPA has designated six (6) aquifers in Region IX (others may be added from time to time) which are the sole or principal source of drinking water for all municipal and private water systems in that watershed, and that if contaminated, would create a significant hazard to public health.

Therefore, per this MOU, no HUD (or HUD grant recipient) commitment for Federal financial assistance and/or Federal insurance may be entered into for any project which EPA pre-determines may contaminate the aquifer through its streamflow source and recharge zones so as to create a significant hazard to public health.

The purpose of this MOU is to ensure that each project proposed within an EPA designated sole source aquifer area (see attached maps) that is to receive HUD mortgage insurance or other financial assistance, is designed and constructed in a manner that will not cause contamination of any EPA designated sole source aquifer nor cause a public health hazard in connection with such designated sole source aquifers. In order to achieve this purpose, HUD or HUD Community Development Block Grant recipients (See Section III) will notify EPA of all applications for projects listed in II-A below at the earliest possible date. If an Environmental Impact Statement (EIS) pursuant to the National Environmental Policy Act (NEPA) is prepared for any project in the sole source aquifer area, HUD and EPA will coordinate so that the Draft EIS for the project contains EPA's 1424(e) comments.

II. PROJECT IDENTIFICATION

A. The following projects will be referred to EPA for review/comments under Section 1424(e):

Projects that are located within an EPA designated sole source aquifer area for which HUD mortgage insurance or other assistance is requested, and which involve:

1. Agricultural activities including but not limited to land related operations employed in the production, raising, processing and marketing of crops or livestock.

2. Construction of (or addition to) residential, commercial or industrial projects, or public facilities, or land developments, whose sanitation facilities will consist of individual disposal systems (cesspools, septic tanks with leach fields or seepage pits), or community sewerage systems (owned either privately or by a homeowners association), or a proposed (i.e. not yet in place) publicly owned piped sanitary sewer system, the discharge from which will terminate within the watershed of the aquifer.

3. The preparation of an EIS.

4. Existing or proposed industrial projects which manufacture, store, transport, or dispose of toxic chemicals or radioactive materials.

5. Acquisition of a site intended to be used for a sanitary landfill and its operation, or closure of a sanitary landfill.

6. Construction or abandonment of a water well.

7. Facilities which dispose of their waste water in either dry wells, retention ponds, or by other methods not employing a treatment plant.

B. The EPA and HUD mutually agree that activities listed below would not affect water quality in Region IX sole source aquifers, and need not be referred to EPA for evaluation prior to HUD approval:

1. Construction of (or addition to) residential, commercial or industrial projects, or public facilities, or land developments, which will be served by an existing and publicly owned and operated sewerage system and treatment plant which is not subject to a locally or EPA imposed moratorium, except for any development covered in A above.

2. Acquisition, disposition, rehabilitation, reconstruction or modernization of existing projects, buildings, and public facilities.

3. Financial assistance (loans or grants) including refinancing, or provision of mortgage insurance on existing projects, properties, buildings or developments.

4. Public services, preparation of environmental studies or project plans, planning activities, technical assistance and training, payment/repayment or reimbursement of loans or interest.

5. Emergency activities for mitigating an imminent threat to health and safety.

III. COMMUNITY DEVELOPMENT BLOCK GRANT APPLICATIONS

HUD regulations, at 24 CFR Part 58, implement the requirements of section 104(g) of the Housing and Community Development Act of 1974, as amended, and apply to activities and projects funded with HUD assistance, under all Community Development Block Grant (CDBG) and other grant programs. This includes entitlement grants, non-entitlement (i.e. small cities) grants administered by HUD or by States, and grants to Indian tribes.

Pursuant to section 104(g), a grant recipient's assumption of the responsibility for environmental review and decision making, includes such responsibilities under the other provisions of law and authorities specified at 58.5.

Before committing any CDBG or other grant funds (other than for activities exempt under 58.34), the recipient must certify that it has complied with the requirements and obligations which would apply to HUD under the other laws and authorities, including Section 1424(e) of the Safe drinking Water Act of 1974, as amended.

The following procedures shall apply to CDBG applications in addition to those specified in Section IV below:

A. HUD will inform all CDBG recipients, and States which administer the Small Cities Block Grant program, that a 1424(e) review will be required for all projects listed in II-A above.

B. If the recipient submits a Request for Release of Funds (RROF) and certification for a project listed in II-A above, and which EPA has determined will contaminate the sole source aquifer so as to create a hazard to public health and has so advised the recipient in writing, the EPA shall submit an objection to the RROF to HUD (or to the State in the case of a state administered Small Cities Block Grant program) within 15 days from the time EPA receives the Notice of Intent to RROF. In such cases, HUD (or the State) will not release the funds until the matter has been resolved between EPA and the recipient, and HUD (or the State) has been so advised in writing.

C. The environmental requirements for multi-year projects must encompass the entire multi-year scope of activities and be included in the RROF and certification.

IV. REVIEW PROCEDURE

A. Upon receipt of applications by HUD, or prior to submitting a RROF and certification to HUD (or to the State) by a recipient, for projects meeting the criteria in II-A above, the HUD office will send copies of the application, or the recipient will send a brief description of the proposed project (see 2 below), to EPA for its review.

1. EPA shall notify the HUD Office (or the recipient) in writing within 10 calendar days to request additional information it may need to conduct its review.

2. Information needed by EPA normally includes the following and may be submitted concurrently with Item IV-A above:

   (a) Location map identifying project location relative to the sole source aquifer area, and topographic map.

   (b) Description and objective of project activity, including project design, materials to be used, assessment of potential impacts on ground water quality and quantity, and alteration of natural topography and vegetation.

   (c) Names/addresses/telephone numbers of any City, County, State or Federal agencies that are involved.

3. EPA shall have 30 calendar days to review and submit its comments to the HUD Office, or to the recipient. The 30 day period will begin when EPA has received the additional data it may have requested.

4. EPA may request and HUD (or the recipient) may grant additional time for review and comment in exceptional cases. Requests and approvals shall be in writing.

5. HUD (or the recipient) may approve the project if no EPA approval has been received within the normal 30 days or longer agreed-to period.

6. EPA review recommendations shall be sent directly to the HUD Office, or to the recipient, as applicable.

7. When the project reviewed was submitted to EPA by a HUD Field Office, a copy of EPA comments shall also be submitted to:
   HUD Regional Environmental Officer
   San Francisco, CA 94102

B. Each Draft EIS prepared by HUD or by a recipient, for projects within a sole source aquifer area, shall reflect EPA comments.

C. Materials submitted to EPA by HUD or recipients under this Memorandum of Understanding will be addressed to the attention of the Office of Ground Water (W-1-G), EPA Region IX, San Francisco, CA 94105.

D. Local Area Certification (HUD Handbook 4135.1 Rev 2) - If all or part of the geographical boundaries of a certifiable or conditionally certifiable community are within a sole source aquifer area, and residential land developments will meet criteria II.A. 2 above, the HUD office may consult with EPA as part of the certification review process.

E. HUD and EPA will each assign liaison personnel to serve as contact points and to be responsible for maintaining communications as to procedures and activities of their respective agency in Federal Region IX. The liaison personnel are:

HUD: Regional Environmental Officer
San Francisco, CA 94102

EPA: Director, Office of Groundwater,
San Francisco, CA 94105

The liaison personnel, accompanied by appropriate staff, will hold meetings as needed to discuss matters of concern related to Region IX aquifers and this Memorandum of Understanding.

F. The Memorandum of Understanding is subject to revision upon agreement of both parties.

U.S. Department of Housing and Urban Development

Regional Administrator-Regional Housing Commissioner

Date: 1/8/90

U.S. Environmental Protection Agency

Regional Administrator

Date: 4.30.90

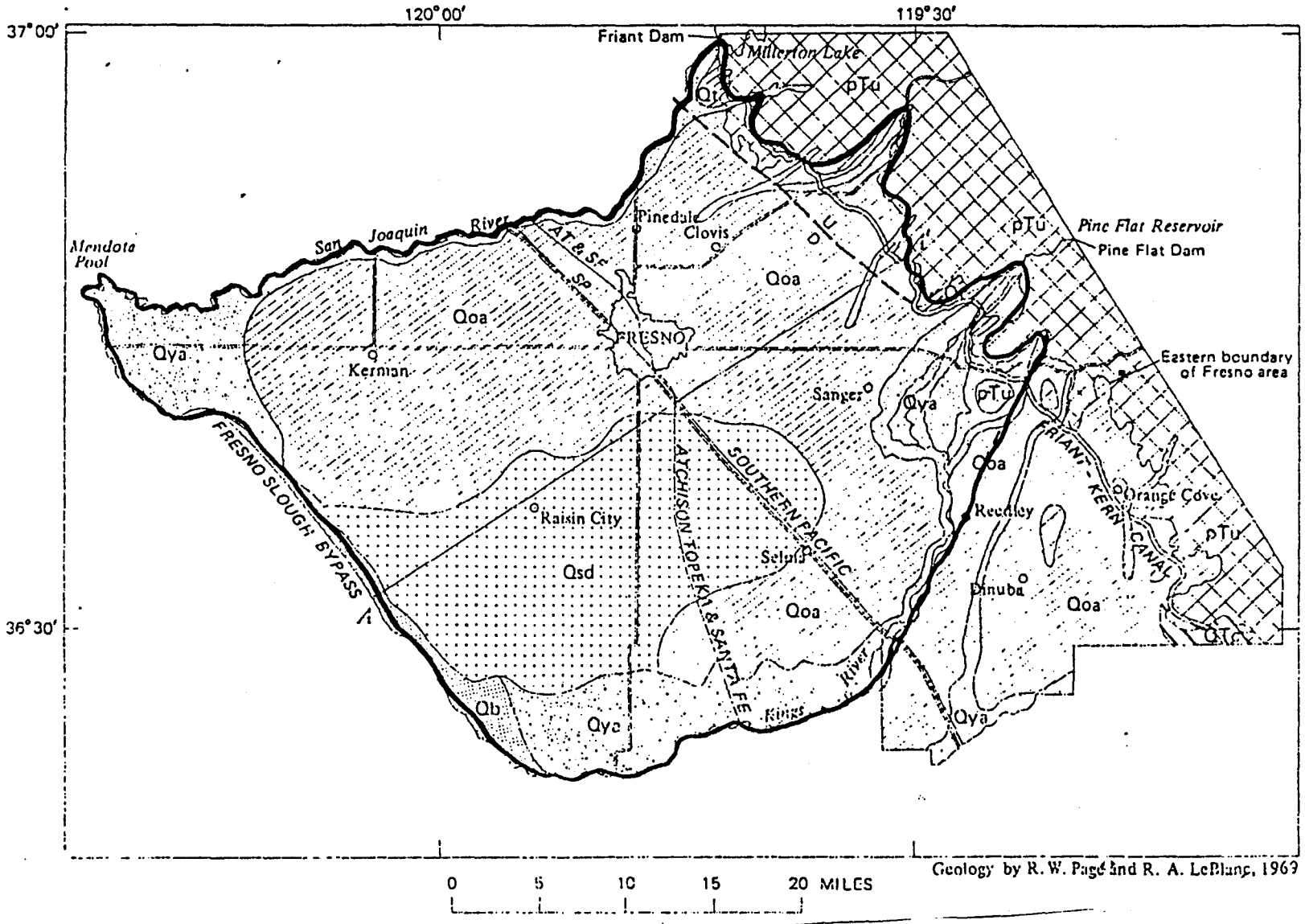
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, Ca. 94105

AQUIFER: Fresno Designated Sole Source Aquifer

DATE DESIGNATED: 09/10/79

DESIGNATED AREA: In the State of California, entirely within Fresno County, including all or portions of the communities of Fresno, Clovis, Kerman, Raisin City, Selma, and Sanger.

Specifically, the area border by (1) Fresno slough by-pass on the west, (2) the San Joaquin River on the north, (3) the Friant-Kern canal on the east, and (4) the King's River on the south. Approximately shown on the attached map.



DESIGNATED SOLE SOURCE AQUIFER
Fresno area, CA

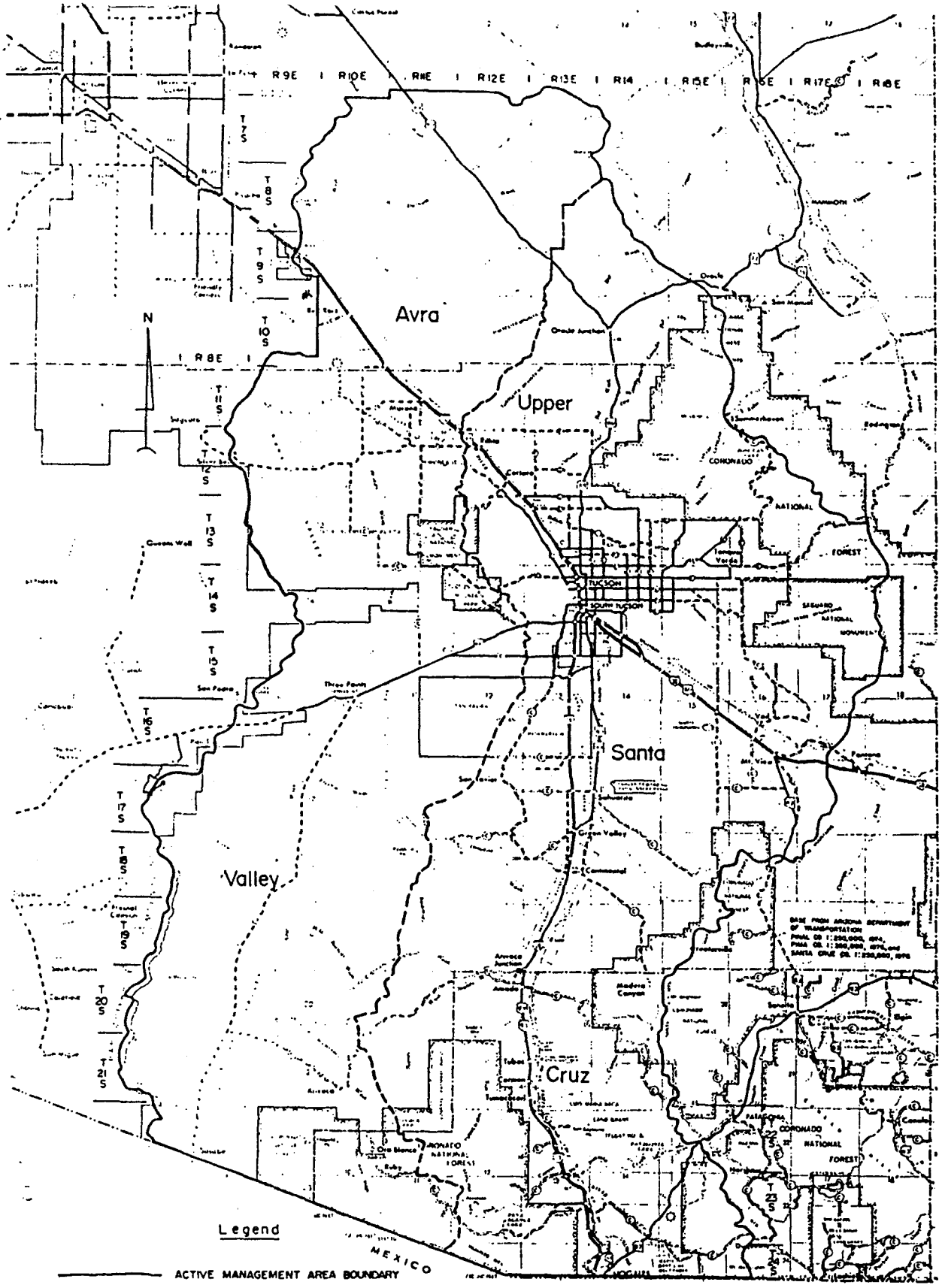
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, Ca. 94105

AQUIFER: Upper Santa Cruz & Avra Basin Aquifer

DATE DESIGNATED: 01/24/84

DESIGNATED AREA: In the State of Arizona, including portions of Pima, Pinal, and Santa Cruz Counties and portions of the Tohono O'odham reservation, and including the cities of Tucson and Nogales.

Specifically, all lands designated by the state as the Tucson Groundwater Active Management area. Approximately outlined on the attached map.



DESIGNATED SOLE SOURCE AQUIFER
Tucson Area, AZ

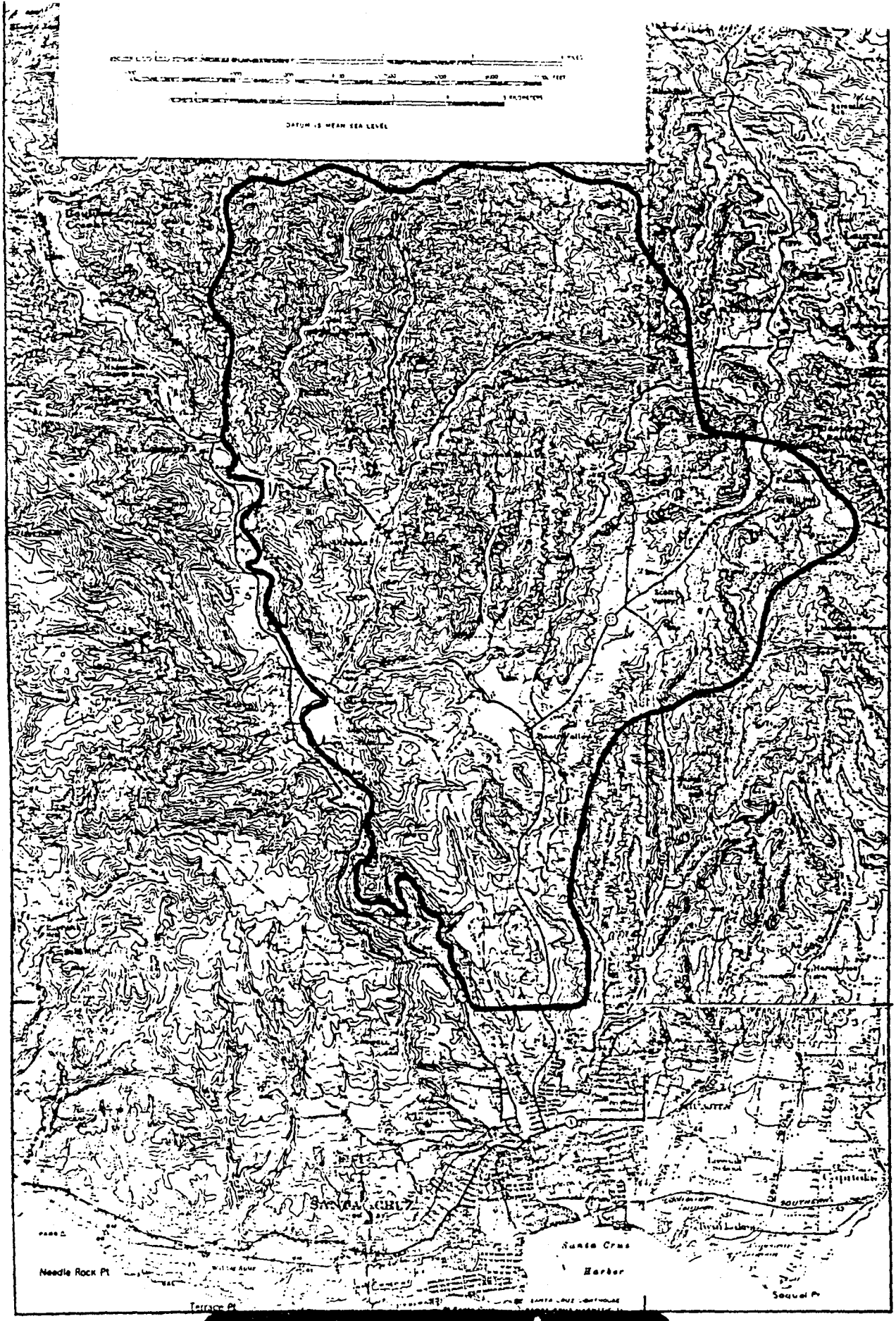
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, Ca. 94105

AQUIFER: Santa Margarita Aquifer, Scott's Valley, CA

DATE DESIGNATED: 01/14/85

DESIGNATED AREA: In the State of California, entirely within Santa Cruz County, including the community of Scott's Valley, CA.

Specifically, all the area delineated on the attached map.



DESIGNATED SOLE SOURCE AQUIFER
Scott's Valley, CA

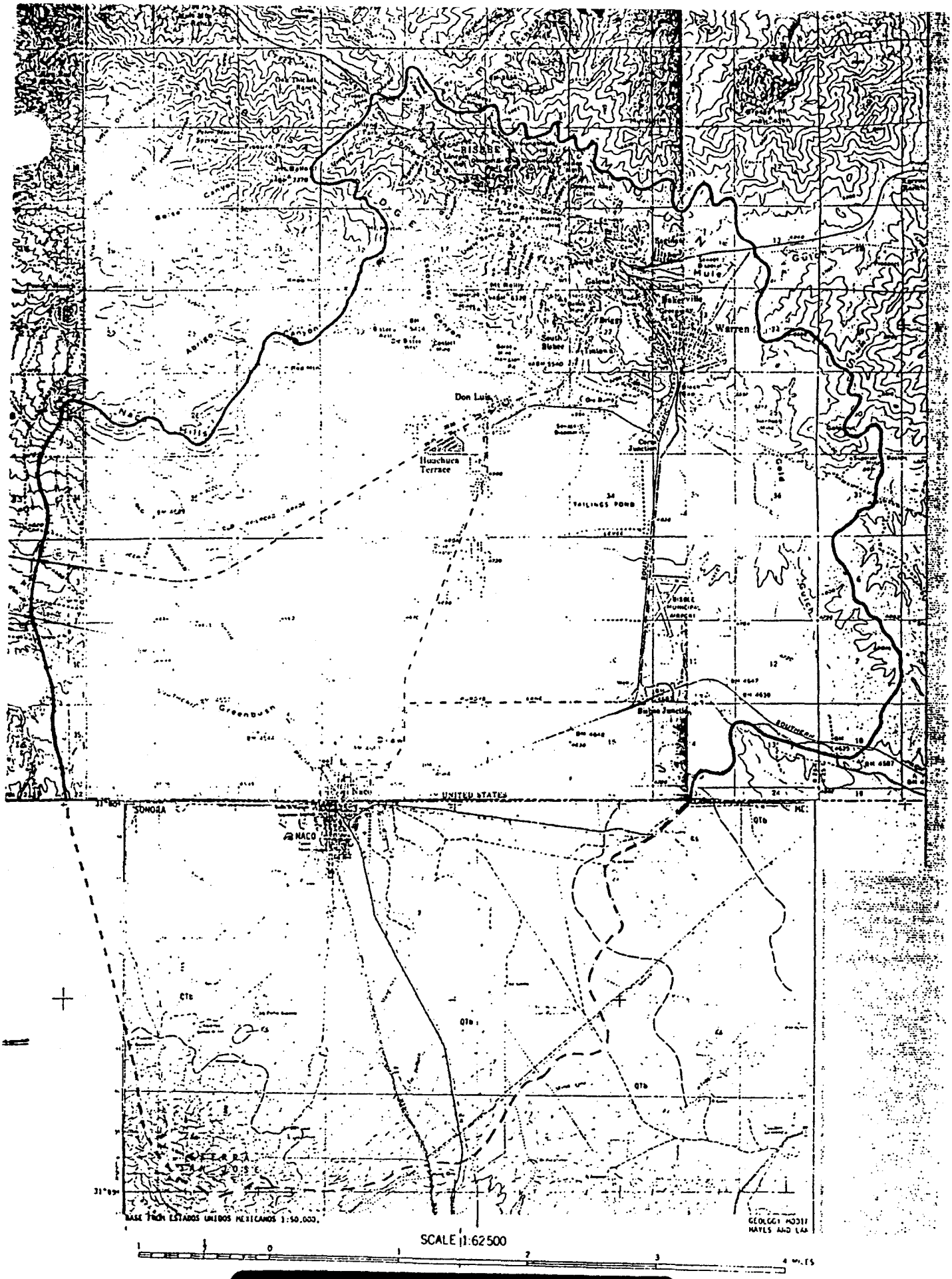
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, Ca. 94105

AQUIFER: Naco-Bisbee Aquifer

DATE DESIGNATED: 09/30/88

DESIGNATED AREA: In the state of Arizona, contained entirely within Cochise county.

Specifically, that area delineated on the attached map but excluding any portion of Mexico.



DESIGNATED SOLE SOURCE AQUIFER
Naco-Bisbee area, AZ

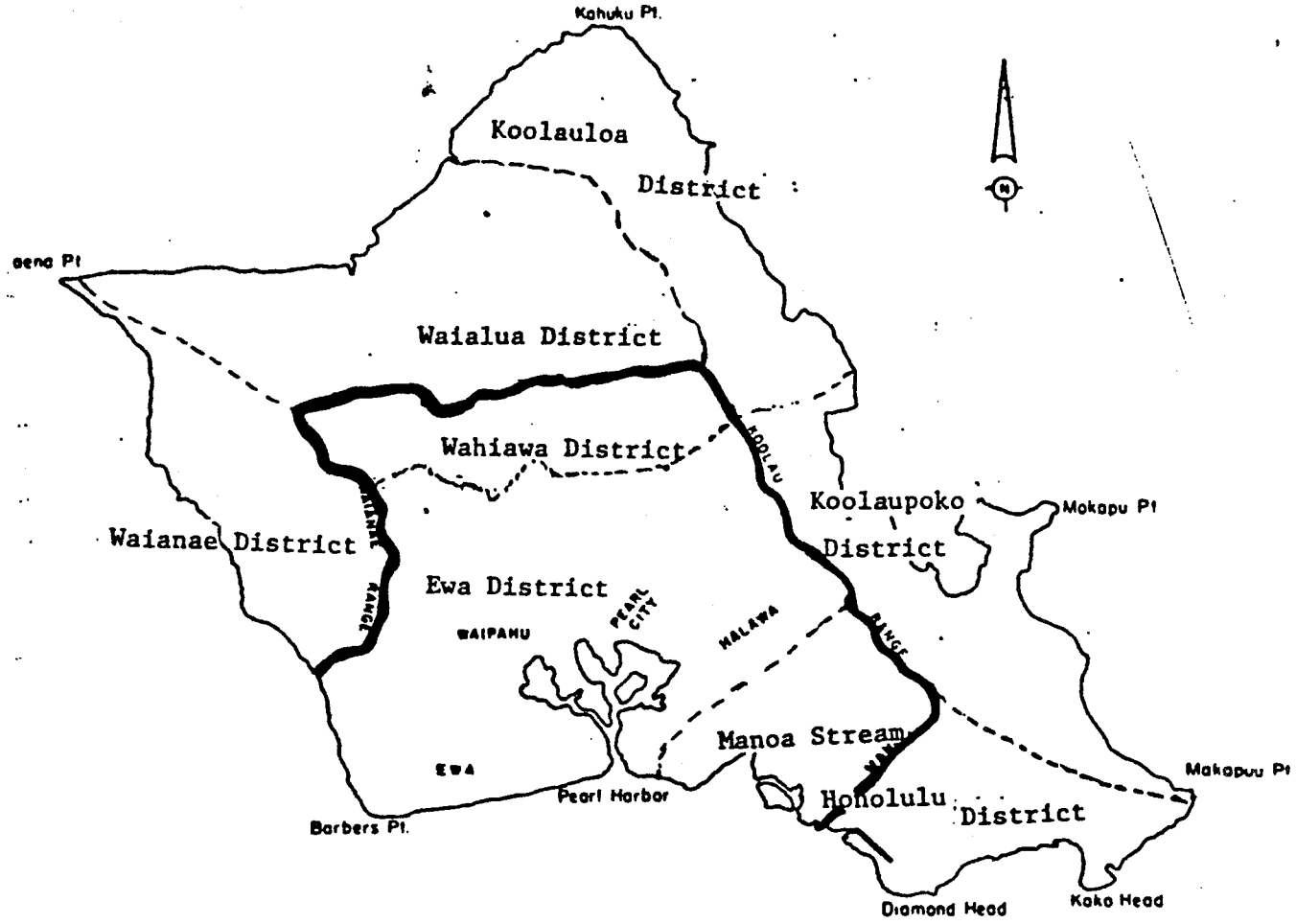
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, Ca. 94105

AQUIFER: Southern Oahu Basal Aquifer

DATE DESIGNATED: 11/30/87

DESIGNATED AREA: In the State of Hawaii, Island of Oahu, entirely contained within Honolulu County. Including portions of the City of Honolulu.

Specifically, all of the Wahiawa district, all of the Ewa district, and that portion of the Honolulu district west (Ewa) of Manoa stream.



DESIGNATED SOLE SOURCE AQUIFER
Oahu, HI

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, Ca. 94105

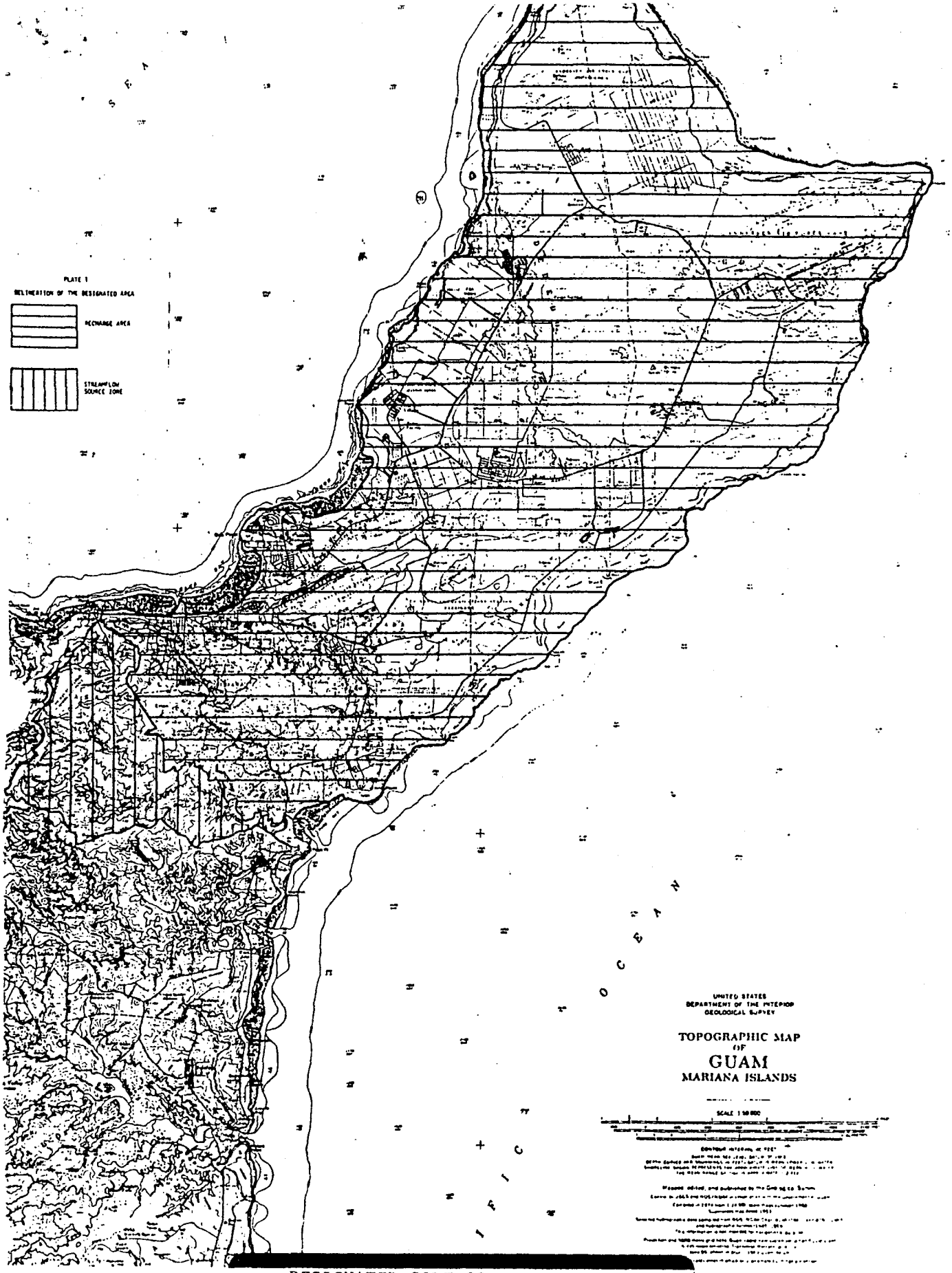
AQUIFER: Northern Guam Aquifer

DATE DESIGNATED: 04/26/78

DESIGNATED AREA: In the Territory of Guam, entirely contained within the island of Guam.

Specifically, that area within the coastal boundary defined by the line of Mean High Water and north of the Adelup-Pago fault, plus some area south of the fault defining the streamflow source zone.

As delineated on the attached map.

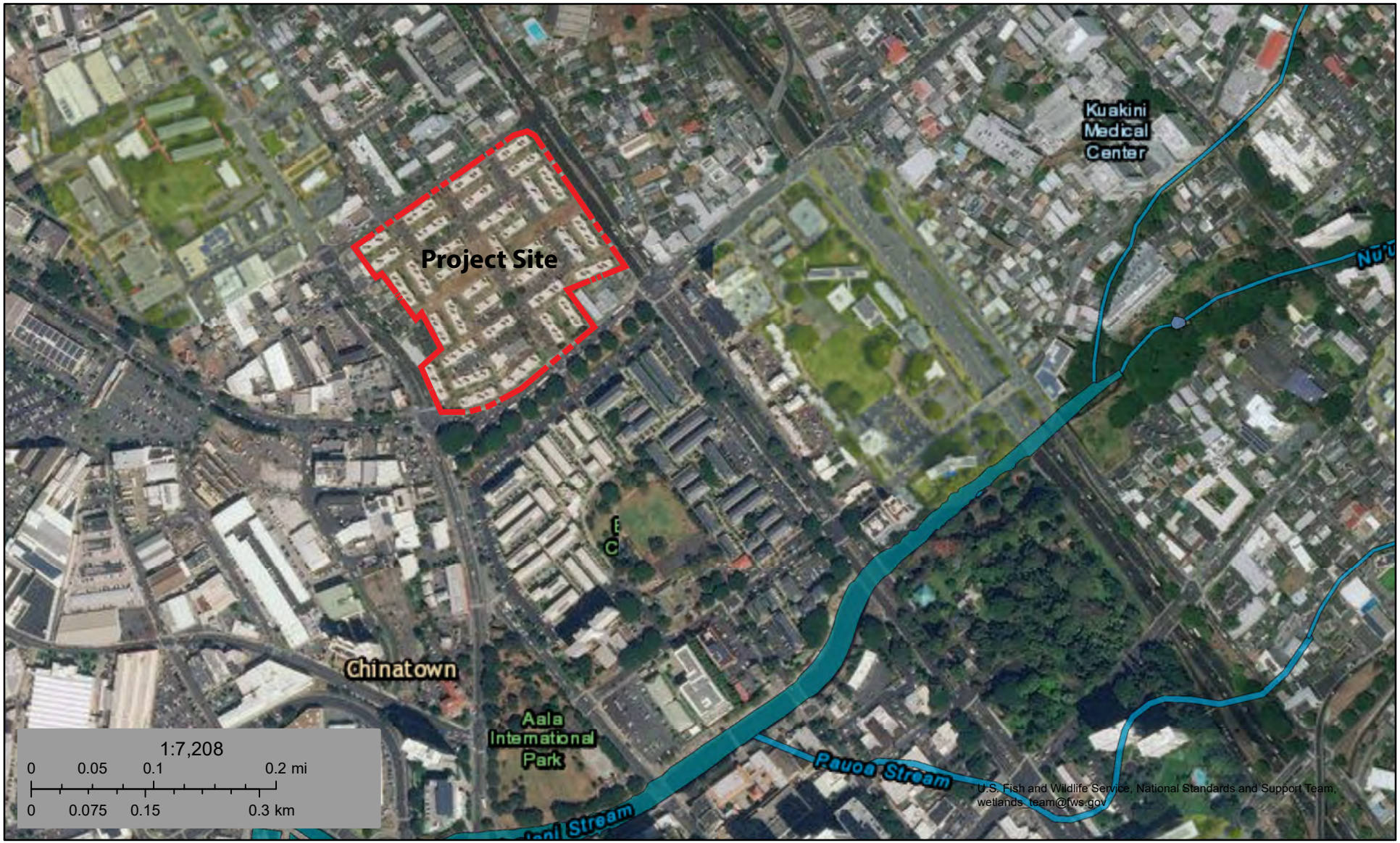


DESIGNATED SOLE SOURCE AQUIFER
Territory of Guam

EXHIBIT 17

U.S. Fish and Wildlife Service
National Wetlands Inventory

Mayor Wright Homes



December 10, 2019

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

EXHIBIT 18

HAWAII

Hawaii has approximately 3,905 miles of river, but no designated wild & scenic rivers.

+ View larger map

Hawaii does not have any designated rivers.

EXPLORE DESIGNATED RIVERS

Choose A State ▾ Go

Choose A River ▾ Go

Dark and foreboding one minute, sun-drenched and exploding with color the next, tropical rivers span every mood.

EXHIBIT 19

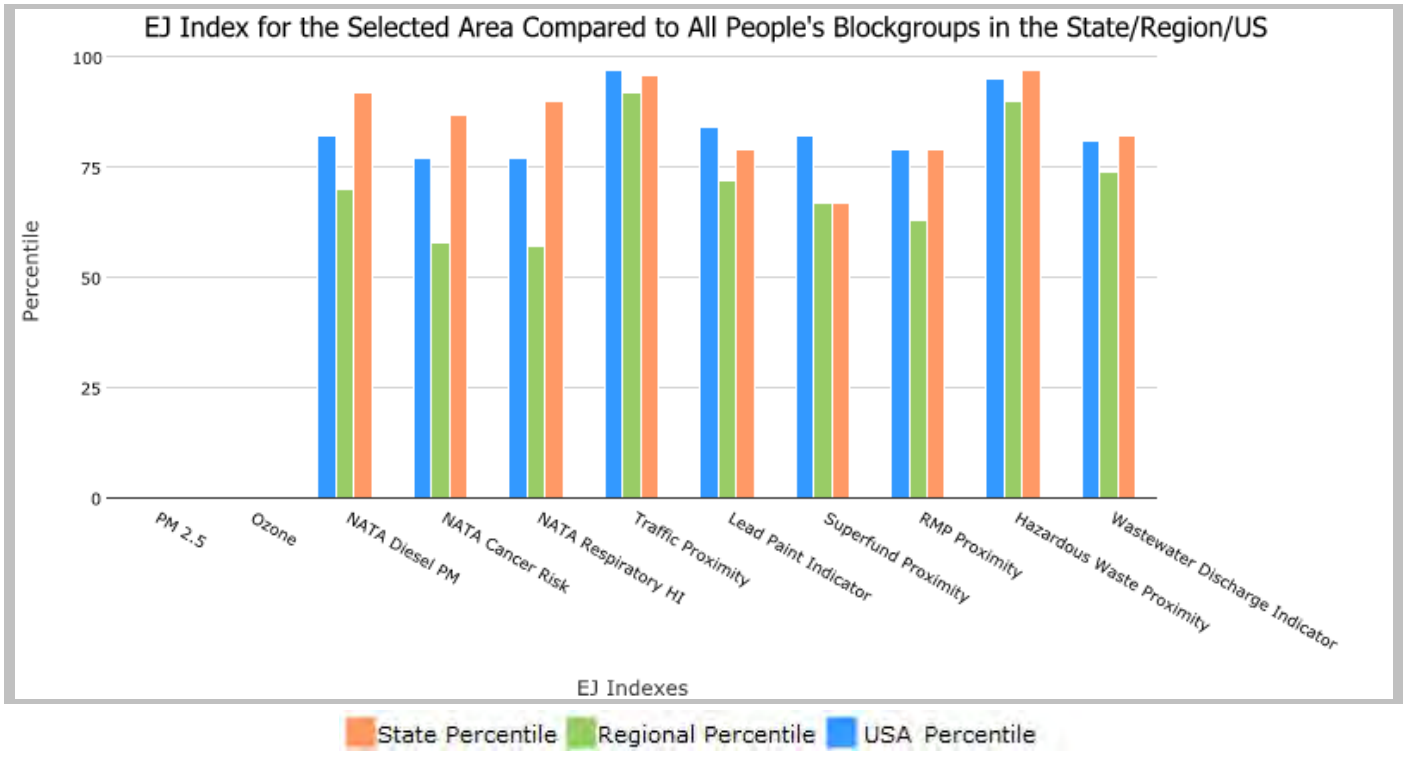
EJSCREEN Report (Version 2019)

1 miles Ring Centered at 21.320080,-157.863985, HAWAII, EPA Region 9

Approximate Population: 49,737

Input Area (sq. miles): 3.14

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
EJ Indexes			
EJ Index for PM2.5	N/A	N/A	N/A
EJ Index for Ozone	N/A	N/A	N/A
EJ Index for NATA* Diesel PM	92	70	82
EJ Index for NATA* Air Toxics Cancer Risk	87	58	77
EJ Index for NATA* Respiratory Hazard Index	90	57	77
EJ Index for Traffic Proximity and Volume	96	92	97
EJ Index for Lead Paint Indicator	79	72	84
EJ Index for Superfund Proximity	67	67	82
EJ Index for RMP Proximity	79	63	79
EJ Index for Hazardous Waste Proximity	97	90	95
EJ Index for Wastewater Discharge Indicator	82	74	81



This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

EJSCREEN Report (Version 2019)

1 miles Ring Centered at 21.320080,-157.863985, HAWAII, EPA Region 9

Approximate Population: 49,737

Input Area (sq. miles): 3.14

Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	5

EJSCREEN Report (Version 2019)

1 miles Ring Centered at 21.320080,-157.863985, HAWAII, EPA Region 9

Approximate Population: 49,737

Input Area (sq. miles): 3.14

Selected Variables	Value	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Environmental Indicators							
Particulate Matter (PM 2.5 in µg/m^3)	N/A	N/A	N/A	9.21	N/A	8.3	N/A
Ozone (ppb)	N/A	N/A	N/A	48.9	N/A	43	N/A
NATA* Diesel PM (µg/m^3)	0.435	0.165	90	0.479	50-60th	0.479	50-60th
NATA* Cancer Risk (lifetime risk per million)	21	14	91	35	<50th	32	<50th
NATA* Respiratory Hazard Index	0.28	0.16	90	0.53	<50th	0.44	<50th
Traffic Proximity and Volume (daily traffic count/distance to road)	5200	1200	93	1700	92	750	97
Lead Paint Indicator (% Pre-1960 Housing)	0.21	0.16	70	0.24	58	0.28	53
Superfund Proximity (site count/km distance)	0.068	0.098	60	0.15	48	0.13	53
RMP Proximity (facility count/km distance)	0.38	0.39	71	0.99	45	0.74	54
Hazardous Waste Proximity (facility count/km distance)	8.1	1.5	97	2.9	90	4	94
Wastewater Discharge Indicator (toxicity-weighted concentration/m distance)	4.4E-05	10	79	31	61	14	51
Demographic Indicators							
Demographic Index	64%	51%	87	47%	75	36%	85
Minority Population	91%	78%	74	59%	83	39%	90
Low Income Population	36%	24%	82	34%	59	33%	61
Linguistically Isolated Population	26%	6%	96	8%	92	4%	96
Population With Less Than High School Education	23%	8%	94	17%	70	13%	82
Population Under 5 years of age	5%	6%	34	6%	33	6%	36
Population over 64 years of age	21%	17%	71	14%	83	15%	80

* The National-Scale Air Toxics Assessment (NATA) is EPA's ongoing, comprehensive evaluation of air toxics in the United States. EPA developed the NATA to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that NATA provides broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the NATA analysis can be found at: https://www.epa.gov/national-air-toxics-assessment.

For additional information, see: www.epa.gov/environmentaljustice

EJSCREEN is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJSCREEN outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

EXHIBIT 20

MAYOR WRIGHT HOMES REDEVELOPMENT PROJECT

AIR QUALITY STUDY

Prepared for

PBR HAWAII AND ASSOCIATES INC.

Prepared by

TERRY A. HAYES ASSOCIATES INC.

AUGUST 2017

taha 2015-019

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1.0 SUMMARY OF FINDINGS

Terry A. Hayes Associates Inc. has completed an Air Quality Study for the proposed Mayor Wright Homes Redevelopment Project (proposed project). Key findings are listed below.

- Construction activity would result in temporary emissions from construction vehicle exhaust, as well as fugitive dust emissions due to ground disturbance. The proposed project would not result in an adverse effect related to construction air quality. However, the following control measures are recommended to reduce fugitive dust emissions.

  AQ1 The construction contractor shall use water or suitable chemicals to control fugitive dust in the demolition of any existing buildings or structures, construction operations, the grading of roads, or the clearing of land.

  AQ2 The construction contractor shall apply asphalt, water, or suitable chemicals on roads, material stockpiles, and other surfaces which may result in fugitive dust.

  AQ3 The construction contractor shall cover all moving, open-bodied trucks transporting materials which may result in fugitive dust.

  AQ4 The construction contractor shall maintain roadways in a clean manner.

  AQ5 The construction contractor shall promptly remove earth or other materials from paved streets which have been transported there by trucking, earth-moving equipment, erosion, or other means.

Air Quality Control Measures **AQ6** through **AQ9** are recommended to reduce pollutant exposure to residences residing on the project site during construction activities.

  AQ6 Staging areas shall be located away from on-site residential land uses.

  AQ7 On-site electricity shall be obtained from the electrical grid rather than temporary diesel or gasoline generators.

  AQ8 Equipment and vehicle engines shall be maintained in good condition and in proper tune per manufacturers' specifications.

  AQ9 All construction equipment and delivery vehicles shall be turned off when not in use or prohibit idling in excess of five minutes. Haul trucks in particular that stage waiting to be called to remove dirt from the site shall not be allowed to idle while queuing.

- Implementation of the proposed project would introduce approximately 10,085 new daily trips to the project area, including 578 trips during the AM peak hour and 959 trips during the PM peak hour. Implementation of the proposed project would result in a maximum increase of 14 percent at the most congested intersection of the project area in 2028 upon full buildout. A 14 percent incremental increase in intersection volumes would not have the potential to exceed any applicable ambient air quality standards. Therefore, the proposed project would not result in adverse effect related to regional operational emissions.

- The proposed project would result indirect greenhouse gas (GHG) emissions through electricity generation at an off-site facility, water distribution to the future structures, and on-road mobile sources associated with vehicle trips. As of April 5, 2017, the CEQ has

withdrawn its "Final Guidance for Federal Departments and Agencies on Consideration of Greenhouse Gas Emissions and the Effects of Climate Change in National Environmental Policy Act [(NEPA)] Reviews," for which a Notice of Availability was originally published on August 5, 2016. Therefore, no guidance currently exists for addressing GHG emissions and climate change under NEPA.

- The project would not interfere with the development of clean energy supplies and would not include a substantial on-site source of GHG emissions. The proposed project would locate in-fill development near existing public transportation and shopping areas, thereby reducing mobile source emissions compared to development located outside of urban areas. Energy conservation features and in-fill development benefits would ensure that the proposed project would not result in a significant GHG impact.

2.0 INTRODUCTION

2.1 PURPOSE

The purpose of this report is to evaluate the potential for adverse air quality effects of the proposed project. Air quality emissions are assessed for construction and operational activities. Air quality control measures are recommended when appropriate to reduce emissions.

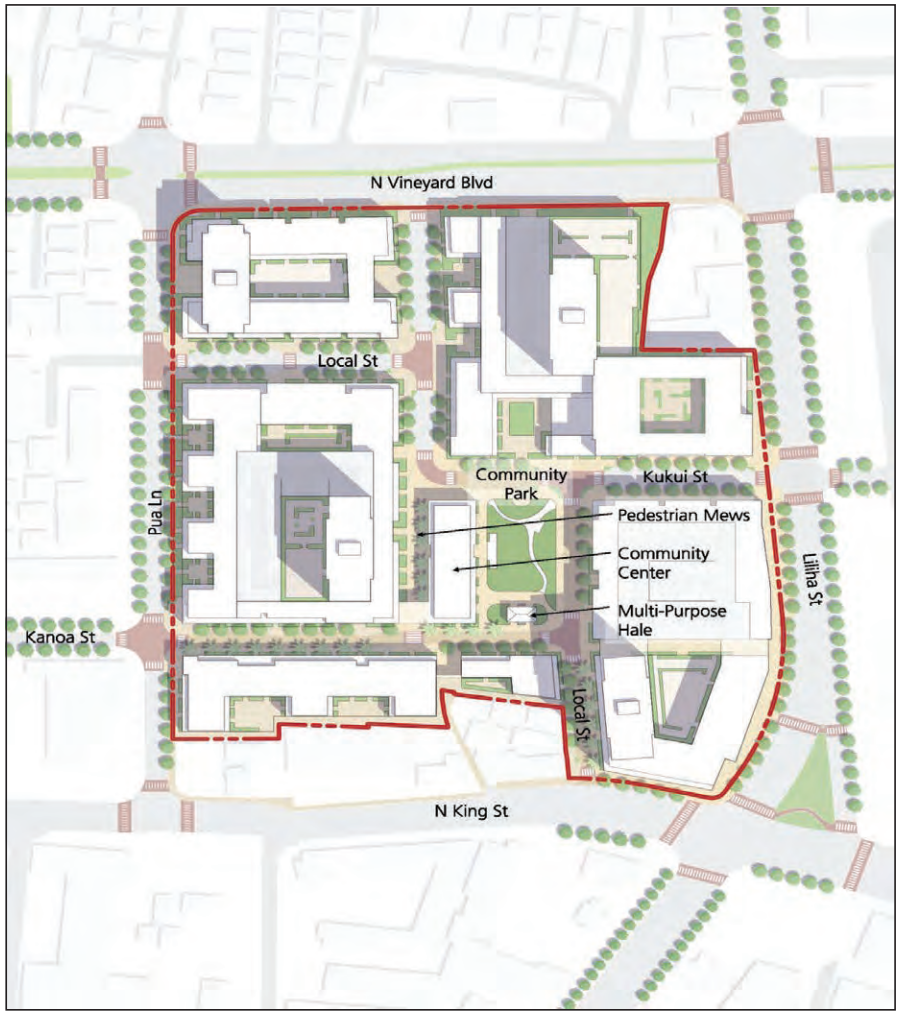
The analysis examines the degree to which the proposed project may cause significant adverse changes to air quality. Both short-term construction emissions occurring from activities such as site grading and haul truck trips, and long-term effects related to the ongoing operation are discussed in this section. This analysis focuses on air pollution from two perspectives: daily emissions and pollutant concentrations. “Emissions” refer to the quantity of pollutant released into the air, measured in pounds per day (ppd) or tons per year (tpy). “Concentrations” refer to the amount of pollutant material per volumetric unit of air, measured in parts per million (ppm) or micrograms per cubic meter (µg/m^3).

2.2 PROJECT DESCRIPTION

The proposed project would redevelop the existing Mayor Wright Housing on Liliha Street in Honolulu, Hawaii. The existing 15-acre project site includes 364 affordable housing units. The proposed mixed-use development includes up to 2,500 residential units and up to 80,000 square feet of retail and commercial uses. The proposed project would also incorporate a community park, pedestrian mews, a multi-purpose hall, and a community center.

The project site is located in the Kalihi community on the island of Oahu. The site is generally bounded by North King Street on the southwest, Vineyard Boulevard on the northeast, Pua Lane on the northwest, and Liliha Street on the southeast. The H-1 Freeway is located east of the site and would provide residents living in the future project with access to jobs in Kapolei, Pearl City, Aiea and Pearl Harbor, as well as areas Diamond Head of downtown Honolulu.

The location of the proposed project is shown in **Figure 2-1** and the site plan is shown in **Figure 2-2**.



3.0 TOPICAL BACKGROUND & REGULATORY FRAMEWORK

This section provides an overview of how ambient air quality is characterized and the applicable regulations that have been established to protect public health and the environment, as well as a discussion of greenhouse gas (GHG) emissions, how they contribute to climate change, and the regulatory framework developed to reduce GHG emissions. According to the Hawaii Department of Health, air pollution is a general term that refers to the presence in the outdoor air of substances in quantities and for durations which may endanger human health or welfare, plant or animal life, or property; or which may reasonably interfere with the comfortable enjoyment of life and property.

Through extensive scientific research, specific chemical substances have been identified as air pollutants that are known to cause adverse health effects and degradation of environmental quality. Concentrations of the following pollutants in ambient air are regulated at the federal and state level to protect public health and the environment. A separate discussion of GHG emissions and climate change is provided subsequently.

3.1 AIR POLLUTANTS

Ozone (O_3). O_3, or smog, is not emitted directly into the environment, but is formed in the atmosphere by complex chemical reactions between reactive organic gases (ROG) and nitrogen oxides (NO_X) in the presence of sunlight. Ozone formation is greatest on warm, windless, sunny days. The main sources of NO_X and ROG, often referred to as ozone precursors, are combustion processes (including motor vehicle engines) the evaporation of solvents, paints, and fuels, and biogenic sources.

Automobiles are the single largest source of ozone precursors. Tailpipe emissions of ROG are highest during cold starts, hard acceleration, stop-and-go conditions, and slow speeds. They decline as speeds increase up to about 50 mph, then increase again at high speeds and high engine loads. ROG emissions associated with evaporation of unburned fuel depend on vehicle and ambient temperature cycles. Nitrogen oxide emissions exhibit a different curve; emissions decrease as the vehicle approaches 30 mph and then begin to increase with increasing speeds.

Ozone levels usually build up during the day and peak in the afternoon hours. Short-term exposure can irritate the eyes and cause constriction of the airways. Besides causing shortness of breath, it can aggravate existing respiratory diseases such as asthma, bronchitis and emphysema. Chronic exposure to high ozone levels can permanently damage lung tissue. Ozone can also damage plants and trees, and materials such as rubber and fabrics.

Nitrogen Dioxide (NO_2). NO_2 is a reddish-brown gas that is a by-product of combustion processes. Automobiles and industrial operations are the main sources of NO_2. Aside from its contribution to ozone formation, nitrogen dioxide can increase the risk of acute and chronic respiratory disease and reduce visibility. NO_2 may be visible as a coloring component of a brown cloud on high pollution days, especially in conjunction with high ozone levels.

Carbon Monoxide (CO). CO is an odorless, colorless gas formed by the incomplete combustion of fuels. The single largest source of CO is motor vehicles. Emissions are highest during cold starts, hard acceleration, stop-and-go driving, and when a vehicle is moving at low speeds. New findings indicate that CO emissions per mile are lowest at about 45 miles per hour (mph) for the average light-duty motor vehicle and begin to increase again at higher speeds. When inhaled at high concentrations, CO combines with hemoglobin in the blood and reduces the oxygen carrying capacity of the blood. This results in reduced oxygen reaching the brain,

heart and other body tissues. This condition is especially critical for people with cardiovascular diseases, chronic lung disease or anemia, as well as fetuses. Even healthy people exposed to high CO concentrations can experience headaches, dizziness, fatigue, unconsciousness, and even death.

Sulfur Dioxide (SO_2). SO_2 is a colorless acid gas with a pungent odor. It has potential to damage materials and it can have health effects at high concentrations. It is produced by the combustion of sulfur-containing fuels, such as oil, coal and diesel. SO_2 can irritate lung tissue and increase the risk of acute and chronic respiratory disease.

Particulate Matter. Particulate matter refers to a wide range of solid or liquid particles in the atmosphere, including smoke, dust, aerosols, and metallic oxides. Respirable particulate matter with an aerodynamic diameter of 10 micrometers or less is referred to as PM_{10}. $PM_{2.5}$ includes a subgroup of finer particles that have an aerodynamic diameter of 2.5 micrometers or less. Some particulate matter, such as pollen, is naturally occurring. Most particulate matter is caused by combustion, factories, construction, grading, demolition, agricultural activities, and motor vehicles. Extended exposure to particulate matter can increase the risk of chronic respiratory disease. PM_{10} is of concern because it bypasses the body's natural filtration system more easily than larger particles, and can lodge deep in the lungs. The USEPA revised their PM standards to apply only to these fine particles. $PM_{2.5}$ poses an increased health risk because the particles can deposit deep in the lungs and contain substances that are particularly harmful to human health.

Lead (Pb). Pb is a metal found naturally in the environment as well as in manufactured products. The major sources of lead emissions have historically been mobile and industrial sources. As a result of the phase-out of leaded gasoline, metal processing is currently the primary source of lead emissions. The highest levels of lead in air are generally found near lead smelters. Other stationary sources are waste incinerators, utilities, and lead-acid battery manufacturers.

Twenty years ago, mobile sources were the main contributor to ambient lead concentrations in the air. In the early 1970s, the USEPA set national regulations to gradually reduce the lead content in gasoline. In 1975, unleaded gasoline was introduced for motor vehicles equipped with catalytic converters. The USEPA banned the use of leaded gasoline in highway vehicles in December 1995. As a result of the USEPA's regulatory efforts to remove lead from gasoline, emissions of lead from the transportation sector and levels of lead in the air decreased dramatically.

Toxic Air Contaminants (TACs). In addition to the criteria air pollutants listed above, another group of pollutants, commonly referred to as TACs or hazardous air pollutants can result in health effects that can be quite severe. Many TACs are confirmed or suspected carcinogens, or are known or suspected to cause birth defects or neurological damage. In addition, many TACs can be toxic at very low concentrations. For some chemicals, such as carcinogens, there are no thresholds below which exposure can be considered risk-free.

Industrial facilities and mobile sources are significant sources of TACs. The electronics industry, including semiconductor manufacturing, has the potential to contaminate both air and water due to the highly toxic chlorinated solvents commonly used in semiconductor production processes. Sources of TACs go beyond industry. Various common urban facilities also produce TAC emissions, such as gasoline stations (benzene), hospitals (ethylene oxide), and dry cleaners (perchloroethylene). Automobile exhaust also contains TACs such as benzene and 1,3-butadiene.

Odors and Dust. Other air quality issues of concern include nuisance impacts of odors and dust. Objectionable odors may be associated with a variety of pollutants. Common sources of odors include wastewater treatment plants, landfills, composting facilities, refineries and chemical plants. Similarly, nuisance dust may be generated by a variety of sources including quarries, agriculture, grading and construction. Odors rarely have direct health impacts, but they can be very unpleasant and can lead to anger and concern over possible health effects among the public.

3.2 AIR QUALITY REGULATORY FRAMEWORK

Federal Regulations

United States Environmental Protection Agency (USEPA). At the federal level, the USEPA has been charged with implementing national air quality programs. The USEPA's air quality mandates are drawn primarily from the Federal Clean Air Act (FCAA), which was enacted in 1963. The FCAA was amended in 1970, 1977, and most recently in 1990. The FCAA required the USEPA to establish primary and secondary National Ambient Air Quality Standards (NAAQS)—concentrations of pollutants not to be exceeded—shown below in **Table 3-1**. The NAAQS were devised to protect public health, reduce smog, and prevent degradation of environmental quality. Attainment of the NAAQS is achieved by demonstrating that measured concentrations of criteria pollutants for a region remained below the designated thresholds over a period of three years. The attainment status is shown in **Table 3-1**.

The FCAA also required each state to prepare an air quality control plan referred to as a State Implementation Plan (SIP). The Federal Clean Air Act Amendments of 1990 (FCAAA) added requirements for states with nonattainment areas to revise their SIPs to incorporate additional control measures to reduce air pollution. The SIP is periodically modified to reflect the latest emissions inventories, planning documents, and rules and regulations of the air basins as reported by their jurisdictional agencies. USEPA has responsibility to review all state SIPs to determine conformation to the mandates of the FCAAA and determine if implementation will achieve air quality goals. If the USEPA determines a SIP to be inadequate, a Federal Implementation Plan (FIP) may be prepared for the nonattainment area that imposes additional control measures. Failure to submit an approvable SIP or to implement the plan within the mandated timeframe may result in sanctions being applied to transportation funding and stationary air pollution sources in the air basin.

Federal Hazardous Air Pollutant Program. Title III of the FCAAA requires the USEPA to promulgate National Emissions Standards for Hazardous Air Pollutants (NESHAPs). The emissions standards were promulgated in two phases. In the first phase, the USEPA developed technology-based emission standards designed to produce maximum emission reductions. These standards are generally referred to as requiring Maximum Achievable Control Technology (MACT). In the second phase, the USEPA set health risk–based emissions standards to address risks remaining after implementation of the technology-based NESHAP standards. The FCAAA required the USEPA to promulgate vehicle or fuel standards containing reasonable requirements that control toxic emissions, at a minimum to benzene and formaldehyde. Performance criteria were established to limit mobile-source emissions of toxics, including benzene, formaldehyde, and 1,3-butadiene.

Mobile Source Air Toxics (MSAT). The USEPA issued a Final Rule on Controlling Emissions of Hazardous Air Pollutants from Mobile Sources on March 29, 2001. USEPA examined the impacts of existing and newly promulgated mobile source control programs, including: reformulated gasoline; national low emission vehicle standards; Tier 2 motor vehicle emissions

standards and gasoline sulfur control requirements; proposed heavy duty engine and vehicle standards; and on-highway diesel fuel sulfur control requirements. The Federal Highway Administration Projects that even with a substantial increase in vehicle miles traveled between 2000 and 2020 that these programs will reduce on-highway emissions of benzene, formaldehyde, 1,3-butadiene, and acetaldehyde by 57 to 65 percent, and will reduce on-highway diesel particulate matter emissions by 87 percent. As a result, USEPA concluded that no further motor vehicle emissions standards or fuel standards were necessary to further control MSATs.

State Regulations

State of Hawaii Department of Health. The State of Hawaii Department of Health Clean Air Branch is responsible for air pollution control in the State. The primary services of the branch are provided by its three sections: Engineering, Monitoring, and Enforcement. These sections conduct engineering analysis and permitting, perform monitoring and investigations, and enforce the federal and State air pollution control laws and regulations. The Department of Health Administrative Rules includes two chapters representing the Clean Air Branch. Chapter 59 identifies State ambient air quality standards (**Table 3-1**), and Chapter 60 discusses air pollution control methodology. Chapter 60 includes air permitting, sampling, modeling, and fugitive dust and motor vehicle provisions.

Chapter 60 §11-60.1-33 includes the following fugitive dust prohibitions:

- No person shall cause or permit visible fugitive dust to become airborne without taking reasonable precautions. Examples of reasonable precautions are:
  - Use of water or suitable chemicals for control of fugitive dust in the demolition of any buildings or structures, construction operations, the grading of roads, or the clearing of land;
  - Application of asphalt, water, or suitable chemicals on roads, material stockpiles, and other surfaces which may result in fugitive dust;
  - Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials. Reasonable containment methods shall be employed during sandblasting or other similar operations;
  - Covering all moving, open-bodied trucks transporting materials which may result in fugitive dust;
  - Conducting agricultural operations, such as tilling of land and the application of fertilizers, in such manner as to reasonably minimize fugitive dust;
  - Maintenance of roadways in a clean manner; and
  - Prompt removal of earth or other materials from paved streets which have been transported there by trucking, earth-moving equipment, erosion, or other means.

- Except for persons engaged in agricultural operations or persons who can demonstrate to the director that the best practical operation or treatment is being implemented, no person shall cause or permit the discharge of visible fugitive dust beyond the property lot line on which the fugitive dust originates.

In regards to motor vehicles, Chapter 60 §11-60.1-34 includes the following:

- No person shall operate a gasoline-powered motor vehicle which emits visible smoke while upon streets, roads, or highways.

TABLE 3-1: STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS AND ATTAINMENT STATUS

Pollutant	Averaging Period	Hawaii		Federal	
		Standard	Attainment Status	Standard	Attainment Status
Ozone (O_3)	1-hour Average	--	Attainment	--	--
	8-hour Average	0.08 ppm	Attainment	0.070 ppm (137 µg/m^3)	Attainment
Respirable Particulate Matter (PM_{10})	24-hour Average	150 µg/m^3	Attainment	150 µg/m^3	Attainment
	Annual Arithmetic Mean	50 µg/m^3	Attainment	--	--
Fine Particulate Matter ($PM_{2.5}$)	24-hour Average	--	--	35 µg/m^3	Attainment
	Annual Arithmetic Mean	--	--	15 µg/m^3	Attainment
Carbon Monoxide (CO)	8-hour Average	4.4 ppm	Attainment	9 ppm (10 mg/m^3)	Attainment
	1-hour Average	9 ppm	Attainment	35 ppm (40 mg/m^3)	Attainment
Nitrogen Dioxide (NO_2)	Annual Arithmetic Mean	0.04 ppm	Attainment	53 ppb (100 µg/m^3)	Attainment
	1-hour Average	--	Attainment	100 ppb (188 µg/m^3)	Unclassified
Sulfur Dioxide (SO_2)	24-hour Average	0.14 ppm	Attainment	--	--
	3-hour Average	0.5 ppm	--	0.5 ppm (1,300 µg/m^3)	--
	1-hour Average	--	--	75 ppb (196 µg/m^3)	Attainment
	Annual Arithmetic Mean	0.03 ppm	Attainment	--	--
Lead (Pb)	30-day average	1.5 µg/m^3	Attainment	--	--
	Calendar Quarter	1.5 µg/m^3	--	1.5 µg/m^3	Attainment
	Rolling 3-Month Average	--	--	0.15 µg/m^3	--
Hydrogen Sulfide (H_2S)	1-hour Average	0.025 ppm	Attainment	--	--

SOURCE: State of Hawaii Department of Health, *State of Hawaii Annual Summary 2015 Air Quality Data*, December 2016.

- No person shall operate a diesel-powered motor vehicle which emits visible smoke for a period of more than five consecutive seconds while upon streets, roads, or highways.

- No person shall cause, suffer, or allow any engine to be in operation while the motor vehicle is stationary at a loading zone, parking or servicing area, route terminal, or other off street areas, except:

  - During adjustment or repair of the engine at a garage or similar place of repair;
  - During operation of ready-mix trucks, cranes, hoists, and certain bulk carriers, or other auxiliary equipment built onto the vehicle or equipment that require power take-off from

the engine, provided that there is no visible discharge of smoke and the equipment is being used and operated for the purposes as originally designed and intended. This exception shall not apply to operations of air conditioning equipment or systems;
- During the loading or unloading of passengers, not to exceed three minutes; and
- During the buildup of pressure at the startup and cooling down at the closing down of the engine for a period of not more than three minutes.

- No person shall remove, dismantle, fail to maintain, or otherwise cause to be inoperative any equipment or feature constituting an operational element of the air pollution control system or mechanism of a motor vehicle as required by the provisions of the Act except as permitted or authorized by law.

3.3 GREENHOUSE GAS EMISSIONS AND CLIMATE CHANGE

Cumulative GHG emissions are believed to contribute to an increased greenhouse effect and global climate change, which may result in sea level rise, changes in precipitation, habitat, temperature, wildfires, air pollution levels and changes in the frequency and intensity of weather-related-events. While criteria pollutants and toxic air contaminants are pollutants of regional and local concern, GHG are global pollutants. The primary land-use related GHG are carbon dioxide (CO_2), methane (CH_4) and nitrous oxides (N_2O). The individual pollutant's ability to retain infrared radiation represents its "global warming potential" and is expressed in terms of CO_2 equivalents; therefore, CO_2 is the benchmark having a global warming potential of 1. Methane has a global warming potential of 28 and thus has a 28 times greater global warming effect per metric ton of CH_4 than CO_2. Nitrous Oxide has a global warming potential of 265. GHG emissions are generally expressed in units of annual metric tons of CO_2 equivalents (i.e., $MTCO_2e$/year).

3.4 CLIMATE CHANGE REGULATORY FRAMEWORK

International Regulations

A new international climate change agreement was adopted at the Paris United Nations Framework Convention on Climate Change conference in December 2015. The last two climate conferences in Warsaw (2013) and Lima (2014) decided that countries were to submit their proposed emissions reduction targets for the 2015 conference as "intended nationally determined contributions" prior to the Paris conference. The European Union has committed to an economy-wide, domestic GHG reduction target of 40 percent below 1990 levels by 2030. These targets are set with the goal of limiting global temperature rise to well below 2 degrees Celsius and getting to the 80 percent emission reduction by 2050.

Federal Regulations

The United States Supreme Court ruled in *Massachusetts v. Environmental Protection Agency, 127 S.Ct. 1438*, that CO_2 and other GHGs are pollutants under the CAA, which the USEPA must regulate if it determines they pose an endangerment to public health or welfare. On December 7, 2009, the USEPA made two distinct findings: 1) that the current and projected concentrations of the six key GHGs (CO_2, CH_4, N_2O, hydrofluorocarbons, perfluorocarbons and sulfur hexafluoride) in the atmosphere threaten the public health and welfare of current and future generations; and 2) that the combined emissions of these GHGs from new motor vehicles and new motor vehicle engines contribute to the GHG pollution which threatens public health and welfare.

On June 23, 2014, the U.S. Supreme Court ruled in *Utility Air Regulatory Group. v. EPA* that the USEPA exceeded its statutory authority under the CAA when it determined that stationary source emissions of GHGs would trigger permitting obligations under the Prevention of Significant Deterioration (PSD) program and Title V of the CAA. The Court, however, upheld those portions of USEPA's rulemaking that require a source to apply best available control technology (BACT) to GHG emissions where the source would otherwise trigger PSD permitting on account of its emissions of other pollutants. The Supreme Court's decision was limited to USEPA's regulation of GHG emissions under the PSD and Title V provisions of the CAA, and it left unanswered other questions regarding USEPA's permitting and BACT authority under the PSD program, and the USEPA's efforts to regulate GHG emissions from stationary sources.

State Regulations

In 2007, Hawaii became the second State in the nation to set a binding cap on GHG emissions through Act 234, which declared a policy to reduce GHG emissions statewide to 1990 levels by the year 2020. Act 234 served as the foundation for the Hawaii Greenhouse Gas Program, which was established by the Hawaii Department of Health (DOH) to combat the threat of climate change and sea level rise. This Program utilizes the Air Pollution Control Permit process of DOH's Clean Air Branch to regulate GHG emissions statewide, in conjunction with other federal and Hawaii State programs to mitigate GHGs. Parts of Act 234 are codified in Chapter 342B (Air Pollution Control) of the Hawaii Revised Statutes.

State Senate Bill (SB) 559, which was signed into law on June 8, 2017, expands strategies and mechanisms to reduce GHG emissions in alignment with the principles and goals adopted in the Paris Agreement, discussed above. SB 559 documents the State's commitment to combat climate change by systematically reducing GHG emissions and improving resiliency to climate change aligned with the principles and goals set by the Paris Agreement. It expands on strategies and mechanisms to reduce GHG emissions through the reduction of energy use, adoption of renewable energy, and control of air pollution among all agencies, departments, industries, and sectors, including transportation. SB 559 states that, "Such strategies and mechanisms shall utilize the best available science, technologies, and policies to reduce GHG emissions and shall be closely aligned with the climate change principles and goals adopted in the Paris Agreement and Hawaii's share of obligations within the expectations apportioned to the United States in the Paris Agreement, regardless of federal action. In addition, "The State shall strive to formulate and communicate long-term low greenhouse gas emission development strategies and shall take actions to conserve and enhance long-term sinks and reservoirs of greenhouse gases, by prioritizing the development of parks, greenways, and restoration of native upland and coastal forests and wetlands."

4.0 EXISTING ENVIRONMENTAL SETTING

4.1 AIR POLLUTION CLIMATOLOGY

Air quality in the vicinity of the proposed project is generally considered to be good due to the presence of northeasterly trade winds that tend to disperse pollutants seaward. As shown in **Table 3-1**, the project area is currently designated as being in attainment of all applicable ambient air quality standards. Air pollutant emissions from nearby stationary sources such as the Aloha Petroleum refinery, the Chevron Honolulu refinery, and the Honolulu Harbor are blown offshore in the opposite direction of the proposed project and do not pose environmental concerns with regards to degradation of air quality.

4.2 LOCAL CLIMATE

The annual average temperature in the project area is 75.3 degrees Fahrenheit (ºF). The project area experiences an average winter temperature of approximately 72.6ºF and an average summer temperature of approximately 77.7ºF. Annual average wind speed in the project area is approximately 11.5 miles per hour. Total precipitation in the project area averages approximately 26.4 inches annually. Precipitation averages approximately 11.0 inches during the winter, approximately 6.8 inches during the spring, approximately 6.3 inches during the fall, and 2.3 inches during the summer.[1]

4.3 AIR MONITORING DATA

The Island of Oahu has four active air monitoring stations, with the nearest air monitoring station to the project area being in Honolulu at 1250 Punchbowl Street on the top of the Department of Health building, which is located approximately one mile south-southeast of the proposed project. The Honolulu monitoring station measures concentrations of CO, SO_2, PM_{10}, and $PM_{2.5}$. The most recent period of air monitoring data available is from 2013–2015, which was published in the *State of Hawaii Annual Summary 2015 Air Quality Data* report.[2] During the period from 2013 to 2015, the Honolulu monitoring station did not record any violations of the NAAQS for CO, SO_2, PM_{10}, or $PM_{2.5}$ over any averaging period, as shown in **Table 3-2** below. The results of the monitoring period reflect consistency with the attainment designations presented in **Table 3-1** and the general perception that regional air quality in the vicinity of Honolulu is healthy.

TABLE 3-2: HONOLULU AIR MONITORING DATA SUMMARY

Pollutant	Standard	Maximum 2013	Maximum 2014	Maximum 2015
CO	9.0 ppm (1-hour)	1.6 ppm	2.0 ppm	1.4 ppm
	4.4 ppm (8-hour)	1.2 ppm	1.0 ppm	1.0 ppm
SO_2	0.075 ppm (1-hour)	0.022 ppm	0.018 ppm	0.010 ppm
	0.500 ppm (3-hour)	0.017 ppm	0.015 ppm	0.007 ppm
	0.140 ppm (24-hour)	0.005 ppm	0.008 ppm	0.003 ppm
PM_{10}	150 µg/m^3 (24-hour)	35 µg/m^3	30µg/m^3	36 µg/m^3
	50 µg/m^3 (Annual)	11µg/m^3	13µg/m^3	12 µg/m^3
$PM_{2.5}$	35 µg/m^3 (24-hour)	18 µg/m^3	12µg/m^3	17 µg/m^3
	15 µg/m^3 (Annual)	5.3 µg/m^3	4.4 µg/m^3	3.7 µg/m^3

SOURCE: State of Hawaii Department of Health, *State of Hawaii Annual Summary 2015 Air Quality Data*, December 2016.

[1] Western Regional Climate Center, Historical Climate Information (http://www.wrcc.dri.edu), June 22, 2017.
[2] State of Hawaii Department of Health, *State of Hawaii Annual Summary 2015 Air Quality Data*. December 2016.

4.4 SENSITIVE RECEPTORS

Sensitive land uses are locations where people reside or where the presence of substantial air pollutant concentrations could adversely affect the use of the land. Residences, schools, hospitals, guest lodging, libraries, and some passive recreation areas would each be considered sensitive and may warrant unique measures for protection from pollutant emissions. Sensitive receptors near the project site include the following:

- Residences located approximately 50 feet to the north across Pua Lane;
- Residences located approximately 130 feet to the northeast across Vineyard Boulevard;
- Residences located approximately 180 feet to the south across Liliha Street;
- Princess Victoria Ka'iulani Elementary School located approximately 240 feet to the west across King Street; and
- Kauluwela Elementary School located approximately 780 feet to the southeast across Vineyard Boulevard.

The above sensitive receptors represent the nearest receptors sensitive to detriment of local air quality with the potential to be impacted by the proposed project. Additional sensitive receptors are located further from the project site in the surrounding community within one-quarter mile of the project site and would be less affected by the proposed project than the above sensitive receptors.

In addition to the off-site sensitive receptors listed above, sensitive receptors would be located on the project site during construction activity. The project site would be developed over phases and newly constructed residences would potentially be located adjacent to ongoing construction activity. These residences would be sensitive to emissions of air pollutants generated by construction activities.

5.0 SIGNIFICANCE CRITERIA

According to the Council on Environmental Quality (CEQA) Regulations (40 Code of Federal Regulations (CFR) §§ 1500-1508), the determination of a significant impact is a function of both context and intensity. Context means that the significance of an action must be analyzed in several contexts such as society as a whole (human, national), the affected region, the affected interests, and the locality. Both short- and long-term effects are relevant. Intensity refers to the severity of impact. To determine significance, the severity of the impact must be examined in terms of the type, quality and sensitivity of the resource involved; the location of the proposed project; the duration of the effect (short- or long-term) and other consideration of context. Adverse effects will vary with the setting of the proposed action and the surrounding area.

6.0 ENVIRONMENTAL EFFECTS

6.1 CONSTRUCTION AIR POLLUTANT EMISSIONS

Prior to construction of the proposed project, existing structures on the project site would be demolished and the associated materials would be removed. It is possible that the existing structures on the project site may contain asbestos, and all demolition projects within the State of Hawaii must notify the Department of Health (DO) prior to commencement of activities. Accordingly, demolition activities associated with the proposed project would be subject to the requirements of Title 11 Hawaii Administrative Rules (HAR), DOH, Chapter 501, "Asbestos Requirements." The proposed project would complete an Asbestos Renovation/Demolition Survey to determine the potential for the presence of asbestos-containing materials (ACM). Additionally, all demolition and construction activities would adhere to the provisions of the Hawaii DOH Construction & Demolition (C&D) Waste Disposal General Guidance to ensure proper handling of potentially contaminated materials.

Construction activity would generate emissions through the use of heavy-duty construction equipment and through vehicle trips generated by construction workers traveling to and from the project site. Fugitive dust emissions would primarily result from site preparation (e.g., grading) activities. Nitrogen oxide emissions would primarily result from the use of construction equipment. Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation and, for dust, the prevailing weather conditions.

Construction activity would occur over the entire 15-acre project site. A project site of this size would typically require an equipment inventory including a maximum of two scrapers and two graders to level the surface. This equipment inventory would potentially disturb up to three acres of the project site on a given day. Using USEPA AP-42 emission factors, it was determined that construction activity would generate up to 10 pounds per day of fugitive dust emissions. Construction emissions would be temporary and are not considered adverse. It is recommended that Air Quality Control Measures **AQ1** through **AQ5** be implemented to ensure accordance with Hawaii Administrative Rules. Air Quality Control Measures **AQ6** through **AQ9** are recommended to reduce pollutant exposure to residences residing on the project site during construction activities.

Construction Air Quality Control Measures

AQ1 The construction contractor shall use water or suitable chemicals to control fugitive dust in the demolition of any existing buildings or structures, construction operations, the grading of roads, or the clearing of land.

AQ2 The construction contractor shall apply asphalt, water, or suitable chemicals on roads, material stockpiles, and other surfaces which may result in fugitive dust.

AQ3 The construction contractor shall cover all moving, open-bodied trucks transporting materials which may result in fugitive dust.

AQ4 The construction contractor shall maintain roadways in a clean manner.

AQ5 The construction contractor shall promptly remove earth or other materials from paved streets which have been transported there by trucking, earth-moving equipment, erosion, or other means.

AQ6 Staging areas shall be located away from on-site residential land uses.

AQ7 On-site electricity shall be obtained from the electrical grid rather than temporary diesel or gasoline generators.

AQ8 Equipment and vehicle engines shall be maintained in good condition and in proper tune per manufacturers' specifications.

AQ9 All construction equipment and delivery vehicles shall be turned off when not in use or prohibit idling in excess of five minutes. Haul trucks in particular that stage waiting to be called to remove dirt from the site shall not be allowed to idle while queuing.

6.2 OPERATIONAL AIR POLLUTANT EMISSIONS

Clean Air Act Requirements

Conformity is a requirement of the CAA (Section 176(c), at 42 United States Code (U.S.C.) 7506(c)), to ensure that federal actions are consistent with the SIP to achieve and maintain NAAQS. Conformity only applies in areas that are designated nonattainment or maintenance for criteria pollutants. The proposed project is located in an Attainment/Unclassified area for all NAAQS. Therefore, conformity requirements do not apply.

The proposed project does not include a source of direct pollutant emissions. Indirect source of emissions include off-site electrical generation activities (if the energy source is non-renewable) and tailpipe emissions from on-road vehicles. As explained above, there is no nexus for estimating operational emissions. In addition, absent of the General Conformity Assessment, there are no significance criteria to be used for assessing adverse effects. The proposed project would not result in an adverse effect related to operational emissions.

The USEPA has published guidance on prevention of CO "hot spots" at congested intersections resulting from idling and slow-moving vehicles. The guidance focuses on the avoidance of localized spikes in CO concentrations causing violations of the ambient air quality standards. According to the Transportation Assessment prepared for the proposed project, full buildout would introduce approximately 10,085 net new daily vehicle trips to the project area, including 578 trips during the AM peak hour and 959 trips during the PM peak hour. The Transportation Assessment for the proposed project determined that the maximum peak hour intersection volume in 2028 following full buildout would be approximately 5,069 vehicles at the intersection of North King Street, Dillingham Boulevard, and Liliha Street.[3]

In response to the guidance promulgated by the USEPA, numerous regulatory agencies throughout the country undertook research to determine the types of intersections that may pose air quality concerns with regards to CO hot spots. Since the island of Oahu has always been in attainment of the ambient air quality standards, local regulatory agencies did not have a need to conduct research to satisfy the SIP requirements. However, mobile source emissions of CO are of particular concern in California, where the South Coast Air Quality Management (SCAQMD) engaged in extensive research to demonstrate how the CO NAAQS could be attained for the region.

Research published in 2003 by the SCAQMD involved air dispersion modeling of mobile CO emissions at some of the busiest intersections in southern California. Results of the CO dispersion modeling exercise determined that an intersection experiencing a peak hour volume of approximately 10,000 vehicles per hour—about twice the maximum within the project area—

[3]Fehr & Peers, *Transportation Assessment for Redevelopment of Mayor Wright*, May 2017.

would generate a maximum 1-hour CO concentration of approximately 4.6 ppm.[4] The applicable State 1-hour average CO ambient air quality standard is 9.0 ppm. Therefore, the maximum intersection volume in the project area following full buildout of the proposed project is approximately 25 percent of the volume that could potentially exceed the State 1-hour standard for CO.

Additionally, the maximum background 1-hour CO concentration measured in the vicinity of the project area was 1.4 ppm in 2015, which is approximately one-sixth of the applicable State 1-hour standard for CO. According to the Transportation Assessment, the maximum existing peak hour intersection volume in the project area is 4,439 at the intersection of North King Street, Dillingham Boulevard, and Liliha Street. Under the 2028 full buildout conditions, peak hour volumes at this intersection would be 5,039 vehicles, which represent an increase of approximately 14 percent relative to existing conditions. This incremental increase in maximum peak hour traffic volumes would not have the potential to increase maximum 1-hour CO concentrations in the project area by six times current levels. Therefore, implementation of the proposed project would not result in potential CO hot spots within the project area.

Residential Exposure

The proposed project would introduce new residential receptors to the project area that could potentially be adversely affected by existing sources of air pollution. For instance, the H1 Freeway is located approximately 1,000 feet northeast of the project site. According to the most recently available data obtained by the State in 2012, annual average daily traffic on the segment of the H1 Freeway in closest proximity to the project site was approximately 174,000 vehicles. Research conducted in the State of California determined that air pollution near freeways decreased by approximately 70 percent at a distance of 500 feet from the source, prompting the California Air Resource Board (CARB) to publish a recommended screening distance of 500 feet for siting new residences in proximity to freeways without mitigation.[5] The proposed project would be located at a distance from the H1 freeway equal to twice the California recommended screening threshold. Additionally, according to research published by the SCAQMD, air pollution generated by mobile sources on the H1 freeway would diminish by more than 80 percent before reaching the proposed project.[6] Therefore, long-term habitation of future residences on the project site would not have the potential to expose occupants to unacceptable levels of air pollution and no adverse effects would occur.

The project site is located approximately 2.6 miles from the end of runway 26R of the HNL. Air quality in the vicinity of the proposed project is generally considered to be good due to the presence of northeasterly trade winds that tend to disperse pollutants seaward. Air pollutant emissions from HNL are typically blown offshore in the opposite direction of the proposed project and do not pose a significant exposure concern. As shown in **Table 3-1**, the project area is currently designated as being in attainment of all applicable ambient air quality standards. Monitored data shown in **Table 3-2** demonstrates that pollutant concentrations are well below pollutant standards. The monitoring station at 1250 Punchbowl Street is less than one mile from the project site and can be used as indicator of a potential adverse effect from HNL, which has been demonstrated to be low.

[4]South Coast Air Quality Management District, *Final 2003 AQMP Appendix V: Modeling and Attainment Demonstrations*, August 2003.
[5]California Air Resources Board, *Air Quality and Land Use Handbook: A Community Health Perspective*, April 2005.
[6]South Coast Air Quality Management District, *Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning – Chapter 2: Air Quality Issues Regarding Land Use*, May 2005

GHG Emissions

As of April 5, 2017, the CEQ has withdrawn its "Final Guidance for Federal Departments and Agencies on Consideration of Greenhouse Gas Emissions and the Effects of Climate Change in National Environmental Policy Act [(NEPA)] Reviews," for which a Notice of Availability was originally published on August 5, 2016. Therefore, no guidance currently exists for addressing GHG emissions and climate change under NEPA. The USEPA has not issued explicit guidance or methods to conduct project-level GHG emissions analysis. Similar to criteria pollutant emissions, the proposed project does not include a source of direct pollutant emissions.

The State, through Act 234 and SB 559, has acknowledged that GHG emissions are a statewide impact. The project would create a sustainable new community of high quality design that meets or exceeds industry standards and incorporates state-of-the-art energy conservation and green practices in a Leadership in Energy and Environmental Design (LEED)-certifiable project. The project will require a maximum of 9.7 megawatts of power which would lead to indirect generation of GHG emissions. Hawaii is committed to renewable energy production, which does not generate GHG emissions. In 2016, 25.8 percent of energy produced by the Hawaiian Electric Companies was renewable. Hawaii has enacted a law that mandates that all of the State's electricity comes from renewable sources no later than 2045. The project is anticipated to be built in 2028. Project-related indirect emissions would decline between 2028 and 2045 as the State moves toward a fully renewable supply of energy.

Project emissions have been conservatively estimated using existing generation information and emission rates. The 2015 Hawaii State Electricity Profile indicates that approximately 1,600 pounds of carbon dioxide is emitted per megawatt-hour of electricity used. The analysis assumes that the average daily power use, including nighttime hours, at the project site would be 50 percent of the maximum power load. The indirect emissions from electricity use would be approximately 11,129 metric tons per year. These emissions would quickly decrease through 2045 as the State becomes fully reliant on renewable energy. Hawaiian Electric has stated there is existing capacity to service the project. The project would not interfere with the development of clean energy supplies and would not include a substantial on-site source of GHG emissions. The proposed project would locate in-fill development near existing public transportation and shopping areas, thereby reducing mobile source emissions compared to development located outside of urban areas. For example, the trip generation analysis prepared for the proposed project anticipates that walking/biking trips would reduce passenger vehicle trips by 10 percent, residential-related transit trips would reduce passenger vehicle trips by 30 percent, and retail-related transit trips would reduce passenger vehicle trips by 15 percent at full buildout. Energy conservation features and in-fill development benefits would ensure that the proposed project would not result in a significant GHG impact.

7.0 CUMULATIVE EFFECTS

7.1 Federal

The NEPA requires that any agency proposing a major federal action, which may significantly affect the environment, consider the environmental impacts of the proposed action, any unavoidable adverse environmental impacts, and the relationship between local short term uses and long term productivity of the environment (42 U.S.C. 4332(c)). There are three types or categories of effect that must be considered during the NEPA process: direct, indirect, and cumulative (40 CFR 1508.25). A direct effect is one which is caused directly by our activities, at the same time, and in the same place. An indirect effect is a reasonably foreseeable effect caused by the proposed action or alternatives, but that occurs later in time or is further removed from the project site than a direct effect. "Indirect effects may include growth inducing effects and other effects related to induced changes in the pattern of land use, population density or growth rate," and related effects on resources (40 CFR 1508.8(b)).

A cumulative effect is an "impact on the environment which results from the incremental effect of the action when added to other past, present, and reasonably foreseeable future actions" (40 CFR 1508.7). Cumulative effects can result from individually minor but collectively significant actions taking place over time (40 CFR 1508.7). A cumulative effects analysis is required whenever an EA or EIS is prepared. A project must have a direct and/or indirect effect on a specific resource to exert a cumulative influence. If no direct and/or indirect effect to a specific resource is expected, there is no need to consider cumulative effects to that resource. As previously discussed, the proposed project would not result in an adverse air quality effect. No further analysis is necessary. Therefore, a cumulative effect would not occur under NEPA regulations.

7.2 State

Section 11-200-2 of the Hawaii Administrative Rules contains the definition of a "cumulative impact" for Environmental Impact Statements. A "cumulative impact" is defined as the impact on the environment, which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency or person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time.

By its very nature, air pollution is largely a cumulative impact. Ambient air quality standards are violated or approach nonattainment levels due to past development that has formed the urban fabric, and attainment of standards can be jeopardized by increasing emissions-generating activity in the region. As shown in **Table 3-2**, above, monitored air quality concentrations are well below the NAAQS, which are health-based standards established by the USEPA. In addition, the proposed project is located in an Attainment/Unclassified area for all NAAQS. The regional air quality in the vicinity of Honolulu is considered to be healthy. There is no existing cumulative air quality impact, and there is no potential for the project to significantly contribute to a future air quality impact.

The State, through Act 234 and SB 559, has acknowledged that GHG emissions are a statewide impact. Emissions generated by the proposed project in combination with past, present, and reasonably probable future related projects could contribute to this impact. Although climate change is cumulative in nature, not every individual project that emits GHGs must necessarily be found to contribute to a significant cumulative impact on the environment. The project would create a sustainable new community of high quality design that meets or

exceeds industry standards and incorporates state-of-the-art energy conservation and green practices in a LEED-certifiable project. The project would not interfere with the development of clean energy supplies and would not include a substantial on-site source of GHG emissions. The proposed project would locate in-fill development near existing public transportation and shopping areas, thereby reducing mobile source emissions compared to development located outside of urban areas. For example, the trip generation analysis prepared for the proposed project anticipates that walking/biking trips would reduce passenger vehicle trips by 10 percent, residential-related transit trips would reduce passenger vehicle trips by30 percent, and retail-related transit trips would reduce passenger vehicle trips by 15 percent at full buildout. Energy conservation features and in-fill development benefits would ensure that the proposed project would not contribute to a cumulative GHG impact.

EXHIBIT 21

FEHR PEERS

Mayor Wright Housing Redevelopment

Multimodal Transportation Assessment

Prepared for: PBR Hawaii
January 8, 2018
SD16-0203.01

REPORT

Multimodal Transportation Assessment for the Mayor Wright Redevelopment

Prepared for:
PBR Hawaii

January 8, 2018

SD16-0203.01

FEHR PEERS

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1.0 EXECUTIVE SUMMARY

This report presents the results of the multimodal transportation assessment for the proposed Mayor Wright Housing redevelopment within the Kalihi area on the island of O`ahu. This document satisfies the requirement of a transportation impact analysis report (TIAR) but places additional emphasis on active transportation (i.e., biking and walking) and transit modes. The proposed project would replace one for one the existing 364 public housing units (based on the number of bedrooms in the existing units) with up to total of 2,500 residential units and up-to 80,000 square feet (s.f.) of retail and commercial uses. The project site is bounded by N King Street on the makai side, N Vineyard Boulevard on the mauka side, Liliha Street on the Diamond Head side, and Pua Lane on the ewa side. Mayor Wright would be built in five (5) phases with two-years of construction estimated for each phase. The project is projected to be fully constructed and occupied by Year 2028.

The impacts of the proposed project to the surrounding transportation system were evaluated following guidelines established by the City & County of Honolulu Department of Planning & Permitting (DPP) Traffic Review Branch (TRB) and the Hawaii Depart of Transportation – Highways Division (HDOT). The operations of 15 existing key intersections were evaluated during the weekday morning (AM) and evening (PM) peak hours for the following scenarios:

- Existing (2016)
- Near Term (2022) Conditions, which assumes partial development (half) of the project. This scenario analyzes conditions without and with the project.
- Long-Term (2028) Conditions, which assumes full buildout of the project. This scenario analyzes conditions without and with the project.

The project's trip generation estimates were developed using MainStreet, a web application developed by Fehr & Peers that uses the Mixed-Use (MXD+) Trip Generation Model. This MXD model was developed by Fehr & Peers and the Environmental Protection Agency (EPA) and is based on statistically superior data compared to the methodology used by ITE. The model recognizes that traffic generation by mixed-use and other forms of sustainable development relate closely to the density, diversity, design, destination accessibility, travel proximity, and scale of development. The model estimates the percentage of daily and peak hour trips that remain to the project site, as well as external transit, walk and vehicle mode splits. The vehicle trip reductions (i.e. walking, biking, transit) were further refined based on existing travel survey data provided in the *Kalihi Transit-Oriented Development Plan* (2014). The transit reduction was slightly increased to account for the new Iwilei rail station that would be located less than one-third of a mile from the project site. Based on this approach, the proposed project is estimated to generate the following net new vehicle trips:

- Partial Buildout (half of project): a total of 5,065 daily trips, including 235 trips during the AM peak hour (31 inbound/204 outbound), and 502 trips during the PM peak hour (310 inbound/192 outbound)
- Full Buildout: a total of 10,085 daily trips, including 578 during the AM peak hour (111 inbound/467 outbound), and 959 trips during the PM peak hour (590 inbound/369 outbound)

Table ES-1, shows the intersection impacts and under which project scenario those impacts would be triggered, the type of project impact (i.e. cumulative or project specific), and the recommended mitigation measures to mitigate those impacts.

TABLE ES-1: PROJECT IMPACTS

Intersection	Near Term (2022) Plus Partial Buildout	Year 2028 Plus Full Buildout	Impact Type	Recommended Traffic Mitigation Measures
7. N King Street / Dillingham Boulevard/Liliha Street	X	X	Cumulative	No feasible capacity enhancements available[1].
9. N Vineyard Boulevard / Liliha Street	X	X	Cumulative	Add a second eastbound left-turn lane on N Vineyard Boulevard
14. N Vineyard Boulevard / Aala Street	X	X	Cumulative	Restripe the southbound approach on Aala Street to include a separate left and shared through/right lane.

Source: Fehr & Peers, 2017

[1] There are no feasible roadway capacity enhancements that can be implemented at this intersection without of significant right-of-way acquisitions on other properties. Additionally, heavy congestion at this intersection is primarily attributed to regional traffic demand, and widening these roadways is beyond the scope of a single development project.

The three cumulative impacts (intersections 7, 9, and 14) that would be triggered in Near Term (2022) and Long-Term (2028) would also be impacted after the first phase of construction is completed, which is estimated to include approximately 650 residential units of development.

To reduce the project's transportation impact, the implementation of travel demand management (TDM) strategies is recommended to reduce the number of vehicle trips and increase the use of alternative modes. TDM strategies that could be considered include incentivizing residents and employees to carpool and take transit, providing secure on-site bicycle storage facilities, and developing parking management plans. A final TDM program should be developed in consultation with DPP staff.

In addition to implementing roadway capacity enhancements and TDM strategies, it is also recommended that pedestrian safety enhancements be implemented at the major adjacent intersections (i.e. N King

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Street/Dillingham Boulevard/Liliha Street and N Vineyard Boulevard/Liliha Street) to improve the pedestrian facilities near the site that would serve the existing and future demand. Those improvements include:

- Install Leading Pedestrian Intervals (LPIs) at all crosswalks
- Realign and straighten the existing crosswalk to reduce the crosswalk distance and improve pedestrian visibility
- Relocate the existing signal box and signal pole in the ewa-mauka corner of N King Street/Dillingham Boulevard/Liliha Street behind the crosswalk to improve pedestrian visibility.
- Relocate all pedestrian push buttons so that they are within 10 feet from the curb ramp.

Overall, while the proposed project is expected to increase walking, biking, and transit activity in the study area, the project's planned multimodal enhancements coupled with the planned agency improvements are expected to adequately serve the future demand. These improvements include the safety enhancements described above, the promotion of the use of passive and active spaces and non-motorized modes, and the implementation of planned Complete Streets projects, as well as the future rail system. Thus, the project's impacts to pedestrian, bicycle, and transit facilities and services are considered less than significant.

2.0 INTRODUCTION

This Multimodal Transportation Assessment fulfills the requirements of a transportation impact analysis report (TIAR), and presents the results of the mobility study conducted by Fehr & Peers for the redevelopment of Mayor Wright Housing in the Kalihi community on the island of O`ahu. The purpose of this analysis is to identify the impacts of the proposed project on the surrounding transportation system. The Multimodal Transportation Assessment includes a description of the assumptions and methods used to conduct the study, as well as a discussion of the results. This Multimodal Transportation Assessment was conducted in accordance with the guidelines and standards of the affected government agencies. **Figure 1** illustrates the study area, and **Figure 2** illustrates the proposed conceptual site plan.

2.1 PROJECT DESCRIPTION

The proposed project is the redevelopment of the existing 364 affordable housing units into a mixed-use development comprising residential and retail uses. The project will include up to 2,500 residential units and up to 80,000 square feet (s.f) of retail and commercial uses. The project site is bounded by N King Street on the makai side, N Vineyard Boulevard on the mauka side, Liliha Street on the Diamond Head side, and Pua Lane on the ewa side. Mayor Wright is estimated to be built in five (5) phases with approximately two-years of construction for each phase. The project is projected to be fully constructed and occupied by Year 2028.

Figure 1
Study Area

Figure 2
Project Site Plan

2.2 PROJECT STUDY AREA

The study analyzed the potential project-related traffic impacts during the typical weekday AM and PM peak hours under current conditions and two future scenarios. The transportation analysis evaluated the operations at 15 intersections in the vicinity of the proposed project. The analyzed intersections are listed below and are shown on **Figure 1**:

1. Dillingham Boulevard / Alakawa Street
2. N King Street / Palama Street
3. N Vineyard Boulevard / Palama Street
4. N King Street / Pua Lane
5. Kukui Street / Pua Lane
6. N Vineyard Boulevard / Pua Lane
7. N King Street / Dillingham Blvd / Liliha Street
8. Kukui Street / Liliha Street
9. N Vineyard Boulevard / Liliha Street
10. Kiapu Place / Liliha Street
11. N School Street / Liliha Street
12. N King Street / Iwilei Road
13. N Beretania Street / Aala Street
14. N Vineyard Boulevard / Aala Street
15. Dillingham Boulevard / Kaaahi Street

The operations of the study intersections were evaluated during the weekday morning (AM) and evening (PM) peak hours for the following scenarios:

- **Existing (2016) Conditions** – The analysis of existing traffic conditions was based on 2016 counts collected for the analyzed peak hours. The existing conditions analysis also includes a description of key area roadways and an assessment of bicycle, pedestrian, and transit facilities and services near the site.
- **Near Term (2022) Baseline Conditions** –This year reflects the completion of approximately half of the total development of the project. Year 2022 volumes were forecasted by applying an annual growth factor to the existing traffic counts. The growth counts were based on historic HDOT traffic counts and other transportation studies in the study area.
- **Near Term (2022) Plus Partial Buildout Conditions** – This traffic scenario provides projected traffic volumes and an assessment of operating conditions under Near Term Baseline Conditions

with the addition half of the project's development (partial buildout)-generated traffic. The near term impacts of the proposed project on future traffic conditions were identified.

- **Long-Term (2028) Baseline Conditions** – Future Year 2028 volumes in the anticipated completion year of the full project build-out were projected by increasing traffic volumes using an annual growth factor to account for ambient growth.
- **Long-Term (2028) Plus Full Buildout Conditions** – This traffic scenario provides projected traffic volumes and an assessment of operating conditions with full buildout of the proposed project after roughly 10+ years of background traffic growth.

2.3 TRAFFIC ANALYSIS METHODS

The analysis of roadway operations performed for this study is based on procedures presented in the *Highway Capacity Manual* (HCM), published by the Transportation Research Board in 2010. The operations of roadway facilities are described with the term level of service (LOS). LOS is a qualitative description of traffic flow based on such factors as speed, travel time, delay, and freedom to maneuver. Six levels are defined from LOS A, with the least congested operating conditions, to LOS F, with the most congested operating conditions. LOS E represents "at-capacity" operations. Operations are designated as LOS F when volumes exceed capacity, resulting in stop-and-go conditions. The methodologies for signalized and unsignalized intersections are described below.

2.3.1 SIGNALIZED INTERSECTIONS

The method described in Chapter 18 of the *Highway Capacity Manual 2010* was used to prepare the LOS calculations for the signalized study intersections. This LOS method analyzes a signalized intersection's operation based on average control delay per vehicle. Control delay alone is used to characterize LOS for the entire intersection or an approach. Control delay includes the initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. The average control delay for signalized intersections is calculated using Synchro 9.0 analysis software and is correlated to a LOS designation as shown in **Table 1**.

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TABLE 1: SIGNALIZED INTERSECTION LOS CRITERIA

Level of Service	Description	Delay in Seconds
A	Progression is extremely favorable and most vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.	≤ 10.0
B	Progression is good, cycle lengths are short, or both. More vehicles stop than with LOS A, causing higher levels of average delay.	> 10.0 to 20.0
C	Higher congestion may result from fair progression, longer cycle lengths, or both. Individual cycle failures may begin to appear at this level, though many still pass through the intersection without stopping.	> 20.0 to 35.0
D	The influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high V/C ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.	> 35.0 to 55.0
E	This level is considered by many agencies to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high V/C ratios. Individual cycle failures are frequent occurrences.	> 55.0 to 80.0
F	This level is considered unacceptable with oversaturation, which is when arrival flow rates exceed the capacity of the intersection. This level may also occur at high V/C ratios below 1.0 with many individual cycle failures. Poor progression and long cycle lengths may also be contributing factors to such delay levels.	> 80.0

Source: *Highway Capacity Manual*, Transportation Research Board, 2010.

2.3.2 UNSIGNALIZED INTERSECTIONS

The operations of the unsignalized intersections were evaluated either using the method contained in Chapter 19: Two-Way Stop-Controlled Intersections or Chapter 20: All-Way Stop-Controlled Intersections of the *HCM 2010*. LOS ratings for stop-sign-controlled intersections are based on the average control delay expressed in seconds per vehicle. At all-way stop-controlled intersections the overall intersection delay and LOS is reported, and the LOS is characterized solely on control delay. At two-way or side-street-controlled (TWSC) intersections, the average control delay is calculated for each minor-street stopped movement and the major-street left turns, not for the intersection as a whole. For approaches composed of a single lane, the control delay is computed as the average of all movements in that lane. For approaches with multiple lanes, the control delay is computed for each movement; the movement with the worst (i.e., longest) delay is presented for TWSC. As shown in the **Table 2**, LOS F is assigned to the movement if the volume-to-capacity (V/C) ratio for the movement exceed 1.0 regardless of control delay. The average control delay for unsignalized intersections is calculated using Synchro 9.0 analysis software and is correlated to a LOS designation as shown in **Table 2**.

TABLE 2: UNSIGNALIZED INTERSECTION LEVEL OF SERVICE DEFINITIONS

Level of Service	Description	Average Control Delay Per Vehicle (Seconds)
A	Little or no delay.	≤ 10.0
B	Short traffic delay.	> 10.0 to 15.0
C	Average traffic delays.	> 15.0 to 25.0
D	Long traffic delays.	> 25.0 to 35.0
E	Very long traffic delays.	> 35.0 to 50.0
F	Extreme traffic delays with intersection capacity exceeded.	> 50.0

Source: *Highway Capacity Manual*, Transportation Research Board, 2010.

Notes:

[1] For approach-based and intersection-wide assessments, such as that used for AWSC intersections, LOS is defined solely by control delay.

2.3.3 SIGNIFICANT IMPACT CRITERIA

The analysis of Near Term (2022) and Long-Term (2028) Conditions compares future baseline operations with conditions when the project is partially and fully built out, respectively, to determine whether or not project traffic is expected to result in a significant operational impact on the surrounding roadways. Based on previous studies conducted for the City & County of Honolulu Department of Planning and Permitting (DPP) Traffic Review Branch (TRB), the minimum desired operating standard for a signalized intersection is typically LOS D. Additionally, the Hawaii Department of Transportation (HDOT) strives to maintain LOS D intersection operations and has jurisdiction over two of the streets fronting the project site. Both agencies usually define a significant intersection impact when the operation of an intersection or turning movement changes from LOS D or better to LOS E or F. Impacts are also defined to occur when the addition of project traffic exacerbates locations already operating or projected to operate at LOS E or F. When evaluating intersection operations at any location, other factors are considered in the analysis, such as traffic volumes, volume-to-capacity (V/C) ratios (should ideally be less than 1.00), and secondary impacts to pedestrian, bicycle, and transit travel.

Each of the identified significant impacts is categorized as either a project-related or cumulative impact. If the addition of project traffic is expected to degrade LOS D or better operations to LOS E or F at a signalized intersection, then the project is considered to have a project-specific impact. An impact is considered a

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cumulative impact at a signalized intersection if the addition of project trips exacerbates LOS E or F operations.

For unsignalized intersections, the project is determined to have a significant project-specific impact if the addition of project traffic causes an unsignalized intersection to degrade from LOS D or better to LOS E or F and if the peak hour signal warrant is satisfied. An impact is considered a cumulative impact when it adds traffic to a study location that includes a controlled approach that operates at an undesired level (i.e., LOS E or F) and if the peak hour signal warrant is satisfied. The peak hour warrant is one of several key indications as to whether a traffic signal may be needed at a given location.

TRB and DOT do not publish impact criteria for pedestrian, bicycle, and transit impacts. However, these impacts are generally evaluated based on whether a proposed project would: 1) conflict with existing or planned pedestrian, bicycle, or transit facilities, or 2) create walking, bicycling, or transit use demand without providing adequate and appropriate facilities for non-motorized mobility. The existing amenities for pedestrians, bicycles, and transit users were inventoried to evaluate the quality of the facilities in place today. The assessments of planned facilities outlined in planning documents, such as the *O`ahu Bike Plan* and the *Honolulu High-Capacity Transit Corridor Project Final Environmental Impact Statement*, were used to evaluate future conditions for non-automobile modes. For these modes, if the proposed project is expected to conflict with existing or planned improvements to pedestrian and bicycle facilities, or if the project is expected to generate a substantial demand which could warrant additional transit service, then the project is expected to have a project-specific impact.

2.4 REPORT ORGANIZATION

This report is divided into eight chapters. The existing transportation system serving the project site and the current operating conditions of the key intersections are described in **Chapter 3** Existing Conditions. **Chapter 4** describes the project trip generation, distribution, and assignment used in the transportation impact analysis. **Chapter 5** summarizes the methodologies used to forecast the future traffic volumes and presents the analysis for Near Term (2022) Baseline Conditions. **Chapter 6** represents the analysis for the Near Term (2022) Plus Partial Buildout Conditions. **Chapter 7** summarizes the methodologies used to forecast the Long-Term (2028) traffic volumes and presents the analysis for Long-Term (2028) Baseline Conditions. **Chapter 8** represents the analysis for the Long-Term (2028) Plus Full Buildout Conditions and identifies any project impacts. **Chapter 9** discusses mitigation measures to address any project impacts. **Chapter 10** contains an assessment of the site access and on-site circulation of the proposed project, while **Chapter 11** includes an assessment of the potential future effect of the project on existing and future transit, bicycle, and pedestrian facilities.

3.0 EXISTING CONDITIONS

This chapter describes the existing roadway network and includes a discussion of the bicycle, pedestrian, and transit facilities located in the project study area. This chapter also includes a discussion of the existing intersection LOS results.

3.1 EXISTING TRANSPORTATION FACILIITIES

A comprehensive data collection effort was undertaken to identify existing transportation conditions in the vicinity of the proposed project. The assessment of existing conditions relevant to this study includes an inventory of the street system, traffic volumes on these facilities, and operating conditions at key intersections. Existing public transit service and bicycle and pedestrian facilities are also described.

3.1.1 EXISTING ROADWAY SYSTEM

The key roadways providing access to or in the vicinity of the site are described below. **Figure 1** illustrates the proposed project location and the surrounding roadway system, and **Figure 3** shows the street segment ownership within the study area. The source of the roadway ownership data is based on the City and County of Honolulu's Open Geospatial Data Portal.

H-1 serves a major east-west connection between Kapolei and the Primary Urban Center (PUC) of Honolulu. The freeway is generally six lanes (three in each direction) within the study area. Existing partial interchanges within the project vicinity are provided at Liliha Street, Nuuanu Avenue, Palama Street, and Vineyard Boulevard. The nearest full interchange to the project site is the Pali Highway interchange, which is located a little less than a mile away.

North King Street is a major arterial on the makai side of the project site that extends in the ewa-Diamond Head direction from Middle Street to Kapi`olani Boulevard. Within the project area, N. King Street is an undivided four-lane arterial with a posted speed limit of 25 miles per hour (mph), and is fronted by a wide variety of community-oriented facilities, including churches, schools, residential units, and retail centers. N. King Street is a parallel facility to H-1 and serves the PUC of O`ahu; therefore, during the AM and PM peak periods, this roadway experiences substantial peak period vehicle demand resulting in congestion queuing.

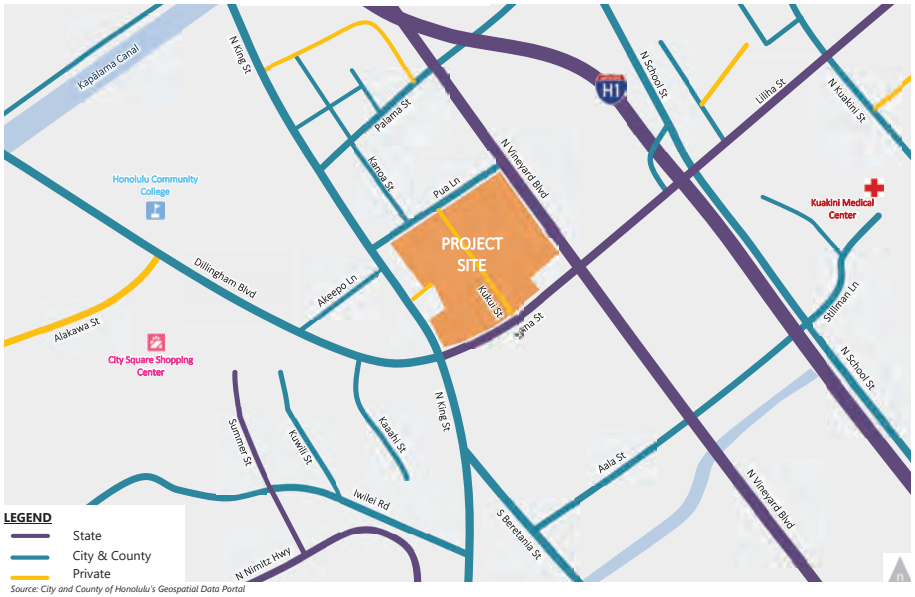

Figure 3
Roadway Ownership

Liliha Street is a major mauka-makai arterial that provides direct access to the project site at the Kukui Street signalized intersection. Within the project area, this roadway contains four travel lanes, two in each direction, with separate or shared left-turn lanes at signalized intersections. This roadway is under HDOT's jurisdiction and provides regional access via N. School Street and H-1 interchange; thus, Liliha Street serves high traffic volumes during the AM and PM peak periods, and long mauka-bound queues heading towards the H-1 interchange were observed during both peak hours.

Pua Lane is a mauka-makai two-lane local street on the ewa side of the project site. This roadway connects North King Street to Vineyard Boulevard, and provides direct access to the project site via an unsignalized intersection at Kukui Street. Traffic volumes on this roadway are relatively low and vehicle delays are typically negligible. On-street parking is well utilized during the day, primarily serving Mayor Wright residents and single- and multi-family residences on the ewa side of Pua Lane.

North Vineyard Boulevard is a major ewa-Diamond Head arterial that extends from Olomea Street/H-1 in the ewa direction to H-1 beyond Aala Street on the Diamond Head side. Vineyard Boulevard is an undivided roadway with six travel lanes (three in each direction) and has a posted speed limit of 30 mph. Similar to N. King Street, Vineyard Boulevard is a parallel facility to H-1, and therefore, serves significant traffic volumes during the AM and PM commute periods when the freeway is congested. North Vineyard is under HDOT's jurisdiction and provides access to H-1.

Dillingham Boulevard is a four-lane undivided ewa-Diamond Head arterial with a posted speed limit of 35 mph in the study area. On the ewa side, it connects to H-1 and Nimitz Highway at Middle Street and extends in the Diamond Head direction to N King Street, where it then transitions to Liliha Street. This roadway provides access to multiple shopping centers, schools, and industrial uses.

3.1.2 EXISTING TRANSIT SERVICES

"TheBus" is O`ahu's provider of public transit. Transit ridership among residents in the area is significantly high, and the study area is well served by frequent bus service provided immediately adjacent to the project site on N King Street, Liliha Street, Vineyard Boulevard, and N School Street. The nearest bus stop to the project site is located on Liliha Street near the Kukui Street intersection, which is located approximately 100 feet from the existing Mayor Wright driveway. Additionally, the N King Street bus stop is also located approximately 100 feet from the existing pedestrian access point at the mauka-ewa corner of the N King Street/Dillingham Boulevard/Liliha Street intersection.

The center of the site is also located a short distance away (i.e. roughly a 1,000 foot walk) from the planned Iwilei Station that will provide access to rail transit line currently under construction. The station will be located at the makai-Diamond Head corner of the Dillingham Boulevard/Kaaahi Street intersection. This

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system will provide more reliable and faster transit service from East Kapolei to Ala Moana Shopping Center, and will allow some residents and employees of the proposed project, to travel to and from the area without the need for a private vehicle. The farthest area of the project site from the Iwilei Station, which is the corner near Vineyard Boulevard and Pua Lane, will be roughly a 1/3-mile walk to the transit station, which is still considered a reasonable distance to access rail transit service on a regular basis.

There are 32 fixed-route bus lines that serve the study area:

- A
- C
- 1
- 2
- 2L
- 3
- 9
- 11
- 13
- 19
- 20
- 40
- 42
- 53
- 54
- 62
- 81 (peak period only)
- 83 (peak period only)
- 84 (peak period only)
- 84A (peak period only)
- 85 (peak period only)
- 85A (peak period only)
- 88 (peak period only)
- 90 (peak period only)
- 91 (peak period only)
- 92 (peak period only)
- 97 (peak period only)
- 98 (peak period only)
- 98A (peak period only)
- 101 (peak period only)
- 102 (peak period only)
- 103 (peak period only)

Figure 4 illustrates the existing and planned transit facilities and services within the greater study area.

Figure 4
Existing and Planned Transit Facilities

3.1.3 EXISTING BICYCLE FACILITIES

Bicycle facilities generally consist of three types of facilities, which are outlined below:

- *Bike or Shared Use Paths* provide a completely separate right-of-way and is designated for the exclusive use of bicycles and pedestrians with vehicle and pedestrian cross-flow minimized. Generally, the recommended pavement width for a two-directional shared use path is ten (10) feet.

- *Bike Lanes* provide a restricted right-of-way and are designated for the use of bicycles with a striped lane on a street or highway. Bicycle lanes are generally five (5) feet wide. Adjacent vehicle parking and vehicle/pedestrian cross-flow are permitted.

- *Bike Route or Signed Shared Roadways* provide for a right-of-way designated by signs or shared lane pavement markings, or "sharrows," for shared use with pedestrians or motor vehicles.

As depicted in **Figure 5**, no bicycle infrastructure is provided within the direct proximity of the project site, though existing bicycle facilities do serve adjacent community areas. Cyclists must share the travel lane with vehicles; however, given the heavy traffic volumes on the adjacent streets, the majority of cyclists ride

on the sidewalks, which creates potential conflicts between bicycles and pedestrians along the narrowest sidewalk sections.

Bicycle infrastructure will be expanded and developed as planned land uses are built and occupied. The *Oah'u Bike Plan* calls for new bicycle lanes on N. King Street and Liliha Street, and a new bicycle route on Dillingham Boulevard. Implementation of separate bicycle lanes (Class II facilities) will require roadway restriping and/or the elimination of parking and vehicle travel lanes. The City & County of Honolulu is currently conducting complete streets planning efforts to identify specific multi-modal improvements in this area including at the intersection of N. King Street and Liliha Street-Dillingham Boulevard.

3.1.4 EXISTING PEDESTRIAN FACILITIES

Pedestrian facilities consist of sidewalks, crosswalks, and pedestrian signals at signalized intersections. The project area has notably high pedestrian activity and is generally well-served by pedestrian infrastructure. All roadways in the immediate vicinity of the project site include sidewalks on both sides of the street. Sidewalks between the project site and the proposed Iwilei rail transit station are in good condition with some shaded areas provided by trees (although the tree canopy could be enhanced. Sidewalks on North King Street, Liliha Street, and Vineyard Boulevard area minimum of eight feet wide and well-maintained. Though there are a few obstructions on the sidewalks (such as utility poles, bus shelters, and trees), adequate space is generally provided to accommodate the level of pedestrian activity on those streets. Although not as wide or aesthetic, the sidewalks on Pua Lane are also in fairly good condition.

The signalized intersections surrounding the project site includes marked crosswalks on all intersection approaches, with the exception of the south leg of the N King Street/Dillingham Boulevard – Liliha Street intersection. Typically, crosswalks are not provided on selected intersection approaches to facilitate vehicle travel to reduce the number of signal phases and/or to avoid pedestrian conflicts with dual right-turn lanes. Ideally, sidewalks and crosswalks are provided on all approaches to encourage walking as a primary travel mode and to enhance safety. In addition, an uncontrolled marked crosswalk is provided on Pua Lane on Kanoa Street to raise driver awareness and to guide pedestrians to a specific crossing point.

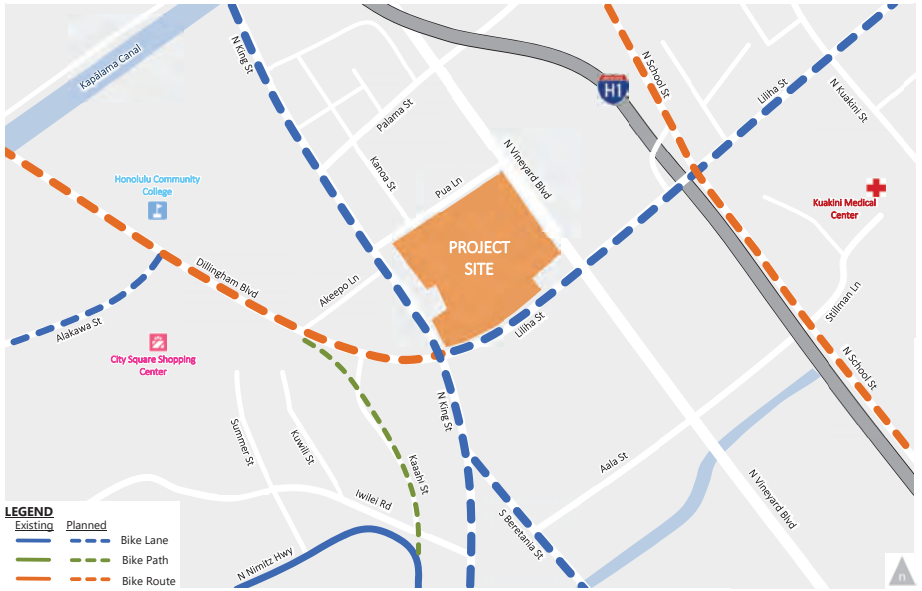

Figure 5
Existing and Planned Bicycle Facilities

3.2 EXISTING INTERSECTION VOLUMES AND LANE CONFIGURATIONS

The operations of the 14 existing study intersections were evaluated during weekday morning (6:00 to 8:00 AM) and evening (3:15 to 5:15 PM) peak-period conditions. Traffic counts were collected during the weekday AM and PM peak periods at the study intersections in August 2016, when local schools were in session. The weekday AM peak hour of traffic for the study area generally occurs between the hours of 7:00 AM and 8:00 AM. During the weekday afternoon/evening, the PM peak hour of traffic generally occurs between the hours of 3:45 PM and 4:45 PM.

Existing lane configurations and signal controls were obtained through field observations. **Figure 6** presents the existing AM and PM peak-hour turning movement volumes, corresponding lane configurations, and traffic control devices. Raw traffic count data sheets are provided in **Appendix A**.

3.3 FIELD OBSERVATIONS

Field observations were conducted to identify existing traffic operational deficiencies and to confirm the accuracy of calculated levels of service. The purpose of this effort was to (1) to identify any existing traffic problems that may not be directly related to intersection level of service and (2) to identify any locations where the level of service calculation does not accurately reflect level of service in the field. Field observations were conducted on midweek day in August 2016 during the same time day traffic counts were conducted.

Vehicle queues, pedestrian/bicycle activity, and bus operations were observed on Liliha Street, Dillingham Boulevard, Vineyard Boulevard, N King Street, Pua Lane, and Aala Street. During both AM and PM peak hours, the following traffic congestion was observed:

- Substantial vehicle delays occur at the N King Street/Dillingham Boulevard – Liliha Street, especially during the PM peak hour. The Liliha Street makai-bound approach includes a left-turn, a shared left/through, and a shared through/right lane. Currently, the signal phasing on Liliha Street-Dillingham Boulevard provides protected phasing for the makai-bound left-turn and through movements; consequently, when a left-turning vehicle is in the shared left/through lane and is waiting at red left-turn light, it blocks makai-bound through traffic in that lane and results in a queue buildup on Liliha Street. Similarly, the Diamond Head-bound approach on King Street has the same signal phasing as Liliha Street with a shared left/through lane that will block through movements when waiting for the green arrow and results in queue buildup on N King Street.

  Improvements to increase existing capacity at this location would likely require right-of-way acquisition, tree removal, signal modifications, and re-striping.
- Congestion and slow moving mauka-bound queues occur on Dillingham Boulevard-Liliha Street from Akeepo Lane to the H-1 Freeway ramps. As mentioned in the *Roadways* section, Dillingham Boulevard-Liliha Street provides regional access via the N King Street intersection and the H-1 Freeway, and therefore serves heavy vehicle volumes during the AM and PM peak periods. Furthermore, Liliha Street serves multiple bus routes with bus stops in between N King Street and Vineyard Boulevard, with no designated bus turnouts on Liliha Street. Consequently, when a bus is loading and unloading passengers at the stops, occasionally it blocks through traffic in the outside travel lane and impedes traffic flow on Liliha Street.

Frequent pedestrian activity was observed on the major study corridors (i.e. Liliha Street, Dillingham Boulevard, Vineyard Boulevard, and N King Street) during both peak hours. The study area is very dense with various land uses, such as schools, retail centers, residential units, industrial/office complexes, which is ideal from a walkability standpoint since a person can simply walk to their destination instead of drive because the distance is fairly close. The N King Street/Liliha Street/Dillingham Boulevard and the Liliha Street/Vineyard Boulevard intersections are located near major bus stops and retail centers, so both intersections serve relatively high pedestrian volumes during the peak commute hours. A pedestrian call was observed at each leg of the intersection during each signal cycle at both of these intersections.

Minimal bicycle activity on the study roadways was observed during the peak hours. Since no separate bicycle facilities are currently provided in the study area, the limited number of bicyclists traveling on the roadways was not unexpected. Most bicyclists were observed riding on the sidewalks on N King Street or Liliha Street as they likely perceive that it provides a safer ride compared to riding on these roadways with high vehicle volumes.

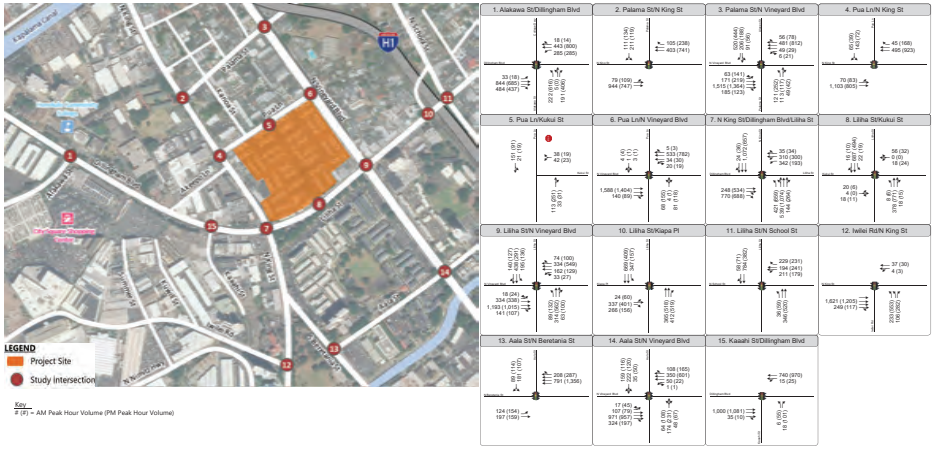

Figure 6
Peak Hour Traffic Volumes and Lane Configurations
Existing (2016) Conditions

3.4 EXISTING INTERSECTION LEVELS OF SERVICE

Existing peak-hour volumes and lane configurations were used to calculate levels of service for each of the study intersections. The results of the existing LOS analysis are presented in **Table 3** and the corresponding LOS calculation sheets are included in **Appendix B**.

TABLE 3: EXISTING (2016) INTERSECTION LEVELS OF SERVICE

Intersection	Traffic Control[1]	Peak Hour	Delay (sec/veh)[2]	LOS[3,4]
1. Dillingham Blvd / Alakawa St	Signal	AM	29.1	C
		PM	31.1	C
2. N King St / Palama St	Signal	AM	41.8	D
		PM	10.6	B
3. N Vineyard Blvd / Palama St	Signal	AM	43.5	D
		PM	37.5	D
4. N King St / Pua Ln	Signal	AM	10.8	B
		PM	5.0	A
5. Pua Ln/Kukui St/Future Mauka Project Dwy	SSSC	AM	12.2	B
		PM	11.8	B
6. N Vineyard Blvd / Pua Ln	Signal	AM	4.8	A
		PM	8.2	A
7. N King St / Dillingham Blvd/Liliha St	Signal	AM	51.9	D
		PM	**91.8**	**F**
8. Kukui St / Liliha St	Signal	AM	12.7	B
		PM	12.3	B
9. N Vineyard Blvd / Liliha St	Signal	AM	**99.2**	**F**
		PM	**81.8**	**F**
10. Kiapu Pl / Liliha St	Signal	AM	24.5	C
		PM	27.0	C
11. N School St / Liliha St	Signal	AM	25.8	C
		PM	21.2	C

TABLE 3: EXISTING (2016) INTERSECTION LEVELS OF SERVICE

Intersection	Traffic Control[1]	Peak Hour	Delay (sec/veh)[2]	LOS[3,4]
12. N King St / Iwilei Rd	Signal	AM	10.2	B
		PM	24.0	C
13. N Beretania St / Aala St	Signal	AM	13.1	B
		PM	13.3	B
14. N Vineyard Blvd / Aala St	Signal	AM	37.2	D
		PM	39.3	D
15. Dillingham Blvd / Kaaahi St*	Signal	AM	6.9	A
		PM	13.4	B

Source: Fehr & Peers, 2017.
Notes:
[1] SSSC = Side-street stop controlled
[2] Whole intersection weighted average stopped delay expressed in seconds per vehicle for signalized and all-way stop-controlled intersections. The vehicular delay for the worst movement is reported for side-street stop-controlled intersections.
[3] LOS calculations performed using the *Highway Capacity Manual (HCM) 2010* method. LOS for side street stop-controlled (SSSC) intersections is worst-case movement. Other uncontrolled movements generally operate well with limited delay.
[4] Undesired LOS and corresponding seconds of delay per vehicle are highlighted in **bold.**
* During the peak hours, mauka-bound queues on Dillingham Blvd will spillback from the N King St intersection through the Kaaahi St intersection. This occurs a few times throughout the peak hour and during this time, delays appear longer than the average peak hour delay reported in the table.

The results of the LOS calculations indicate that all study intersections operate at an overall desirable service level (LOS D or better), with the exception of the following two (2) intersections:

7. N King Street / Dillingham Boulevard/Liliha Street – LOS F (PM Peak Hour)
9. N Vineyard Boulevard / Liliha Street – LOS F (AM and PM peak hours)

The remaining 13 study intersections operate at a desirable LOS (D or better) at an overall intersection-level during both peak hours. However, it should be noted that some individual turning movements/approaches operate below LOS D even when the overall intersection is operating at a desirable LOS. Movements operating at LOS E or F during peak periods is not uncommon, especially on high volume, urban arterials and are only considered notable problems when they negatively impede other turning movement flows.

The majority of the poorly operating movements are left-turn movements. This is attributed to the existing signal timing allocating more green time to the through movements, which in most cases, will cause the left-turn movements to operate at LOS E or F in at least one of the peak hours. For left-turns

operating poorly at unsignalized intersections, this is primarily due to the high traffic volume on the major streets (e.g. Vineyard Boulevard, Liliha Street, N King Street) and limited number of gaps for vehicles at the stop-controlled movement to make left-turns.

4.0 PROJECT TRAFFIC PROJECTIONS

This chapter describes the anticipated number of vehicle trips and directionality of those trips that would result from implementation of the proposed project. Future traffic added to the roadway system by the project is estimated using a three-step process: (1) project trip generation, (2) trip distribution, and (3) trip assignment. The first step estimates the amount of project-generated traffic will be added to the roadway network. The second step estimates the direction of travel to and from the project site. The new trips are assigned to specific street segments and intersection turning movements during the third step. This analysis analyzed the following two project scenarios:

- Partial Buildout under Near Term (2022) Conditions
- Full Buildout under Long-Term (2028) Conditions

This process is described in more detail in the following sections.

4.1 PROJECT TRIP GENERATION ESTIMATES

The project's trip estimates were based on four (4) sources of data:

- Existing peak hour driveway counts
- Trip Generation 9th Edition
- MainStreet (Fehr & Peers' MXD+ web app)
- Existing commute survey

The proposed new residential and retail uses would generate traffic that would replace the traffic currently generated by the existing Mayor Wright residences. Vehicle trips are estimated based on standard rates published in the *Trip Generation* (9th Edition, 2012) by the Institute of Transportation Engineers (ITE), including adjustments to account for internal vehicle trips and non-motorized trips given the mix of land use proposed and the location of the project relative to other facilities.

The combined effects of the project's land use, location, and development scale would contribute to a reduction in off-site average weekday vehicle trips. This reduction is attributed primarily to the project's proximity to existing transit services or walking distances to complimentary land uses, as well as the interaction between the residential units and retail uses.

The anticipated internalization of trips generated by complementary uses within the project site was estimated using MainStreet, a web application developed by Fehr & Peers that uses the Mixed-Use (MXD+) Trip Generation Model. This MXD+ model was developed by Fehr & Peers and the Environmental Protection Agency (EPA) and is based on statistically superior data compared to the methodology used by

ITE. The model recognizes that traffic generation by mixed-use and other forms of sustainable development relate closely to the density, diversity, design, destination accessibility, travel proximity, and scale of development. The model estimates the percentage of daily and peak hour trips that remain to the project site, as well as external transit, walk and vehicle mode splits.

In addition, the vehicle trip generation was further reduced to account for the proximity of the future Iwilei rail transit station, and for trips that would be made by bicycling and walking to and from the station. Studies have shown that transit stations have the greatest effect within a ¼-mile radius, and that people are willing to walk up to ½-mile to a station. The City and County's TOD policy incorporates a ¼-mile radius for planning purposes, and the flat terrain, well maintained pedestrian infrastructure, and excellent weather conditions in the study area will make the transit line an option for numerous residents and retail shoppers. Transit trip reductions are typically greater for residential units in proximity to rail stations as compared to employment and other non-residential uses. Previous TOD research has shown relatively high vehicle reductions from ITE rates in other areas such as Portland, Philadelphia, the San Francisco Bay Area, and Washington D.C. According to the *Journal of Public Transportation* (Volume 1, No. 3, 2008), vehicle reductions at TOD sites can range from 25% to 60%.

According to the *Kalihi Transit-Oriented Development Plan* (2014), approximately 28% of the residents in Kalihi currently take transit as their form of transportation for their work commute. While the future rail station would increase the transit ridership in the area, it is not expected to substantially increase from existing as majority of the new rail riders would be patrons who previously took a different form of transit (e.g. bus) and would shift to rail for their commute. We conservatively estimated the following transit reductions for the analysis:

Partial Buildout – Near Term Conditions (this scenario does not assume rail as it represents Year 2022 and rail is anticipated to open in Year 2025 or later)

- 25% for residential – while the existing transit ridership is approximately 28 percent, the ITE trip rates that were used to calculate the vehicle trips for the residential uses already account for some level of transit ridership in the rates. Therefore, to avoid double counting, the existing transit ridership was decreased slightly and the resulting reduction was applied to the vehicle trip estimates.
- 10% for retail

Full Buildout – Long-Term (2028) Conditions (this scenario assumes rail transit is operational)

- 30% for residential (2% increase over existing)
- 15% for retail

The last set of reductions applied to project trips was for pass-by retail trips. Pass-by trips are made by those vehicles already passing by the site on Liliha Street (where the existing driveway is), and those vehicles

would simply turn into and out of the site during a trip that is already being made. In this case, pass-by trips are not new trips generated by the site or new to the roadway network, but still comprise a portion of site-generated traffic at its driveways. A 25 percent pass-by reduction was applied to the retail uses. This reduction was obtained from the *ITE Trip Generation Manual* and is a standard approach for retail uses.

Lastly, since the project site currently serves trips traveling to and from the existing Mayor Wright development, the existing trips were credited towards the project's net vehicle trip generation as those trips are already traveling on the network and are not considered new trips. We used the existing peak hour driveway counts to calculate the existing site's peak hour trip generation.

Table 4 and **Table 5** displays the project's trip generation estimate for Partial Buildout and Full Buildout conditions, respectively. For Partial Buildout, the project is estimated to generate approximately 5,065 net new daily vehicle trips, 235 net new AM peak hour trips (31 inbound/204 outbound), and 502 net new PM peak hour trips (310 inbound/192 outbound). For Full Buildout, the project is estimated to generate approximately 10,085 new daily vehicle trips, 578 net new AM peak hour trips (111 inbound/467 outbound), and net new 959 PM peak hour trips (590 inbound/369 outbound). The MXD (i.e. internalization and walking/biking trips) and future transit reductions is approximately 50 percent, which accounts for the mixed-use nature of the land use where vehicle trips would be linked (e.g. residential-retail interplay), and/or replaced with walk, bike, and transit trips to nearby land uses.

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TABLE 4: PROJECT TRIP GENERATION ESTIMATES – PARTIAL BUILDOUT

Land Use	Units	Daily	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
PROPOSED USES (A)								
Apartments	1,250 du	7,699	123	493	616	458	247	705
Retail	40 ksf	3,743	55	34	89	156	169	324
Gross Total		11,442	179	527	705	614	415	1,029
Internalization[3]		*-572*	*-9*	*-26*	*-35*	*-30*	*-21*	*-51*
Net External Vehicle Trips (Post Internalization)		10,870	170	501	670	584	394	978
Non-Auto Reductions	*Walking/Bicycling Trips (10%)*[3]	*-1,087*	*-17*	*-50*	*-67*	*-58*	*-40*	*-98*
Non-Auto Reductions	*Transit Trips*[4] *Residential (25%)*	*-1,828*	*-29*	*-117*	*-146*	*-109*	*-59*	*-168*
Non-Auto Reductions	*Transit Trips*[4] *Retail (15%)*	*-356*	*-5*	*-3*	*-8*	*-15*	*-16*	*-31*
Net External Vehicle Trips (Post Internalization & Non-Auto Reductions)		7,599	119	331	449	402	279	681
Retail Pass-By (25%)[5]		*-622*	*-9*	*-5*	*-14*	*-26*	*-28*	*-54*
Net New Vehicle Trips (A)		*6,977*	*110*	*326*	*435*	*376*	*251*	*627*
EXISTING USES (B)								
Apartments[6]	364 du *(B)*	*-1,912*	*-78*	*-122*	*-200*	*-66*	*-59*	*-125*
PROPOSED PROJECT NET NEW VEHICLE TRIPS								
NET NEW VEHICLE TRIPS (A-B)		**5,065**	**31**	**204**	**235**	**310**	**192**	**502**

Source: Fehr & Peers, 2017
Notes:
[1] DU = Dwelling Unit; ksf = 1,000 square feet
[2] Apartment uses Apartment Best Fit equation
Daily: T = 6.06(X) + 123.56; AM: T = 0.49(X) + 3.73; PM: T = 0.55(X) + 17.65
Retail uses Shopping Center Best Fit Equation
Daily: Ln(T) = 0.65Ln(X)+5.83; AM: Ln(T) = 0.61Ln(X) + 2.24
[3] The MXD model (MXD+) was used to obtain these non-auto (walking/bicycling)-oriented and internalization trip reduction percentages. This percentage was further refined based on the existing walking/biking percentage from the Kalihi Community Survey.
[4] Transit trip reduction applied to account for close proximity to future Iwilei rail station. This reduction is based on the MXD model and the existing transit ridership from the Kalihi Community Survey.
[5] Retail pass-by reduction from the *ITE Trip Generation Manual*.
[6] Existing trip rates based on peak hour driveway counts at the two existing project driveways: Pua Lane/Kukui St and Liliha St/Kukui St.

TABLE 5: PROJECT TRIP GENERATION ESTIMATES – FULL BUILDOUT

Land Use	Units	Daily	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
PROPOSED USES (A)								
Apartments	2,500 du	15,274	246	983	1,229	905	488	1,393
Retail	80 ksf	5,874	84	52	136	248	268	516
Gross Total		21,148	330	1,035	1,365	1,153	756	1,909
Internalization[3]		*-1,057*	*-16*	*-52*	*-68*	*-57*	*-38*	*-95*
Net External Vehicle Trips (Post Internalization)		20,091	314	983	1,297	1,096	718	1,814
Non-Auto Reductions	*Walking/Bicycle Trips (10%)*[3]	*-2,009*	*-31*	*-99*	*-130*	*-109*	*-72*	*-181*
Non-Auto Reductions	*Transit Trips*[4] *Residential (30%)*	*-4,353*	*-70*	*-280*	*-350*	*-258*	*-139*	*-397*
Non-Auto Reductions	*Transit Trips*[4] *Retail (15%)*	*-837*	*-12*	*-7*	*-19*	*-36*	*-38*	*-74*
Net External Vehicle Trips (Post Internalization & Non-Auto Reductions)		12,892	201	597	798	693	469	1,162
Retail Pass-By (25%)[5]		*-895*	*-12*	*-8*	*-20*	*-37*	*-41*	*-78*
Net New Vehicle Trips (A)		*11,997*	*189*	*589*	*778*	*656*	*428*	*1,084*
EXISTING USES (B)								
Apartments[6]	364 du *(B)*	*-1,912*	*-78*	*-122*	*-200*	*-66*	*-59*	*-125*
PROPOSED PROJECT NET NEW VEHICLE TRIPS								
NET NEW VEHICLE TRIPS (A-B)		**10,085**	**111**	**467**	**578**	**590**	**369**	**959**

Source: Fehr & Peers, 2017
Notes:
[1] DU = Dwelling Unit; ksf = 1,000 square feet
[2] Apartment uses Apartment Best Fit equation
Daily: T = 6.06(X) + 123.56; AM: T = 0.49(X) + 3.73; PM: T = 0.55(X) + 17.65
Retail uses Shopping Center Best Fit Equation
Daily: Ln(T) = 0.65Ln(X)+5.83; AM: Ln(T) = 0.61Ln(X) + 2.24
[3] The MXD model (MXD+) was used to obtain these non-auto (walking/bicycling)-oriented and internalization trip reduction percentages. This percentage was further refined based on the existing walking/biking percentage from the Kalihi Community Survey.
[4] Transit trip reduction applied to account for close proximity to future Iwilei rail station. This reduction is based on the MXD model and the existing transit ridership from the Kalihi Community Survey.
[5] Retail pass-by reduction from the *ITE Trip Generation Manual.*
[6] Existing trip rates based on peak hour driveway counts at the two existing project driveways: Pua Lane/Kukui St and Liliha St/Kukui St.

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4.2 PROJECT TRIP DISTRIBUTION

An initial trip distribution estimate was based on a "select zone" analysis using the O`ahuMPO Regional Travel Demand Forecasting Model (TDFM). This process identifies the number of trips on each roadway segment included in the model that is generated by the single traffic analysis zone (TAZ) representing the project area. The distribution was further refined and adjusted based on:

- Existing traffic volumes
- Level of accessibility of route to and from the project site
- Location of complementary land uses (retail centers and schools from which residents would be drawn)
- Locations of other similar land uses

Based on these factors, the vehicle trip distribution of the project-generated traffic under Near Term (2022) Conditions and Long-Term (2028) Conditions is estimated to be:

Residential Trip Distribution

- 8% to/from South along Dillingham Boulevard
- 2% to/from East along Alakawa Street
- 2% to/from the City Square Shopping Center along Dillingham Boulevard
- 9% to/from the West along N King Street
- 17% to/from the West along H-1
- 7% to/from the West along Alaneo Sreet
- 12% to/from the East along Vineyard Boulevard
- 10% to/from the East (to/from Town) along H-1
- 5% to/from the North along Liliha Street
- 1% to/from the West along N School Street
- 3% to/from the South along Iwilei Road
- 24% to/from the East (to/from Town) along N King Street/N Beretania Street

Retail Trip Distribution

- 9% to/from South along Dillingham Boulevard
- 1% to/from East along Alakawa Street
- 10% to/from the West along N King Street
- 15% to/from the West along H-1
- 5% to/from the West along Alaneo Sreet
- 10% to/from the East along Vineyard Boulevard
- 10% to/from the East (to/from Town) along H-1
- 20% to/from the North along Liliha Street
- 5% to/from the West along N School Street
- 15% to/from the East (to/from Town) along N King Street/N Beretania Street

Figure 7 illustrates the project trip distribution pattern described above.

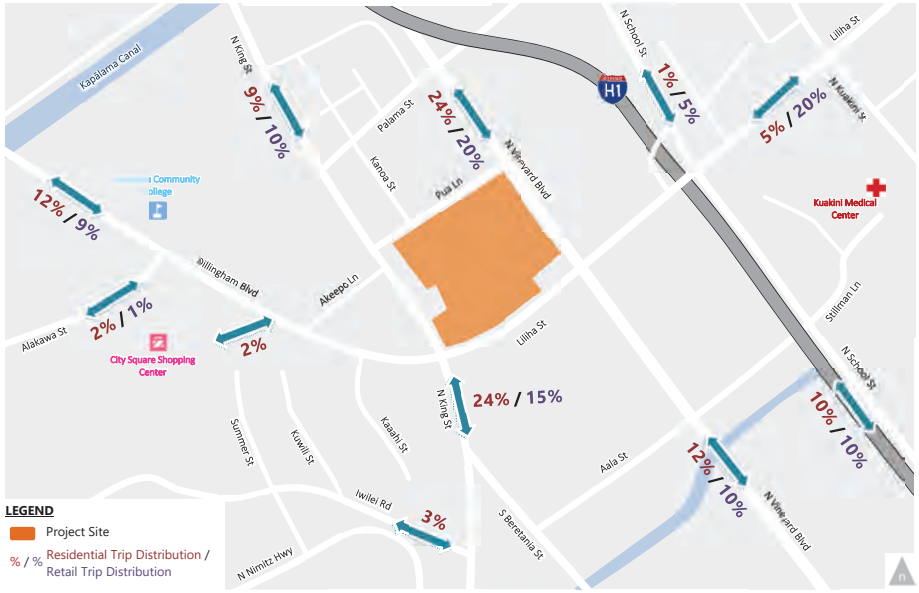

Figure 7
Project Trip Distribution

4.3 PROPOSED PROJECT ROADWAY MODIFICATIONS

The proposed project plans to construct the following driveways to provide access to the project site and to better distribute vehicle trips to the adjacent network:

- Liliha Street/Kukui Street Full Access Driveway – existing signalized driveway
- Vineyard Boulevard/Project Driveway Right-in-right-out – new side-street-stop-controlled driveway
- Pua Lane/Mauka Project Driveway – new side-street-stop-controlled driveway
- Pua Lane/Kanoa Street/Makai Project Driveway – new side-street-stop-controlled driveway

The site plan also shows an access on the makai side of the site on N King Street. This access would be pedestrian and bicycle access only. Further explanation on why this driveway does not allow vehicle access is described in Section 10.1 of this report.

All project driveways were assumed to be open during both the Near Term (2022) and Long-Term (2028) Conditions.

4.4 PROJECT TRIP ASSIGNMENT

Using the estimated trip generation, the distribution patterns, and the proposed roadway modifications discussed previously, the traffic generated by the proposed project under Near Term (2022) and Long-Term (2028) Baseline Conditions was assigned to the study intersections based on the characteristics of the streets within the study area, anticipated congestion, and directness of route. **Figure 8 and 9** shows the assignment of trips generated by the project for Partial Buildout and Full Buildout, respectively.

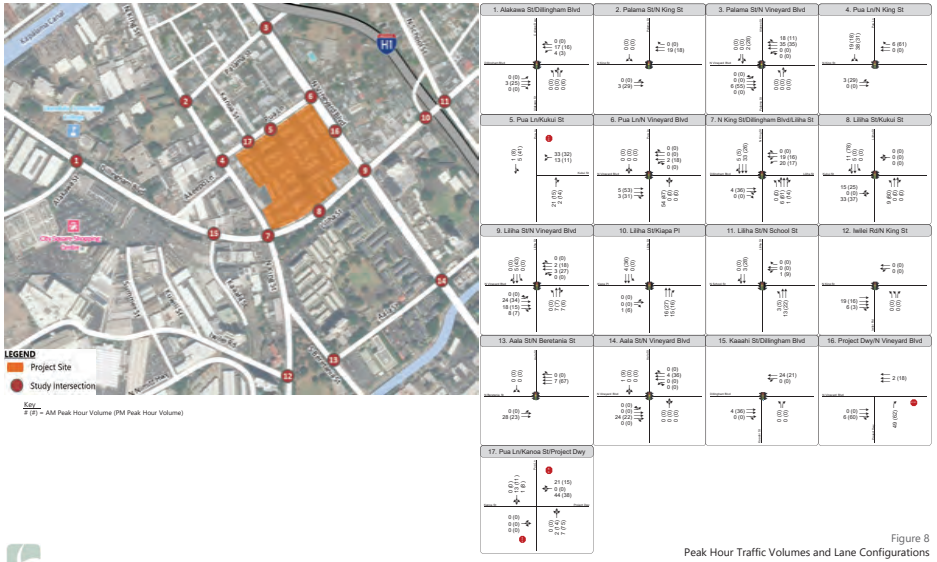

Figure 8
Peak Hour Traffic Volumes and Lane Configurations
Partial Buildout Project Trips

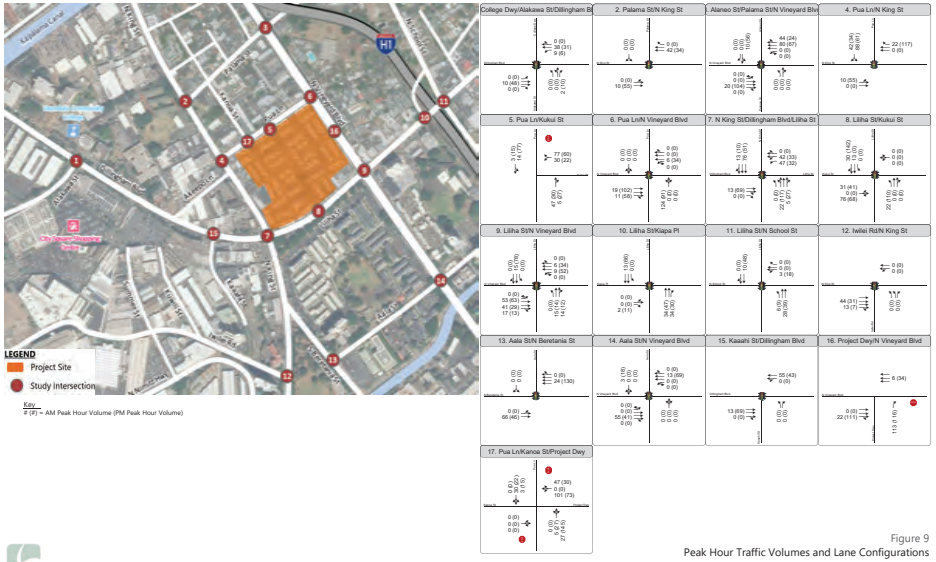

Figure 9
Peak Hour Traffic Volumes and Lane Configurations
Buildout Project Trips

5.0 NEAR TERM (2022) BASELINE CONDITIONS

To evaluate the potential impacts of traffic generated by the proposed project on the surrounding street system, it was necessary to first develop estimates of future traffic conditions in the area without the project. Future traffic conditions without the project reflect traffic increases due to regional growth and development. These conditions are referred to as the baseline condition (i.e., "no project" condition). The forecasted future or cumulative baseline traffic volumes were then used to identify impacts on the roadway system. Development of these future traffic scenarios is described in this chapter.

5.1 NEAR TERM (2022) TRAFFIC ESTIMATES

The following section summarizes the growth assumptions used to estimate the amount of traffic that would be adding to existing intersection volumes to develop volume estimates for Near Term (2022) Conditions.

5.1.1 AREAWIDE OR AMBIENT TRAFFIC GROWTH

A growth factor was individually applied to the traffic of each intersection's approach to account for future regional growth. This scenario would not include the future rail in place as the opening year for the rail is anticipated for Year 2025 or later. Therefore, historic HDOT traffic counts of the roadway system in the study area from 2013, 2014, and 2015 were compared to identify the amount of growth for this area in the near term. However, the review of these volumes did not reveal a clear trend in the roadway system's growth as some of the annual fluctuations in volumes were negative from one year to the next , positive during subsequent years, then negative again up to the latest year, 2016. Accordingly, 0.5 percent annual growth factor was applied to the existing intersection traffic volumes collected in August 2016 to assume some level of regional growth and to provide a more conservative analysis. This growth rate is considered reasonable given the urban and dense nature of the adjacent areas and the builtout nature of the surrounding neighborhoods. This growth rate was compounded over the six-year timeframe (2016 to 2022) when partial development of the proposed project is anticipated.

5.1.2 APPROVED PROJECTS

Future base traffic forecasts also include the effects of specific approved, planned, and/or proposed developments, expected to be constructed within the project's six-year development timeframe of partial development and expected to add traffic near the project site. One cumulative project was identified in the greater study area and that future development was subsequently added to the cumulative base traffic projections for 2022.

The Liliha Civic Center is a Department of Accounting and General Services (DAGS) project that plans to consolidate the state services into one location on Kaaahi Street ewa of Iwilei Road. The site is generally bound by Kaaahi Street on the makai side, N King Street on the mauka side, Iwilei Road on the ewa side, and existing buildings on the Diamond Head side. According to the "GCA Membership Meeting" presentation by DAGS, dated August 18, 2015, the Liliha Civic Center project will comprise affordable rental housing units and a building with a maximum of 300,000 square feet of developed space. The affordable housing units have already been constructed as the Iwilei Senior Residence project, but the proposed civic center building is still being planned. The proposed civic center is planned to be a mixed-use development that could include, but not limited to, office space and housing. Given that the details of the proposed civic center was unknown during the time of this study, an assumption of 300,000 square feet of office space was used to generate the largest amount of vehicle trips and provide a more conservative analysis.

The proposed Liliha Civic Center is estimated to generate approximately a total of 2,118 daily vehicle trips, 323 AM peak hour vehicle trips (284 inbound; 39 outbound), and 290 PM peak hour vehicle trips (49 inbound, 241 outbound). To provide a more conservative analysis, no reduction was taken for existing uses on this site. However, a trip reduction for transit of 30% was applied assuming that bus (and shortly rail in 2025) will provide a convenient mode to access the site. The Liliha Civic Center trips were then assigned to the roadway network and added to the ambient 2022 background volume.

5.1.3 NEAR TERM (2022) BASELINE STREET SYSTEM IMPROVEMENTS

Based on a review of public documents, including O`ahu's *Transportation Improvement Program for Fiscal Years 2015-2018* and the *O`ahu Regional Transportation Plan 2040*, no substantive roadway improvements or transportation system changes are projected to occur through 2022 in the immediate vicinity of the project site and more specifically at the study intersections. Therefore, the Near Term Baseline traffic network is assumed to remain the same as Existing Conditions. **Figure 10** shows the traffic volumes and lane configurations under Near Term (Year 2022) Baseline Conditions

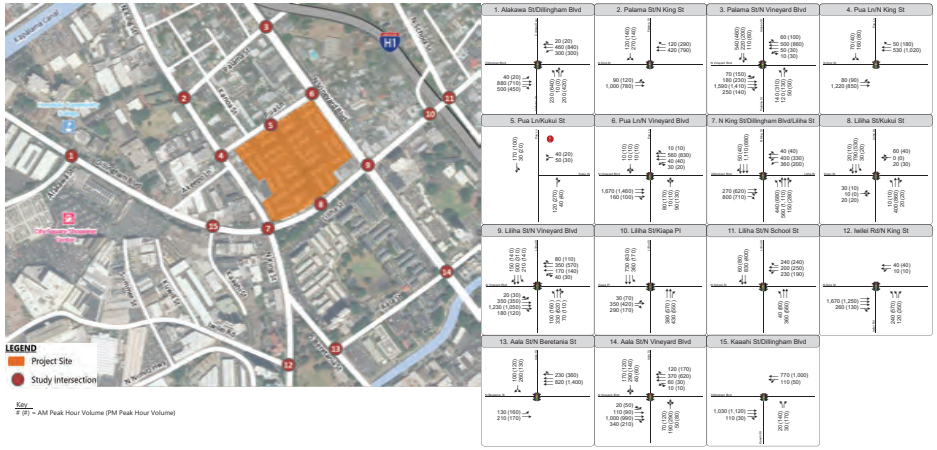

Figure 10
Peak Hour Traffic Volumes and Lane Configurations
Year 2022 Baseline Conditions

5.2 NEAR TERM (2022) BASELINE LEVELS OF SERVICE

Levels of service calculations were conducted to evaluate the operating levels of the study intersections under Near Term (2022) Baseline Conditions based on the projected growth in traffic and the anticipated roadway improvements. The results of the LOS analysis for the study intersections under Near Term (2022) Baseline Conditions are presented in **Table 6.** The corresponding LOS Calculation sheets are included in **Appendix C**

TABLE 6: NEAR TERM (2022) BASELINEINTERSECTION LEVELS OF SERVICE

Intersection	Traffic Control[1]	Peak Hour	Delay (sec/veh)[2]	LOS[3,4]
1. Dillingham Blvd / Alakawa St	Signal	AM	28.8	C
		PM	30.4	C
2. N King St / Palama St	Signal	AM	44.8	D
		PM	10.9	B
3. N Vineyard Blvd / Palama St	Signal	AM	45.1	D
		PM	45.9	D
4. N King St / Pua Ln	Signal	AM	11	B
		PM	4.8	A
5. Pua Ln/Kukui St/Mauka Project Dwy	SSSC	AM	12.8	B
		PM	12.4	B
6. N Vineyard Blvd / Pua Ln	Signal	AM	5.4	A
		PM	9.4	A
7. N King St / Dillingham Blvd/Liliha St	Signal	AM	48.2	D
		PM	**82.1**	**F**
8. Kukui St / Liliha St	Signal	AM	12.7	B
		PM	12.3	B
9. N Vineyard Blvd / Liliha St	Signal	AM	**95.5**	**F**
		PM	**78.3**	**E**
10. Kiapu Pl / Liliha St	Signal	AM	23.6	C
		PM	26.8	C

TABLE 6: NEAR TERM (2022) BASELINEINTERSECTION LEVELS OF SERVICE

Intersection	Traffic Control[1]	Peak Hour	Delay (sec/veh)[2]	LOS[3,4]
11. N School St / Liliha St	Signal	AM	25.2	C
		PM	20.6	C
12. N King St / Iwilei Rd	Signal	AM	9.8	A
		PM	26.1	C
13. N Beretania St / Aala St	Signal	AM	25.5	C
		PM	29.5	C
14. N Vineyard Blvd / Aala St	Signal	AM	51.8	D
		PM	**60.6**	**E**
15. Dillingham Blvd / Kaaahi St*	Signal	AM	16.6	B
		PM	25.6	C

Source: Fehr & Peers, 2017.
Notes:
[1] SSSC = Side-street stop controlled
[2] Whole intersection weighted average stopped delay expressed in seconds per vehicle for signalized and all-way stop-controlled intersections. The vehicular delay for the worst movement is reported for side-street stop-controlled intersections.
[3] LOS calculations performed using the *Highway Capacity Manual (HCM) 2010* method. LOS for side street stop-controlled (SSSC) intersections is worst-case movement. Other uncontrolled movements generally operate well with limited delay.
[4] Undesired LOS and corresponding seconds of delay per vehicle are highlighted in **bold.**
* During the peak hours, mauka-bound queues on Dillingham Blvd will spillback from the N King St intersection through the Kaaahi St intersection. This occurs a few times throughout the peak hour and during this time, delays appear longer than the average peak hour delay reported in the table.

The analysis results indicate that 12 study intersections are forecasted to operate at LOS D or better under Near Term (2022) Baseline Conditions. The remaining three (3) study intersections are expected to operate at undesirable LOS E or F for at least one peak hour and include:

7. N King Street / Dillingham Boulevard/Liliha Street – LOS F (PM peak hour)
9. N Vineyard Boulevard / Liliha Street – LOS F and LOS E (AM and PM peak hours, respectively)
14. N Vineyard Boulevard / Aala Street – LOS E (PM peak hour)

As noted previously, some individual turning movements/approaches operate below LOS D even though the overall intersection is operating at a desirable LOS. The majority of the poorly operating movements are left-turn movements. This is attributed by the signal timing allocating more green time to the through movements, which in most cases, will cause the left-turn movements to operate at LOS E or F in at least one of the peak hours.

6.0 NEAR TERM (2022) PLUS PARTIAL BUILDOUT CONDITIONS

This chapter summarizes and presents an analysis of the potential impacts on the roadway system due to projected increases in traffic, including traffic generated by half of the buildout of the project in 2022. The Near Term (2020) Plus Partial Buildout Conditions roadway network is the same network assumed under the baseline scenario, except for the addition of the site driveways that was discussed in Chapter 5. The analysis compares the projected levels of service at each study intersection under future baseline (or "No Project") conditions against the "Plus Partial Buildout" scenario to determine potential Near Term impacts.

6.1 NEAR TERM (2022) PLUS PARTIAL BUILDOUT INTERSECTION LEVEL OF SERVICE

This section presents an analysis of potential future traffic conditions projected for Near Term (2022) Plus Project Conditions. To forecast the peak hour operating conditions at each study intersection, the project trip assignment for Partial Buildout Conditions were superimposed on Near Term (2022) Baseline traffic volumes to yield Near Term (2022) Plus Partial Buildout volumes. **Figure 11** presents the anticipated lane configurations and projected Near Term (2022) Plus Partial Buildout AM and PM peak hour volumes.

Table 7 presents the intersection operating conditions and traffic impacts under the three Near Term (2022) Plus Partial Buildout Conditions scenarios and compares the projected levels of service at each study intersection under Near Term (2022) Plus Partial Buildout Conditions. The corresponding LOS Calculation sheets are included in **Appendix C.**

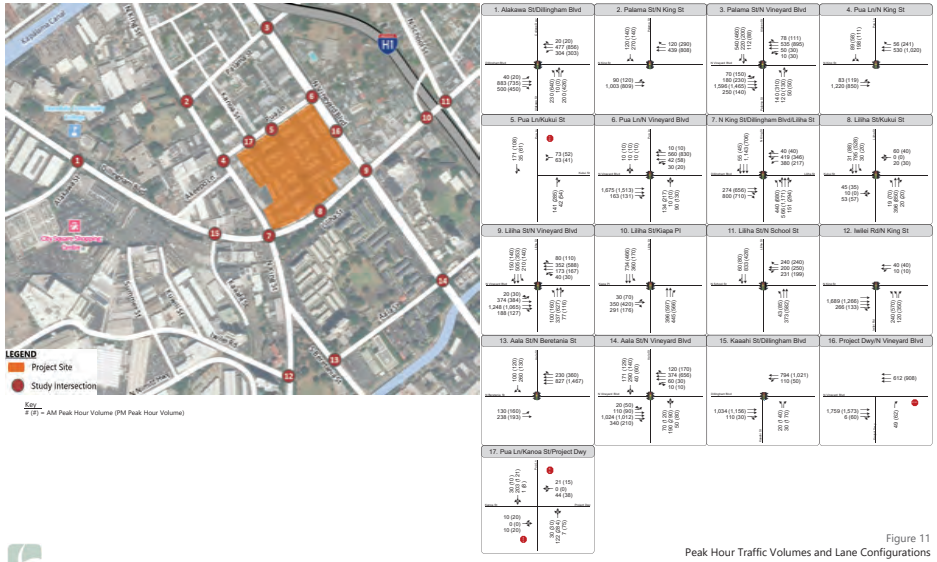

Figure 11
Peak Hour Traffic Volumes and Lane Configurations
Year 2022 Plus Partial Buildout Conditions

TABLE 7: NEAR TERM (2022) PLUS PARTIAL BUILDOUT INTERSECTION LEVELS OF SERVICE

Intersection	Traffic Control[1]	Peak Hour	Near Term Baseline		Near Term Plus Partial Buildout		Delay Change[5] (sec/veh)
			Delay (sec/veh)[2]	LOS[3,4]	Delay (sec/veh)[2]	LOS[3,4]	
1. Dillingham Blvd / Alakawa St	Signal	AM	28.8	C	30.6	C	1.8
		PM	30.4	C	30.5	C	0.1
2. N King St / Palama St	Signal	AM	44.8	D	52.1	D	7.3
		PM	10.9	B	10.3	B	-0.6
3. N Vineyard Blvd / Palama St	Signal	AM	45.1	D	47.3	D	2.2
		PM	45.9	D	49	D	3.1
4. N King St / Pua Ln	Signal	AM	11	B	15.1	B	4.1
		PM	4.8	A	6.2	A	1.4
5. Pua Ln/Kukui St/Mauka Project Dwy	SSSC	AM	12.8	B	14.0	B	1.2
		PM	12.4	B	14.2	B	1.8
6. N Vineyard Blvd / Pua Ln	Signal	AM	5.4	A	13.7	B	8.3
		PM	9.4	A	12.5	B	3.1
7. N King St / Dillingham Blvd/Liliha St	Signal	AM	48.2	D	**58.3**	**E**	**10.1**
		PM	**82.1**	**F**	**86.6**	**F**	**4.5**
8. Kukui St / Liliha St	Signal	AM	12.7	B	15.3	B	2.6
		PM	12.3	B	15.4	B	3.1
9. N Vineyard Blvd / Liliha St	Signal	AM	**95.5**	**F**	**114.5**	**F**	**19.0**
		PM	**78.3**	**E**	**88.3**	**F**	**10.0**
10. Kiapu Pl / Liliha St	Signal	AM	23.6	C	25.6	C	2.0
		PM	26.8	C	26.7	C	-0.1
11. N School St / Liliha St	Signal	AM	25.2	C	26.8	C	1.6
		PM	20.6	C	20.9	C	0.3
12. N King St / Iwilei Rd	Signal	AM	9.8	A	10.6	B	0.8
		PM	26.1	C	26.0	C	-0.1
13. N Beretania St / Aala St	Signal	AM	25.5	C	32.1	C	6.6

TABLE 7: NEAR TERM (2022) PLUS PARTIAL BUILDOUT INTERSECTION LEVELS OF SERVICE

Intersection	Traffic Control[1]	Peak Hour	Near Term Baseline		Near Term Plus Partial Buildout		Delay Change[5] (sec/veh)
			Delay (sec/veh)[2]	LOS[3,4]	Delay (sec/veh)[2]	LOS[3,4]	
		PM	29.5	C	29.6	C	0.1
14. N Vineyard Blvd / Aala St	Signal	AM	51.8	D	54.2	D	2.4
		PM	**60.6**	**E**	**62.1**	**E**	**1.5**
15. Dillingham Blvd / Kaaahi Street	Signal	AM	16.6	B	26.5	C	9.9
		PM	25.6	C	29.6	C	4.0
16. N Vineyard Blvd / Project Dwy	SSSC	AM	Intersection does not exist in this scenario		25.0	C	N/A
		PM			23.7	C	N/A
17. Pua Ln / Makai Project Dwy	SSSC	AM	Intersection does not exist in this scenario		11.9	B	N/A
		PM			14.0	B	N/A

Source: Fehr & Peers, 2017.

Notes:

[1] SSSC = Side-street stop controlled

[2] Whole intersection weighted average stopped delay expressed in seconds per vehicle for signalized and all-way stop-controlled intersections. The vehicular delay for the worst movement is reported for side-street stop-controlled intersections.

[3] LOS calculations performed using the *Highway Capacity Manual (HCM) 2010* method. LOS for side street stop-controlled (SSSC) intersections is worst-case movement. Other uncontrolled movements generally operate well with limited delay.

[4] Undesired LOS and corresponding seconds of delay per vehicle are highlighted in **bold.** Project impacts highlighted **gray and bold**.

[5] Change in delay from Plus Partial Buildout to Baseline conditions. N/A indicates that the intersection does not exist under Baseline Conditions.

According to the results in **Table 7,** the addition of Partial Buildout trips would cause a total of three (3) significant impacts to study intersections. Under this scenario, the Partial Buildout project would contribute to cumulative impacts (i.e. exacerbating baseline LOS E or F operations) during one or both peak hours at the following three (3) study intersections:

7. N King Street / Dillingham Boulevard/Liliha Street – LOS E and F (AM and PM peak hours, respectively)
9. N Vineyard Boulevard / Liliha Street – LOS F (AM and PM peak hours)
14. N Vineyard Boulevard / Aala Street – LOS E (PM peak hour)

All project driveways are anticipated to operate at desirable levels under Near Term (2022) Plus Partial Buildout Conditions.

7.0 LONG-TERM (2028) BASELINE CONDITIONS

This chapter summarizes and presents the results of the operations analysis under Long-Term (2028) Conditions without the project's Full Buildout travel demand characteristics.

7.1 LONG-TERM (2028) TRAFFIC ESTIMATES

The following section summarizes the growth assumptions used to estimate the amount of traffic that would be adding to existing intersection volumes to develop volume estimates for Long-Term (2028) Conditions.

7.1.1 AREAWIDE OR AMBIENT TRAFFIC GROWTH

Similar to the Near Term (2022) baseline forecasts, a growth factor was individually applied to the traffic of each intersections approach to account for future regional growth. Since this scenario would include the future rail in operation, the *Honolulu High-Capacity Transit Corridor Project (HHCTP), Final Environmental Impact Statement* (June 2010) was reviewed to calculate the traffic forecasts. According to that study and other transportation studies in the study area, the traffic volumes on major roadways are anticipated to increase approximately 0.5 percent per year when the future rail is in full operation. This growth rate is considered reasonable given the urban and dense nature of the adjacent areas and surrounding neighborhoods. Additionally, while the future rail is expected to address future transportation demand and capacity needs, it is not expected to significantly reduce traffic volumes on major roadways near the rail line as the extra capacity on the roadway would be backfilled with the increase of traffic generated by planned developments around the region. Therefore, a 0.5 percent growth factor was applied to the existing traffic volumes collected in August 2016. The growth rate was compounded over a 12-year timeframe (2016 to 2028) during full buildout of the proposed project.

7.1.2 APPROVED PROJECTS

Similar to the Near Term (2022) Baseline traffic forecasts, only one cumulative project, the Liliha Civic Center project, was identified in the immediate study area by year 2028, and that future development was subsequently added to the cumulative base traffic projections for 2028.

The proposed Liliha Civic Center is estimated to generate approximately a total 2,118 daily vehicle trips, 323 AM peak hour vehicle trips (284 inbound; 39 outbound), and 290 PM peak hour vehicle trips (49 inbound, 241 outbound). The Liliha Civic Center trips were then assigned to the roadway network and added to the ambient 2028 background volume.

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7.1.3 LONG-TERM (2028) BASELINE STREET SYSTEM IMPROVEMENTS

Based on a review of public documents, including O`ahu's *Transportation Improvement Program for Fiscal Years 2015-2018* and the *O`ahu Regional Transportation Plan 2040*, there are no anticipated roadway improvements or transportation system changes that are projected to occur between 2016 and 2028 in the immediate vicinity of the project site and more specifically at the study intersections. Therefore, the Long-Term (2028) Baseline traffic network is assumed to remain the same as Existing Conditions.

Figure 12 shows the traffic volumes and lane configurations under Long-Term (2028) Baseline Conditions

7.2 LONG-TERM (2028) BASELINE LEVELS OF SERVICE

Levels of service calculations were conducted to evaluate the operating levels of the study intersections under Long-Term (2028) Baseline Conditions based on the projected growth in traffic and the anticipated roadway improvements. The results of the LOS analysis for the study intersections under Long-Term (2028) Baseline Conditions are presented in **Table 8.** The corresponding LOS Calculation sheets are included in **Appendix C.**

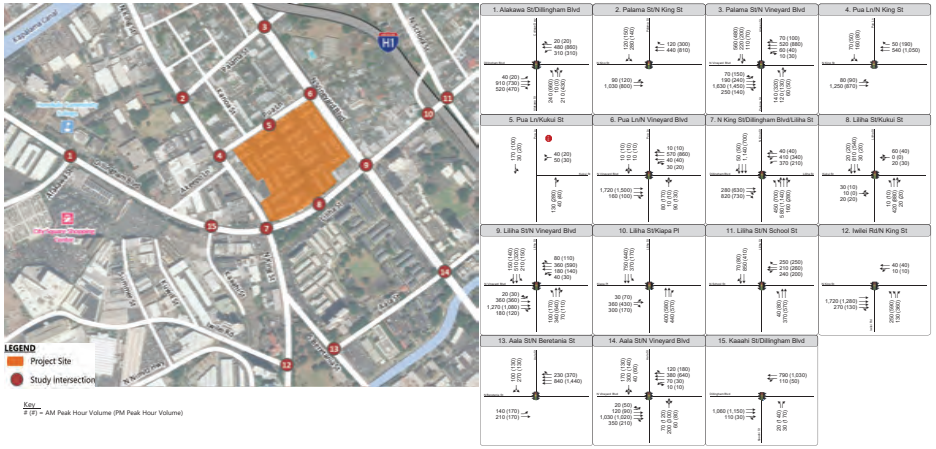

Figure 12
Peak Hour Traffic Volumes and Lane Configurations
Long-Term (2028) Baseline Conditions

TABLE 8: LONG-TERM (2028) BASELINEINTERSECTION LEVELS OF SERVICE

Intersection	Traffic Control[1]	Peak Hour	Delay (sec/veh)[2]	LOS[3,4]
1. Dillingham Blvd / Alakawa St	Signal	AM	31.3	C
		PM	33.5	C
2. N King St / Palama St	Signal	AM	45.7	D
		PM	13.2	B
3. N Vineyard Blvd / Palama St	Signal	AM	49.5	D
		PM	52.4	D
4. N King St / Pua Ln	Signal	AM	11.8	B
		PM	5.4	A
5. Kukui St / Pua Ln/Mauka Project Dwy	SSSC	AM	13.0	B
		PM	12.5	B
6. N Vineyard Blvd / Pua Ln	Signal	AM	12.3	B
		PM	9.7	A
7. N King St / Dillingham Blvd/Liliha St	Signal	AM	**58.7**	**E**
		PM	**99.9**	**F**
8. Kukui St / Liliha St	Signal	AM	13.8	B
		PM	13.4	B
9. N Vineyard Blvd / Liliha St	Signal	AM	**109.6**	**F**
		PM	**89.3**	**F**
10. Kiapu Pl / Liliha St	Signal	AM	26.1	C
		PM	29.1	C
11. N School St / Liliha St	Signal	AM	27.3	C
		PM	21.8	C
12. N King St / Iwilei Rd	Signal	AM	11.0	B
		PM	31.5	C
13. N Beretania St / Aala St	Signal	AM	27.8	C
		PM	40.5	D
14. N Vineyard Blvd / Aala St	Signal	AM	**60.3**	**E**

TABLE 8: LONG-TERM (2028) BASELINEINTERSECTION LEVELS OF SERVICE

Intersection	Traffic Control[1]	Peak Hour	Delay (sec/veh)[2]	LOS[3,4]
		PM	**70.8**	**E**
15. Dillingham Blvd / Kaaahi St*	Signal	AM	20.7	C
		PM	33.6	C

Source: Fehr & Peers, 2017.
Notes:
[1] SSSC = Side-street stop controlled
[2] Whole intersection weighted average stopped delay expressed in seconds per vehicle for signalized and all-way stop-controlled intersections. The vehicular delay for the worst movement is reported for side-street stop-controlled intersections.
[3] LOS calculations performed using the *Highway Capacity Manual (HCM) 2010* method. LOS for side street stop-controlled (SSSC) intersections is worst-case movement. Other uncontrolled movements generally operate well with limited delay.
[4] Undesired LOS and corresponding seconds of delay per vehicle are highlighted in **bold.**
* During the peak hours, mauka-bound queues on Dillingham Blvd will spillback from the N King St intersection through the Kaaahi St intersection. This occurs a few times throughout the peak hour and during this time, delays appear longer than the average peak hour delay reported in the table.

The analysis results indicate that 12 study intersections are forecasted to operate at LOS D or better under Long-Term (2028) Baseline Conditions. The remaining three (3) study intersections are expected to operate at undesirable LOS E or F for at least one peak hour:

7. N King Street / Dillingham Boulevard/Liliha Street – LOS E and F (AM and PM peak hours, respectively)
9. N Vineyard Boulevard / Liliha Street – LOS F (AM and PM peak hours)
14. N Vineyard Boulevard / Aala Street – LOS E (AM and PM peak hours)

Additionally, since these intersections already operate at undesirable operations without the project, any development of the project (e.g. phase 1, partial buildout, full buildout, etc.) would result in an impact at these three intersections.

Similar to the existing conditions summary, it should be noted that some individual turning movements/approaches operate below LOS D, even though the overall intersection is operating at a desirable LOS.

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8.0 LONG-TERM (2028) PLUS FULL BUILDOUT CONDITIONS

This chapter summarizes and presents an analysis of the potential impacts on the roadway system due to projected increases in traffic, including traffic generated by full buildout of the project in 2028. The Long-Term (2028) Plus Full Buildout Conditions roadway network is the same network assumed under the baseline scenario, except for the addition of the site driveways that was discussed in Chapter 5. The analysis compares the projected levels of service at each study intersection under future baseline (or "No Project") conditions against the "Plus Full Buildout" scenario to determine potential Long-Term (2028) impacts.

8.1 LONG-TERM (2028) PLUS FULL BUILDOUT INTERSECTION LEVEL OF SERVICE

This section presents an analysis of potential future traffic conditions projected for Long-Term (2028) Plus Full Buildout Conditions. To forecast the peak hour operating conditions at each study intersection, the project trip assignment for Full Buildout Conditions were superimposed on Long-Term (2028) Baseline traffic volumes to yield Long-Term (2028) Plus Full Buildout volumes. **Figure 13** presents the anticipated lane configurations and projected Long-Term (2028) Plus Full Buildout AM and PM peak hour volumes.

Table 9 presents the intersection operating conditions and traffic impacts under Long-Term (2028) Plus Full Buildout Conditions scenarios and compares the projected levels of service at each study intersection under Long-Term (2028) Plus Full Buildout Conditions. The corresponding LOS Calculation sheets are included in **Appendix D.**

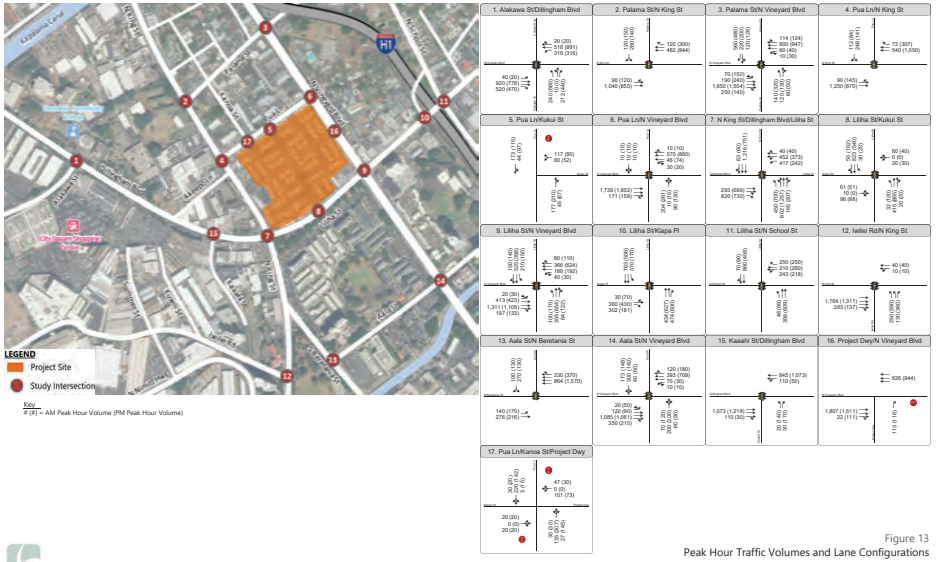

Figure 13
Peak Hour Traffic Volumes and Lane Configurations
Long-Term (2028) Plus Full Buildout Conditions

TABLE 9: LONG-TERM (2028) PLUS FULL BUILDOUT INTERSECTION LEVELS OF SERVICE

Intersection	Traffic Control[1]	Peak Hour	Long-Term (2028) Baseline		Long-Term (2028) Plus Full Buildout		Delay Change[5] (sec/veh)
			Delay (sec/veh)[2]	LOS[3,4]	Delay (sec/veh)[2]	LOS[3,4]	
1. Dillingham Blvd / Alakawa St	Signal	AM	31.3	C	31.9	C	0.6
		PM	33.5	C	33.8	C	0.3
2. N King St / Palama St	Signal	AM	45.7	D	47.7	D	2.0
		PM	13.2	B	11.1	B	-2.1
3. N Vineyard Blvd / Palama St	Signal	AM	49.5	D	51.6	D	2.1
		PM	52.4	D	53.4	D	1.0
4. N King St / Pua Ln	Signal	AM	11.8	B	24.5	C	12.7
		PM	5.4	A	8.4	A	3.0
5. Pua Ln/ Kukui St/Mauka Project Dwy	SSSC	AM	13.0	B	16.9	C	3.9
		PM	12.5	B	17.2	C	4.7
6. N Vineyard Blvd / Pua Ln	Signal	AM	12.3	B	16.3	B	4.0
		PM	9.7	A	18.6	B	8.9
7. N King St / Dillingham Blvd/Liliha St	SSSC	AM	**58.7**	**E**	**65.7**	**E**	**7.0**
		PM	**99.9**	**F**	**111.0**	**F**	**11.1**
8. Kukui St / Liliha St	Signal	AM	13.8	B	17.2	B	3.4
		PM	13.4	B	24.0	C	10.6
9. N Vineyard Blvd / Liliha St	Signal	AM	**109.6**	**F**	**127.4**	**F**	**17.8**
		PM	**89.3**	**F**	**111.6**	**F**	**22.3**
10. Kiapu Pl / Liliha St	Signal	AM	26.1	C	26.9	C	0.8
		PM	29.1	C	29.0	C	-0.1
11. N School St / Liliha St	Signal	AM	27.3	C	27.6	C	0.3
		PM	21.8	C	22.3	C	0.5
12. N King St / Iwilei Rd	Signal	AM	11.0	B	11.0	B	0.0
		PM	31.5	C	31.2	C	-0.3
13. N Beretania St / Aala St	Signal	AM	27.8	C	34.9	C	7.1

TABLE 9: LONG-TERM (2028) PLUS FULL BUILDOUT INTERSECTION LEVELS OF SERVICE

Intersection	Traffic Control[1]	Peak Hour	Long-Term (2028) Baseline		Long-Term (2028) Plus Full Buildout		Delay Change[5] (sec/veh)
			Delay (sec/veh)[2]	LOS[3,4]	Delay (sec/veh)[2]	LOS[3,4]	
		PM	40.5	D	40.4	D	-0.1
14. N Vineyard Blvd / Aala St	Signal	AM	**60.3**	**E**	**59.4**	**E**	**-0.9**
		PM	**70.8**	**E**	**74.9**	**E**	**4.1**
15. Dillingham Blvd / Kaaahi St*	Signal	AM	20.7	C	35.0	C	14.3
		PM	33.6	C	40.4	D	6.8
16. N Vineyard Blvd / Project Dwy	SSSC	AM	Intersection does not exist in this scenario		**39.1**	**E**	N/A
		PM			34.6	D	N/A
17. Pua Ln / Makai Project Dwy	SSSC	AM	Intersection does not exist in this scenario		14.5	B	N/A
		PM			17.8	C	N/A

Source: Fehr & Peers, 2017.
Notes:
[1] SSSC = Side-street stop controlled
[2] Whole intersection weighted average stopped delay expressed in seconds per vehicle for signalized and all-way stop-controlled intersections. The vehicular delay for the worst movement is reported for side-street stop-controlled intersections.
[3] LOS calculations performed using the *Highway Capacity Manual (HCM) 2010* method. LOS for side street stop-controlled (SSSC) intersections is worst-case movement. Other uncontrolled movements generally operate well with limited delay.
[4] Undesired LOS and corresponding seconds of delay per vehicle are highlighted in **bold.** Project impacts highlighted **gray and bold**.
[5] Change in delay from Full Partial Buildout to Baseline conditions. N/A indicates that the intersection does not exist under Baseline Conditions.
* During the peak hours, mauka-bound queues on Dillingham Blvd will spillback from the N King St intersection through the Kaaahi St intersection. This occurs a few times throughout the peak hour and during this time, delays appear longer than the average peak hour delay reported in the table.

According to the results in **Table 9,** the addition of Full Buildout trips would cause of total of three (3) significant impacts to study intersections. Under this scenario, the Full Buildout project would contribute to cumulative impacts (i.e. exacerbating baseline LOS E or F operations) during one or both peak hours at the following three (3) study intersections:

7. N King Street / Dillingham Boulevard/Liliha Street – LOS E and F (AM and PM peak hours, respectively)
9. N Vineyard Boulevard / Liliha Street – LOS F (AM and PM peak hours)
14. N Vineyard Boulevard / Aala Street – LOS E (PM peak hour)

All project driveways are anticipated to operate at desirable levels under Long-Term (2028) Plus Full Buildout conditions, with the exception of the N Vineyard Blvd right-in-right-out project driveway (intersection 16),

which is anticipated to operate at LOS E during the AM peak hour. The mauka-bound right turn from the project site to Vineyard Boulevard is anticipated to experience an average of 39 seconds of vehicle delay during the peak hour, which is only four seconds above the LOS E threshold (i.e. 35 seconds), while most of the traffic traveling through that intersection on N Vineyard Boulevard is expected to experience minimal to no delay. Furthermore, the upstream N Vineyard Boulevard/Pua Lane traffic signal would provide gaps in traffic on Vineyard Boulevard that would allow vehicles leaving the project driveway to make the right-turn onto Vineyard Boulevard. Therefore, intersection capacity enhancements such as a traffic signal or lane additions are not considered necessary to substantially improve intersection operations.

8.2 IWILEI STATION SENSITIVITY ANALYSIS

Due to current funding concerns, the future Honolulu Rail Transit project is currently being reevaluated in terms of the project scale. The *HART Recovery Plan* dated April 2017 describes the history of the project, what influenced the increased project costs, and the schedule delays that have occurred. The Federal Transit Administration directed HART to evaluate two options for the project:

- Plan A – Complete the original proposed 20-miles of rail with 21 stations to Ala Moana
- Plan B – "Build to budget". A less expensive project that would end the line near Aloha Tower and eliminate seven (7) stations in Downtown along the route.

Plan B would keep the Middle Street station and remove the Kalihi, Kapalama, Iwilei, and Chinatown stations, and ultimately end in Downtown. Since the trip generation estimates for Long-Term (2028) Full Buildout conditions assumes the full completion of the rail project, a sensitivity analysis was conducted to determine if there would be any additional impacts to study facilities without the Iwilei rail station in operation.

The transit reduction for project buildout in 2028 (i.e., 30 percent with the Iwilei station) was reduced to account for no Iwilei rail station, which would be a 25 percent transit reduction and the same as Near Term (2022) Partial Buildout conditions. **Table 10** compares the net new vehicle trips without and with Iwilei rail station under Year 2028 Plus Full Buildout conditions.

TABLE 10: LONG-TERM (2028) PLUS FULL BUILDOUT TRIP GENERATION COMPARISON

Long-Term (2028) Plus Full Buildout Rail Scenario	Daily	AM Peak Hour			PM Peak Hour		
		In	Out	Total	In	Out	Total
PROPOSED PROJECT'S NET NEW VEHICLE TRIPS							
With Iwilei Rail Station (30% transit reduction)	10,085	111	467	578	590	369	959
No Iwilei Rail Station (25% transit reduction)	11,019	126	515	641	641	402	1,043
TRIP DIFFERENCE	**934**	**15**	**48**	**63**	**51**	**33**	**84**
PERCENT DIFFERENCE	**9%**	**11%**	**10%**	**14%**	**9%**	**9%**	**9%**

Source: Fehr & Peers, 2017

As shown in Table 10, without the Iwilei rail station, the project would generate a total of 11,019 net new vehicle daily trips, 641 net new vehicle trips in the AM peak hour, and 1,043 net new vehicle trips in the PM peak hour. The trip estimates without the Iwilei station in 2028 would be approximately 9 percent higher for the daily trips, 14 percent higher in the AM peak hour, and 9 percent higher in the PM peak hour.

Based on the sensitivity operations analysis, if there were no Iwilei rail station, the project would impact the same three study intersections (Int 7. N King Street/Dillingham Boulevard/Liliha Street, Int 9. N Vineyard Boulevard/Liliha Street and Int 14. N Vineyard Boulevard/Aala Street) as the scenario with the rail station, and there would be no additional project impacts to other study intersections. The delay increase at the study intersections would be minimal as the increase in traffic volume would be distributed amongst multiple project driveways and study intersections.

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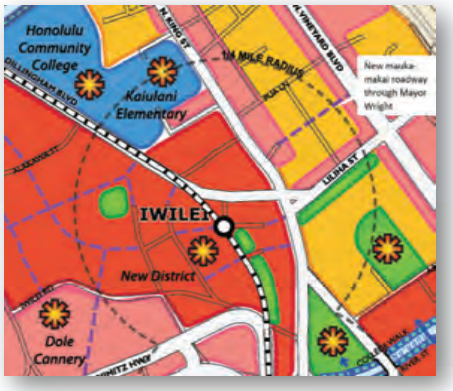
8.3 MAUKA-MAKAI PROPOSED ROADWAY



In the *Downtown Neighborhood Transit-Oriented Development (TOD) Plan* (August 2017), a new mauka-makai roadway was proposed that would transverse through the project site and connect Vineyard Boulevard to Desha Lane. The image to the left shows the proposed roadway alignment in purple. The proposed roadway would essentially bisect the project site and its intended purpose is to increase vehicular, pedestrian, and bicycle access to the project site and to decrease the block lengths fronting the site.

While this roadway would theoretically increase connectivity in the area, it is not expected to create a significant change in travel patterns or substantially increase access in this area. Parallel and adjacent facilities, such as Palama Street, Pua Lane, and Liliha Street already provide similar connections between Vineyard Boulevard and N King Street. Pua Lane, which is the most similar to the proposed connection in terms of character and vehicle capacity, has some surplus capacity under existing conditions and already serves vehicles attempting to avoid the Liliha Street congestion. With the project in place, Pua Lane will include two vehicle access points to the site and will adequately serve projected site traffic volumes at buildout (see Chapter 10 for additional discussion). Additionally, the project proposes to include a new vehicular access point on Vineyard Boulevard that would accomplish the goals of the proposed connection from the TOD plan cited above. Based on the existing surplus capacity on Pua Lane and the inclusion of the mauka section of the TOD connection, it is anticipated that the proposed new roadway in its entirety would primarily serve project-generated trips and not external traffic volumes. Accordingly, an assessment was conducted of the project driveways with the new mauka-makai roadway connection to determine how many project trips would shift to the new N King Street / Desha Lane – Project driveway intersection.

The mauka end of the new roadway would connect at the same location on N Vineyard Boulevard as the proposed right-in-right-out driveway, so the volumes at that intersection would essentially stay the same. To access N King Street, project generated vehicles could use the Desha Lane project driveway instead of turning to and from Pua Lane. For vehicles exiting the site, it is not expected that there would be a

substantial shift to the Desha Lane driveway, as that intersection would be side-street-stop controlled and turning onto N King Street during the peak periods could be difficult due to the high traffic volumes on that corridor during the peak periods. While a signal could theoretically be provided at Desha Lane on King Street, it is only 300 feet from the Dillingham Boulevard/Liliha Street intersection, and the minimum desired signal spacing on a major arterial roadway is typically 400 feet or more.

In general, the N King Street/Pua Lane would experience the largest decrease (approximately 100 vehicle total under Buildout conditions) with the new extension to Desha Lane, while the Liliha Street/Kukui Street intersection would only experience a decrease of approximately 25 vehicles total at that intersection during the peak hours. **Appendix D** shows the reassignment of project trips at the project driveways and adjacent study intersections under Partial Buildout and Buildout conditions. Based on this assessment, the proposed mauka-makai roadway connecting Desha Lane to Vineyard Boulevard would not provide a substantive benefit from an overall traffic circulation perspective. The existing segment of Desha Lane is relatively narrow and functions more like an alley, so if a connection to the project site would exist, it could function as a one-way inbound or outbound vehicle access; however, as described previously, the Desha Lane driveway is not needed due to the ample capacity at the other site driveways and adjacent intersections. Lastly, the site plan does not appear to preclude this connection as a pedestrian/bicycle only facility or as a full-multi-modal connection (should it be desired in the future).

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9.0 POTENTIAL TRAFFIC IMPROVEMENTS

Potential traffic improvements were identified to increase the capacity and/or efficiency of the roadway system at the locations where the addition of project-related traffic would contribute to poor operating conditions. The emphasis was to identify physical and/or operational improvements that could be implemented within the existing or planned roadway rights-of-way and determine if improvements would be ultimately feasible.

The potential measures to address the identified traffic impacts are described in this chapter. Each of the initially identified impacts would be reduced such that future plus project operations would be better than baseline conditions. Consultations with HDOT and DPP were conducted to discuss their concerns and goals in balancing operations and safety for travel all modes in the study area, particularly at the impacted intersections.

The full range of improvements that address both project-related and/or cumulative traffic impacts are discussed in detail below.

INTERSECTION 7: N KING STREET / DILLINGHAM BOULEVARD/LILIHA STREET (CUMULATIVE IMPACT)

Significantly impacted with any redevelopment of Mayor Wright (i.e. Partial Buildout and Full Buildout)

This intersection operates at F in the PM peak hours under Near Term (2022) and Year (2028) Baseline Conditions. The addition of project trips (Partial Buildout and Full Buildout) would exacerbate LOS F operations under all two project scenarios (as well as in the "No Iwilei Rail Station" scenario).

Theoretical improvement:

- Restripe the N King Street ewa-bound through/left lane to an exclusive left-turn lane.
- Restripe the N King Street ewa-bound through/right lane to an exclusive through lane.
- Add a separate ewa-bound right-turn lane with a turn pocket of approximately 220 feet on N King Street.

Implementing the N King Street ewa-bound lane restriping and separate right-turn lane would increase vehicle capacity for the ewa-bound approach at this intersection. However, due to the unique lane configurations, signal timings, and high volumes on the other approaches, the improvements on the ewa-bound approach would provide minimal benefit to the overall intersection operation as the other major approaches (i.e. mauka-bound Dillingham Boulevard) would continue to operate at significant levels of delay. With the described improvements, the intersection delay would decrease to 100.4 in the PM peak hour under Long-Term (2028) Plus Full Buildout Conditions, which is only 0.5 seconds better than baseline conditions.

Vehicle capacity enhancements at this intersection are considered limited due to the right-of-way constraints and high traffic volumes on all approaches. The N King Street ewa-bound improvements are not recommended as it would potentially cause potential secondary environmental impacts and require right-of-way acquisitions along the N King Street mauka property (to add a separate right-turn lane) and would only provide minimal delay reductions to the overall intersection. Substantially reducing delay at this intersection with the existing and projected high volumes on all approaches would essentially require widening all approaches to provide additional through lanes and separate turn lanes. However, widening these roadways is not considered feasible due to: the right-of-way constraints and secondary adverse impacts (i.e. to pedestrian/bicyclists).

Heavy congestion on these roadways is primarily attributed to regional traffic demand, and widening these roadways is beyond the scope of a single development project. Additional improvements including new street connections within the greater Kalihi area would help reduce demand at this intersection and would compensate for several of the prohibited turning movements at this location.

INTERSECTION 9: N VINEYARD BOULEVARD / LILIHA STREET (CUMULATIVE IMPACT)

Significantly impacted with any redevelopment of Mayor Wright (i.e. Partial Buildout and Full Buildout)

This intersection operates at E or F in the AM and PM peak hours under Near Term (2022) and Year (2028) Baseline Conditions. The addition of project trips (Partial Buildout and Full Buildout) would exacerbate LOS operations under all two project scenarios (as well as in the "No Iwilei Rail Station" scenario).

Recommended improvement: Construct a second Diamond Head-bound left-turn lane on N Vineyard Boulevard to accommodate the future vehicle demand. This would require taking four (4) feet of the existing median, reducing the Diamond Head-bound left-turn lanes to 10 feet each, the two through lanes to 11 feet, and the through/right-turn to 13 feet (to accommodate right-turning buses).

Full Buildout would add 53 and 63 vehicle trips in the AM and PM peak hours, respectively, to the Diamond Head-bound left-turn at the N Vineyard Boulevard/Liliha Street intersection. The addition of project traffic exacerbates the poor mauka-bound left movement, and exacerbates the overall LOS F intersection operations. Therefore, a second mauka-bound left turn on N Vineyard Boulevard is recommended to accommodate the additional vehicle demand and ameliorate vehicle delay at this intersection to better than Baseline Conditions in the AM and PM peak hours. This improvement is considered feasible from a right-of way perspective and would still allow for an ADA-compliant pedestrian refuge area in the median island.

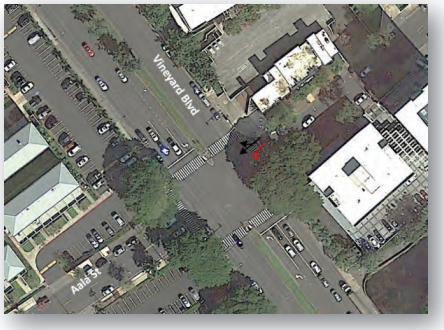
INTERSECTION 14: N VINEYARD BOULEVARD / AALA STREET (CUMULATIVE IMPACT)

Significantly impacted with any redevelopment of Mayor Wright (i.e. Partial Buildout and Full Buildout)

This intersection operates at LOS E in the PM peak hour under Near Term (2022) Baseline Conditions, and LOS E in the AM and PM peak hours under Long-Term (2028) Baseline Conditions. The addition of project trips (Partial Buildout and Full Buildout) would exacerbate LOS during one or both peak hours.

Theoretical improvement: Restripe makai-bound Aala Street to provide a separate left-turn lane and a through/right-turn lane.

The existing roadway width is sufficient to add a separate left-turn lane and a through/right-turn lane for the makai-bound approach on Aala Street. This would require removing approximately five (5) parking stalls on Aala Street (three on the ewa side and two on the Diamond Head side) to accommodate the new lanes. This modification would improve operations to LOS D in the PM hour under Long-Term (2028) Plus Full Buildout conditions. TRB staff will balance the need for on-street parking with the slight exceedance of intersection operations by 4.5 seconds over the LOS D threshold.



9.1 POTENTIAL TRAVEL DEMAND MANAGEMENT STRATEGIES

Besides simply expanding roadways to accommodate additional vehicle demand, the proposed project could implement some transportation demand management (TDM) strategies to reduce overall site-generated traffic volumes. Application of TDM strategies that could lead to vehicle trip reduction, use of alternative modes, and better traffic management at the site could include, but are not limited to:

- Implementation of a detailed TDM program for residents and retail employees, which would be managed by a TDM coordinator who would organized and coordinate monitoring efforts, parking and traffic management plans, and the implementation of TDM and recommendations and modifications.
- Provision of a transportation kiosk and on-line portal for information on ride-sharing, transit, bicycling, walking, and options for accessing the site without using a private automobile.
- Partial or fully subsidized transit passes for on-site employees and/or residents.
- Provision of bicycle racks adjacent to retail development, at communal open space, and residential buildings within the project site.
- Unbundling parking from apartment units to reduce rental costs for some units and to incentivize use of non-auto travel modes.

Prior to the implementation of any TDM measures, the project sponsor will need to coordinate with the City & County of Honolulu and/or transit service providers.

10.0 SITE ACCESS, CIRCULATION, AND PARKING

This chapter includes a review of the site access and on-site circulation for vehicles, bicyclists and pedestrians. An evaluation of off-site active and transit travel modes is presented in Chapter 11.

10.1 SITE ACCESS

As described in Chapter 4.3: *Proposed Project Roadway Modifications,* vehicle access to the site will be provided by four driveways: one full-access at Liliha Street/Kukui Street, a right-in-right-out driveway on N Vineyard Boulevard, and two full-access driveways on Pua Lane. Each driveway would include one inbound land and one outbound lane.

Based on the operations analysis, all site driveways are anticipated to operate at desirable levels for both AM and PM peak hours under Partial and Full Buildout conditions. Therefore, the four site driveways are adequate to serve the project demand. One potential site issue is a sight-distance issue at the Pua Lane driveways. Pua Lane currently provides on-street parallel parking on both sides of the roadway. The adjacent parked cars on either side of the proposed main driveway could potentially block an outbound driver's line of sight. Therefore, to improve visibility for driver's exiting the project site, it is recommended that the curbs be painted red at least one car length (i.e., a minimum of 20 feet) on each side of the driveway.

Additionally, due to the signals on N King Street and Vineyard Boulevard, makai-bound or mauka-bound vehicle queues on Pua Lane could potentially extend back and block the site driveway for vehicles entering or existing the project site. A "Keep Clear" designation should be striped on Pua Lane to require gaps in the queue and allow left-turn access into and out of the project site during peak periods.

The site plan also shows an access on the makai side of the site on N King Street. This driveway was initially intended for a vehicle access, however, due to the multiple conflicts at that location, it was not recommended and ultimately changed to a pedestrian only access. The vehicle conflicts at the N King Street access includes:

- An ewa-bound bus stop is located approximately 50 feet Diamond Head of the site access. When a bus is stopped loading and unloading a passengers, the driver of a vehicle turning out of the project driveway would not be able to see oncoming vehicles.
- N King Street merges from three ewa-bound lanes to two approximately 50 feet Diamond Head of the site access, and drivers on the street would be focused on merging operations instead of focusing on vehicles entering and exiting the site access.
- Similarly, buses exiting the stop area would conflict with vehicles trying to enter the site access.

Due to these factors, adding a new vehicle access on N King Street where there are already multiple conflicts occurring could result in safety issues for all users including pedestrians on the sidewalk. Furthermore, as discussed previously, the site is already adequately served by the four vehicle driveways, so the N King Street driveway is not be needed to serve the project's vehicle demand.

Pedestrian/bicycle and vehicle conflicts could potentially occur at project driveways, when a car is exiting and pedestrians/bicyclists using the sidewalk that cross the driveway. All of the vehicle access points on public streets are expected to be designed with appropriate signing and striping to alert all users of potential conflicts between bicyclists/pedestrians and vehicles. Furthermore, the driveways should be designed and be constructed so that adequate sight distance is provided for drivers of vehicles exiting and entering the project site.

Due to the new driveway changes on Pua Lane and the addition of project traffic, it is recommended that traffic calming enhancements and parking improvements be implemented to improve the safety and operations of the roadway. The following improvements are recommend on Pua Lane:

- *Consider installation of a Neighborhood Traffic Circle (NTC) at Pua Lane/Kanoa St/Project Makai Driveway* – While there are already speed humps on Pua Lane to help moderate vehicle speeds, a neighborhood traffic circle (NTC) at this intersection would further moderate vehicle speeds on the roadway and reduce the severity of potential collisions. The NTC would also reduce stopping on Kanoa Street and the project's makai driveway. It should be noted that an NTC would likely require elimination of several parking spaces on both sides of Pua Lane, mauka and makai of the NTC.
- *Install Metered Parking on Pua Lane* – This modification would promote frequent turnover of parked vehicles on Pua Lane, and would have to be implemented by the City & County of Honolulu Department of Transportation Services (DTS). The metered parking could be enforced only during typical daytime hours (e.g. 8 AM to 6 PM), so that in the evening, area residents or guests could park on Pua Lane for longer periods of time.
- *Install bicycle sharrows on Pua Lane and Kanoa Street* – this would highlight the presence of bicyclists on this street and inform motorists traveling on Pua Lane to share the roadway. This improvement would provide a visual connection to the planned bike facilities on N King Street that are being planned as part of the City & County's Complete Streets project.
- *Install curb extensions on the makai corners of the N Vineyard Boulevard/Pua Lane intersection* - this would increase pedestrian visibility through improved sight lines and also increase the pedestrian waiting space. Additionally, curb extensions would decrease the walking distance for pedestrians crossing Pua Lane. Given that this is improvement is on a State facility, coordination with DOT is required to implement this improvement.

Furthermore, a Traffic Management Plan (TMP) will be completed later in the project application process to analyze and address any potential construction impacts to the surrounding roadway system.

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10.2 ON-SITE VEHICLE CIRCULATION AND PARKING

The site plan includes two-way drive aisles with no "dead-end" aisles. None of the aisles/internal roadways are excessively long to where vehicle speeds on-site are expected to be excessive.

The distribution of the on-site parking supply locations have not yet been finalized, but parking is expected to be provided in structures incorporated within several of the residential building areas. The number of parking spaces on the project site will be consistent with the parking requirements identified in the recently approved *Downtown Neighborhood Transit-Oriented Development (TOD) Plan* (August 2017).

As the site plan refinements proceed, it is recommended that no parking spaces be provided within 150 feet of the project site driveways. For spaces near project driveways, a vehicle might have trouble exiting the space if there is a vehicle queue at the driveway waiting to exit the site. Additionally, if a vehicle is trying to enter or exit a parking space near a driveway, it could potentially create a conflict point for vehicles entering the site and vehicles parking their car. A vehicle may need to wait for the other vehicle parking, which could potentially create a vehicle queue that would spill back into the adjacent external roadway (i.e. Liliha Street, N Vineyard Boulevard, or Pua Lane).

There are two options for residential parking: (1) designated parking spaces per dwelling unit and a separate supply for retail, or (2) unbundled parking, which separates the cost to rent a parking space from the cost to rent an residential unit. For the designated parking spaces option, it provides limited opportunity for shared parking between the retail and residential uses of the project since the parking spaces would be reserved for a specific residential unit and would need to be accessible at all times. For the unbundled parking option, shared parking is more viable, assuming that not every unit rents a parking space, which results in excess parking that could be shared with the retail and require a lower parking supply for that use. As noted under Section 9.1, unbundling parking from the residential units would allow the supply to be better managed and provide financial incentives (i.e., lower rent) for residents to not own and park a vehicle at the project site.

10.3 ON-SITE PEDESTRIAN AND BICYCLE CIRCULATION

The site plan shows marked crosswalks on all the internal intersections and at several midblock locations. As stated in the previous section, a pedestrian/bicycle access would be provided on the makai side of the site on N King Street just ewa of Liliha Street. Pedestrian and vehicle conflicts could potentially occur at project driveways, particularly at unsignalized driveways when a car is exiting and pedestrians using the sidewalk that crosses the driveway. To enhance safety for pedestrians, it is recommended that signage be installed at all of the unsignalized driveways to alert motorists of potential pedestrian conflicts. Signs would

typically include a "STOP" sign on each driveway approach, as well as a sign indicating the presence of pedestrians.

People on bicycles are also expected to access the project site. No separate paths need to be incorporated within the site, since bicyclists will be expected to share the internal roadways with vehicles. Volumes and speeds are expected to be relatively low creating a "bicycle boulevard" environment with the site. However, secure bike parking should be provided at various locations throughout the site for both residents and visitors. At a minimum, this would include bike racks at several key locations to encourage the use of non-automobile travel. The number of bike parking spaces will be consistent with the bike parking requirements specified in the approved *Downtown Neighborhood TOD Plan*. Ideally, for convenience, each building should provide a proportional number of bike parking spaces to units either in their garage or close to building entrances.

Furthermore, the project site should accommodate space along the project site frontage for up to two bike share stations. Ideally, one would be located on the makai-Diamond Head side of the site near the N King Street / Dillingham Boulevard – Liliha Street intersection, and the second station could be located near the Vineyard Boulevard/Lililha Street intersection. The final locations for bike storage facilities and bike share stations will be determined by the project team in consultation with DPP staff.

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11.0 MULTI-MODAL ASSESSMENT

Consistent with State of Hawaii and City & County of Honolulu policies on Complete Streets, this chapter addresses any potential project impacts on all non-automobile modes of transportation, including existing and planned pedestrian, bicycle, and transit facilities. Based on the review of the site plan illustrated on **Figure 2** and the project description, the project would not cause any significant impact to the overall existing and planned external multi-modal transportation system in the Kalihi area. The project design will adhere to the policies and principles outlined in the City & County of Honolulu's Ordinance relating to Complete Streets (2012) as it includes features to enhance mobility and access for all its residents and other users using all modes of transportation. It is further recommended that as the site plan is further refined, the Developer should consult with the State and City & County of Honolulu to design the internal roadway networks, cross sections, and access driveways in a manner that embraces the principles of Complete Streets and corresponds with the adjacent Liliha and Urban Core Complete Streets projects.

11.1.1 HONOLULU COMPLETE STREETS PROJECTS

The City & County of Honolulu is working to implement Complete Streets on several areas on the island of O`ahu. There are currently eight (8) complete streets project on O`ahu, with the Nuuanu/Liliha and the Urban Core Complete Streets projects immediately adjacent to the Mayor Wright project.

The Nuuanu/Liliha Complete Streets project includes Nuuanu Avenue between School Street and Pali Highway and Liliha Street between School Street and Wyllie Street. The Urban Core Complete Streets project is looking at opportunities for integrating complete streets across approximately 16 miles of roadways that includes portions of King Street, Kapiolani Boulevard, Piikoi Street, Pensacola Street, Punch Bowl Street, Ward Avenue, Kamakee Street and others. The Urban Core Complete Streets project starts at the intersection on N King Street / Dillingham Boulevard – Liliha Street and provides multimodal improvements on N King Street that extend in the Diamond Head bound direction.

The complete streets projects includes, but not limited to, reducing vehicle capacity on the roadway to implement protected bike lanes in either one or both directions. Given the close proximity of the Liliha and Urban Core Complete Streets projects to the Mayor Wright project, the Developer should coordinate with the City & County to ensure that the planned project improvements correlates with the on-going Complete Streets plans.

11.1.2 PEDESTRIAN NETWORK

The proposed project follows new urbanist design principles that include an emphasis on walkability and connectivity through the pedestrian networks within the project site and connecting to the rest of the Kalihi

community. The site plan does not currently provide details on the external sidewalk widths, but it is recommended that the existing sidewalks adjacent to the project site are enhanced and widened where feasible with the project.

Pedestrian Safety Enhancements

The project's study area currently serves a substantial amount of pedestrian traffic each day due to the nearby schools, retail centers, residential areas, and available transit. This is volume is anticipated to grow in the future with the future Iwilei rail station and the planned development in the Kalihi community. However, there are some locations immediately adjacent to the site that currently have deficient pedestrian facilities.

The two major adjacent intersections to the project site (N King Street/Dillingham Boulevard/Liliha Street and N Vineyard Boulevard/Liliha Street) currently serve high pedestrian traffic and would serve a large portion of the project's pedestrian traffic, though these intersections could be enhanced from a pedestrian safety perspective.

The following enhancements are recommended to improve safety and serve existing and future pedestrian demand:

N King Street/Dillingham Boulevard/Liliha Street

- *Install "Leading Pedestrian Intervals" (LPIs) at all crosswalks.* LPIs give pedestrians a few seconds (typically 3 to 7 seconds) head start when entering an intersection with the corresponding green signal. According to the National Association of City Transportation Officials (NACTO), LPIs could reduce pedestrian-vehicle collision as much as 60 percent at treated intersections. This improvement would increase the visibility of pedestrians crossing as they would enter the intersection before the vehicle is given the green light to turn left or right. LPIs are a relatively low cost improvement as it would only require adjustments to the existing signals.

- *Relocate the existing signal box and signal pole on the mauka-ewa corner of N King Street/Liliha Street to behind (i.e. ewa side) of the crosswalk.* The existing location of the signal box and the signal pole creates a visibility issue for pedestrians waiting to cross the ewa crosswalk in the mauka-ewa corner and for drivers in vehicles turning right from Liliha Street onto N. King Street. Moving the signal box and pole behind the crosswalk (in the ewa direction) removes the obstruction and increases the visibility of pedestrians waiting to cross.

- *Straighten the makai crosswalk across Dillingham Boulevard and move the vehicle stop bar approximately 15-feet back.* This crosswalk is currently skewed to connect closer to the center of the makai-Diamond head corner; however, since no crosswalk is provided on the other side of this corner (i.e. across N King Street), the makai crosswalk across Dillingham Boulevard could be

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pushed back further from the center of the corner so that it aligns straight across the intersection. Doing this would shorten the crosswalk distance for pedestrians by approximately 10 feet (from 80 feet to 70 feet). This would require restriping the crosswalk and lanes, which is relatively a low cost improvement.

Additionally, the intersection currently does not provide a crosswalk on the Diamond Head leg of the intersection across N King Street due to the heavy conflicting mauka-bound right-turn movement; thus, an analysis was conducted to determine how the addition of the missing Diamond Head crosswalk would affect traffic operations at this intersection. Due to the existing lane configuration and signal phasing at this intersection, installation of a crosswalk on the Diamond Head leg would require that the mauka-bound right-turn movement on Dillingham Boulevard be protected and run separately from the through phase. The new crosswalk would run concurrently with the mauka-bound through phase. This phasing would be similar to the makai-bound approach on Liliha Street, where the left-turn is a protected phase, so if there is a left-turn vehicle in the shared left-through lane, it would block through traffic till the signal turns green for the left-turn movement. This type of signal phasing would accommodate a Diamond Head crosswalk and not cause any conflicts with the mauka-bound right-turn movement and pedestrians using the crosswalk; however, due to the inefficient use of green time from the signal phasing on all other approaches, the intersection's average vehicle delay would increase approximately 40 percent with inclusion of the missing crosswalk. To install the Diamond Head sidewalk, additional lanes on Dillingham Boulevard would be required to serve the vehicle demand and reduce the intersection's delay. Consequently, a crosswalk on the Diamond Head leg of the N King Street/Dillingham Boulevard/Liliha Street is not recommended due to the adverse effects to the vehicle operations at this intersection.

N Vineyard Boulevard/Liliha Street

- *Install "Leading Pedestrian Intervals" (LPIs) at all crosswalks.* See benefit above.

- *Relocate all pedestrian push buttons so that they are within 10 feet from the curb ramp.* This intersection currently only provides one push button in each corner. To ensure that pedestrians can easily activate a pedestrian call for their crosswalk, a push-button should be provided within in close proximity to the curb ramp.

A curb extension was also evaluated at the makai-ewa corner of this intersection since there is an existing sight visibility issue with pedestrians crossing the makai crosswalk across Liliha Street being blocked by the existing building (similar to the one described above in the mauka-ewa corner). A curb extension would increase pedestrian visibility through improved sight lines and also increase the pedestrian waiting space. However, the N Vineyard Boulevard Diamond Head-bound right-turn at that corner currently serves multiple bus routes, so a turning template analysis was conducted to determine if a bus (both a standard 40 foot and an articulated 60-foot bus) would be able to make a right-turn without encroaching into the inside makai-bound lane on Liliha Street. The analysis showed that with a curb extension on this corner, a

bus would need to encroach into the adjacent travel lane to make the turn. Consequently, this improvement was not recommended, as it could interfere with vehicle flow in the Liliha Street corridor.

Figure 14 and 15 shows the recommend pedestrian enhancements at the N King Street/Dillingham Boulevard/Liliha Street and N Vineyard Boulevard/Liliha Street intersections, respectively.

Given the close proximity to the future Iwilei rail station and the anticipated high project rail ridership, it is recommended that the Developer participate (but not be held fully responsible) in the construction of a wide and complete sidewalk on Liliha Street and Dillingham Boulevard from the project site to Kaaahi Street, where the future Iwilei rail station would be located. The sidewalk is recommended to be a minimum of eight (8) feet wide and free of obstructions (e.g. signal poles, signal boxes, trees, furniture, etc.) to the extent feasible. Additionally, it is recommended that a stripped crosswalk be installed on the Dillingham Boulevard makai leg at the Kaaahi Street intersection to increase pedestrian connectivity. Along the project frontage on Liliha Street, the sidewalk could be constructed to provide an eight foot sidewalk and eight foot parkway/amenity zone.

Furthermore, the sidewalk on N King Street Diamond Head of Pua Lane, adjacent to the Shell Gas Station, should be extended to connect to the existing sidewalk Diamond Head of the gas station driveway. This sidewalk extension would provide a continuous pedestrian facility along that segment on N King Street and improve pedestrian connectivity and circulation. It is also recommended that the project ensure that all sidewalks surrounding the site on Pua Lane, N King Street, Liliha Street, and Vineyard Boulevard are wide (at least 6 feet wide), continuous, and in good quality (e.g. no cracking, free of obstructions, etc).

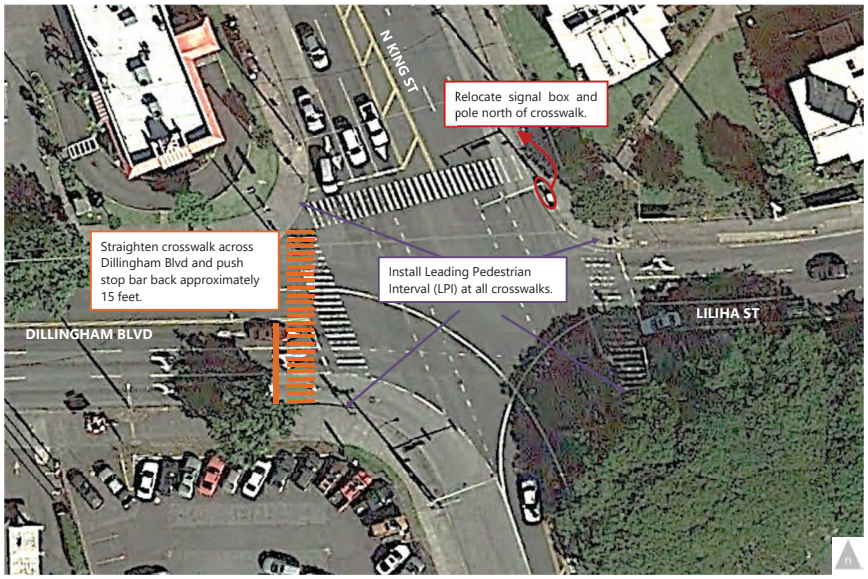


Figure 14
Pedestrian Safety Enhancements at N King St/Dillingham Blvd/Liliha St Intersection

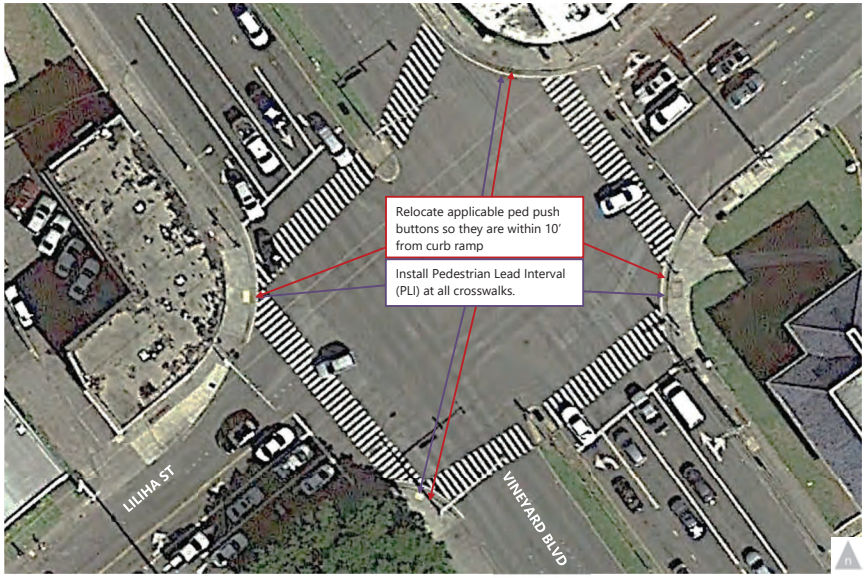


Figure 15

Pedestrian Safety Enhancements at Vineyard Blvd/Liliha St Intersection

11.1.3 BICYCLE NETWORK

The *O`ahu Bike Plan* (August 2012) plans for enhanced bicycle facilities to be implemented within the study area. The following are planned bicycle projects relevant to the project site and that would serve the study area:

- Bicycle lane on N King Street from Middle Street to River Street
- Bicycle lane on Liliha Street from N King Street to Wyllie Street
- Bicycle lane on Beretania Street from Alapa'i Street to N King Street
- Bicycle lane on Alakawa Street from Nimitz Highway to Dillingham Boulevard
- Bicycle route on Dillingham Boulevard from Pu'uhale Road to N King Street
- Bicycle path at the future Iwilei Transit Station from Dillingham Boulevard to Nimitz Highway

No additional designated bicycle paths or lanes are necessary as part of project implementation. The type and feasibility of bicycle facilities on facilities directly adjacent to the project site is currently being evaluated as part of complete streets projects being managed by the City & county of Honolulu Department of Transportation Services (DTS).

11.1.4 TRANSIT NETWORK

It is anticipated that the Honolulu Rail Transit system will start operating the initial section from Kapolei to Aloha Stadium in 2020, and the opening of the full system will be in 2025. The Iwilei Station will be located at Kaaahi Street and will serve the Kalihi and other outlying residential areas. The station will be located approximately 1,000 feet from the project site and will feature ADA pedestrian access, bicycle parking, and a Kiss-and-Ride. Current plans are for trains to operate between 4:00 AM and midnight daily, with five-minute headways during peak travel times and 10 minute headways during off-peak hours. To further enhance the multimodal facilities, it is recommended that the Developer relocate the bus stops on Liliha Street, immediately adjacent to the project site, onto the project property to reduce conflict with pedestrians and maximize the available sidewalk width.

Generally, the proposed project is not expected to substantially increase the walking, biking, or transit demand to a level where it could not be accommodated by existing or planned facilities. In addition, the project is expected to enhance multi-modal facilities and services, especially with the promotion of the use of passive and active spaces and non-motorized modes. The project is also expected to not conflict with any existing facilities and planned improvements. Thus, the project's impacts to pedestrian, bicycle, and transit facilities and services are therefore considered *less-than-significant*.

APPENDIX A: TRAFFIC COUNT DATA

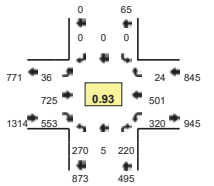
Type of peak hour being reported: Intersection Peak

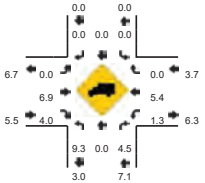
Method for determining peak hour: Total Entering Volume

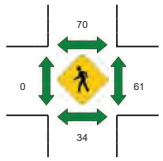
LOCATION: Alakawa St -- Dillingham Blvd
CITY/STATE: Honolulu, HI

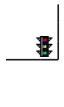
QC JOB #: 13874401
DATE: Tue, Aug 30 2016

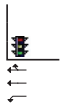
Peak-Hour: 7:45 AM -- 8:45 AM
Peak 15-Min: 8:20 AM -- 8:35 AM

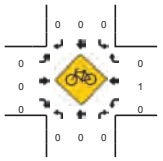


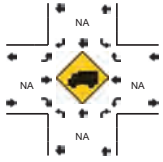


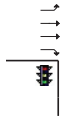


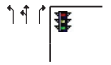


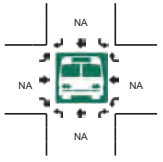












5-Min Count Period Beginning At	Alakawa St (Northbound)				Alakawa St (Southbound)				Dillingham Blvd (Eastbound)				Dillingham Blvd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	16	0	16	0	0	0	0	0	4	46	33	0	25	29	0	0	169	
7:05 AM	9	0	19	0	0	0	0	0	4	69	22	0	18	24	0	0	165	
7:10 AM	17	0	17	0	0	0	0	0	1	87	44	0	26	16	2	0	210	
7:15 AM	20	0	12	0	0	0	0	0	2	79	30	0	22	32	1	0	198	
7:20 AM	15	0	24	0	0	0	0	0	4	58	38	0	28	28	1	0	196	
7:25 AM	9	1	8	0	0	0	0	0	0	90	39	0	12	33	1	0	193	
7:30 AM	11	0	19	0	0	0	0	0	0	85	45	0	17	38	0	0	215	
7:35 AM	25	1	13	0	0	0	0	0	3	53	35	0	31	27	2	0	190	
7:40 AM	20	1	15	0	0	0	0	0	2	65	43	0	27	36	1	0	210	
7:45 AM	18	0	17	0	0	0	0	0	5	97	33	0	13	45	0	0	228	
7:50 AM	29	0	17	0	0	0	0	0	3	68	40	0	29	34	1	0	221	
7:55 AM	9	0	12	0	0	0	0	0	2	72	48	0	23	36	2	0	204	2399
8:00 AM	17	0	21	0	0	0	0	0	4	74	42	0	18	52	1	0	229	2459
8:05 AM	25	2	19	0	0	0	0	0	2	43	44	0	25	39	5	0	204	2498
8:10 AM	24	0	14	0	0	0	0	0	6	60	47	0	40	43	3	0	237	2525
8:15 AM	24	0	13	0	0	0	0	0	1	66	46	0	20	38	1	0	209	2536
8:20 AM	24	1	20	0	0	0	0	0	6	50	53	0	28	56	5	0	243	2583
8:25 AM	18	1	18	0	0	0	0	0	3	57	51	0	35	47	2	0	232	2622
8:30 AM	24	0	24	0	0	0	0	0	3	64	55	0	21	47	3	0	241	2648
8:35 AM	24	1	16	0	0	0	0	0	0	36	51	0	33	29	1	0	191	2649
8:40 AM	34	0	29	0	0	0	0	0	1	38	43	0	35	35	0	0	215	2654
8:45 AM	29	1	27	0	0	0	0	0	1	54	43	0	30	39	2	0	226	2652
8:50 AM	22	0	15	0	0	0	0	0	2	52	37	0	20	39	2	0	189	2620
8:55 AM	30	0	33	0	0	0	0	0	1	27	39	0	25	44	1	0	200	2616

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	264	8	248	0	0	0	0	0	48	684	636	0	336	600	40	0	2864
Heavy Trucks	32	0	12		0	0	0		0	68	28		4	32	0		176
Pedestrians		48				84				0				88			220
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad																	
Stopped Buses																	

Comments:

Report generated on 9/12/2016 5:12 PM

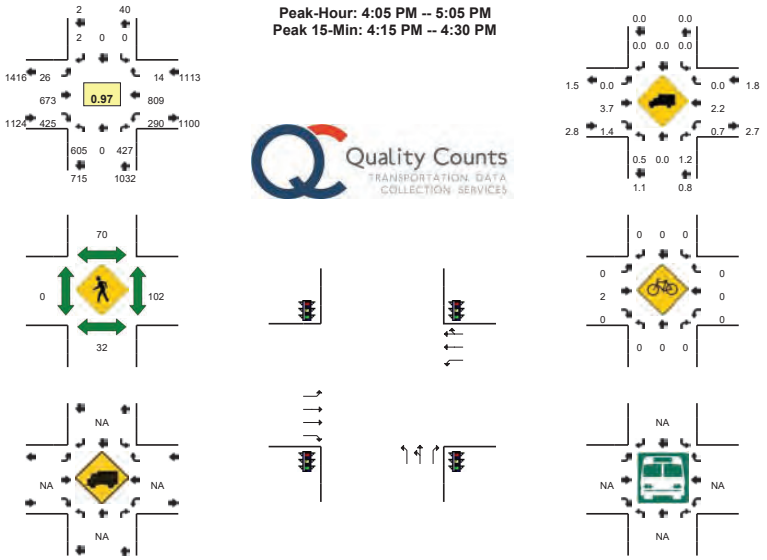
SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

LOCATION: Alakawa St -- Dillingham Blvd
CITY/STATE: Honolulu, HI

QC JOB #: 13874402
DATE: Tue, Aug 30 2016

Peak-Hour: 4:05 PM -- 5:05 PM
Peak 15-Min: 4:15 PM -- 4:30 PM



5-Min Count Period Beginning At	Alakawa St (Northbound)				Alakawa St (Southbound)				Dillingham Blvd (Eastbound)				Dillingham Blvd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	53	0	26	0	0	0	0	0	4	62	26	0	26	58	1	0	256	
4:05 PM	46	0	43	0	0	0	1	0	2	58	36	0	16	81	0	0	283	
4:10 PM	53	0	39	0	0	0	0	0	7	49	24	0	29	67	0	0	268	
4:15 PM	54	0	33	0	0	0	0	0	3	83	33	0	21	63	2	0	292	
4:20 PM	49	0	41	0	0	0	0	0	5	37	40	0	28	75	0	0	275	
4:25 PM	53	0	33	0	0	0	0	0	3	63	44	0	20	62	0	0	278	
4:30 PM	53	0	32	0	0	0	0	0	1	46	26	0	33	80	3	0	274	
4:35 PM	48	0	37	0	0	0	0	0	2	58	34	0	20	78	2	0	279	
4:40 PM	45	0	29	0	0	0	1	0	0	54	33	0	30	69	0	0	261	
4:45 PM	58	0	28	0	0	0	0	0	2	61	51	0	19	64	2	0	285	
4:50 PM	49	0	34	0	0	0	0	0	1	62	33	0	25	61	0	0	265	
4:55 PM	45	0	35	0	0	0	0	0	0	52	38	0	21	50	3	0	244	3260
5:00 PM	52	0	43	0	0	0	0	0	0	50	33	0	28	59	2	0	267	3271
5:05 PM	53	0	27	0	0	0	0	0	1	63	41	0	12	77	0	0	274	3262
5:10 PM	57	0	34	0	0	0	0	0	0	56	31	0	28	62	0	0	268	3262
5:15 PM	48	0	14	0	0	0	0	0	0	67	31	0	22	54	0	0	236	3206
5:20 PM	45	0	34	0	0	0	0	0	1	45	37	0	22	58	0	0	242	3173
5:25 PM	58	0	25	0	0	0	0	0	0	56	37	0	19	42	0	0	237	3132
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5:35 PM	47	0	31	0	0	0	0	0	0	51	27	0	20	39	0	0	215	3069
5:40 PM	53	0	38	0	0	0	0	0	0	49	31	0	22	56	0	0	249	3057
5:45 PM	53	0	23	0	0	0	0	0	0	50	34	0	16	51	1	0	228	3000
5:50 PM	42	0	27	0	0	0	0	0	0	53	25	0	30	35	0	0	212	2947
5:55 PM	47	0	12	0	0	0	0	0	0	52	26	0	17	45	0	0	199	2902

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	624	0	428	0	0	0	0	0	44	732	468	0	276	800	8	0	3380
Heavy Trucks	4	0	8		0	0	0		0	36	8		0	16	0		72
Pedestrians		24				60				0				72			156
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad Stopped Buses																	

Comments:

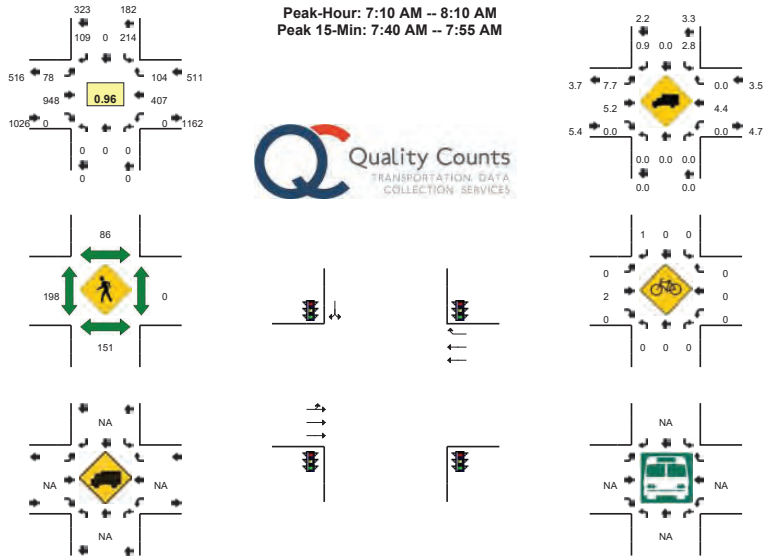
Report generated on 9/12/2016 5:12 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

LOCATION: Palama St -- N King St
CITY/STATE: Honolulu, HI

QC JOB #: 13874403
DATE: Tue, Aug 30 2016

Peak-Hour: 7:10 AM -- 8:10 AM
Peak 15-Min: 7:40 AM -- 7:55 AM



5-Min Count Period Beginning At	Palama St (Northbound)				Palama St (Southbound)				N King St (Eastbound)				N King St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	0	0	0	0	13	0	8	0	5	52	0	0	0	25	5	0	108	
7:05 AM	0	0	0	0	14	0	7	0	7	92	0	0	0	11	5	0	136	
7:10 AM	0	0	0	0	18	0	9	0	5	73	0	0	0	33	11	0	149	
7:15 AM	0	0	0	0	19	0	9	0	4	86	0	0	0	29	4	0	151	
7:20 AM	0	0	0	0	21	0	5	0	9	91	0	0	0	37	6	0	169	
7:25 AM	0	0	0	0	17	0	7	0	6	74	0	0	0	30	7	0	141	
7:30 AM	0	0	0	0	16	0	12	0	6	82	0	0	0	33	11	0	160	
7:35 AM	0	0	0	0	21	0	6	0	9	85	0	0	0	33	9	0	163	
7:40 AM	0	0	0	0	13	0	10	0	5	83	0	0	0	36	5	0	152	
7:45 AM	0	0	0	0	18	0	11	0	10	80	0	0	0	38	8	0	165	
7:50 AM	0	0	0	0	18	0	6	0	8	86	0	0	0	35	15	0	168	
7:55 AM	0	0	0	0	25	0	10	0	4	62	0	0	0	33	9	0	143	1805
8:00 AM	0	0	0	0	18	0	11	0	3	64	0	0	0	38	6	0	140	1837
8:05 AM	0	0	0	0	10	0	13	0	9	82	0	0	0	32	13	0	159	1860
8:10 AM	0	0	0	0	15	0	11	0	6	69	0	0	0	29	12	0	142	1853
8:15 AM	0	0	0	0	14	0	10	0	6	60	0	0	0	36	10	0	136	1838
8:20 AM	0	0	0	0	5	0	14	0	8	83	0	0	0	36	7	0	153	1822
8:25 AM	0	0	0	0	16	0	13	0	7	57	0	0	0	47	3	0	143	1824
8:30 AM	0	0	0	0	7	0	23	0	8	49	0	0	0	34	2	0	123	1787
8:35 AM	0	0	0	0	9	0	10	0	8	61	0	0	0	35	10	0	133	1757
8:40 AM	0	0	0	0	13	0	14	0	7	36	0	0	0	34	11	0	115	1720
8:45 AM	0	0	0	0	13	0	17	0	6	45	0	0	0	27	10	0	118	1673
8:50 AM	0	0	0	0	15	0	14	0	4	36	0	0	0	26	9	0	104	1609
8:55 AM	0	0	0	0	18	0	9	0	5	49	0	0	0	29	2	0	112	1578

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	0	0	0	196	0	108	0	92	996	0	0	0	436	112	0	1940
Heavy Trucks	0	0	0		4	0	0		16	68	0		0	20	0		108
Pedestrians		136				96				244				0			476
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad Stopped Buses																	

Comments:

Report generated on 9/12/2016 5:12 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

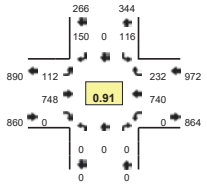
Type of peak hour being reported: Intersection Peak

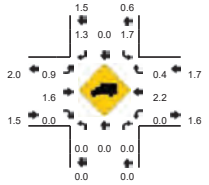
Method for determining peak hour: Total Entering Volume

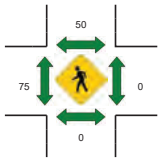
LOCATION: Palama St -- N King St
CITY/STATE: Honolulu, HI

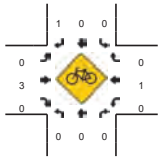
QC JOB #: 13874404
DATE: Tue, Aug 30 2016

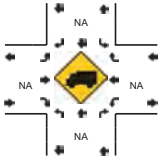
Peak-Hour: 4:05 PM -- 5:05 PM
Peak 15-Min: 4:05 PM -- 4:20 PM

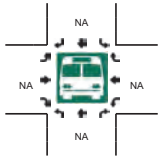












5-Min Count Period Beginning At	Palama St (Northbound)				Palama St (Southbound)				N King St (Eastbound)				N King St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	0	0	0	0	11	0	17	0	3	37	0	0	0	55	16	0	139	
4:05 PM	0	0	0	0	10	0	15	0	9	71	0	0	0	63	16	0	184	
4:10 PM	0	0	0	0	7	0	17	0	7	70	0	0	0	69	24	0	194	
4:15 PM	0	0	0	0	7	0	9	0	14	86	0	0	0	66	16	0	198	
4:20 PM	0	0	0	0	14	0	11	0	7	48	0	0	0	55	16	0	151	
4:25 PM	0	0	0	0	8	0	9	0	4	76	0	0	0	44	19	0	160	
4:30 PM	0	0	0	0	10	0	13	0	15	47	0	0	0	61	27	0	173	
4:35 PM	0	0	0	0	10	0	12	0	11	48	0	0	0	51	19	0	151	
4:40 PM	0	0	0	0	15	0	13	0	6	59	0	0	0	79	20	0	192	
4:45 PM	0	0	0	0	9	0	12	0	8	65	0	0	0	56	20	0	170	
4:50 PM	0	0	0	0	6	0	13	0	10	53	0	0	0	74	20	0	176	
4:55 PM	0	0	0	0	11	0	10	0	14	74	0	0	0	69	16	0	194	2082
5:00 PM	0	0	0	0	9	0	16	0	7	51	0	0	0	53	19	0	155	2098
5:05 PM	0	0	0	0	10	0	9	0	6	65	0	0	0	72	22	0	184	2098
5:10 PM	0	0	0	0	10	0	7	0	7	75	0	0	0	61	24	0	184	2088
5:15 PM	0	0	0	0	11	0	9	0	6	58	0	0	0	52	22	0	158	2048
5:20 PM	0	0	0	0	8	0	7	0	11	55	0	0	0	61	25	0	167	2064
5:25 PM	0	0	0	0	13	0	5	0	5	69	0	0	0	65	21	0	178	2082
5:30 PM	0	0	0	0	11	0	12	0	9	47	0	0	0	58	24	0	161	2070
5:35 PM	0	0	0	0	3	0	11	0	8	66	0	0	0	63	17	0	168	2087
5:40 PM	0	0	0	0	12	0	12	0	4	37	0	0	0	66	21	0	152	2047
5:45 PM	0	0	0	0	15	0	9	0	11	55	0	0	0	65	15	0	170	2047
5:50 PM	0	0	0	0	9	0	6	0	8	50	0	0	0	64	22	0	159	2030
5:55 PM	0	0	0	0	6	0	9	0	10	37	0	0	0	61	22	0	145	1981

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	0	0	0	96	0	164	0	120	908	0	0	0	792	224	0	2304
Heavy Trucks	0	0	0		0	0	0		4	8	0		0	12	0		24
Pedestrians		0				40				64				0			104
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad																	
Stopped Buses																	

Comments:

Report generated on 9/12/2016 5:12 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

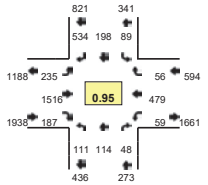
Type of peak hour being reported: Intersection Peak

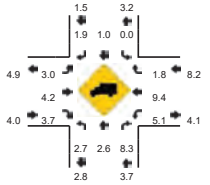
Method for determining peak hour: Total Entering Volume

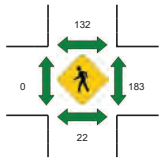
LOCATION: Palama St -- N Vineyard Blvd
CITY/STATE: Honolulu, HI

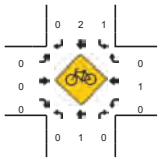
QC JOB #: 13874405
DATE: Tue, Aug 30 2016

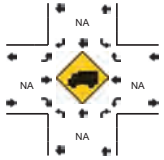
Peak-Hour: 7:10 AM -- 8:10 AM
Peak 15-Min: 7:50 AM -- 8:05 AM

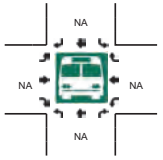












5-Min Count Period Beginning At	Palama St (Northbound)				Palama St (Southbound)				N Vineyard Blvd (Eastbound)				N Vineyard Blvd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	12	7	3	0	4	12	26	0	7	122	10	2	0	25	1	1	232	
7:05 AM	9	8	1	0	5	17	28	0	6	152	9	9	1	27	4	0	276	
7:10 AM	10	11	6	0	7	8	47	0	15	124	15	8	4	35	3	3	296	
7:15 AM	10	7	6	0	3	15	43	0	14	161	15	5	3	37	3	0	322	
7:20 AM	6	11	4	0	7	21	53	0	15	115	11	8	0	32	5	0	288	
7:25 AM	10	12	4	0	11	11	40	0	12	121	15	11	10	37	8	0	302	
7:30 AM	7	14	2	0	9	15	57	0	17	122	14	7	2	46	5	0	317	
7:35 AM	11	15	2	0	8	15	46	0	17	113	12	5	6	27	4	0	281	
7:40 AM	11	5	4	0	9	17	44	0	10	99	11	6	5	48	4	1	274	
7:45 AM	6	13	4	0	7	19	43	0	11	140	20	2	2	42	2	0	311	
7:50 AM	14	13	4	0	6	15	35	0	15	117	28	5	3	60	8	1	324	
7:55 AM	10	6	3	0	9	19	35	0	17	145	18	3	2	39	8	1	315	3538
8:00 AM	10	3	4	0	8	19	50	0	18	130	14	1	7	46	3	0	313	3619
8:05 AM	6	4	5	0	5	24	41	0	10	129	14	3	7	30	3	2	283	3626
8:10 AM	20	10	7	0	9	16	33	0	15	123	13	7	2	37	3	1	296	3626
8:15 AM	15	5	5	0	12	20	36	0	8	96	13	8	4	40	2	3	267	3571
8:20 AM	9	6	2	0	6	23	32	0	8	125	16	7	1	27	5	3	270	3553
8:25 AM	11	7	2	0	5	24	31	0	15	132	20	4	0	38	1	0	290	3541
8:30 AM	7	5	6	0	1	17	26	0	17	122	11	4	1	30	4	1	252	3476
8:35 AM	14	4	1	0	0	9	27	0	19	133	11	3	1	38	3	3	266	3461
8:40 AM	14	8	4	0	5	20	18	0	25	109	11	3	0	36	3	2	258	3445
8:45 AM	12	8	6	0	3	18	25	0	15	110	22	8	4	33	3	3	270	3404
8:50 AM	10	7	1	0	2	16	22	0	17	132	12	12	2	40	2	1	276	3356
8:55 AM	6	5	6	0	5	28	28	0	18	93	17	2	0	20	4	2	234	3275

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	136	88	44	0	92	212	480	0	200	1568	240	36	48	580	76	8	3808
Heavy Trucks	0	0	4		0	4	12		12	64	4		0	44	0		144
Pedestrians		8				112				0				132			252
Bicycles	0	0	0		0	2	0		0	0	0		0	0	0		2
Railroad																	
Stopped Buses																	

Comments:

Report generated on 9/12/2016 5:12 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

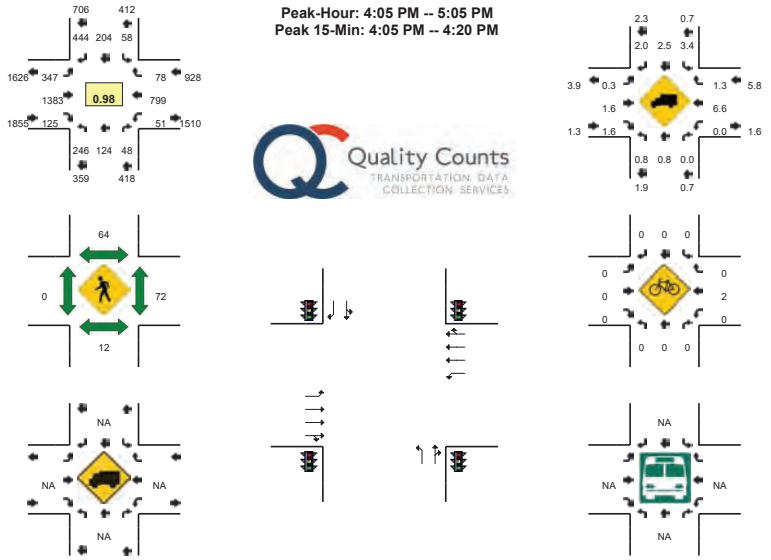
Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: Palama St -- N Vineyard Blvd
CITY/STATE: Honolulu, HI

QC JOB #: 13874406
DATE: Tue, Aug 30 2016

Peak-Hour: 4:05 PM -- 5:05 PM
Peak 15-Min: 4:05 PM -- 4:20 PM



5-Min Count Period Beginning At	Palama St (Northbound)				Palama St (Southbound)				N Vineyard Blvd (Eastbound)				N Vineyard Blvd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	21	8	3	0	2	22	42	0	21	96	8	9	2	59	5	2	300	
4:05 PM	20	10	7	0	5	22	41	0	14	117	12	11	3	71	8	3	344	
4:10 PM	27	9	4	0	7	17	43	0	15	116	7	8	2	63	1	0	319	
4:15 PM	17	12	3	0	2	10	45	0	20	123	9	14	4	65	10	1	335	
4:20 PM	9	12	2	0	2	15	28	0	14	122	17	10	2	75	5	0	313	
4:25 PM	23	13	2	0	4	14	22	0	20	127	8	16	0	77	8	0	334	
4:30 PM	22	3	5	0	8	21	41	0	20	101	11	13	4	58	3	1	311	
4:35 PM	24	10	7	0	7	18	47	0	20	115	12	11	1	61	8	2	343	
4:40 PM	26	10	3	0	7	19	42	0	18	112	6	10	0	44	7	4	308	
4:45 PM	26	13	5	0	5	18	35	0	16	101	8	7	4	67	7	5	317	
4:50 PM	24	12	1	0	6	14	29	0	20	128	11	10	2	79	5	0	341	
4:55 PM	19	13	5	0	2	18	40	0	16	117	6	14	3	76	7	3	339	3904
5:00 PM	9	7	4	0	3	18	31	0	17	104	18	13	5	63	9	2	303	3907
5:05 PM	26	8	2	0	3	9	41	0	25	117	9	8	3	73	3	2	329	3892
5:10 PM	27	4	3	0	7	14	43	0	13	97	8	15	1	74	6	1	313	3886
5:15 PM	26	8	6	0	2	11	30	0	26	91	5	7	3	54	12	2	283	3834
5:20 PM	22	6	5	0	4	17	33	0	28	111	5	4	1	66	4	2	308	3829
5:25 PM	26	13	4	0	9	10	37	0	13	88	10	6	2	87	7	0	312	3807
5:30 PM	18	10	1	0	4	11	38	0	19	106	9	10	3	82	7	2	320	3816
5:35 PM	16	16	2	0	5	21	42	0	19	104	7	10	0	68	5	0	315	3788
5:40 PM	10	6	0	0	6	12	22	0	16	102	16	3	4	51	10	0	258	3738
5:45 PM	20	6	5	0	4	12	19	0	21	110	13	10	3	72	2	2	299	3720
5:50 PM	26	6	4	0	5	11	34	0	26	120	12	4	0	61	3	4	316	3695
5:55 PM	20	8	1	0	1	12	30	0	22	109	7	10	2	57	6	1	286	3642

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	256	124	56	0	56	196	516	0	196	1424	112	132	36	796	76	16	3992
Heavy Trucks	4	0	0		0	4	16		4	24	0		0	20	0		72
Pedestrians		4				80				0				48			132
Bicycles	0	0	0		0	0	0		0	0	0		0	1	0		1
Railroad																	
Stopped Buses																	

Comments:

Report generated on 9/12/2016 5:12 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

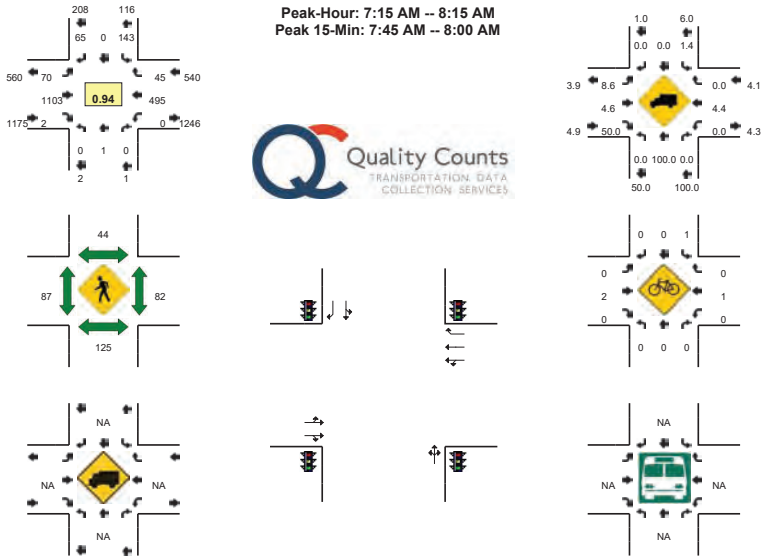
Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: Pua Ln -- N King St
CITY/STATE: Honolulu, HI

QC JOB #: 13874407
DATE: Tue, Aug 30 2016

Peak-Hour: 7:15 AM -- 8:15 AM
Peak 15-Min: 7:45 AM -- 8:00 AM



5-Min Count Period Beginning At	Pua Ln (Northbound)				Pua Ln (Southbound)				N King St (Eastbound)				N King St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	0	0	0	0	7	0	4	0	2	52	0	0	0	24	2	0	91	
7:05 AM	0	0	0	0	5	0	4	0	1	91	0	0	0	18	5	0	124	
7:10 AM	0	0	0	0	8	0	4	0	3	93	0	0	0	49	5	0	162	
7:15 AM	0	0	0	0	7	0	3	0	5	104	0	0	0	23	3	0	145	
7:20 AM	0	0	0	0	12	0	6	0	3	84	0	0	0	44	0	0	149	
7:25 AM	0	0	0	0	6	0	5	0	5	107	0	0	0	47	5	0	175	
7:30 AM	0	0	0	0	17	0	3	0	5	84	0	0	0	39	2	0	150	
7:35 AM	0	0	0	0	10	0	4	0	4	92	0	0	0	41	0	0	151	
7:40 AM	0	0	0	0	7	0	12	0	7	92	0	0	0	50	6	0	174	
7:45 AM	0	0	0	0	12	0	11	0	5	99	0	0	0	31	5	0	163	
7:50 AM	0	0	0	0	13	0	6	0	0	92	2	0	0	54	0	0	167	
7:55 AM	0	0	0	0	22	0	5	0	10	97	0	0	0	43	7	0	184	1835
8:00 AM	0	1	0	0	10	0	3	0	8	72	0	0	0	37	6	0	137	1881
8:05 AM	0	0	0	0	13	0	0	0	7	88	0	0	0	40	5	0	153	1910
8:10 AM	0	0	0	0	14	0	7	0	11	92	0	0	0	46	6	0	176	1924
8:15 AM	0	0	0	0	18	0	2	0	4	67	0	0	0	37	4	0	132	1911
8:20 AM	0	0	0	0	18	0	2	0	5	65	0	0	0	45	3	0	138	1900
8:25 AM	0	0	0	0	12	1	5	0	7	80	1	0	0	50	5	0	161	1886
8:30 AM	0	0	0	0	13	0	4	0	6	59	0	0	0	31	5	0	118	1854
8:35 AM	0	0	1	0	8	0	5	0	9	53	0	0	0	42	4	0	122	1825
8:40 AM	0	0	0	0	9	0	5	0	2	53	0	0	0	44	6	0	119	1770
8:45 AM	0	0	0	0	10	0	3	0	6	45	0	0	0	29	4	0	97	1704
8:50 AM	0	0	0	0	11	1	3	0	5	56	0	0	0	30	1	0	107	1644
8:55 AM	0	0	0	0	8	1	3	0	7	53	0	0	0	37	2	0	111	1571

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	0	0	0	188	0	88	0	60	1152	8	0	0	512	48	0	2056
Heavy Trucks	0	0	0		0	0	0		8	48	4		0	20	0		80
Pedestrians		148				28				108				108			392
Bicycles	0	0	0		0	0	0		0	0	0		0	1	0		1
Railroad																	
Stopped Buses																	

Comments:

Report generated on 9/12/2016 5:12 PM

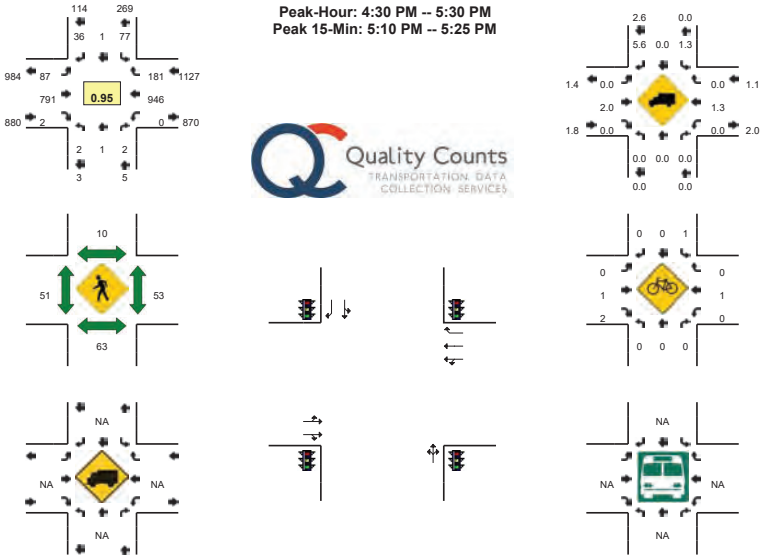
SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

LOCATION: Pua Ln -- N King St
CITY/STATE: Honolulu, HI

QC JOB #: 13874408
DATE: Tue, Aug 30 2016

Peak-Hour: 4:30 PM -- 5:30 PM
Peak 15-Min: 5:10 PM -- 5:25 PM



5-Min Count Period Beginning At	Pua Ln (Northbound)				Pua Ln (Southbound)				N King St (Eastbound)				N King St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	0	0	0	0	4	0	6	0	9	44	0	0	0	71	12	0	146	
4:05 PM	1	0	1	0	3	0	4	0	6	76	0	0	1	72	12	0	176	
4:10 PM	0	0	0	0	5	0	8	0	9	61	1	0	0	95	12	0	191	
4:15 PM	0	0	0	0	5	0	5	0	9	82	0	0	0	66	15	0	182	
4:20 PM	0	0	0	0	3	2	2	0	3	62	0	0	0	72	17	0	161	
4:25 PM	0	0	5	0	4	0	6	0	5	72	0	0	0	78	13	0	183	
4:30 PM	0	0	1	0	8	0	2	0	9	66	0	0	0	73	14	0	173	
4:35 PM	1	0	0	0	4	0	4	0	9	51	1	0	0	74	15	0	159	
4:40 PM	0	0	0	0	7	0	1	0	2	70	1	0	0	93	8	0	182	
4:45 PM	0	0	1	0	6	0	4	0	7	70	0	0	0	62	18	0	168	
4:50 PM	1	0	0	0	8	0	1	0	8	50	0	0	0	86	8	0	162	
4:55 PM	0	0	0	0	5	0	4	0	8	76	0	0	0	75	13	0	181	2064
5:00 PM	0	0	0	0	9	0	4	0	9	54	0	0	0	89	12	0	177	2095
5:05 PM	0	0	0	0	1	0	2	0	7	72	0	0	0	82	17	0	181	2100
5:10 PM	0	0	0	0	12	0	4	0	7	80	0	0	0	73	18	0	194	2103
5:15 PM	0	1	0	0	7	1	4	0	10	61	0	0	0	70	20	0	174	2095
5:20 PM	0	0	0	0	6	0	4	0	2	67	0	0	0	89	22	0	190	2124
5:25 PM	0	0	0	0	4	0	2	0	9	74	0	0	0	80	16	0	185	2126
5:30 PM	1	0	0	0	5	0	4	0	3	62	1	0	0	79	10	0	165	2118
5:35 PM	0	0	0	0	6	0	6	0	7	53	0	0	0	67	6	0	145	2104
5:40 PM	1	0	1	0	2	0	2	0	4	53	0	0	0	93	14	0	170	2092
5:45 PM	0	0	0	0	10	0	3	0	6	64	0	0	0	76	8	0	167	2091
5:50 PM	0	0	0	0	6	0	8	0	6	57	0	0	0	89	7	0	173	2102
5:55 PM	0	0	0	0	1	0	4	0	5	43	0	0	0	74	6	0	133	2054

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	4	0	0	100	4	48	0	76	832	0	0	0	928	240	0	2232
Heavy Trucks	0	0	0		0	0	0		0	12	0		0	4	0		16
Pedestrians		28				12				56				60			156
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad																	
Stopped Buses																	

Comments:

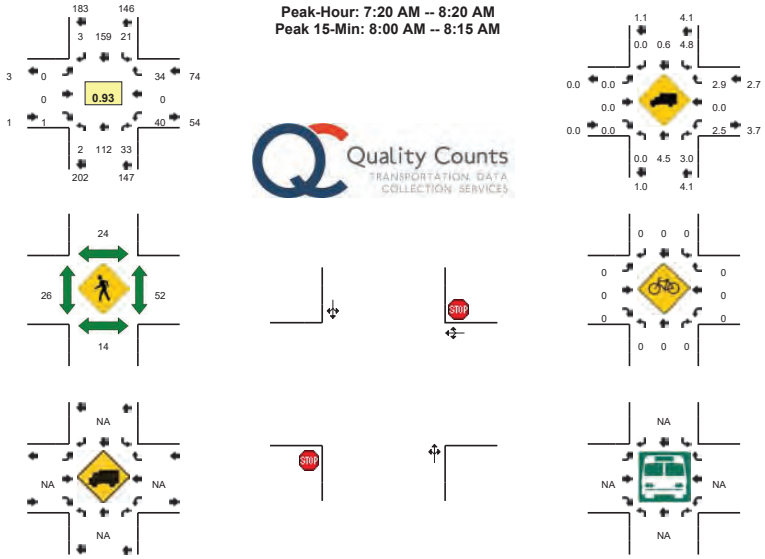
Report generated on 9/12/2016 5:12 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

LOCATION: Pua Ln -- Kukui St
CITY/STATE: Honolulu, HI

QC JOB #: 13874409
DATE: Tue, Aug 30 2016

Peak-Hour: 7:20 AM -- 8:20 AM
Peak 15-Min: 8:00 AM -- 8:15 AM



5-Min Count Period Beginning At	Pua Ln (Northbound)				Pua Ln (Southbound)				Kukui St (Eastbound)				Kukui St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	0	5	1	0	1	7	0	0	0	0	0	0	2	0	0	0	16	
7:05 AM	0	4	2	0	4	7	0	0	0	0	0	0	1	0	0	0	18	
7:10 AM	0	10	1	0	0	7	0	0	0	0	0	0	3	0	1	0	22	
7:15 AM	0	8	2	0	2	7	0	0	0	0	0	0	4	0	6	0	29	
7:20 AM	0	13	1	0	2	17	0	0	0	0	0	0	2	0	9	0	44	
7:25 AM	0	10	2	0	2	5	0	0	0	0	0	0	4	0	6	0	29	
7:30 AM	0	7	3	0	1	14	1	0	0	0	0	0	2	0	0	0	28	
7:35 AM	0	8	2	0	1	8	1	0	0	0	0	0	5	0	1	0	26	
7:40 AM	0	7	3	0	2	11	0	0	0	0	0	0	5	0	2	0	30	
7:45 AM	0	8	5	0	2	20	0	0	0	0	0	0	7	0	1	0	43	
7:50 AM	0	4	1	0	1	21	0	0	0	0	0	0	4	0	4	0	35	
7:55 AM	0	11	1	0	0	9	0	0	0	0	0	0	5	0	3	0	29	349
8:00 AM	0	13	4	0	5	15	0	0	0	0	0	0	2	0	0	0	39	372
8:05 AM	0	11	6	0	0	12	1	0	0	0	0	0	0	0	2	0	32	386
8:10 AM	0	13	3	1	3	12	0	0	0	0	0	0	2	0	4	0	38	402
8:15 AM	0	7	2	1	2	15	0	0	0	0	1	0	2	0	2	0	32	405
8:20 AM	0	9	2	0	1	20	0	0	0	0	0	0	2	0	0	0	34	395
8:25 AM	0	9	2	0	1	15	0	0	0	0	0	0	3	0	1	0	31	397
8:30 AM	0	8	4	0	1	8	0	0	0	0	0	0	6	0	0	0	27	396
8:35 AM	0	14	1	0	3	9	0	0	0	0	0	0	3	0	2	0	32	402
8:40 AM	0	8	1	0	0	8	0	0	0	0	0	0	3	0	0	0	20	392
8:45 AM	0	10	2	0	1	12	0	0	0	0	0	0	2	0	2	0	29	378
8:50 AM	0	7	1	0	1	13	0	0	0	0	0	0	0	0	0	0	22	365
8:55 AM	0	7	2	0	1	7	0	0	0	0	0	0	2	0	1	0	20	356

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	148	52	4	32	156	4	0	0	0	0	0	16	0	24	0	436
Heavy Trucks	0	8	0		4	0	0		0	0	0		0	0	0		12
Pedestrians		8				16				12				24			60
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad																	
Stopped Buses																	

Comments:

Report generated on 9/12/2016 5:12 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

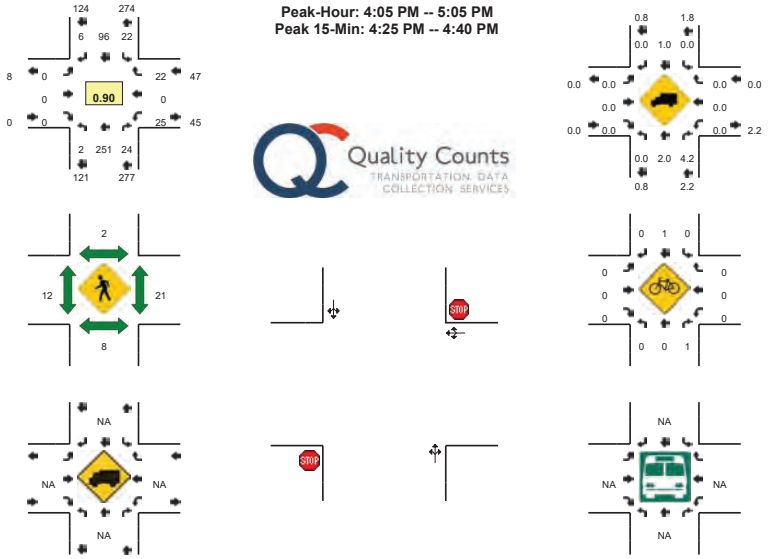
Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: Pua Ln -- Kukui St
CITY/STATE: Honolulu, HI

QC JOB #: 13874410
DATE: Tue, Aug 30 2016

Peak-Hour: 4:05 PM -- 5:05 PM
Peak 15-Min: 4:25 PM -- 4:40 PM



Quality Counts
TRANSPORTATION DATA COLLECTION SERVICES

5-Min Count Period Beginning At	Pua Ln (Northbound)				Pua Ln (Southbound)				Kukui St (Eastbound)				Kukui St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	1	20	2	0	3	8	0	0	0	0	0	0	3	0	1	0	38	
4:05 PM	0	19	0	0	2	7	0	0	0	0	0	0	4	0	2	0	34	
4:10 PM	1	17	2	0	3	11	0	0	0	0	0	0	2	0	5	0	41	
4:15 PM	0	26	1	0	1	7	0	0	0	0	0	0	3	0	2	0	40	
4:20 PM	0	20	3	0	2	6	0	0	0	0	0	0	0	0	1	0	32	
4:25 PM	0	24	3	0	3	12	0	0	0	0	0	0	4	0	3	0	49	
4:30 PM	1	19	3	0	1	11	0	0	0	0	0	0	1	0	3	0	39	
4:35 PM	0	24	2	0	1	7	2	0	0	0	0	0	1	0	0	0	37	
4:40 PM	0	16	1	0	2	6	0	0	0	0	0	0	0	0	1	0	26	
4:45 PM	0	26	2	0	2	9	2	0	0	0	0	0	3	0	1	0	45	
4:50 PM	0	20	3	0	1	9	1	0	0	0	0	0	3	0	1	0	38	
4:55 PM	0	16	0	0	1	7	1	0	0	0	0	0	2	0	1	0	28	447
5:00 PM	0	24	4	0	2	4	0	1	0	0	0	0	2	0	2	0	39	448
5:05 PM	1	20	3	0	2	5	0	0	0	0	1	0	1	0	1	0	34	448
5:10 PM	0	16	6	0	1	8	0	0	0	0	0	0	3	0	3	0	37	444
5:15 PM	0	27	1	0	2	8	0	0	0	0	0	0	1	0	2	0	41	445
5:20 PM	0	22	2	0	0	5	0	0	0	0	0	0	4	0	1	0	34	447
5:25 PM	0	22	3	0	3	5	0	0	0	0	0	0	3	0	3	0	39	437
5:30 PM	0	15	2	1	1	10	0	0	0	0	0	0	1	0	1	0	31	429
5:35 PM	0	12	8	0	1	8	1	0	0	0	0	0	3	0	1	0	34	426
5:40 PM	1	17	4	0	0	11	0	0	0	0	0	0	0	0	2	0	35	435
5:45 PM	1	18	2	0	1	7	1	0	0	0	0	0	1	0	2	0	33	423
5:50 PM	0	14	3	0	1	12	1	0	0	0	0	0	1	0	1	0	33	418
5:55 PM	0	10	1	0	1	3	1	0	0	0	0	0	1	0	1	0	18	408

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	4	268	32	0	20	120	8	0	0	0	0	0	24	0	24	0	500
Heavy Trucks	0	4	0		0	0	0		0	0	0		0	0	0		4
Pedestrians		4				0				20				36			60
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad																	
Stopped Buses																	

Comments:

Report generated on 9/12/2016 5:12 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

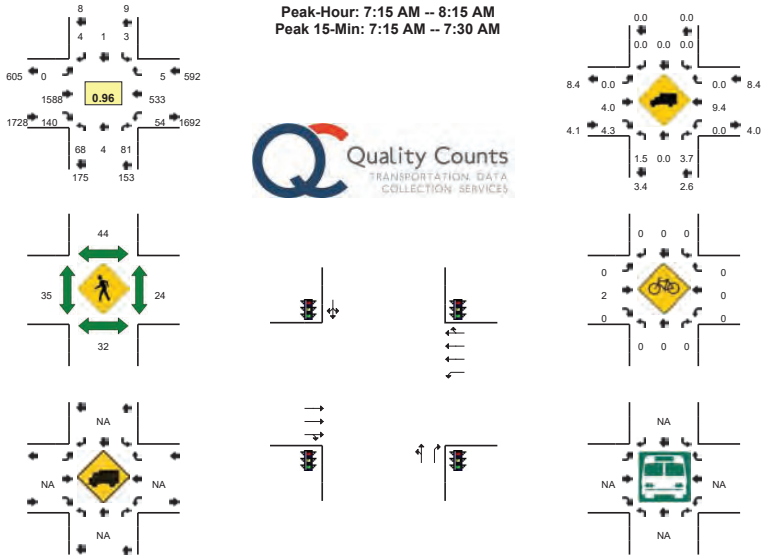
Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: Pua Ln -- N Vineyard Blvd
CITY/STATE: Honolulu, HI

QC JOB #: 13874411
DATE: Tue, Aug 30 2016

Peak-Hour: 7:15 AM -- 8:15 AM
Peak 15-Min: 7:15 AM -- 7:30 AM



Quality Counts
TRANSPORTATION DATA COLLECTION SERVICES

5-Min Count Period Beginning At	Pua Ln (Northbound)				Pua Ln (Southbound)				N Vineyard Blvd (Eastbound)				N Vineyard Blvd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	4	0	2	0	0	0	0	0	0	133	9	0	0	13	0	1	162	
7:05 AM	1	0	1	0	0	1	0	0	0	135	7	1	3	34	0	2	185	
7:10 AM	5	1	6	0	0	0	3	0	0	125	6	0	2	47	0	1	196	
7:15 AM	7	0	10	0	0	0	0	0	0	156	5	0	1	33	0	2	214	
7:20 AM	5	0	11	0	0	0	0	0	0	131	13	0	5	45	0	3	213	
7:25 AM	5	0	11	0	0	0	2	0	0	141	8	0	2	48	0	3	220	
7:30 AM	4	0	4	0	2	0	0	0	0	125	15	0	1	48	0	3	202	
7:35 AM	5	0	6	0	0	0	0	0	0	101	7	0	1	41	1	3	165	
7:40 AM	5	0	7	0	0	0	1	0	0	123	12	0	3	53	0	1	205	
7:45 AM	7	0	4	0	0	0	0	0	0	138	19	0	4	49	1	1	223	
7:50 AM	6	2	2	0	0	0	0	0	0	116	12	0	6	53	0	0	197	
7:55 AM	8	1	5	0	0	1	1	0	0	143	10	0	0	38	1	0	208	2390
8:00 AM	5	1	5	0	0	0	0	0	0	156	13	0	5	49	1	0	235	2463
8:05 AM	2	0	4	0	0	0	0	0	0	138	7	0	5	38	0	3	197	2475
8:10 AM	9	0	12	0	1	0	0	0	0	120	19	0	1	38	1	1	202	2481
8:15 AM	6	0	6	0	0	0	1	0	0	111	17	0	2	36	0	1	180	2447
8:20 AM	4	0	5	0	1	0	0	0	0	123	14	0	3	36	0	0	186	2420
8:25 AM	3	0	8	0	0	0	0	0	0	117	17	0	2	36	0	1	184	2384
8:30 AM	4	0	4	0	0	0	0	0	0	109	5	0	3	35	0	1	161	2343
8:35 AM	5	0	12	0	0	0	1	0	0	136	8	0	2	45	0	1	210	2388
8:40 AM	5	0	5	0	0	2	0	0	0	118	12	0	3	46	1	0	192	2375
8:45 AM	2	0	5	0	0	0	1	0	0	120	6	1	2	39	0	2	178	2330
8:50 AM	6	0	5	0	0	0	0	0	0	115	13	0	3	34	0	0	176	2309
8:55 AM	2	0	7	0	0	0	0	0	0	108	9	0	4	34	0	2	166	2267

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	68	0	128	0	0	0	8	0	0	1712	104	0	32	504	0	32	2588
Heavy Trucks	4	0	0		0	0	0		0	64	0		0	40	0		108
Pedestrians		52				60				24				20			156
Bicycles	0	0	0		0	0	0		0	1	0		0	0	0		1
Railroad																	
Stopped Buses																	

Comments:

Report generated on 9/12/2016 5:12 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

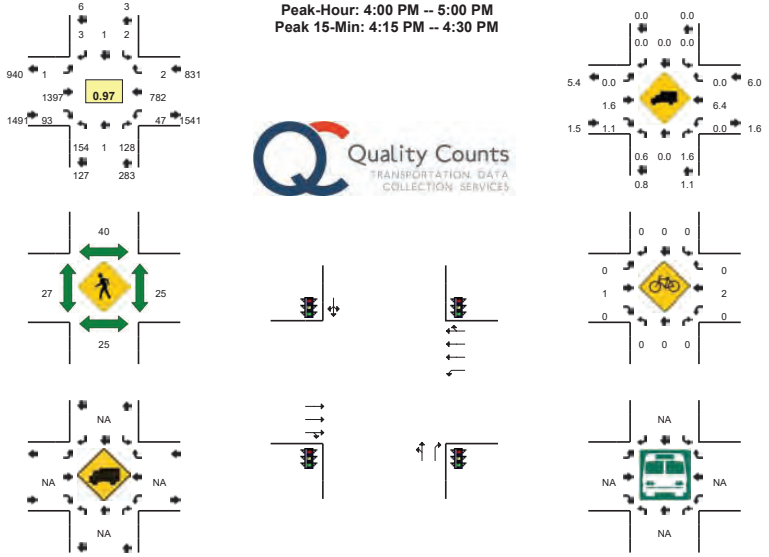
Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: Pua Ln -- N Vineyard Blvd
CITY/STATE: Honolulu, HI

QC JOB #: 13874412
DATE: Tue, Aug 30 2016

Peak-Hour: 4:00 PM -- 5:00 PM
Peak 15-Min: 4:15 PM -- 4:30 PM



5-Min Count Period Beginning At	Pua Ln (Northbound)				Pua Ln (Southbound)				N Vineyard Blvd (Eastbound)				N Vineyard Blvd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	9	0	12	0	1	0	0	0	0	115	10	0	2	79	0	0	228	
4:05 PM	12	0	10	0	0	0	0	0	0	122	4	0	5	60	0	1	214	
4:10 PM	12	0	12	0	0	1	0	0	0	106	8	0	3	66	0	0	208	
4:15 PM	15	0	17	0	0	0	0	0	0	127	7	0	1	51	0	2	220	
4:20 PM	13	1	4	0	0	0	1	0	0	120	6	0	3	77	0	2	227	
4:25 PM	16	0	10	0	0	0	1	0	0	127	10	0	4	61	0	0	229	
4:30 PM	9	0	11	0	0	0	0	0	0	109	8	0	1	61	1	2	202	
4:35 PM	16	0	11	0	0	0	0	0	0	126	11	1	3	52	0	1	221	
4:40 PM	10	0	7	0	1	0	0	0	0	120	9	0	2	67	0	1	217	
4:45 PM	12	0	12	0	0	0	0	0	0	101	5	0	5	63	0	4	202	
4:50 PM	17	0	11	0	0	0	1	0	0	110	8	0	3	84	1	1	236	
4:55 PM	13	0	11	0	0	0	0	0	0	114	7	0	1	61	0	0	207	2611
5:00 PM	15	0	9	0	0	0	1	0	0	118	6	0	2	65	0	2	218	2601
5:05 PM	8	0	5	0	0	1	0	0	0	119	6	0	2	70	1	4	216	2603
5:10 PM	11	0	10	0	0	0	0	0	0	113	6	1	3	70	0	0	214	2609
5:15 PM	19	0	3	0	0	0	0	0	0	105	5	0	5	68	1	0	206	2595
5:20 PM	23	0	10	0	1	0	2	0	0	120	4	0	0	67	0	1	228	2596
5:25 PM	14	0	11	0	0	0	0	0	0	108	7	0	3	76	0	1	220	2587
5:30 PM	12	0	4	0	0	0	0	0	0	110	6	0	3	68	0	0	203	2588
5:35 PM	9	0	4	0	0	0	0	0	0	101	7	0	2	54	0	0	177	2544
5:40 PM	15	0	3	0	0	0	0	0	0	103	9	0	1	65	0	1	197	2524
5:45 PM	5	0	11	0	0	0	0	0	0	123	10	1	1	68	0	2	221	2543
5:50 PM	9	0	4	0	0	0	0	0	1	132	9	1	5	60	0	0	221	2528
5:55 PM	10	0	6	0	0	0	1	0	0	126	8	0	1	63	0	2	217	2538

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	176	4	124	0	0	0	8	0	0	1496	92	0	32	756	0	16	2704
Heavy Trucks	0	0	8		0	0	0		0	28	0		0	64	0		100
Pedestrians		24				84				20				16			144
Bicycles	0	0	0		0	0	0		0	1	0		0	0	0		1
Railroad																	
Stopped Buses																	

Comments:

Report generated on 9/12/2016 5:12 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

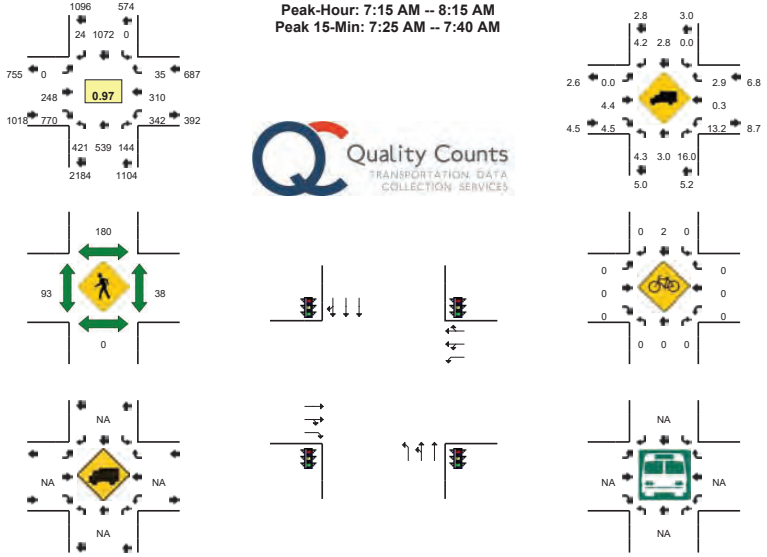
Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: N King St -- Liliha St/Dillingham Blvd
CITY/STATE: Honolulu, HI

QC JOB #: 13874413
DATE: Tue, Aug 30 2016

Peak-Hour: 7:15 AM -- 8:15 AM
Peak 15-Min: 7:25 AM -- 7:40 AM



5-Min Count Period Beginning At	N King St (Northbound)				N King St (Southbound)				Liliha St/Dillingham Blvd (Eastbound)				Liliha St/Dillingham Blvd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	14	29	9	0	0	68	2	0	0	24	48	0	22	22	3	0	241	
7:05 AM	34	16	10	0	0	51	0	0	0	28	66	0	16	15	4	0	240	
7:10 AM	35	57	13	0	0	107	3	0	0	26	40	0	19	17	0	0	317	
7:15 AM	20	44	11	0	0	99	5	0	0	26	72	0	29	25	3	0	334	
7:20 AM	35	30	6	0	0	57	0	0	0	32	77	0	40	19	1	0	297	
7:25 AM	45	53	17	0	0	118	3	0	0	13	76	0	17	14	3	0	359	
7:30 AM	16	47	16	0	0	94	2	0	0	19	58	0	31	31	3	0	317	
7:35 AM	46	34	16	0	0	68	1	0	0	24	73	0	39	30	2	0	333	
7:40 AM	35	56	10	0	0	111	0	0	0	9	59	0	33	25	2	0	340	
7:45 AM	20	44	7	0	0	110	3	0	0	23	66	0	29	21	4	0	327	
7:50 AM	37	49	13	0	0	95	1	0	0	13	44	0	29	31	2	0	314	
7:55 AM	53	46	9	0	0	70	2	0	0	27	69	0	21	14	1	0	312	3731
8:00 AM	22	48	12	0	0	91	5	0	0	30	69	0	34	33	4	0	348	3838
8:05 AM	47	35	14	0	0	55	0	0	0	19	58	0	24	43	8	0	303	3901
8:10 AM	45	53	13	0	0	104	2	0	0	13	49	0	16	24	2	0	321	3905
8:15 AM	21	50	10	0	0	86	1	0	0	9	48	0	30	49	2	0	306	3877
8:20 AM	47	33	18	0	0	38	4	0	0	34	52	0	30	51	4	0	311	3891
8:25 AM	43	54	15	0	0	83	6	0	0	12	44	0	19	25	2	0	303	3835
8:30 AM	27	42	12	0	0	74	1	0	0	23	50	0	30	44	3	0	306	3824
8:35 AM	34	38	13	0	0	29	1	0	0	36	53	0	19	33	1	0	257	3748
8:40 AM	44	53	10	0	0	57	2	0	0	27	42	0	15	21	3	0	274	3682
8:45 AM	19	35	24	0	0	55	2	0	0	23	35	0	26	32	3	0	254	3609
8:50 AM	47	32	17	0	0	29	2	0	0	36	47	0	23	46	0	0	279	3574
8:55 AM	43	40	12	0	0	51	3	0	0	24	34	0	13	19	5	0	244	3506

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	428	536	196	0	0	1120	24	0	0	224	828	0	348	300	32	0	4036
Heavy Trucks	16	20	32		0	36	4		0	16	32		32	0	4		192
Pedestrians		0				164				120				0			284
Bicycles	0	0	0		0	2	0		0	0	0		0	0	0		2
Railroad																	
Stopped Buses																	

Comments:

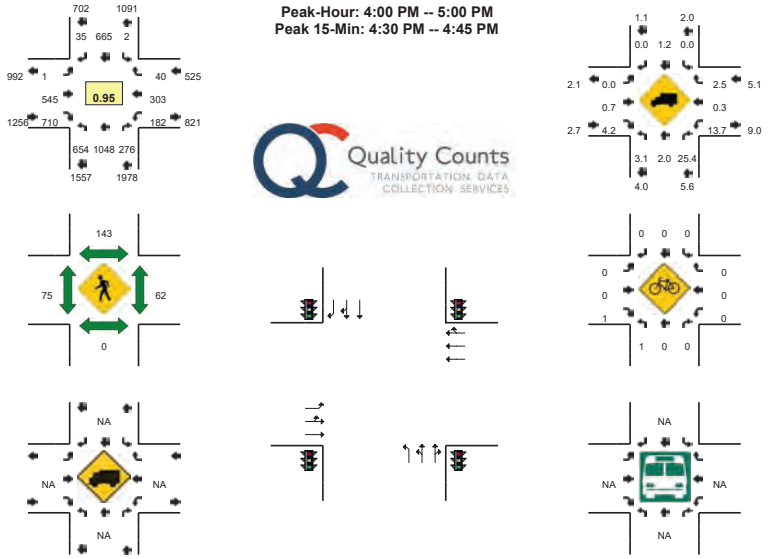
Report generated on 9/12/2016 5:12 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

LOCATION: N King St -- Liliha St/Dillingham Blvd | **QC JOB #:** 13874414
CITY/STATE: Honolulu, HI | **DATE:** Tue, Aug 30 2016

Peak-Hour: 4:00 PM -- 5:00 PM
Peak 15-Min: 4:30 PM -- 4:45 PM



Quality Counts
TRANSPORTATION DATA COLLECTION SERVICES

5-Min Count Period Beginning At	N King St (Northbound)				N King St (Southbound)				Liliha St/Dillingham Blvd (Eastbound)				Liliha St/Dillingham Blvd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	53	92	18	0	0	50	2	0	0	53	65	0	9	24	5	0	371	
4:05 PM	54	84	23	0	0	60	1	0	0	50	68	0	15	29	4	0	388	
4:10 PM	50	89	16	0	0	62	4	0	0	48	57	0	17	36	3	0	382	
4:15 PM	60	84	19	0	0	57	2	0	0	40	55	0	8	25	3	0	353	
4:20 PM	61	76	25	0	0	56	3	2	0	41	72	0	12	20	7	0	375	
4:25 PM	54	85	30	0	0	53	1	0	1	24	46	0	25	29	1	0	349	
4:30 PM	54	90	27	0	0	62	4	0	0	56	54	0	17	29	2	0	395	
4:35 PM	62	86	16	0	0	59	3	0	0	55	63	0	18	26	0	0	388	
4:40 PM	53	107	27	0	0	46	5	0	0	54	50	0	20	20	3	0	385	
4:45 PM	49	78	20	0	0	50	6	0	0	42	65	0	12	28	3	0	353	
4:50 PM	54	93	17	0	0	57	2	0	0	39	53	0	14	19	2	0	350	
4:55 PM	50	84	38	0	0	53	2	0	0	43	62	0	15	18	7	0	372	4461
5:00 PM	50	101	12	0	0	54	2	0	0	46	46	0	19	25	2	0	357	4447
5:05 PM	54	103	15	0	0	54	3	0	0	50	61	0	16	29	3	0	388	4447
5:10 PM	58	87	18	0	0	56	3	0	0	44	61	0	17	32	1	0	377	4442
5:15 PM	58	93	13	0	0	63	2	0	0	40	46	0	11	26	0	0	352	4441
5:20 PM	50	107	18	0	0	63	1	0	0	38	58	0	13	29	1	0	378	4444
5:25 PM	44	97	21	0	0	61	3	0	0	41	61	0	11	25	1	0	365	4460
5:30 PM	50	84	19	0	0	61	1	0	0	47	63	0	12	24	3	0	364	4429
5:35 PM	51	81	15	0	0	46	2	0	0	53	71	0	18	26	3	0	366	4407
5:40 PM	50	99	17	0	0	46	2	0	0	50	58	0	14	22	0	0	358	4380
5:45 PM	45	90	19	0	0	48	2	0	0	52	55	0	16	28	2	0	357	4384
5:50 PM	38	83	16	0	0	51	0	0	0	39	35	0	18	21	3	0	304	4338
5:55 PM	48	76	18	0	0	43	2	0	0	42	65	0	16	19	6	0	335	4301

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	676	1132	280	0	0	668	48	0	0	660	668	0	220	300	20	0	4672
Heavy Trucks	36	24	68		0	12	0		0	4	20		24	0	0		188
Pedestrians		0				120				76				60			256
Bicycles	0	0	0		0	0	0		0	0	1		0	0	0		1
Railroad																	
Stopped Buses																	

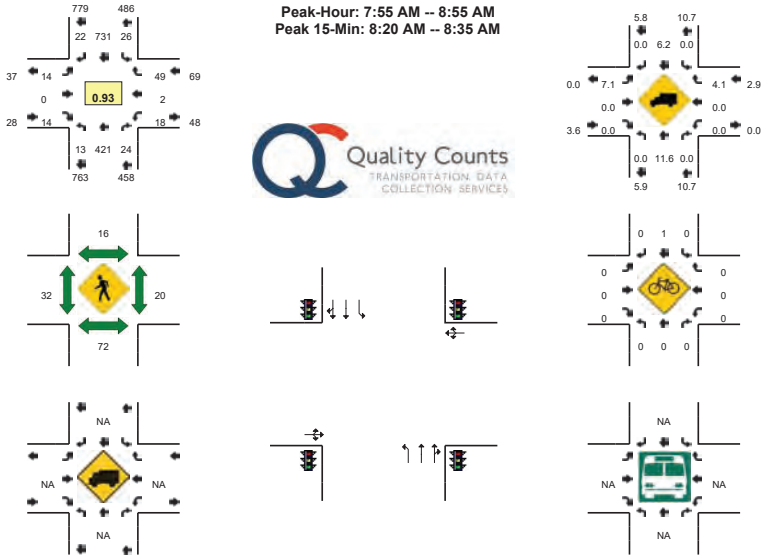
Comments:

Report generated on 9/12/2016 5:12 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

LOCATION: Liliha St -- Kukui St | **QC JOB #:** 13874415
CITY/STATE: Honolulu, HI | **DATE:** Tue, Aug 30 2016

Peak-Hour: 7:55 AM -- 8:55 AM
Peak 15-Min: 8:20 AM -- 8:35 AM



Quality Counts
TRANSPORTATION DATA COLLECTION SERVICES

5-Min Count Period Beginning At	Liliha St (Northbound)				Liliha St (Southbound)				Kukui St (Eastbound)				Kukui St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	0	39	1	0	0	40	1	0	1	0	0	0	3	0	0	0	85	
7:05 AM	0	19	0	0	2	27	1	0	1	0	1	0	3	0	3	0	57	
7:10 AM	0	47	1	0	2	57	2	0	1	0	2	0	1	0	4	0	117	
7:15 AM	2	37	1	0	0	53	0	0	0	0	4	0	0	0	4	0	101	
7:20 AM	0	20	2	0	2	47	0	0	1	0	5	0	1	0	3	0	81	
7:25 AM	0	44	3	0	0	51	1	0	3	1	1	0	1	0	2	0	107	
7:30 AM	3	33	1	0	2	59	0	0	1	1	0	0	4	0	4	0	108	
7:35 AM	1	25	1	0	1	49	0	0	4	0	2	0	1	0	4	0	88	
7:40 AM	0	27	2	0	1	71	3	0	1	1	0	0	2	0	7	0	115	
7:45 AM	0	39	0	0	1	54	2	0	5	0	1	0	1	0	7	0	110	
7:50 AM	0	25	1	0	3	52	0	0	2	1	2	0	3	0	6	0	95	
7:55 AM	1	29	0	0	6	63	1	1	0	0	1	0	1	0	5	0	108	1172
8:00 AM	1	37	1	0	2	53	3	0	0	0	0	0	1	0	4	0	102	1189
8:05 AM	0	29	4	0	2	74	2	0	3	0	2	0	1	0	4	0	121	1253
8:10 AM	0	33	2	0	2	61	4	0	0	0	0	0	2	0	6	0	110	1246
8:15 AM	1	20	1	0	5	73	2	1	2	0	2	0	2	0	6	0	115	1260
8:20 AM	0	30	3	0	2	72	1	0	0	0	1	0	5	0	7	0	121	1300
8:25 AM	3	38	5	0	0	63	3	0	1	0	2	0	1	0	1	0	117	1310
8:30 AM	2	41	1	0	1	66	2	0	1	0	1	0	1	0	3	0	119	1321
8:35 AM	0	31	0	0	1	39	1	0	4	0	1	0	1	0	2	0	80	1313
8:40 AM	1	50	0	0	0	59	1	0	1	0	1	0	0	0	3	0	116	1314
8:45 AM	2	40	3	0	1	55	1	0	1	0	0	0	2	0	4	0	109	1313
8:50 AM	2	43	4	0	2	53	1	0	1	0	3	0	1	2	4	0	116	1334
8:55 AM	0	35	2	0	3	35	1	0	2	1	2	0	3	0	5	0	89	1315

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	20	436	36	0	12	804	24	0	8	0	16	0	28	0	44	0	1428
Heavy Trucks	0	52	0		0	36	0		0	0	0		0	0	0		88
Pedestrians		60				16				4				8			88
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad																	
Stopped Buses																	

Comments:

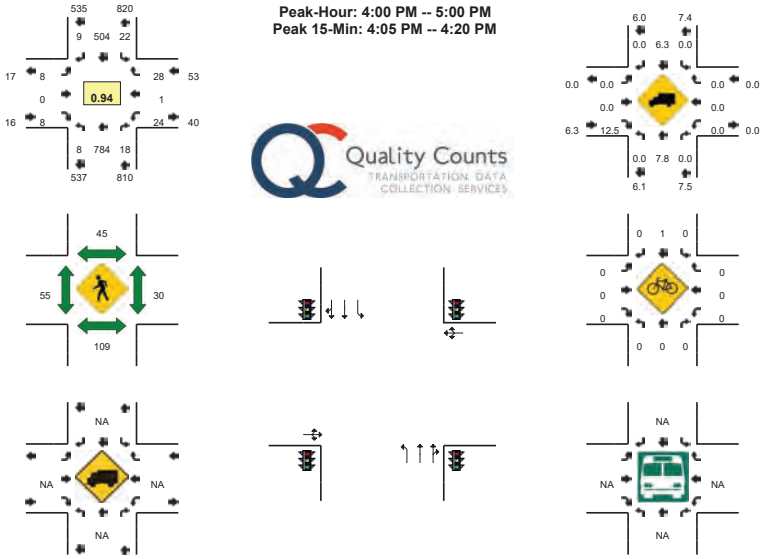
Report generated on 9/12/2016 5:12 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

LOCATION: Liliha St -- Kukui St
CITY/STATE: Honolulu, HI

QC JOB #: 13874416
DATE: Tue, Aug 30 2016

Peak-Hour: 4:00 PM -- 5:00 PM
Peak 15-Min: 4:05 PM -- 4:20 PM



Quality Counts
TRANSPORTATION DATA COLLECTION SERVICES

5-Min Count Period Beginning At	Liliha St (Northbound)				Liliha St (Southbound)				Kukui St (Eastbound)				Kukui St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	0	69	1	0	2	39	1	0	0	0	1	0	0	0	2	0	115	
4:05 PM	0	59	0	0	3	53	0	0	1	0	0	0	5	0	2	0	123	
4:10 PM	3	61	6	0	2	48	0	0	1	0	0	0	1	1	2	0	125	
4:15 PM	0	71	2	0	1	46	2	0	1	0	1	0	0	0	3	0	127	
4:20 PM	0	60	1	0	3	31	0	0	0	0	2	0	4	0	3	0	104	
4:25 PM	1	57	1	0	2	29	0	0	2	0	1	0	3	0	3	0	99	
4:30 PM	0	75	0	1	0	51	0	0	0	0	0	0	5	0	1	0	133	
4:35 PM	2	67	0	0	3	43	0	0	0	0	1	0	0	0	2	0	118	
4:40 PM	1	64	2	0	2	42	1	0	0	0	1	0	0	0	2	0	115	
4:45 PM	0	68	4	0	0	45	2	0	1	0	1	0	2	0	4	0	127	
4:50 PM	0	68	0	0	2	34	2	0	2	0	0	0	1	0	0	0	109	
4:55 PM	0	65	1	0	2	43	1	0	0	0	0	0	3	0	4	0	119	1414
5:00 PM	0	47	1	0	1	29	0	0	0	0	2	0	5	0	2	0	87	1386
5:05 PM	1	80	0	0	1	56	2	0	0	0	0	0	1	0	5	0	146	1409
5:10 PM	1	49	3	0	2	45	0	0	0	0	2	0	0	0	3	0	105	1389
5:15 PM	1	50	1	0	4	32	0	0	2	0	1	0	2	0	0	0	93	1355
5:20 PM	2	69	4	0	1	43	1	0	0	0	0	0	0	1	0	0	121	1372
5:25 PM	0	68	0	0	5	31	2	0	0	1	3	0	0	0	4	0	114	1387
5:30 PM	0	71	3	0	2	53	2	0	0	0	0	0	0	0	2	0	133	1387
5:35 PM	0	64	4	0	1	45	0	0	0	0	0	0	3	0	0	0	117	1386
5:40 PM	0	77	1	0	5	37	0	0	0	0	1	0	1	0	3	0	125	1396
5:45 PM	1	50	1	0	3	31	0	0	1	0	1	0	3	1	1	0	93	1362
5:50 PM	1	66	2	0	2	37	0	0	0	0	0	0	1	1	3	0	113	1366
5:55 PM	0	60	3	0	4	35	3	0	1	0	1	0	1	0	6	0	114	1361

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	12	764	32	0	24	588	8	0	12	0	4	0	24	4	28	0	1500
Heavy Trucks	0	48	0		0	28	0		0	0	0		0	0	0		76
Pedestrians		104				60				44				20			228
Bicycles	0	0	0		0	1	0		0	0	0		0	0	0		1
Railroad																	
Stopped Buses																	

Comments:

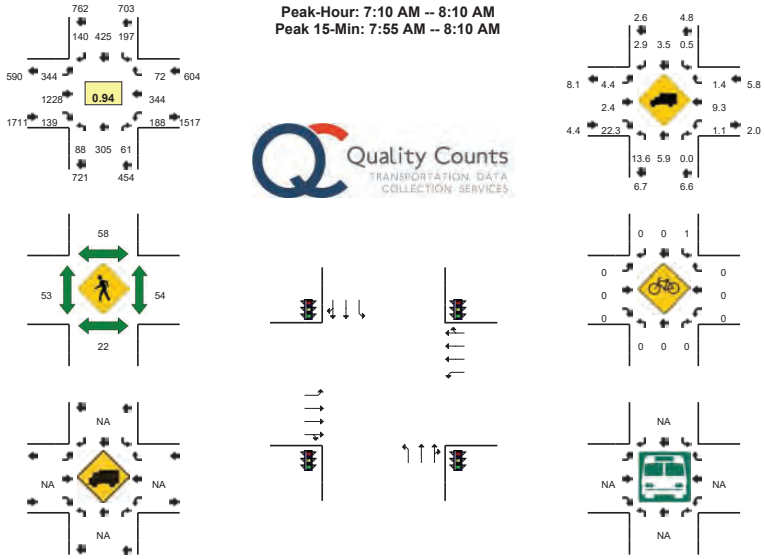
Report generated on 9/12/2016 5:12 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

LOCATION: Liliha St -- N Vineyard Blvd
CITY/STATE: Honolulu, HI

QC JOB #: 13874417
DATE: Tue, Aug 30 2016

Peak-Hour: 7:10 AM -- 8:10 AM
Peak 15-Min: 7:55 AM -- 8:10 AM



Quality Counts
TRANSPORTATION DATA COLLECTION SERVICES

5-Min Count Period Beginning At	Liliha St (Northbound)				Liliha St (Southbound)				N Vineyard Blvd (Eastbound)				N Vineyard Blvd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	0	36	4	0	16	17	1	0	17	114	13	2	8	14	4	2	248	
7:05 AM	4	25	5	0	18	30	6	0	17	112	6	0	3	25	8	2	261	
7:10 AM	9	17	2	0	18	28	10	0	21	120	12	2	13	24	3	2	281	
7:15 AM	7	25	8	0	17	27	16	0	30	108	14	2	10	16	3	4	287	
7:20 AM	2	25	6	0	12	40	12	0	35	135	5	2	8	34	4	4	324	
7:25 AM	8	34	8	0	19	33	13	0	25	94	8	0	11	19	9	0	281	
7:30 AM	7	19	3	0	17	38	12	0	26	81	11	2	18	26	9	2	271	
7:35 AM	9	31	6	0	18	44	10	0	25	65	7	2	16	25	5	1	264	
7:40 AM	9	21	7	0	19	41	8	0	23	97	15	2	8	42	12	0	304	
7:45 AM	10	33	6	0	21	29	16	0	21	107	9	0	13	33	2	0	300	
7:50 AM	9	13	2	0	19	23	14	0	27	97	13	1	18	36	6	5	283	
7:55 AM	6	27	6	0	16	40	5	0	29	115	19	2	10	33	4	6	318	3422
8:00 AM	6	26	4	0	5	39	12	0	34	130	12	1	14	34	5	5	327	3501
8:05 AM	6	34	3	0	16	43	12	0	30	79	14	2	18	22	10	2	291	3531
8:10 AM	10	26	4	0	16	41	10	0	29	85	14	2	18	14	5	4	278	3528
8:15 AM	12	12	2	0	13	51	6	0	24	80	17	0	18	29	5	4	273	3514
8:20 AM	9	31	4	0	16	40	6	0	24	97	16	0	16	25	5	2	291	3481
8:25 AM	4	33	4	0	14	36	11	0	30	89	12	1	14	27	7	4	286	3486
8:30 AM	12	23	3	0	15	24	8	0	30	83	18	2	18	22	7	4	269	3484
8:35 AM	9	24	9	0	10	12	8	0	25	96	17	3	13	29	7	2	264	3484
8:40 AM	8	29	9	0	3	34	10	0	31	100	12	4	16	28	5	3	292	3472
8:45 AM	8	19	5	0	11	28	7	0	20	72	7	5	13	19	3	0	217	3389
8:50 AM	10	45	6	0	12	34	10	0	19	83	15	0	21	23	5	4	287	3393
8:55 AM	7	34	9	0	10	23	6	0	15	79	10	3	9	21	7	4	237	3312

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	72	348	52	0	148	488	116	0	372	1296	180	20	168	356	76	52	3744
Heavy Trucks	16	24	0		4	20	0		8	52	24		0	24	4		176
Pedestrians		28				96				52				128			304
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad																	
Stopped Buses																	

Comments:

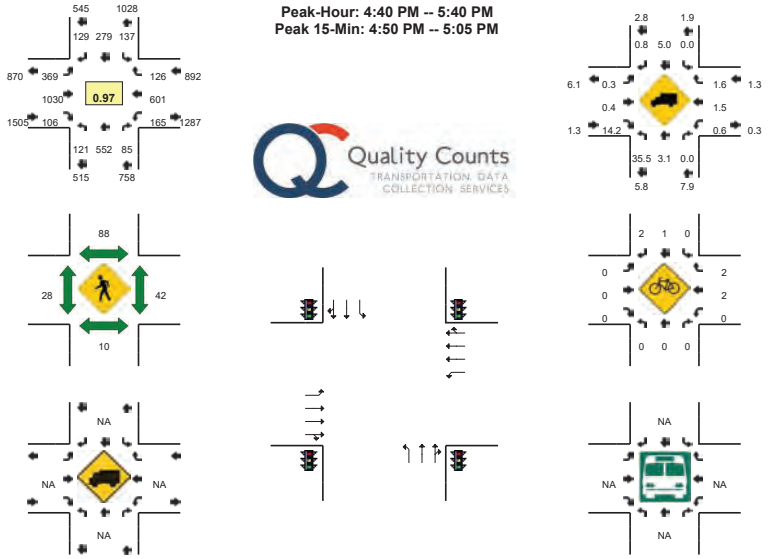
Report generated on 9/12/2016 5:12 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

LOCATION: Liliha St -- N Vineyard Blvd
CITY/STATE: Honolulu, HI

QC JOB #: 13874418
DATE: Tue, Aug 30 2016

Peak-Hour: 4:40 PM -- 5:40 PM
Peak 15-Min: 4:50 PM -- 5:05 PM



Quality Counts
TRANSPORTATION DATA COLLECTION SERVICES

5-Min Count Period Beginning At	Liliha St (Northbound)				Liliha St (Southbound)				N Vineyard Blvd (Eastbound)				N Vineyard Blvd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	19	48	6	0	6	26	8	0	30	92	9	0	9	50	3	2	308	
4:05 PM	7	40	4	0	9	21	7	0	32	89	12	2	20	48	11	1	303	
4:10 PM	5	42	7	0	10	16	9	0	31	88	9	1	15	54	7	0	294	
4:15 PM	8	52	11	0	8	28	15	0	37	96	8	0	10	43	3	6	325	
4:20 PM	11	48	8	0	10	23	11	0	26	94	3	1	6	52	6	0	299	
4:25 PM	12	56	6	0	14	29	10	0	29	76	10	4	13	28	6	1	294	
4:30 PM	19	44	10	0	14	27	5	0	21	62	9	3	11	40	11	1	277	
4:35 PM	8	56	11	0	11	23	13	0	26	79	11	2	11	41	5	2	299	
4:40 PM	11	44	8	0	10	19	5	0	33	104	5	1	9	55	9	4	317	
4:45 PM	10	35	9	0	12	30	8	0	21	88	10	3	13	48	9	5	301	
4:50 PM	16	35	9	0	9	10	9	0	21	99	13	2	11	67	11	2	314	
4:55 PM	10	46	9	0	13	24	10	0	30	89	12	4	7	45	12	3	314	3645
5:00 PM	10	58	6	0	10	29	18	0	37	79	9	1	13	45	9	2	326	3663
5:05 PM	8	45	8	0	13	22	9	0	33	71	10	1	11	34	9	0	274	3634
5:10 PM	9	43	5	0	12	27	14	0	24	78	7	2	14	51	10	1	297	3637
5:15 PM	5	61	6	0	11	26	17	0	24	72	5	2	6	54	13	5	307	3619
5:20 PM	8	59	5	0	10	22	10	0	25	94	5	1	11	51	11	3	315	3635
5:25 PM	15	41	5	0	10	19	4	0	32	84	11	0	10	54	10	3	298	3639
5:30 PM	10	35	4	0	17	21	15	0	33	83	7	1	14	47	11	3	301	3663
5:35 PM	9	50	11	0	10	30	10	0	37	89	12	1	11	50	12	4	336	3700
5:40 PM	11	49	4	0	9	21	6	0	19	64	8	0	11	37	4	6	249	3632
5:45 PM	11	63	3	0	7	25	11	0	31	74	10	2	11	38	6	1	293	3624
5:50 PM	9	47	10	0	9	17	14	0	30	78	16	3	8	42	8	1	292	3602
5:55 PM	17	46	10	0	8	20	8	0	19	76	12	3	9	39	6	3	276	3564

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	144	556	96	0	128	252	148	0	352	1068	136	28	124	628	128	28	3816
Heavy Trucks	64	12	0		0	12	0		0	12	12		4	20	4		140
Pedestrians		16				88				36				36			176
Bicycles	0	0	0		0	0	2		0	0	0		0	2	0		4
Railroad																	
Stopped Buses																	

Comments:

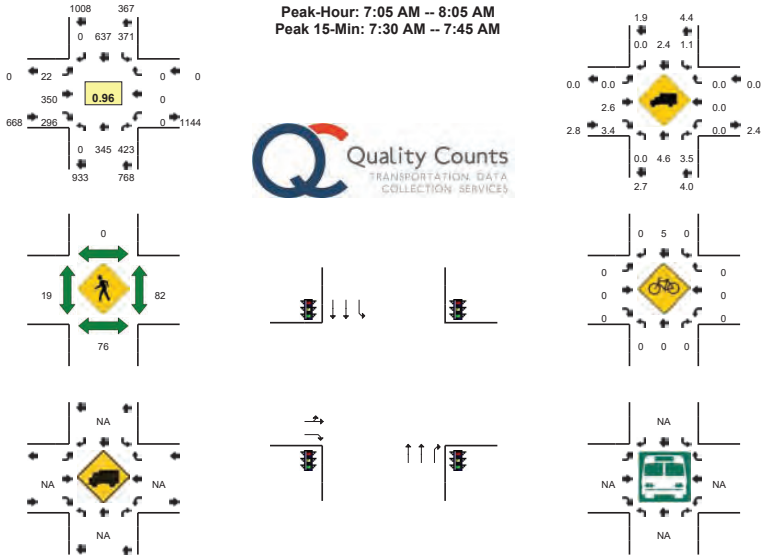
Report generated on 9/12/2016 5:12 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

LOCATION: Liliha St -- Kiapu Pl
CITY/STATE: Honolulu, HI

QC JOB #: 13874419
DATE: Tue, Aug 30 2016

Peak-Hour: 7:05 AM -- 8:05 AM
Peak 15-Min: 7:30 AM -- 7:45 AM



Quality Counts
TRANSPORTATION DATA COLLECTION SERVICES

5-Min Count Period Beginning At	Liliha St (Northbound)				Liliha St (Southbound)				Kiapu Pl (Eastbound)				Kiapu Pl (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	0	35	39	0	24	21	0	0	3	42	24	0	0	0	0	0	188	
7:05 AM	0	18	38	0	36	35	0	0	2	38	32	0	0	0	0	0	199	
7:10 AM	0	22	44	0	34	49	0	0	1	29	29	0	0	0	0	0	208	
7:15 AM	0	41	34	0	29	49	0	0	0	34	23	0	0	0	0	0	210	
7:20 AM	0	26	34	0	30	52	0	0	0	21	30	0	0	0	0	0	193	
7:25 AM	0	41	40	0	25	47	0	0	0	19	31	0	0	0	0	0	203	
7:30 AM	0	28	36	0	31	61	0	0	1	24	28	0	0	0	0	0	209	
7:35 AM	0	32	41	0	28	48	0	0	2	29	38	0	0	0	0	0	218	
7:40 AM	0	26	43	0	30	50	0	0	4	21	37	0	0	0	0	0	211	
7:45 AM	0	25	22	0	29	48	0	0	1	28	16	0	0	0	0	0	169	
7:50 AM	0	25	29	0	36	73	0	0	3	41	4	0	0	0	0	0	211	
7:55 AM	0	30	31	0	31	60	0	0	7	36	20	0	0	0	0	0	215	2434
8:00 AM	0	31	31	0	32	65	0	0	1	30	8	0	0	0	0	0	198	2444
8:05 AM	0	35	36	0	27	58	0	0	2	20	14	0	0	0	0	0	192	2437
8:10 AM	0	25	35	0	19	58	0	0	3	34	17	0	0	0	0	0	191	2420
8:15 AM	0	22	27	0	26	54	0	0	2	39	20	0	0	0	0	0	190	2400
8:20 AM	0	38	22	0	21	34	0	0	2	41	31	0	0	0	0	0	189	2396
8:25 AM	0	39	32	0	13	31	0	0	8	37	13	0	0	0	0	0	173	2366
8:30 AM	0	43	18	0	21	38	0	0	4	26	15	0	0	0	0	0	165	2322
8:35 AM	0	24	27	0	14	39	0	0	6	27	14	0	0	0	0	0	151	2255
8:40 AM	0	41	24	0	18	35	0	0	3	30	8	0	0	0	0	0	159	2203
8:45 AM	0	24	20	0	10	33	0	0	7	30	18	0	0	0	0	0	142	2176
8:50 AM	0	39	20	0	13	40	0	0	4	15	8	0	0	0	0	0	139	2104
8:55 AM	0	27	28	0	9	35	0	0	3	21	8	0	0	0	0	0	131	2020

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	344	480	0	356	636	0	0	28	296	412	0	0	0	0	0	2552
Heavy Trucks	0	32	12		4	16	0		0	20	4		0	0	0		88
Pedestrians		88				0				28				68			184
Bicycles	0	0	0		0	1	0		0	0	0		0	0	0		1
Railroad																	
Stopped Buses																	

Comments:

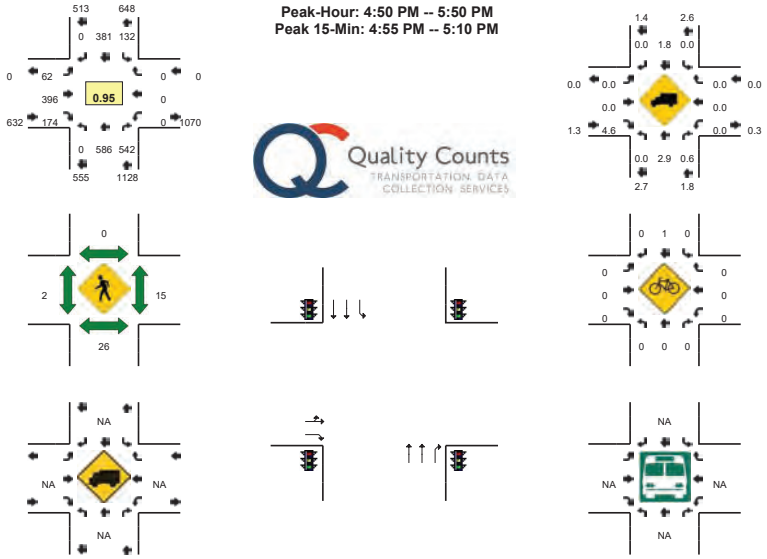
Report generated on 9/12/2016 5:12 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

LOCATION: Liliha St -- Kiapu Pl
CITY/STATE: Honolulu, HI

QC JOB #: 13874420
DATE: Tue, Aug 30 2016

Peak-Hour: 4:50 PM -- 5:50 PM
Peak 15-Min: 4:55 PM -- 5:10 PM



5-Min Count Period Beginning At	Liliha St (Northbound)				Liliha St (Southbound)				Kiapu Pl (Eastbound)				Kiapu Pl (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	0	33	52	0	11	38	0	0	5	32	8	0	0	0	0	0	179	
4:05 PM	0	50	34	0	13	39	0	0	4	42	6	0	0	0	0	0	188	
4:10 PM	0	33	49	0	13	32	0	0	5	41	12	0	0	0	0	0	185	
4:15 PM	0	41	44	0	14	44	0	0	5	28	4	0	0	0	0	0	180	
4:20 PM	0	51	49	0	16	39	0	0	3	25	6	0	0	0	0	0	189	
4:25 PM	0	31	40	0	15	36	0	0	6	36	18	0	0	0	0	0	182	
4:30 PM	0	38	44	0	11	38	0	0	7	37	14	0	0	0	0	0	189	
4:35 PM	0	43	45	0	14	32	0	0	5	33	12	0	0	0	0	0	184	
4:40 PM	0	34	49	0	12	25	0	0	4	30	15	0	0	0	0	0	169	
4:45 PM	0	36	36	0	17	28	0	0	4	28	13	0	0	0	0	0	162	
4:50 PM	0	52	28	0	12	28	0	0	5	42	19	0	0	0	0	0	186	
4:55 PM	0	59	54	0	8	45	0	0	1	24	17	0	0	0	0	0	208	2201
5:00 PM	0	52	46	0	11	33	0	0	4	43	13	0	0	0	0	0	202	2224
5:05 PM	0	37	41	0	10	39	0	0	9	37	15	0	0	0	0	0	188	2224
5:10 PM	0	44	43	0	17	22	0	0	7	38	10	0	0	0	0	0	181	2220
5:15 PM	0	50	44	0	9	39	0	0	4	25	17	0	0	0	0	0	188	2228
5:20 PM	0	51	53	0	11	20	0	0	5	31	16	0	0	0	0	0	187	2226
5:25 PM	0	39	45	0	10	35	0	0	3	36	15	0	0	0	0	0	183	2227
5:30 PM	0	56	45	0	10	32	0	0	8	24	18	0	0	0	0	0	193	2231
5:35 PM	0	57	49	0	13	38	0	0	4	24	9	0	0	0	0	0	194	2241
5:40 PM	0	35	45	0	15	23	0	0	7	41	13	0	0	0	0	0	179	2251
5:45 PM	0	54	49	0	6	27	0	0	5	31	12	0	0	0	0	0	184	2273
5:50 PM	0	50	39	0	24	33	0	0	4	24	11	0	0	0	0	0	185	2272
5:55 PM	0	37	39	0	7	36	0	0	2	28	3	0	0	0	0	0	152	2216

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	592	564	0	116	468	0	0	56	416	180	0	0	0	0	0	2392
Heavy Trucks	0	16	4		0	4	0		0	0	4		0	0	0		28
Pedestrians		20				0				0				8			28
Bicycles	0	0	0		0	1	0		0	0	0		0	0	0		1
Railroad																	
Stopped Buses																	

Comments:

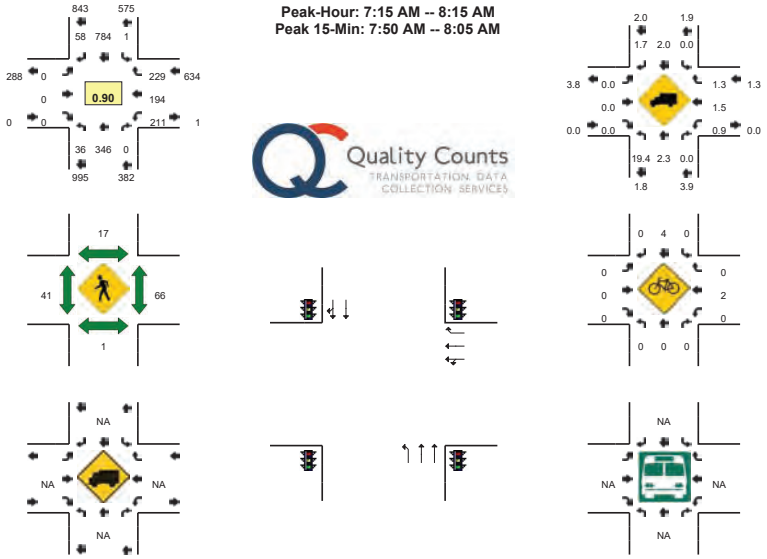
Report generated on 9/12/2016 5:12 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

LOCATION: Liliha St -- N School St
CITY/STATE: Honolulu, HI

QC JOB #: 13874421
DATE: Tue, Aug 30 2016

Peak-Hour: 7:15 AM -- 8:15 AM
Peak 15-Min: 7:50 AM -- 8:05 AM



5-Min Count Period Beginning At	Liliha St (Northbound)				Liliha St (Southbound)				N School St (Eastbound)				N School St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	3	34	0	0	0	36	6	0	0	0	0	0	10	17	17	0	123	
7:05 AM	1	22	0	0	0	59	2	0	0	0	0	0	15	7	13	0	119	
7:10 AM	1	23	0	0	0	55	2	0	0	0	0	0	26	10	14	0	131	
7:15 AM	4	34	0	0	0	66	5	0	0	0	0	0	20	12	17	0	158	
7:20 AM	1	28	0	0	0	60	2	0	0	0	0	0	20	19	16	0	146	
7:25 AM	1	41	0	0	0	51	5	0	0	0	0	0	13	18	19	0	148	
7:30 AM	4	25	0	0	0	74	2	0	0	0	0	0	14	9	16	0	144	
7:35 AM	6	27	0	0	0	61	3	0	0	0	0	0	15	23	23	0	158	
7:40 AM	5	25	0	0	0	75	8	0	0	0	0	0	16	19	15	0	163	
7:45 AM	1	19	0	0	0	60	4	0	0	0	0	0	14	14	21	0	133	
7:50 AM	1	28	0	0	0	85	2	0	0	0	0	0	18	18	25	0	177	
7:55 AM	2	31	0	0	0	72	8	0	0	0	0	0	21	14	20	0	168	1768
8:00 AM	2	33	0	0	1	79	6	0	0	0	0	0	18	20	13	0	172	1817
8:05 AM	5	30	0	0	0	53	8	0	0	0	0	0	16	14	16	0	142	1840
8:10 AM	4	25	0	0	0	48	5	0	0	0	0	0	26	14	28	0	150	1859
8:15 AM	3	22	0	0	0	55	5	0	0	0	0	0	23	13	25	0	146	1847
8:20 AM	4	36	0	0	0	37	5	0	0	0	0	0	21	10	19	0	132	1833
8:25 AM	4	43	0	0	0	36	6	0	0	0	0	0	15	17	17	0	138	1823
8:30 AM	5	41	0	0	0	34	6	0	0	0	0	0	13	9	14	0	122	1801
8:35 AM	2	30	0	0	0	38	6	0	0	0	0	0	18	15	24	0	133	1776
8:40 AM	5	41	0	0	0	34	3	0	0	0	0	0	19	22	16	0	140	1753
8:45 AM	4	26	0	0	0	33	2	0	0	0	0	0	12	18	18	0	113	1733
8:50 AM	5	37	0	0	0	37	2	0	0	0	0	0	14	14	23	0	132	1688
8:55 AM	3	27	2	0	0	28	6	0	0	0	0	0	19	5	21	0	111	1631

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	20	368	0	0	4	944	64	0	0	0	0	0	228	208	232	0	2068
Heavy Trucks	0	0	0		0	16	0		0	0	0		0	4	0		20
Pedestrians		0				20				32				64			116
Bicycles	0	0	0		0	1	0		0	0	0		0	0	0		1
Railroad																	
Stopped Buses																	

Comments:

Report generated on 9/12/2016 5:12 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

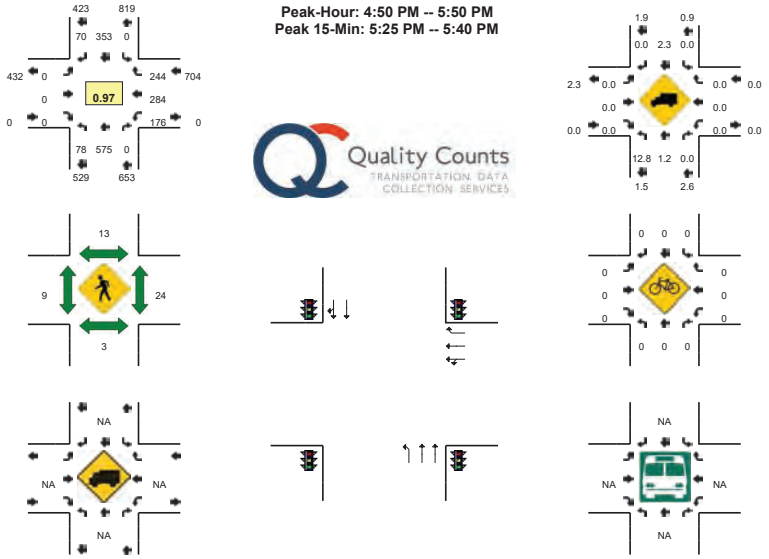
Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: Liliha St -- N School St
CITY/STATE: Honolulu, HI

QC JOB #: 13874422
DATE: Tue, Aug 30 2016

Peak-Hour: 4:50 PM -- 5:50 PM
Peak 15-Min: 5:25 PM -- 5:40 PM



5-Min Count Period Beginning At	Liliha St (Northbound)				Liliha St (Southbound)				N School St (Eastbound)				N School St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	5	37	0	0	0	34	6	0	0	0	0	0	17	31	19	0	149	
4:05 PM	6	51	0	0	0	30	6	0	0	0	0	0	16	22	20	0	151	
4:10 PM	3	34	0	0	0	28	6	0	0	0	0	0	22	28	18	0	139	
4:15 PM	5	38	0	0	0	39	7	0	0	0	0	0	17	25	18	0	149	
4:20 PM	5	56	0	0	0	32	3	0	0	0	0	0	21	9	13	0	139	
4:25 PM	4	36	0	0	0	31	3	0	0	0	0	0	21	22	20	0	137	
4:30 PM	4	41	0	0	0	34	9	0	0	0	0	0	19	26	26	0	159	
4:35 PM	2	39	0	0	0	35	8	0	0	0	0	0	5	13	19	0	121	
4:40 PM	2	39	0	0	0	35	8	0	0	0	0	0	5	12	19	0	120	
4:45 PM	4	36	0	0	0	30	7	0	0	0	0	0	15	18	16	0	126	
4:50 PM	5	48	0	0	0	29	4	0	0	0	0	0	15	27	18	0	146	
4:55 PM	9	56	0	0	0	31	4	0	0	0	0	0	12	19	15	0	146	1682
5:00 PM	11	47	0	0	0	32	6	0	0	0	0	0	15	17	16	0	144	1677
5:05 PM	6	39	0	0	0	26	7	0	0	0	0	0	15	33	19	0	145	1671
5:10 PM	2	45	0	0	0	28	5	0	0	0	0	0	19	20	32	0	151	1683
5:15 PM	7	46	0	0	0	36	5	0	0	0	0	0	11	29	15	0	149	1683
5:20 PM	5	53	0	0	0	27	14	0	0	0	0	0	10	19	25	0	153	1697
5:25 PM	8	36	0	0	0	20	5	0	0	0	0	0	20	22	21	0	132	1692
5:30 PM	2	62	0	0	0	34	6	0	0	0	0	0	13	23	22	0	162	1695
5:35 PM	9	53	0	0	0	37	2	0	0	0	0	0	17	25	21	0	164	1738
5:40 PM	9	35	0	0	0	25	7	0	0	0	0	0	14	23	17	0	130	1748
5:45 PM	5	55	0	0	0	28	5	0	0	0	0	0	15	27	23	0	158	1780
5:50 PM	4	48	0	0	0	36	5	0	0	0	0	0	16	14	15	0	138	1772
5:55 PM	3	40	0	0	0	26	4	0	0	0	0	0	12	15	21	0	121	1747

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	76	604	0	0	0	364	52	0	0	0	0	0	200	280	256	0	1832
Heavy Trucks	8	16	0		0	12	0		0	0	0		0	0	0		36
Pedestrians		0				12				4				16			32
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad																	
Stopped Buses																	

Comments:

Report generated on 9/12/2016 5:12 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

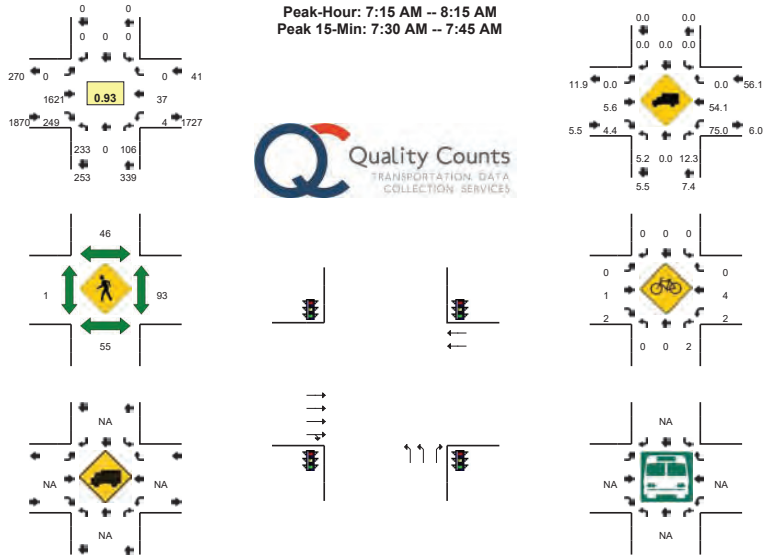
Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: Iwilei Rd -- N King St
CITY/STATE: Honolulu, HI

QC JOB #: 13874423
DATE: Tue, Aug 30 2016

Peak-Hour: 7:15 AM -- 8:15 AM
Peak 15-Min: 7:30 AM -- 7:45 AM



5-Min Count Period Beginning At	Iwilei Rd (Northbound)				Iwilei Rd (Southbound)				N King St (Eastbound)				N King St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	12	0	7	0	0	0	0	0	0	95	17	0	1	2	0	0	134	
7:05 AM	13	0	9	0	0	0	0	0	0	122	15	0	0	3	0	0	162	
7:10 AM	13	0	4	0	0	0	0	0	0	126	14	0	0	2	0	0	159	
7:15 AM	10	0	8	0	0	0	0	0	0	143	18	0	0	4	0	0	183	
7:20 AM	15	0	8	0	0	0	0	0	0	150	22	0	0	3	0	0	198	
7:25 AM	16	0	10	0	0	0	0	0	0	144	12	0	0	4	0	0	186	
7:30 AM	28	0	11	0	0	0	0	0	0	147	11	0	0	2	0	0	199	
7:35 AM	16	0	6	0	0	0	0	0	0	150	25	0	2	3	0	0	202	
7:40 AM	23	0	17	0	0	0	0	0	0	137	24	0	0	3	0	0	204	
7:45 AM	20	0	7	0	0	0	0	0	0	139	14	0	0	1	0	0	181	
7:50 AM	25	0	10	0	0	0	0	0	0	138	17	0	1	0	0	0	191	
7:55 AM	23	0	10	0	0	0	0	0	0	121	22	0	0	0	0	0	176	2175
8:00 AM	19	0	4	0	0	0	0	0	0	133	21	0	0	7	0	0	184	2225
8:05 AM	14	0	7	0	0	0	0	0	0	110	38	0	0	4	0	0	173	2236
8:10 AM	24	0	8	0	0	0	0	0	0	109	25	0	1	6	0	0	173	2250
8:15 AM	17	0	10	0	0	0	0	0	0	123	26	0	0	3	0	0	179	2246
8:20 AM	27	0	6	0	0	0	0	0	0	103	23	0	0	0	0	0	159	2207
8:25 AM	20	0	8	0	0	0	0	0	0	110	21	0	0	8	0	0	167	2188
8:30 AM	21	0	11	0	0	0	0	0	0	94	28	0	0	5	0	0	159	2148
8:35 AM	30	0	8	0	0	0	0	0	0	84	14	0	2	3	0	0	141	2087
8:40 AM	17	0	13	0	0	0	0	0	0	83	21	0	0	4	0	0	138	2021
8:45 AM	25	0	14	0	0	0	0	0	0	71	12	0	0	4	0	0	126	1966
8:50 AM	7	0	9	0	0	0	0	0	0	76	25	0	1	2	0	0	120	1895
8:55 AM	23	0	11	0	0	0	0	0	0	74	19	0	0	1	0	0	128	1847

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	268	0	136	0	0	0	0	0	0	1736	240	0	8	32	0	0	2420
Heavy Trucks	8	0	20		0	0	0		0	92	16		4	12	0		152
Pedestrians		44				8				0				88			140
Bicycles	0	0	0		0	0	0		0	1	0		1	3	0		5
Railroad																	
Stopped Buses																	

Comments:

Report generated on 9/12/2016 5:12 PM

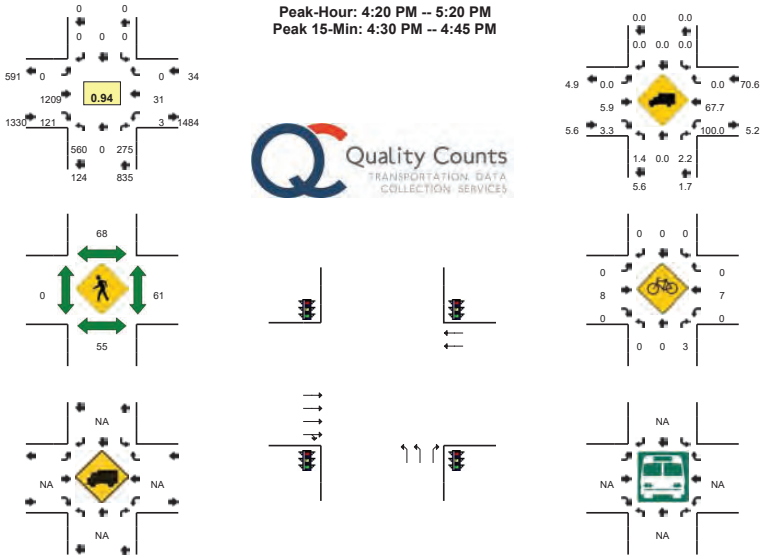
SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

LOCATION: Iwilei Rd -- N King St
CITY/STATE: Honolulu, HI

QC JOB #: 13874424
DATE: Tue, Aug 30 2016

Peak-Hour: 4:20 PM -- 5:20 PM
Peak 15-Min: 4:30 PM -- 4:45 PM



5-Min Count Period Beginning At	Iwilei Rd (Northbound)				Iwilei Rd (Southbound)				N King St (Eastbound)				N King St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	45	0	15	0	0	0	0	0	0	101	11	0	0	3	0	0	175	
4:05 PM	57	0	20	0	0	0	0	0	0	118	15	0	0	3	0	0	213	
4:10 PM	44	0	27	0	0	0	0	0	0	89	7	0	0	1	0	0	168	
4:15 PM	37	0	22	0	0	0	0	0	0	104	8	0	0	2	0	0	173	
4:20 PM	43	0	24	0	0	0	0	0	0	108	12	0	1	6	0	0	194	
4:25 PM	48	0	20	0	0	0	0	0	0	82	14	0	0	0	0	0	164	
4:30 PM	52	0	25	0	0	0	0	0	0	104	11	0	0	6	0	0	198	
4:35 PM	41	0	26	0	0	0	0	0	0	130	7	0	0	2	0	0	206	
4:40 PM	58	0	35	0	0	0	0	0	0	76	9	0	0	0	0	0	178	
4:45 PM	40	0	21	0	0	0	0	0	0	106	9	0	0	4	0	0	180	
4:50 PM	41	0	19	0	0	0	0	0	0	106	11	0	1	1	0	0	179	
4:55 PM	55	0	11	0	0	0	0	0	0	86	7	0	0	4	0	0	163	2191
5:00 PM	33	0	22	0	0	0	0	0	0	106	6	0	0	3	0	0	170	2186
5:05 PM	49	0	18	0	0	0	0	0	0	107	17	0	0	1	0	0	192	2165
5:10 PM	56	0	39	0	0	0	0	0	0	90	6	0	1	1	0	0	193	2190
5:15 PM	44	0	15	0	0	0	0	0	0	108	12	0	0	3	0	0	182	2199
5:20 PM	48	0	16	0	0	0	0	0	0	104	13	0	0	2	0	0	183	2188
5:25 PM	43	0	20	0	0	0	0	0	0	89	4	0	0	1	0	0	157	2181
5:30 PM	41	0	14	0	0	0	0	0	0	106	15	0	0	7	0	0	183	2166
5:35 PM	28	0	7	0	0	0	0	0	0	108	9	0	1	3	0	0	156	2116
5:40 PM	40	0	18	0	0	0	0	0	0	85	7	0	0	4	0	0	154	2092
5:45 PM	36	0	19	0	0	0	0	0	0	101	6	0	0	1	0	0	163	2075
5:50 PM	32	0	8	0	0	0	0	0	0	91	9	0	1	2	0	0	143	2039
5:55 PM	55	0	15	0	0	0	0	0	0	77	13	0	0	3	0	0	163	2039

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	604	0	344	0	0	0	0	0	0	1240	108	0	0	32	0	0	2328
Heavy Trucks	8	0	0		0	0	0		0	72	0		0	28	0		108
Pedestrians		72				96				0				76			244
Bicycles	0	0	0		0	0	0		0	2	0		0	4	0		6
Railroad Stopped Buses																	

Comments:

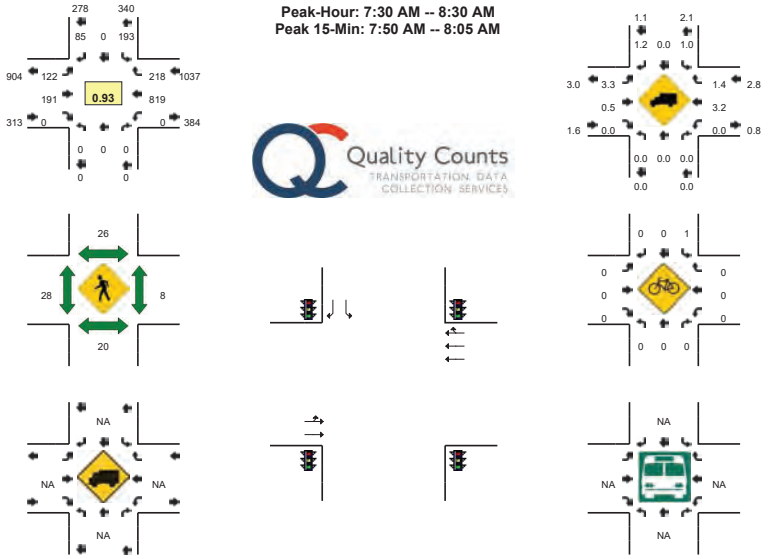
Report generated on 9/12/2016 5:12 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

LOCATION: Aala St -- N Beretania St
CITY/STATE: Honolulu, HI

QC JOB #: 13874425
DATE: Tue, Aug 30 2016

Peak-Hour: 7:30 AM -- 8:30 AM
Peak 15-Min: 7:50 AM -- 8:05 AM



5-Min Count Period Beginning At	Aala St (Northbound)				Aala St (Southbound)				N Beretania St (Eastbound)				N Beretania St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	0	0	0	0	6	0	3	0	6	13	0	0	0	46	9	0	83	
7:05 AM	0	0	0	0	11	0	6	0	9	7	0	0	0	61	14	0	108	
7:10 AM	0	0	0	0	11	0	4	0	11	8	0	0	0	58	9	0	101	
7:15 AM	0	0	0	0	9	0	10	0	11	13	0	0	0	67	14	0	124	
7:20 AM	0	0	0	0	12	0	5	0	11	10	0	0	0	63	13	0	114	
7:25 AM	0	0	0	0	15	0	8	0	11	21	0	0	0	54	16	0	125	
7:30 AM	0	0	0	0	12	0	10	0	12	18	0	0	0	64	18	0	134	
7:35 AM	0	0	0	0	9	0	3	0	10	12	0	0	0	56	19	0	109	
7:40 AM	0	0	0	0	18	0	5	0	12	17	0	0	0	62	19	0	133	
7:45 AM	0	0	0	0	19	0	7	0	9	22	0	0	0	69	13	0	139	
7:50 AM	0	0	0	0	20	0	11	0	10	23	0	0	0	72	12	0	148	
7:55 AM	0	0	0	0	15	0	4	0	4	18	0	0	0	66	26	0	133	1451
8:00 AM	0	0	0	0	16	0	7	0	12	21	0	0	0	87	15	0	158	1526
8:05 AM	0	0	0	0	15	0	8	0	15	15	0	0	0	69	20	0	142	1560
8:10 AM	0	0	0	0	21	0	11	0	7	7	0	0	0	62	23	0	131	1590
8:15 AM	0	0	0	0	8	0	4	0	14	14	0	0	0	73	20	0	133	1599
8:20 AM	0	0	0	0	19	0	8	0	9	15	0	0	0	71	17	0	139	1624
8:25 AM	0	0	0	0	21	0	7	0	8	9	0	0	0	68	16	0	129	1628
8:30 AM	0	0	0	0	11	0	4	0	8	19	0	0	0	55	20	0	117	1611
8:35 AM	0	0	0	0	12	0	4	0	13	12	0	0	0	55	10	0	106	1608
8:40 AM	0	0	0	0	17	0	4	0	8	2	0	0	0	65	19	0	115	1590
8:45 AM	0	0	0	0	12	0	5	0	8	8	0	0	0	65	17	0	115	1566
8:50 AM	0	0	0	0	10	0	6	0	7	9	0	0	0	56	12	0	100	1518
8:55 AM	0	0	0	0	5	0	5	0	6	7	0	0	0	70	22	0	115	1500

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	0	0	0	204	0	88	0	104	248	0	0	0	900	212	0	1756
Heavy Trucks	0	0	0		0	0	0		0	0	0		0	20	8		28
Pedestrians		20				24				44				20			108
Bicycles	0	0	0		1	0	0		0	0	0		0	0	0		1
Railroad Stopped Buses																	

Comments:

Report generated on 9/12/2016 5:12 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

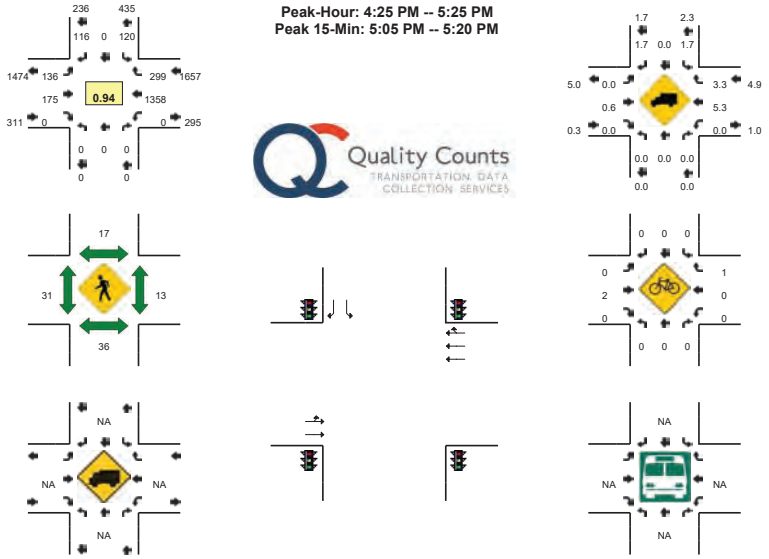
Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: Aala St -- N Beretania St
CITY/STATE: Honolulu, HI

QC JOB #: 13874426
DATE: Tue, Aug 30 2016

Peak-Hour: 4:25 PM -- 5:25 PM
Peak 15-Min: 5:05 PM -- 5:20 PM



Quality Counts
TRANSPORTATION DATA COLLECTION SERVICES

5-Min Count Period Beginning At	Aala St (Northbound)				Aala St (Southbound)				N Beretania St (Eastbound)				N Beretania St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	0	0	0	0	6	0	9	0	13	13	0	0	0	108	18	0	167	
4:05 PM	0	0	0	0	11	0	9	0	16	11	0	0	0	81	21	0	149	
4:10 PM	0	0	0	0	11	0	11	0	4	12	0	0	0	145	27	0	210	
4:15 PM	0	0	0	0	6	0	10	0	16	11	0	0	0	117	21	0	181	
4:20 PM	0	0	0	0	5	0	6	0	19	12	0	0	0	91	21	0	154	
4:25 PM	0	0	0	0	13	0	11	0	15	17	0	0	0	124	23	0	203	
4:30 PM	0	0	0	0	11	0	12	0	12	10	0	0	0	110	22	0	177	
4:35 PM	0	0	0	0	9	0	5	0	12	12	0	0	0	105	28	0	171	
4:40 PM	0	0	0	0	4	0	11	0	10	10	0	0	0	122	27	0	184	
4:45 PM	0	0	0	0	9	0	8	0	16	16	0	0	0	114	26	0	189	
4:50 PM	0	0	0	0	8	0	11	0	15	15	0	0	0	98	23	0	170	
4:55 PM	0	0	0	0	9	0	7	0	15	14	0	0	0	123	27	0	195	2150
5:00 PM	0	0	0	0	12	0	12	0	6	7	0	0	0	113	14	0	164	2147
5:05 PM	0	0	0	0	6	0	10	0	11	16	0	0	0	119	27	0	189	2187
5:10 PM	0	0	0	0	15	0	11	0	7	19	0	0	0	120	28	0	200	2177
5:15 PM	0	0	0	0	14	0	10	0	11	18	0	0	0	114	28	0	195	2191
5:20 PM	0	0	0	0	10	0	8	0	6	21	0	0	0	96	26	0	167	2204
5:25 PM	0	0	0	0	8	0	9	0	14	17	0	0	0	123	18	0	189	2190
5:30 PM	0	0	0	0	8	0	9	0	14	18	0	0	0	89	18	0	156	2169
5:35 PM	0	0	0	0	14	0	14	0	15	11	0	0	0	101	13	0	168	2166
5:40 PM	0	0	0	0	11	0	13	0	8	18	0	0	0	144	25	0	219	2201
5:45 PM	0	0	0	0	10	0	8	0	7	8	0	0	0	92	27	0	152	2164
5:50 PM	0	0	0	0	12	0	8	0	17	9	0	0	0	92	22	0	160	2154
5:55 PM	0	0	0	0	7	0	6	0	9	13	0	0	0	117	25	0	177	2136

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	0	0	0	140	0	124	0	116	212	0	0	0	1412	332	0	2336
Heavy Trucks	0	0	0		4	0	0		0	0	0		0	44	8		56
Pedestrians		48				4				32				12			96
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad																	
Stopped Buses																	

Comments:

Report generated on 9/12/2016 5:12 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

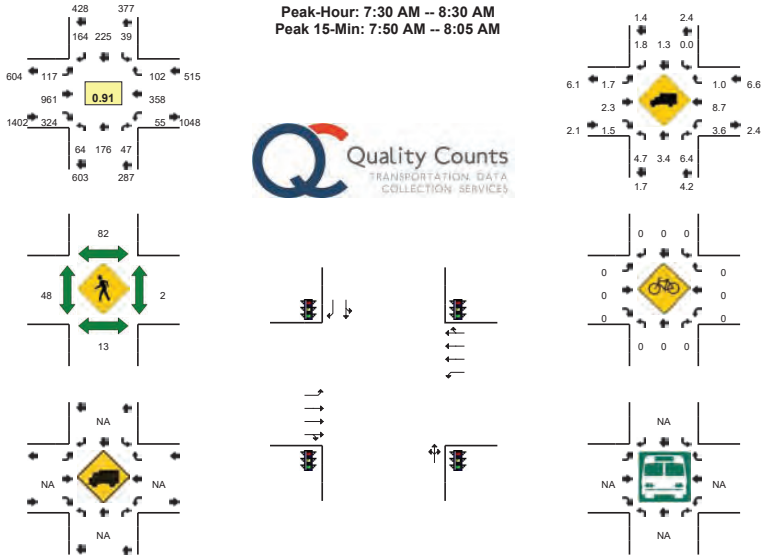
Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: Aala St -- N Vineyard Blvd
CITY/STATE: Honolulu, HI

QC JOB #: 13874427
DATE: Tue, Aug 30 2016

Peak-Hour: 7:30 AM -- 8:30 AM
Peak 15-Min: 7:50 AM -- 8:05 AM



Quality Counts
TRANSPORTATION DATA COLLECTION SERVICES

5-Min Count Period Beginning At	Aala St (Northbound)				Aala St (Southbound)				N Vineyard Blvd (Eastbound)				N Vineyard Blvd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	2	11	2	0	5	8	4	0	6	111	13	2	0	16	5	0	185	
7:05 AM	2	12	4	0	4	11	8	0	2	125	13	1	0	31	3	0	216	
7:10 AM	2	6	3	0	3	2	8	0	3	111	23	2	1	24	3	0	191	
7:15 AM	4	16	9	0	3	14	15	0	4	90	19	0	1	9	8	1	193	
7:20 AM	5	12	8	0	3	15	7	0	11	92	36	3	3	32	10	0	237	
7:25 AM	6	15	4	0	0	20	12	0	9	62	14	3	3	27	9	0	184	
7:30 AM	4	21	7	0	5	15	9	0	7	52	18	0	8	32	8	0	186	
7:35 AM	5	16	5	0	4	18	17	0	3	76	25	2	2	28	12	0	213	
7:40 AM	4	18	3	0	2	17	12	0	3	86	24	2	2	36	8	0	217	
7:45 AM	2	12	0	0	1	15	16	0	12	91	33	0	0	33	7	0	222	
7:50 AM	7	12	3	0	2	17	11	0	13	89	36	2	8	33	9	0	242	
7:55 AM	6	16	1	0	5	21	14	0	8	83	34	1	4	27	11	0	231	2517
8:00 AM	9	16	1	0	4	23	12	0	11	97	33	1	8	31	8	0	254	2586
8:05 AM	5	14	6	0	2	25	14	0	12	74	21	1	7	40	8	0	229	2599
8:10 AM	7	6	1	0	4	22	20	0	14	79	31	2	4	22	10	0	222	2630
8:15 AM	6	14	8	0	3	20	15	0	1	72	24	3	5	14	3	0	188	2625
8:20 AM	4	16	5	0	6	19	10	0	4	81	28	2	2	33	6	0	216	2604
8:25 AM	5	15	7	0	1	13	14	0	11	81	17	2	4	29	12	1	212	2632
8:30 AM	4	5	3	0	4	6	19	0	4	71	22	3	0	29	10	0	180	2626
8:35 AM	8	11	6	0	3	20	10	0	8	75	20	1	2	26	4	2	196	2609
8:40 AM	10	17	3	0	5	17	10	0	11	79	15	1	6	24	4	0	202	2594
8:45 AM	7	16	8	0	3	12	10	0	11	68	15	2	2	28	5	1	188	2560
8:50 AM	5	11	9	0	2	9	17	0	5	78	14	3	2	18	8	0	181	2499
8:55 AM	7	12	3	0	3	22	6	0	5	94	16	1	2	23	5	0	199	2467

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	88	176	20	0	44	244	148	0	128	1076	412	16	80	364	112	0	2908
Heavy Trucks	0	4	4		0	0	4		0	20	4		4	12	4		56
Pedestrians		16				96				44				0			156
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad																	
Stopped Buses																	

Comments:

Report generated on 9/12/2016 5:12 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

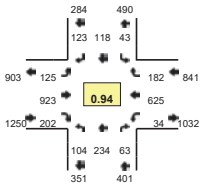
Type of peak hour being reported: Intersection Peak

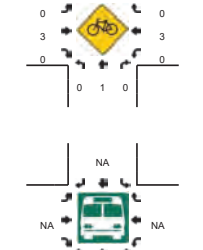
Method for determining peak hour: Total Entering Volume

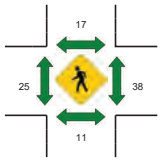
LOCATION: Aala St -- N Vineyard Blvd
CITY/STATE: Honolulu, HI

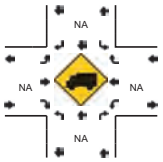
QC JOB #: 13874428
DATE: Tue, Aug 30 2016

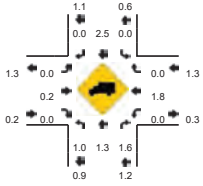
Peak-Hour: 4:40 PM -- 5:40 PM
Peak 15-Min: 5:00 PM -- 5:15 PM











5-Min Count Period Beginning At	Aala St (Northbound)				Aala St (Southbound)				N Vineyard Blvd (Eastbound)				N Vineyard Blvd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	10	17	7	0	7	12	7	0	6	78	11	0	3	50	16	2	226	
4:05 PM	5	14	10	0	5	9	10	0	1	88	11	0	3	62	12	0	230	
4:10 PM	7	20	6	0	7	4	12	0	10	84	18	2	2	46	10	1	229	
4:15 PM	8	13	9	0	5	3	12	0	6	99	17	1	3	39	18	0	233	
4:20 PM	9	17	7	0	3	10	5	0	5	101	14	1	0	55	13	0	240	
4:25 PM	8	16	6	0	8	10	11	0	11	60	17	3	2	45	18	0	215	
4:30 PM	13	21	5	0	4	11	9	0	8	81	16	2	2	35	6	1	214	
4:35 PM	10	18	7	0	5	8	6	0	3	88	14	1	0	48	13	0	221	
4:40 PM	12	19	4	0	2	14	8	0	8	75	16	2	3	57	11	0	231	
4:45 PM	8	27	4	0	5	11	7	0	6	85	21	4	2	56	11	0	247	
4:50 PM	4	19	5	0	2	11	14	0	3	86	11	6	4	53	19	0	237	
4:55 PM	10	16	4	0	1	9	5	0	4	56	15	5	2	48	9	0	184	2707
5:00 PM	10	25	6	0	2	11	12	0	7	77	20	6	1	56	18	0	251	2732
5:05 PM	8	15	7	0	6	12	11	0	11	72	21	5	1	49	22	0	240	2742
5:10 PM	8	25	3	0	7	10	16	0	7	77	15	9	2	60	7	0	246	2759
5:15 PM	13	18	5	0	4	10	4	0	7	55	16	5	4	41	20	0	202	2728
5:20 PM	11	24	5	0	2	8	13	0	6	77	17	2	1	52	16	0	234	2722
5:25 PM	9	19	4	0	5	6	9	0	3	89	13	4	1	55	12	2	231	2738
5:30 PM	4	15	7	0	2	11	12	0	8	83	21	2	5	51	21	0	242	2766
5:35 PM	7	12	9	0	5	5	12	0	4	91	16	1	5	47	16	1	231	2776
5:40 PM	11	17	4	0	4	8	5	0	6	61	11	2	1	45	15	0	190	2735
5:45 PM	10	24	3	0	5	11	4	0	5	66	10	2	0	58	17	0	215	2703
5:50 PM	13	15	9	0	4	6	6	0	2	89	16	0	3	34	11	0	208	2674
5:55 PM	7	19	4	0	4	9	8	0	5	88	11	3	1	22	6	0	187	2677

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	104	260	64	0	60	132	156	0	100	904	224	80	16	660	188	0	2948
Heavy Trucks	0	0	0		0	4	0		0	4	0		0	20	0		28
Pedestrians		16				16				36				76			144
Bicycles	0	1	0		0	0	0		0	1	0		0	1	0		3
Railroad Stopped Buses																	

Comments:

Report generated on 9/12/2016 5:13 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

APPENDIX B: EXISTING LOS WORKSHEETS

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	33	844	484	285	443	18	222	5	191	0	0	0
Future Volume (veh/h)	33	844	484	285	443	18	222	5	191	0	0	0
Number	7	4	14	3	8	18	5	2	12			
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.89	1.00		0.86			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	1863	1810	1810	1863	1828	1900	1727	1734	1810			
Adj Flow Rate, veh/h	35	898	264	303	471	14	240	0	93			
Adj No. of Lanes	1	2	1	1	2	0	2	0	1			
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94			
Percent Heavy Veh, %	2	5	5	2	4	4	10	0	5			
Cap, veh/h	73	1621	707	332	2088	62	674	0	272			
Arrive On Green	0.04	0.47	0.47	0.19	0.61	0.61	0.20	0.00	0.20			
Sat Flow, veh/h	1774	3438	1499	1774	3431	102	3290	0	1329			
Grp Volume(v), veh/h	35	898	264	303	238	247	240	0	93			
Grp Sat Flow(s),veh/h/ln	1774	1719	1499	1774	1737	1796	1645	0	1329			
Q Serve(g_s), s	2.2	21.2	12.8	19.0	7.0	7.1	7.1	0.0	6.8			
Cycle Q Clear(g_c), s	2.2	21.2	12.8	19.0	7.0	7.1	7.1	0.0	6.8			
Prop In Lane	1.00		1.00	1.00		0.06	1.00		1.00			
Lane Grp Cap(c), veh/h	73	1621	707	332	1057	1093	674	0	272			
V/C Ratio(X)	0.48	0.55	0.37	0.91	0.23	0.23	0.36	0.00	0.34			
Avail Cap(c_a), veh/h	195	1621	707	367	1057	1093	797	0	322			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	53.2	21.4	19.2	45.2	10.1	10.1	38.7	0.0	38.6			
Incr Delay (d2), s/veh	4.8	1.4	1.5	25.1	0.5	0.5	0.3	0.0	0.7			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.2	10.3	5.6	11.7	3.5	3.6	3.3	0.0	2.5			
LnGrp Delay(d),s/veh	58.0	22.8	20.7	70.3	10.6	10.6	39.0	0.0	39.3			
LnGrp LOS	E	C	C	E	B	B	D		D			
Approach Vol, veh/h		1197			788			333				
Approach Delay, s/veh		23.4			33.5			39.1				
Approach LOS		C			C			D				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4			7	8
Phs Duration (G+Y+Rc), s		28.7	25.7	59.0			10.2	74.6
Change Period (Y+Rc), s		5.5	4.5	5.5			5.5	5.5
Max Green Setting (Gmax), s		27.5	23.5	53.5			12.5	63.5
Max Q Clear Time (g_c+I1), s		9.1	21.0	23.2			4.2	9.1
Green Ext Time (p_c), s		1.1	0.2	12.5			0.0	14.8

Intersection Summary	
HCM 2010 Ctrl Delay	29.1
HCM 2010 LOS	C

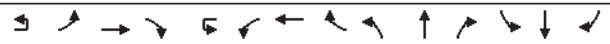
Notes

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	79	944	403	105	211	111
Future Volume (veh/h)	79	944	403	105	211	111
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.97			0.94	1.00	0.67
Parking Bus, Adj	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1790	1827	1810	1845	1900
Adj Flow Rate, veh/h	82	983	420	10	220	116
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	6	6	4	5	0	0
Cap, veh/h	184	2131	2531	949	167	88
Arrive On Green	0.73	0.73	1.00	1.00	0.18	0.18
Sat Flow, veh/h	205	3004	3563	1302	932	492
Grp Volume(v), veh/h	540	525	420	10	337	0
Grp Sat Flow(s),veh/h/ln	1580	1547	1736	1302	1428	0
Q Serve(g_s), s	3.6	16.7	0.0	0.0	21.5	0.0
Cycle Q Clear(g_c), s	14.7	16.7	0.0	0.0	21.5	0.0
Prop In Lane	0.15			1.00	0.65	0.34
Lane Grp Cap(c), veh/h	1187	1128	2531	949	256	0
V/C Ratio(X)	0.45	0.47	0.17	0.01	1.32	0.00
Avail Cap(c_a), veh/h	1187	1128	2531	949	256	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.99	0.99	0.38	0.00
Uniform Delay (d), s/veh	6.3	6.7	0.0	0.0	49.3	0.0
Incr Delay (d2), s/veh	1.3	1.4	0.1	0.0	153.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.3	7.4	0.0	0.0	19.3	0.0
LnGrp Delay(d),s/veh	7.6	8.0	0.1	0.0	202.2	0.0
LnGrp LOS	A	A	A	A	F	
Approach Vol, veh/h		1065	430		337	
Approach Delay, s/veh		7.8	0.1		202.2	
Approach LOS		A	A		F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				93.0		27.0		93.0
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				87.5		21.5		87.5
Max Q Clear Time (g_c+I1), s				18.7		23.5		2.0
Green Ext Time (p_c), s				17.1		0.0		17.4

Intersection Summary	
HCM 2010 Ctrl Delay	41.8
HCM 2010 LOS	D

Notes

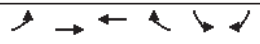


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	63	171	1515	185	6	49	481	56	121	113	49	91	206	520
Future Volume (veh/h)	63	171	1515	185	6	49	481	56	121	113	49	91	206	520
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.76	0.94		0.76	0.85		0.84
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1827	1827	1900		1827	1740	1900	1863	1828	1900	1900	1863	1827
Adj Flow Rate, veh/h		180	1595	175		52	506	44	127	119	38	96	217	225
Adj No. of Lanes		1	3	0		1	3	0	1	1	0	0	1	1
Peak Hour Factor		0.95	0.95	0.95		0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %		4	4	4		4	10	10	2	3	3	2	2	4
Cap, veh/h		204	2728	299		67	2260	190	187	317	101	112	203	338
Arrive On Green		0.12	0.60	0.60		0.01	0.17	0.17	0.26	0.26	0.26	0.26	0.26	0.26
Sat Flow, veh/h		1740	4555	499		1740	4346	366	1095	1222	390	318	781	1303
Grp Volume(v), veh/h		180	1164	606		52	364	186	127	0	157	313	0	225
Grp Sat Flow(s),veh/h/ln		1740	1663	1729		1740	1584	1544	1095	0	1612	1099	0	1303
Q Serve(g_s), s		16.3	34.5	34.7		4.8	15.8	16.6	0.0	0.0	12.8	28.7	0.0	24.7
Cycle Q Clear(g_c), s		16.3	34.5	34.7		4.8	15.8	16.6	35.8	0.0	12.8	41.5	0.0	24.7
Prop In Lane		1.00		0.29		1.00		0.24	1.00		0.24	0.31		1.00
Lane Grp Cap(c), veh/h		204	1992	1036		67	1648	803	187	0	418	314	0	338
V/C Ratio(X)		0.88	0.58	0.59		0.78	0.22	0.23	0.68	0.00	0.38	1.00	0.00	0.67
Avail Cap(c_a), veh/h		451	1992	1036		245	1648	803	187	0	418	314	0	338
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.99	0.99	0.99	0.99	0.00	0.99	1.00	0.00	1.00
Uniform Delay (d), s/veh		69.5	19.8	19.8		78.3	38.4	38.7	57.1	0.0	48.6	65.5	0.0	53.0
Incr Delay (d2), s/veh		11.7	1.3	2.4		17.0	0.3	0.7	18.0	0.0	2.6	49.6	0.0	9.9
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		8.5	16.2	17.2		2.6	7.0	7.3	6.3	0.0	6.0	18.2	0.0	9.8
LnGrp Delay(d),s/veh		81.2	21.1	22.2		95.3	38.7	39.3	75.1	0.0	51.2	115.1	0.0	63.0
LnGrp LOS		F	C	C		F	D	D	E		D	F		E
Approach Vol, veh/h			1950				602			284			538	
Approach Delay, s/veh			27.0				43.8			61.9			93.3	
Approach LOS			C				D			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		47.0	11.7	101.3		47.0	24.3	88.7
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		41.5	22.5	79.5		41.5	41.5	60.5
Max Q Clear Time (g_c+I1), s		37.8	6.8	36.7		43.5	18.3	18.6
Green Ext Time (p_c), s		1.7	0.1	27.0		0.0	0.5	26.6

Intersection Summary	
HCM 2010 Ctrl Delay	43.5
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	70	1103	495	45	143	65
Future Volume (veh/h)	70	1103	495	45	143	65
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.96			0.89	1.00	0.80
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1805	1827	1863	1863	1900
Adj Flow Rate, veh/h	74	1173	527	5	152	51
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	5	5	4	2	0	0
Cap, veh/h	142	2139	2457	1000	241	81
Arrive On Green	0.71	0.71	1.00	1.00	0.20	0.20
Sat Flow, veh/h	153	3105	3563	1413	1204	404
Grp Volume(v), veh/h	638	609	527	5	204	0
Grp Sat Flow(s),veh/h/ln	1615	1561	1736	1413	1615	0
Q Serve(g_s), s	6.7	22.4	0.0	0.0	13.9	0.0
Cycle Q Clear(g_c), s	20.5	22.4	0.0	0.0	13.9	0.0
Prop In Lane	0.12			1.00	0.75	0.25
Lane Grp Cap(c), veh/h	1177	1105	2457	1000	324	0
V/C Ratio(X)	0.54	0.55	0.21	0.00	0.63	0.00
Avail Cap(c_a), veh/h	1177	1105	2457	1000	343	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	0.68	0.68	0.09	0.09	1.00	0.00
Uniform Delay (d), s/veh	8.0	8.4	0.0	0.0	43.9	0.0
Incr Delay (d2), s/veh	1.2	1.3	0.0	0.0	3.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	9.9	0.0	0.0	6.5	0.0
LnGrp Delay(d),s/veh	9.2	9.7	0.0	0.0	47.3	0.0
LnGrp LOS	A	A	A	A	D	
Approach Vol, veh/h		1247	532		204	
Approach Delay, s/veh		9.5	0.0		47.3	
Approach LOS		A	A		D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				90.4		29.6		90.4
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				83.5		25.5		83.5
Max Q Clear Time (g_c+I1), s				24.4		15.9		2.0
Green Ext Time (p_c), s				22.7		0.4		24.6

Intersection Summary	
HCM 2010 Ctrl Delay	10.8
HCM 2010 LOS	B

Notes

Intersection	
Int Delay, s/veh	2.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	42	38	113	33	21	151
Future Vol, veh/h	42	38	113	33	21	151
Conflicting Peds, #/hr	0	76	0	67	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	3	4	3	5	2
Mvmt Flow	46	41	123	36	23	164

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	418	284	0	0	226	0
Stage 1	208	-	-	-	-	-
Stage 2	210	-	-	-	-	-
Critical Hdwy	6.42	6.23	-	-	4.15	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.327	-	-	2.245	-
Pot Cap-1 Maneuver	591	753	-	-	1325	-
Stage 1	827	-	-	-	-	-
Stage 2	825	-	-	-	-	-
Platoon blocked, %				-	-	
Mov Cap-1 Maneuver	542	654	-	-	1229	-
Mov Cap-2 Maneuver	542	-	-	-	-	-
Stage 1	774	-	-	-	-	-
Stage 2	808	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	12.2	0	1
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	590	1229	-
HCM Lane V/C Ratio	-	-	0.147	0.019	-
HCM Control Delay (s)	-	-	12.2	8	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.5	0.1	-

Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (veh/h)	0	1588	140	20	34	533	5	68	4	81	3	1
Future Volume (veh/h)	0	1588	140	20	34	533	5	68	4	81	3	1
Number	7	4	14		3	8	18	5	2	12	1	6
Initial Q (Qb), veh	0	0	0		0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.92		1.00		0.95	0.91		0.94	0.95	
Parking Bus, Adj	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1827	1900		1863	1744	1900	1900	1844	1900	1900	1863
Adj Flow Rate, veh/h	0	1654	132		35	555	3	71	4	48	3	1
Adj No. of Lanes	0	3	0		1	3	0	0	1	0	0	1
Peak Hour Factor	0.96	0.96	0.96		0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	4	4		2	9	9	2	2	2	2	2
Cap, veh/h	0	2805	223		45	3222	17	221	19	131	309	98
Arrive On Green	0.00	1.00	1.00		0.05	1.00	1.00	0.27	0.27	0.27	0.27	0.27
Sat Flow, veh/h	0	4842	373		1774	4886	26	682	69	481	992	359
Grp Volume(v), veh/h	0	1175	611		35	360	198	123	0	0	4	0
Grp Sat Flow(s),veh/h/ln	0	1663	1725		1774	1587	1738	1233	0	0	1351	0
Q Serve(g_s), s	0.0	0.0	0.0		3.1	0.0	0.0	11.2	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	0.0		3.1	0.0	0.0	12.6	0.0	0.0	0.3	0.0
Prop In Lane	0.00		0.22		1.00		0.02	0.58		0.39	0.75	
Lane Grp Cap(c), veh/h	0	1994	1034		45	2093	1146	371	0	0	407	0
V/C Ratio(X)	0.00	0.59	0.59		0.78	0.17	0.17	0.33	0.00	0.00	0.01	0.00
Avail Cap(c_a), veh/h	0	1994	1034		194	2093	1146	371	0	0	407	0
HCM Platoon Ratio	1.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.74	0.74		0.94	0.94	0.94	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	0.0		75.5	0.0	0.0	46.9	0.0	0.0	42.5	0.0
Incr Delay (d2), s/veh	0.0	1.0	1.8		23.0	0.2	0.3	2.4	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.3	0.5		1.8	0.0	0.1	4.7	0.0	0.0	0.1	0.0
LnGrp Delay(d),s/veh	0.0	1.0	1.8		98.5	0.2	0.3	49.3	0.0	0.0	42.6	0.0
LnGrp LOS		A	A		F	A	A	D			D	
Approach Vol, veh/h		1786				593			123			4
Approach Delay, s/veh		1.3				6.0			49.3			42.6
Approach LOS		A				A			D			D

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6		8
Phs Duration (G+Y+Rc), s		49.0	9.6	101.4		49.0		111.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s		43.5	17.5	82.5		43.5		82.5
Max Q Clear Time (g_c+I1), s		14.6	5.1	2.0		2.3		2.0
Green Ext Time (p_c), s		0.8	0.0	37.6		0.9		37.6

Intersection Summary	
HCM 2010 Ctrl Delay	4.8
HCM 2010 LOS	A

Notes

Movement	SBR
Lane Configurations	
Traffic Volume (veh/h)	4
Future Volume (veh/h)	4
Number	16
Initial Q (Qb), veh	0
Ped-Bike Adj(A_pbT)	1.00
Parking Bus, Adj	1.00
Adj Sat Flow, veh/h/ln	1900
Adj Flow Rate, veh/h	0
Adj No. of Lanes	0
Peak Hour Factor	0.96
Percent Heavy Veh, %	2
Cap, veh/h	0
Arrive On Green	0.00
Sat Flow, veh/h	0
Grp Volume(v), veh/h	0
Grp Sat Flow(s),veh/h/ln	0
Q Serve(g_s), s	0.0
Cycle Q Clear(g_c), s	0.0
Prop In Lane	0.00
Lane Grp Cap(c), veh/h	0
V/C Ratio(X)	0.00
Avail Cap(c_a), veh/h	0
HCM Platoon Ratio	1.00
Upstream Filter(I)	0.00
Uniform Delay (d), s/veh	0.0
Incr Delay (d2), s/veh	0.0
Initial Q Delay(d3),s/veh	0.0
%ile BackOfQ(50%),veh/ln	0.0
LnGrp Delay(d),s/veh	0.0
LnGrp LOS	
Approach Vol, veh/h	
Approach Delay, s/veh	
Approach LOS	
Timer	

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	248	770	342	310	35	421	539	144	0	1072	24
Future Volume (veh/h)	0	248	770	342	310	35	421	539	144	0	1072	24
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.91	1.00		0.87	1.00		1.00	1.00		0.72
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1816	1810	1681	1812	1900	1827	1802	1900	0	1844	1900
Adj Flow Rate, veh/h	0	256	794	236	483	36	248	817	0	0	1105	25
Adj No. of Lanes	0	1	2	1	2	0	1	3	0	0	3	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	4	5	13	2	2	4	3	3	0	3	3
Cap, veh/h	0	538	1146	260	1661	123	181	2185	0	0	1275	29
Arrive On Green	0.00	0.30	0.30	0.16	0.50	0.50	0.10	0.40	0.00	0.00	0.25	0.25
Sat Flow, veh/h	0	1816	2786	1601	3294	244	1740	5407	0	0	5181	113
Grp Volume(v), veh/h	0	256	794	236	264	255	248	817	0	0	739	391
Grp Sat Flow(s),veh/h/ln	0	1816	1393	1601	1812	1726	1740	1802	0	0	1678	1771
Q Serve(g_s), s	0.0	13.9	28.7	17.4	10.2	10.3	12.5	12.7	0.0	0.0	25.3	25.3
Cycle Q Clear(g_c), s	0.0	13.9	28.7	17.4	10.2	10.3	12.5	12.7	0.0	0.0	25.3	25.3
Prop In Lane	0.00		1.00	1.00		0.14	1.00		0.00	0.00		0.06
Lane Grp Cap(c), veh/h	0	538	1146	260	914	870	181	2185	0	0	853	450
V/C Ratio(X)	0.00	0.48	0.69	0.91	0.29	0.29	1.37	0.37	0.00	0.00	0.87	0.87
Avail Cap(c_a), veh/h	0	538	1146	274	914	870	181	2185	0	0	853	450
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.29	0.29	0.97	0.97	0.97	0.94	0.94	0.00	0.00	0.75	0.75
Uniform Delay (d), s/veh	0.0	34.6	30.2	49.4	17.3	17.3	53.7	25.1	0.0	0.0	42.8	42.8
Incr Delay (d2), s/veh	0.0	0.9	1.0	30.3	0.8	0.8	195.1	0.5	0.0	0.0	8.9	15.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	7.1	11.2	9.9	5.3	5.1	15.8	6.4	0.0	0.0	12.8	14.3
LnGrp Delay(d),s/veh	0.0	35.5	31.2	79.7	18.0	18.1	248.9	25.6	0.0	0.0	51.7	58.4
LnGrp LOS		D	C	E	B	B	F	C			D	E
Approach Vol, veh/h		1050			755			1065			1130	
Approach Delay, s/veh		32.2			37.3			77.6			54.0	
Approach LOS		C			D			E			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4		6		8
Phs Duration (G+Y+Rc), s	25.0	41.0	18.0	36.0		66.0		54.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s	20.5	34.5	12.5	30.5		60.5		48.5
Max Q Clear Time (g_c+I1), s	19.4	30.7	14.5	27.3		12.3		14.7
Green Ext Time (p_c), s	0.1	2.7	0.0	2.8		12.3		19.4

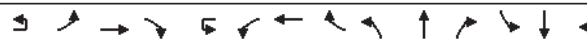
Intersection Summary	
HCM 2010 Ctrl Delay	51.4
HCM 2010 LOS	D
Notes	

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	4	18	18	0	56	8	378	18	22	687	16
Future Volume (veh/h)	20	4	18	18	0	56	8	378	18	22	687	16
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.92		0.77	0.78		0.92	1.00		0.88	1.00		0.91
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1801	1900	1900	1835	1900	1863	1761	1900	1863	1776	1900
Adj Flow Rate, veh/h	21	4	1	19	0	7	9	402	12	23	731	14
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	25	25	25	2	2	2	2	8	8	2	7	7
Cap, veh/h	287	51	11	236	9	68	20	1990	59	41	2078	40
Arrive On Green	0.22	0.22	0.22	0.22	0.00	0.22	0.01	0.60	0.60	0.02	0.61	0.61
Sat Flow, veh/h	1043	235	51	819	41	317	1774	3303	98	1774	3380	65
Grp Volume(v), veh/h	26	0	0	26	0	0	9	203	211	23	365	380
Grp Sat Flow(s),veh/h/ln	1329	0	0	1177	0	0	1774	1673	1728	1774	1687	1757
Q Serve(g_s), s	0.0	0.0	0.0	0.1	0.0	0.0	0.5	5.7	5.7	1.3	11.0	11.0
Cycle Q Clear(g_c), s	1.3	0.0	0.0	1.4	0.0	0.0	0.5	5.7	5.7	1.3	11.0	11.0
Prop In Lane	0.81		0.04	0.73		0.27	1.00		0.06	1.00		0.04
Lane Grp Cap(c), veh/h	349	0	0	313	0	0	20	1008	1041	41	1037	1080
V/C Ratio(X)	0.07	0.00	0.00	0.08	0.00	0.00	0.46	0.20	0.20	0.56	0.35	0.35
Avail Cap(c_a), veh/h	364	0	0	326	0	0	128	1008	1041	128	1037	1080
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	32.5	0.0	0.0	32.5	0.0	0.0	51.0	9.3	9.3	50.1	9.8	9.8
Incr Delay (d2), s/veh	0.1	0.0	0.0	0.1	0.0	0.0	16.0	0.4	0.4	11.1	0.9	0.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	0.0	0.0	0.6	0.0	0.0	0.3	2.7	2.8	0.8	5.3	5.6
LnGrp Delay(d),s/veh	32.5	0.0	0.0	32.6	0.0	0.0	67.0	9.8	9.8	61.2	10.8	10.7
LnGrp LOS	C			C			E	A	A	E	B	B
Approach Vol, veh/h		26			26			423			768	
Approach Delay, s/veh		32.5			32.6			11.0			12.2	
Approach LOS		C			C			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	7.9	68.0		27.8	6.6	69.3		27.8
Change Period (Y+Rc), s	5.5	5.5		5.5	5.5	5.5		5.5
Max Green Setting (Gmax), s	7.5	62.5		23.5	7.5	62.5		23.5
Max Q Clear Time (g_c+I1), s	3.3	7.7		3.3	2.5	13.0		3.4
Green Ext Time (p_c), s	0.0	9.6		0.2	0.0	9.5		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	12.7
HCM 2010 LOS	B

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	18	334	1193	141	33	162	334	74	89	314	63	195	438	140
Future Volume (veh/h)	18	334	1193	141	33	162	334	74	89	314	63	195	438	140
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.94		1.00		0.88	1.00		0.92	1.00		0.88
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	0.90
Adj Sat Flow, veh/h/ln		1812	1855	1900		1863	1750	1900	1696	1790	1900	1863	1814	1900
Adj Flow Rate, veh/h		355	1269	134		172	355	44	95	334	51	207	466	122
Adj No. of Lanes		1	3	0		1	3	0	1	2	0	1	2	0
Peak Hour Factor		0.94	0.94	0.94		0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %		5	0	0		2	10	10	12	7	7	2	5	5
Cap, veh/h		232	1746	184		161	1374	163	114	887	133	161	806	208
Arrive On Green		0.04	0.12	0.12		0.09	0.33	0.33	0.07	0.30	0.30	0.09	0.32	0.32
Sat Flow, veh/h		1726	4618	488		1774	4110	488	1616	2926	440	1774	2494	644
Grp Volume(v), veh/h		355	928	475		172	272	127	95	192	193	207	320	268
Grp Sat Flow(s),veh/h/ln		1726	1688	1730		1774	1593	1412	1616	1700	1666	1774	1723	1415
Q Serve(g_s), s		21.5	42.3	42.3		14.5	9.9	10.6	9.3	14.2	14.6	14.5	24.7	25.3
Cycle Q Clear(g_c), s		21.5	42.3	42.3		14.5	9.9	10.6	9.3	14.2	14.6	14.5	24.7	25.3
Prop In Lane		1.00		0.28		1.00		0.35	1.00		0.26	1.00		0.45
Lane Grp Cap(c), veh/h		232	1277	654		161	1065	472	114	515	505	161	557	457
V/C Ratio(X)		1.53	0.73	0.73		1.07	0.25	0.27	0.83	0.37	0.38	1.29	0.57	0.59
Avail Cap(c_a), veh/h		232	1277	654		161	1065	472	237	515	505	161	557	457
HCM Platoon Ratio		0.33	0.33	0.33		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.72	0.72	0.72		0.98	0.98	0.98	0.99	0.99	0.99	0.93	0.93	0.93
Uniform Delay (d), s/veh		76.5	62.1	62.1		72.8	38.7	39.0	73.4	43.8	43.9	72.8	45.0	45.2
Incr Delay (d2), s/veh		253.9	2.6	5.0		90.1	0.6	1.4	14.3	2.0	2.2	165.9	4.0	5.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		26.6	20.3	21.2		11.1	4.5	4.3	4.6	7.0	7.0	14.5	12.3	10.6
LnGrp Delay(d),s/veh		330.4	64.7	67.1		162.9	39.3	40.3	87.7	45.8	46.1	238.7	49.0	50.3
LnGrp LOS		F	E	E		F	D	D	F	D	D	F	D	D
Approach Vol, veh/h			1758				571			480			795	
Approach Delay, s/veh			119.0				76.8			54.2			98.8	
Approach LOS			F				E			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.0	54.0	20.0	66.0	16.8	57.2	27.0	59.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Max Green Setting (Gmax), s	14.5	48.5	14.5	60.5	23.5	39.5	21.5	53.5
Max Q Clear Time (g_c+I1), s	16.5	16.6	16.5	44.3	11.3	27.3	23.5	12.6
Green Ext Time (p_c), s	0.0	7.6	0.0	10.8	0.2	5.1	0.0	18.6

Intersection Summary	
HCM 2010 Ctrl Delay	99.2
HCM 2010 LOS	F

Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	24	337	266	0	0	0	0	365	412	347	669	0
Future Volume (veh/h)	24	337	266	0	0	0	0	365	412	347	669	0
Number	7	4	14				5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.92				1.00		0.84	0.95		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1846	1810				0	1810	1827	1863	1863	0
Adj Flow Rate, veh/h	25	355	44				0	384	260	365	704	0
Adj No. of Lanes	0	1	1				0	2	1	1	2	0
Peak Hour Factor	0.95	0.95	0.95				0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	3	5				0	5	4	2	2	0
Cap, veh/h	41	575	474				0	1468	554	518	2055	0
Arrive On Green	0.33	0.33	0.33				0.00	0.43	0.43	0.11	0.58	0.00
Sat Flow, veh/h	121	1719	1415				0	3529	1298	1774	3632	0
Grp Volume(v), veh/h	380	0	44				0	384	260	365	704	0
Grp Sat Flow(s),veh/h/ln	1840	0	1415				0	1719	1298	1774	1770	0
Q Serve(g_s), s	22.5	0.0	2.8				0.0	9.4	18.7	14.5	13.5	0.0
Cycle Q Clear(g_c), s	22.5	0.0	2.8				0.0	9.4	18.7	14.5	13.5	0.0
Prop In Lane	0.07		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	616	0	474				0	1468	554	518	2055	0
V/C Ratio(X)	0.62	0.00	0.09				0.00	0.26	0.47	0.70	0.34	0.00
Avail Cap(c_a), veh/h	616	0	474				0	1468	554	518	2055	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	36.3	0.0	29.7				0.0	24.0	26.7	17.6	14.3	0.0
Incr Delay (d2), s/veh	4.6	0.0	0.4				0.0	0.4	2.8	4.3	0.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.2	0.0	1.1				0.0	4.5	7.1	3.2	6.7	0.0
LnGrp Delay(d),s/veh	40.9	0.0	30.1				0.0	24.5	29.5	21.9	14.7	0.0
LnGrp LOS	D		C					C	C	C	B	
Approach Vol, veh/h		424						644			1069	
Approach Delay, s/veh		39.7						26.5			17.2	
Approach LOS		D						C			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4		6		
Phs Duration (G+Y+Rc), s	20.0	61.0		49.0		81.0		
Change Period (Y+Rc), s	5.5	5.5		5.5		5.5		
Max Green Setting (Gmax), s	14.5	55.5		43.5		75.5		
Max Q Clear Time (g_c+I1), s	16.5	20.7		24.5		15.5		
Green Ext Time (p_c), s	0.0	11.5		2.5		12.8		

Intersection Summary	
HCM 2010 Ctrl Delay	24.5
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	211	194	229	36	346	0	0	784	58
Future Volume (veh/h)	0	0	0	211	194	229	36	346	0	0	784	58
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		0.93	1.00		1.00	1.00		0.94
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1863	1863	1597	1863	0	0	1863	1900
Adj Flow Rate, veh/h				234	216	254	40	384	0	0	871	56
Adj No. of Lanes				0	2	1	1	2	0	0	2	0
Peak Hour Factor				0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %				2	2	2	19	2	0	0	2	2
Cap, veh/h				743	755	622	209	1689	0	0	1329	85
Arrive On Green				0.42	0.42	0.42	0.03	0.48	0.00	0.00	0.40	0.40
Sat Flow, veh/h				1757	1787	1471	1521	3632	0	0	3456	216
Grp Volume(v), veh/h				236	214	254	40	384	0	0	458	469
Grp Sat Flow(s),veh/h/ln				1775	1770	1471	1521	1770	0	0	1770	1809
Q Serve(g_s), s				9.8	8.7	13.2	1.6	7.0	0.0	0.0	23.3	23.3
Cycle Q Clear(g_c), s				9.8	8.7	13.2	1.6	7.0	0.0	0.0	23.3	23.3
Prop In Lane				0.99		1.00	1.00		0.00	0.00		0.12
Lane Grp Cap(c), veh/h				750	748	622	209	1689	0	0	699	715
V/C Ratio(X)				0.31	0.29	0.41	0.19	0.23	0.00	0.00	0.66	0.66
Avail Cap(c_a), veh/h				750	748	622	347	1689	0	0	699	715
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				21.1	20.8	22.2	20.5	16.9	0.0	0.0	27.1	27.2
Incr Delay (d2), s/veh				1.1	1.0	2.0	0.4	0.3	0.0	0.0	4.7	4.6
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				5.0	4.5	5.7	0.7	3.5	0.0	0.0	12.3	12.5
LnGrp Delay(d),s/veh				22.2	21.8	24.1	21.0	17.2	0.0	0.0	31.9	31.8
LnGrp LOS				C	C	C	C	B			C	C
Approach Vol, veh/h					704			424			927	
Approach Delay, s/veh					22.8			17.5			31.8	
Approach LOS					C			B			C	

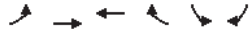
Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		58.0			9.0	49.0		52.0
Change Period (Y+Rc), s		5.5			5.5	5.5		5.5
Max Green Setting (Gmax), s		52.5			13.5	33.5		46.5
Max Q Clear Time (g_c+I1), s		9.0			3.6	25.3		15.2
Green Ext Time (p_c), s		12.3			0.0	5.1		4.2

Intersection Summary	
HCM 2010 Ctrl Delay	25.8
HCM 2010 LOS	C

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1621	249	4	37	233	106
Future Volume (veh/h)	1621	249	4	37	233	106
Number	6	16	5	2	7	14
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		0.94	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1797	1900	1900	1219	1810	1696
Adj Flow Rate, veh/h	1743	186	4	40	251	114
Adj No. of Lanes	4	0	0	2	2	1
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	6	6	54	54	5	12
Cap, veh/h	4397	469	109	1236	367	158
Arrive On Green	0.77	0.77	0.77	0.77	0.11	0.11
Sat Flow, veh/h	5930	606	83	1651	3343	1442
Grp Volume(v), veh/h	1423	506	23	21	251	114
Grp Sat Flow(s),veh/h/ln	1545	1648	625	1054	1672	1442
Q Serve(g_s), s	9.5	9.5	0.0	0.4	6.9	7.3
Cycle Q Clear(g_c), s	9.5	9.5	9.5	0.4	6.9	7.3
Prop In Lane		0.37	0.18		1.00	1.00
Lane Grp Cap(c), veh/h	3590	1276	529	816	367	158
V/C Ratio(X)	0.40	0.40	0.04	0.03	0.68	0.72
Avail Cap(c_a), veh/h	3590	1276	529	816	898	387
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	3.5	3.5	2.5	2.5	40.7	40.8
Incr Delay (d2), s/veh	0.3	0.9	0.2	0.1	2.3	6.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.1	4.5	0.2	0.1	3.3	3.1
LnGrp Delay(d),s/veh	3.8	4.4	2.6	2.5	42.9	46.9
LnGrp LOS	A	A	A	A	D	D
Approach Vol, veh/h	1929			44	365	
Approach Delay, s/veh	4.0			2.6	44.2	
Approach LOS	A			A	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		
Phs Duration (G+Y+Rc), s		79.0		15.9		79.0		
Change Period (Y+Rc), s		5.5		5.5		5.5		
Max Green Setting (Gmax), s		73.5		25.5		73.5		
Max Q Clear Time (g_c+I1), s		11.5		9.3		11.5		
Green Ext Time (p_c), s		26.8		1.2		26.8		

Intersection Summary	
HCM 2010 Ctrl Delay	10.2
HCM 2010 LOS	B

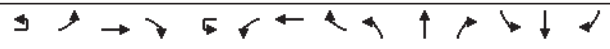


Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	124	197	791	208	181	89
Future Volume (veh/h)	124	197	791	208	181	89
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			0.95	1.00	0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1827	1863	1834	1900	1863	1900
Adj Flow Rate, veh/h	136	216	869	131	199	65
Adj No. of Lanes	1	1	4	0	0	0
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	4	2	4	4	0	0
Cap, veh/h	126	1004	2253	333	432	141
Arrive On Green	0.07	0.54	0.41	0.41	0.34	0.34
Sat Flow, veh/h	1740	1863	5813	820	1276	417
Grp Volume(v), veh/h	136	216	737	263	265	0
Grp Sat Flow(s),veh/h/ln	1740	1863	1577	1643	1699	0
Q Serve(g_s), s	6.5	5.4	9.9	10.2	11.0	0.0
Cycle Q Clear(g_c), s	6.5	5.4	9.9	10.2	11.0	0.0
Prop In Lane	1.00			0.50	0.75	0.25
Lane Grp Cap(c), veh/h	126	1004	1919	667	576	0
V/C Ratio(X)	1.08	0.22	0.38	0.39	0.46	0.00
Avail Cap(c_a), veh/h	126	1004	1919	667	576	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	41.7	10.8	18.8	18.9	23.3	0.0
Incr Delay (d2), s/veh	104.1	0.5	0.6	1.7	2.6	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.7	2.9	4.4	4.9	5.6	0.0
LnGrp Delay(d),s/veh	145.8	11.3	19.4	20.7	25.9	0.0
LnGrp LOS	F	B	B	C	C	
Approach Vol, veh/h		352	1000		265	
Approach Delay, s/veh		63.3	19.7		25.9	
Approach LOS		E	B		C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6	7	8
Phs Duration (G+Y+Rc), s				54.0		36.0	12.0	42.0
Change Period (Y+Rc), s				5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s				48.5		30.5	6.5	36.5
Max Q Clear Time (g_c+I1), s				7.4		13.0	8.5	12.2
Green Ext Time (p_c), s				11.3		0.7	0.0	9.5

Intersection Summary	
HCM 2010 Ctrl Delay	30.2
HCM 2010 LOS	C

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	17	107	971	324	1	50	350	108	64	174	48	35	222	159
Future Volume (veh/h)	17	107	971	324	1	50	350	108	64	174	48	35	222	159
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.93		1.00		0.89	1.00		0.98	1.00		0.85
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1845	1863	1900		1827	1783	1900	1900	1841	1900	1900	1863	1900
Adj Flow Rate, veh/h		119	1079	273		56	389	44	71	193	45	39	247	155
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.90	0.90	0.90		0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %		3	2	2		4	8	8	4	4	4	2	2	2
Cap, veh/h		192	2198	556		71	2128	233	72	173	37	54	268	161
Arrive On Green		0.22	1.00	1.00		0.04	0.48	0.48	0.30	0.30	0.30	0.30	0.30	0.30
Sat Flow, veh/h		1757	3977	1005		1740	4392	481	145	572	122	97	884	532
Grp Volume(v), veh/h		119	920	432		56	284	149	309	0	0	441	0	0
Grp Sat Flow(s),veh/h/ln		1757	1695	1592		1740	1622	1629	839	0	0	1513	0	0
Q Serve(g_s), s		9.8	0.0	0.0		5.1	7.9	8.3	2.7	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s		9.8	0.0	0.0		5.1	7.9	8.3	48.5	0.0	0.0	45.8	0.0	0.0
Prop In Lane		1.00		0.63		1.00		0.30	0.23		0.15	0.09		0.35
Lane Grp Cap(c), veh/h		192	1874	880		71	1571	789	282	0	0	483	0	0
V/C Ratio(X)		0.62	0.49	0.49		0.79	0.18	0.19	1.10	0.00	0.00	0.91	0.00	0.00
Avail Cap(c_a), veh/h		192	1874	880		136	1571	789	282	0	0	483	0	0
HCM Platoon Ratio		2.00	2.00	2.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.45	0.45	0.45		1.00	1.00	1.00	0.09	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		59.5	0.0	0.0		76.0	23.3	23.4	56.3	0.0	0.0	54.3	0.0	0.0
Incr Delay (d2), s/veh		2.7	0.4	0.9		17.1	0.3	0.5	48.8	0.0	0.0	24.1	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.9	0.1	0.2		2.8	3.6	3.8	16.3	0.0	0.0	22.4	0.0	0.0
LnGrp Delay(d),s/veh		62.2	0.4	0.9		93.1	23.6	23.9	105.2	0.0	0.0	78.4	0.0	0.0
LnGrp LOS		E	A	A		F	C	C	F			E		
Approach Vol, veh/h			1471				489			309			441	
Approach Delay, s/veh			5.5				31.6			105.2			78.4	
Approach LOS			A				C			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		54.0	12.0	94.0		54.0	23.0	83.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		48.5	12.5	82.5		48.5	17.5	77.5
Max Q Clear Time (g_c+I1), s		50.5	7.1	2.0		47.8	11.8	10.3
Green Ext Time (p_c), s		0.0	0.0	15.5		0.4	0.3	3.2

Intersection Summary	
HCM 2010 Ctrl Delay	33.5
HCM 2010 LOS	C

Notes

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1000	35	15	740	6	18
Future Volume (veh/h)	1000	35	15	740	6	18
Number	4	14	3	8	5	12
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	980	1000	1000	980	1863	1863
Adj Flow Rate, veh/h	1087	38	16	804	7	20
Adj No. of Lanes	3	0	0	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	1571	55	56	1476	49	44
Arrive On Green	0.83	0.87	0.87	0.83	0.03	0.03
Sat Flow, veh/h	2374	66	16	1814	1774	1583
Grp Volume(v), veh/h	566	559	431	389	7	20
Grp Sat Flow(s),veh/h/ln	490	969	937	848	1774	1583
Q Serve(g_s), s	19.6	19.5	0.0	12.2	0.3	1.1
Cycle Q Clear(g_c), s	19.6	19.5	10.9	12.2	0.3	1.1
Prop In Lane		0.07	0.04		1.00	1.00
Lane Grp Cap(c), veh/h	818	808	857	707	49	44
V/C Ratio(X)	0.69	0.69	0.50	0.55	0.14	0.46
Avail Cap(c_a), veh/h	818	808	857	707	725	647
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	2.8	2.8	2.1	2.2	41.2	41.6
Incr Delay (d2), s/veh	4.8	4.8	2.1	3.1	1.3	7.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.1	6.0	2.7	3.3	0.2	0.6
LnGrp Delay(d),s/veh	7.6	7.6	4.2	5.3	42.6	48.9
LnGrp LOS	A	A	A	A	D	D
Approach Vol, veh/h	1125			820	27	
Approach Delay, s/veh	7.6			4.7	47.3	
Approach LOS	A			A	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4				8
Phs Duration (G+Y+Rc), s		6.9		80.0				80.0
Change Period (Y+Rc), s		4.5		4.5				4.5
Max Green Setting (Gmax), s		35.5		75.5				75.5
Max Q Clear Time (g_c+I1), s		3.1		22.6				15.2
Green Ext Time (p_c), s		0.1		21.4				22.3

Intersection Summary	
HCM 2010 Ctrl Delay	6.9
HCM 2010 LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	18	685	437	285	800	14	616	0	406	0	0	1
Future Volume (veh/h)	18	685	437	285	800	14	616	0	406	0	0	1
Number	7	4	14	3	8	18	5	2	12			
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		0.95	1.00		0.89	1.00		0.86			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	1863	1845	1863	1863	1863	1900	1863	1863	1863			
Adj Flow Rate, veh/h	19	706	180	294	825	12	635	0	48			
Adj No. of Lanes	1	2	1	1	2	0	2	0	1			
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97			
Percent Heavy Veh, %	2	3	2	2	2	2	2	2	2			
Cap, veh/h	72	1655	710	329	2199	32	849	0	324			
Arrive On Green	0.04	0.47	0.47	0.19	0.62	0.60	0.24	0.00	0.24			
Sat Flow, veh/h	1774	3505	1502	1774	3564	52	3548	0	1355			
Grp Volume(v), veh/h	19	706	180	294	410	427	635	0	48			
Grp Sat Flow(s),veh/h/ln	1774	1752	1502	1774	1770	1846	1774	0	1355			
Q Serve(g_s), s	1.2	15.5	8.4	18.8	13.4	13.4	19.3	0.0	3.3			
Cycle Q Clear(g_c), s	1.2	15.5	8.4	18.8	13.4	13.4	19.3	0.0	3.3			
Prop In Lane	1.00		1.00	1.00		0.03	1.00		1.00			
Lane Grp Cap(c), veh/h	72	1655	710	329	1092	1139	849	0	324			
V/C Ratio(X)	0.26	0.43	0.25	0.89	0.38	0.38	0.75	0.00	0.15			
Avail Cap(c_a), veh/h	213	1655	710	366	1092	1139	884	0	337			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	54.2	20.3	18.4	46.3	11.1	11.1	41.0	0.0	34.9			
Incr Delay (d2), s/veh	1.9	0.8	0.9	21.9	1.0	0.9	3.4	0.0	0.2			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.6	7.6	3.6	11.2	6.8	7.1	9.8	0.0	1.2			
LnGrp Delay(d),s/veh	56.1	21.1	19.3	68.3	12.1	12.1	44.4	0.0	35.1			
LnGrp LOS	E	C	B	E	B	B	D		D			
Approach Vol, veh/h		905			1131			683				
Approach Delay, s/veh		21.5			26.7			43.8				
Approach LOS		C			C			D				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4			7	8
Phs Duration (G+Y+Rc), s		31.9	25.6	59.0			8.7	75.9
Change Period (Y+Rc), s		5.5	4.5	5.5			5.5	5.5
Max Green Setting (Gmax), s		27.5	23.5	53.5			12.5	63.5
Max Q Clear Time (g_c+I1), s		21.3	20.8	17.5			3.2	15.4
Green Ext Time (p_c), s		1.5	0.2	14.3			0.0	15.6

Intersection Summary	
HCM 2010 Ctrl Delay	29.2
HCM 2010 LOS	C

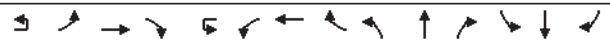
Notes

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	109	747	741	238	119	134
Future Volume (veh/h)	109	747	741	238	119	134
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.99			0.94	1.00	0.77
Parking Bus, Adj	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1863	1863	1854	1900
Adj Flow Rate, veh/h	112	770	764	31	123	92
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	0	0
Cap, veh/h	288	1906	2647	1007	157	117
Arrive On Green	0.75	0.75	1.00	1.00	0.19	0.17
Sat Flow, veh/h	333	2634	3632	1346	845	632
Grp Volume(v), veh/h	392	490	764	31	216	0
Grp Sat Flow(s),veh/h/ln	1272	1610	1770	1346	1484	0
Q Serve(g_s), s	5.3	13.2	0.0	0.0	16.7	0.0
Cycle Q Clear(g_c), s	10.3	13.2	0.0	0.0	16.7	0.0
Prop In Lane	0.29			1.00	0.57	0.43
Lane Grp Cap(c), veh/h	990	1204	2647	1007	275	0
V/C Ratio(X)	0.40	0.41	0.29	0.03	0.78	0.00
Avail Cap(c_a), veh/h	990	1204	2647	1007	284	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.95	0.95	0.79	0.00
Uniform Delay (d), s/veh	4.9	5.5	0.0	0.0	46.9	0.0
Incr Delay (d2), s/veh	1.2	1.0	0.3	0.1	10.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.7	6.2	0.1	0.0	7.7	0.0
LnGrp Delay(d),s/veh	6.1	6.5	0.3	0.1	57.4	0.0
LnGrp LOS	A	A	A	A	E	
Approach Vol, veh/h		882	795		216	
Approach Delay, s/veh		6.3	0.3		57.4	
Approach LOS		A	A		E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				93.7		26.3		93.7
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				87.5		21.5		87.5
Max Q Clear Time (g_c+I1), s				15.2		18.7		2.0
Green Ext Time (p_c), s				21.7		0.2		22.3

Intersection Summary	
HCM 2010 Ctrl Delay	9.6
HCM 2010 LOS	A

Notes

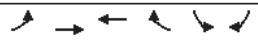


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	141	219	1364	123	21	29	812	78	252	117	42	56	188	444
Future Volume (veh/h)	141	219	1364	123	21	29	812	78	252	117	42	56	188	444
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.99		1.00		0.83	0.96		0.89	0.93		0.92
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1768	1900	1863	1863	1900	1900	1841	1863
Adj Flow Rate, veh/h		226	1406	114		30	837	69	260	121	32	58	194	242
Adj No. of Lanes		1	3	0		1	3	0	1	1	0	0	1	1
Peak Hour Factor		0.97	0.97	0.97		0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %		2	2	2		2	8	8	2	2	2	3	3	2
Cap, veh/h		266	2989	242		57	2262	185	235	371	98	101	306	392
Arrive On Green		0.15	0.62	0.61		0.06	1.00	0.99	0.27	0.27	0.26	0.27	0.27	0.27
Sat Flow, veh/h		1774	4791	388		1774	4467	365	1136	1379	365	273	1139	1458
Grp Volume(v), veh/h		226	995	525		30	601	305	260	0	153	252	0	242
Grp Sat Flow(s),veh/h/ln		1774	1695	1789		1774	1609	1614	1136	0	1744	1412	0	1458
Q Serve(g_s), s		19.9	25.0	25.1		2.6	0.0	0.1	15.0	0.0	11.3	16.7	0.0	23.3
Cycle Q Clear(g_c), s		19.9	25.0	25.1		2.6	0.0	0.1	43.0	0.0	11.3	28.0	0.0	23.3
Prop In Lane		1.00		0.22		1.00		0.23	1.00		0.21	0.23		1.00
Lane Grp Cap(c), veh/h		266	2115	1116		57	1630	817	235	0	469	407	0	392
V/C Ratio(X)		0.85	0.47	0.47		0.52	0.37	0.37	1.11	0.00	0.33	0.62	0.00	0.62
Avail Cap(c_a), veh/h		477	2115	1116		266	1630	817	235	0	469	407	0	392
HCM Platoon Ratio		1.00	1.00	1.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.98	0.98	0.98	0.97	0.00	0.97	1.00	0.00	1.00
Uniform Delay (d), s/veh		66.3	16.0	16.1		73.6	0.0	0.1	66.3	0.0	47.0	54.0	0.0	51.3
Incr Delay (d2), s/veh		7.5	0.8	1.4		7.0	0.6	1.3	90.2	0.0	1.8	6.9	0.0	7.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		10.3	11.8	12.7		1.4	0.1	0.3	16.2	0.0	5.7	10.9	0.0	10.2
LnGrp Delay(d),s/veh		73.8	16.8	17.6		80.6	0.6	1.3	156.6	0.0	48.8	60.9	0.0	58.4
LnGrp LOS		E	B	B		F	A	A	F		D	E		E
Approach Vol, veh/h			1746				936			413			494	
Approach Delay, s/veh			24.4				3.4			116.7			59.7	
Approach LOS			C				A			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		47.0	9.2	103.8		47.0	28.0	85.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		41.5	22.5	79.5		41.5	41.5	60.5
Max Q Clear Time (g_c+I1), s		45.0	4.6	27.1		30.0	21.9	2.1
Green Ext Time (p_c), s		0.0	0.0	31.3		3.7	0.6	33.3

Intersection Summary	
HCM 2010 Ctrl Delay	34.4
HCM 2010 LOS	C

Notes



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	83	805	923	168	72	39
Future Volume (veh/h)	83	805	923	168	72	39
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.99			0.94	1.00	0.88
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1863	1863	1844	1900
Adj Flow Rate, veh/h	87	847	972	11	76	19
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	0	0
Cap, veh/h	218	2048	2700	1136	225	56
Arrive On Green	0.76	0.76	1.00	1.00	0.17	0.16
Sat Flow, veh/h	239	2770	3632	1489	1321	330
Grp Volume(v), veh/h	421	513	972	11	96	0
Grp Sat Flow(s),veh/h/ln	1313	1610	1770	1489	1669	0
Q Serve(g_s), s	1.1	13.3	0.0	0.0	6.1	0.0
Cycle Q Clear(g_c), s	8.8	13.3	0.0	0.0	6.1	0.0
Prop In Lane	0.21			1.00	0.79	0.20
Lane Grp Cap(c), veh/h	1038	1228	2700	1136	284	0
V/C Ratio(X)	0.41	0.42	0.36	0.01	0.34	0.00
Avail Cap(c_a), veh/h	1038	1228	2700	1136	375	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	0.80	0.80	0.09	0.09	1.00	0.00
Uniform Delay (d), s/veh	4.4	5.0	0.0	0.0	43.9	0.0
Incr Delay (d2), s/veh	0.9	0.8	0.0	0.0	0.7	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	6.1	0.0	0.0	2.9	0.0
LnGrp Delay(d),s/veh	5.3	5.8	0.0	0.0	44.6	0.0
LnGrp LOS	A	A	A	A	D	
Approach Vol, veh/h		934	983		96	
Approach Delay, s/veh		5.6	0.0		44.6	
Approach LOS		A	A		D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				95.5		24.5		95.5
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				83.5		25.5		83.5
Max Q Clear Time (g_c+I1), s				15.3		8.1		2.0
Green Ext Time (p_c), s				27.6		0.2		29.1

Intersection Summary	
HCM 2010 Ctrl Delay	4.7
HCM 2010 LOS	A

Notes

Intersection	
Int Delay, s/veh	1.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	23	19	251	31	19	91
Future Vol, veh/h	23	19	251	31	19	91
Conflicting Peds, #/hr	0	21	0	27	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	26	22	285	35	22	103

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	477	351	0	0	347	0
Stage 1	330	-	-	-	-	-
Stage 2	147	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	547	692	-	-	1212	-
Stage 1	728	-	-	-	-	-
Stage 2	880	-	-	-	-	-
Platoon blocked, %				-	-	
Mov Cap-1 Maneuver	522	661	-	-	1188	-
Mov Cap-2 Maneuver	522	-	-	-	-	-
Stage 1	709	-	-	-	-	-
Stage 2	862	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	11.8	0	1.4
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	- 577	1188	-
HCM Lane V/C Ratio	-	- 0.083	0.018	-
HCM Control Delay (s)	-	- 11.8	8.1	0
HCM Lane LOS	-	- B	A	A
HCM 95th %tile Q(veh)	-	- 0.3	0.1	-

Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (veh/h)	0	1404	89	19	30	782	3	155	1	118	1	1
Future Volume (veh/h)	0	1404	89	19	30	782	3	155	1	118	1	1
Number	7	4	14		3	8	18	5	2	12	1	6
Initial Q (Qb), veh	0	0	0		0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.92		1.00		0.95	0.92		0.94	0.98	
Parking Bus, Adj	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1863	1900		1863	1760	1900	1900	1863	1900	1900	1863
Adj Flow Rate, veh/h	0	1462	84		31	815	2	161	1	99	1	1
Adj No. of Lanes	0	3	0		1	3	0	0	1	0	0	1
Peak Hour Factor	0.96	0.96	0.96		0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	2	2		2	8	8	2	2	2	2	2
Cap, veh/h	0	2991	172		58	3308	8	248	3	131	227	216
Arrive On Green	0.00	1.00	1.00		0.07	1.00	1.00	0.28	0.28	0.27	0.28	0.28
Sat Flow, veh/h	0	5063	281		1774	4947	12	751	10	465	686	769
Grp Volume(v), veh/h	0	1013	533		31	528	289	261	0	0	2	0
Grp Sat Flow(s),veh/h/ln	0	1695	1786		1774	1601	1757	1226	0	0	1455	0
Q Serve(g_s), s	0.0	0.0	0.0		2.7	0.0	0.0	30.9	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	0.0		2.7	0.0	0.0	31.1	0.0	0.0	0.1	0.0
Prop In Lane	0.00		0.16		1.00		0.01	0.62		0.38	0.50	
Lane Grp Cap(c), veh/h	0	2071	1091		58	2142	1175	381	0	0	443	0
V/C Ratio(X)	0.00	0.49	0.49		0.53	0.25	0.25	0.68	0.00	0.00	0.00	0.00
Avail Cap(c_a), veh/h	0	2071	1091		211	2142	1175	381	0	0	443	0
HCM Platoon Ratio	1.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.85	0.85		0.88	0.88	0.88	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	0.0		73.6	0.0	0.0	52.7	0.0	0.0	41.4	0.0
Incr Delay (d2), s/veh	0.0	0.7	1.3		6.5	0.2	0.4	9.6	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.2	0.4		1.4	0.1	0.1	11.5	0.0	0.0	0.1	0.0
LnGrp Delay(d),s/veh	0.0	0.7	1.3		80.1	0.2	0.4	62.3	0.0	0.0	41.4	0.0
LnGrp LOS		A	A		F	A	A	E			D	
Approach Vol, veh/h		1546				848			261			2
Approach Delay, s/veh		0.9				3.2			62.3			41.4
Approach LOS		A				A			E			D

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6		8
Phs Duration (G+Y+Rc), s		49.0	9.2	101.8		49.0		111.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s		43.5	17.5	82.5		43.5		105.5
Max Q Clear Time (g_c+I1), s		33.1	4.7	2.0		2.1		2.0
Green Ext Time (p_c), s		1.2	0.0	36.6		2.0		39.7

Intersection Summary	
HCM 2010 Ctrl Delay	7.7
HCM 2010 LOS	A

Notes

Movement	SBR
Lane Configurations	
Traffic Volume (veh/h)	4
Future Volume (veh/h)	4
Number	16
Initial Q (Qb), veh	0
Ped-Bike Adj(A_pbT)	1.00
Parking Bus, Adj	1.00
Adj Sat Flow, veh/h/ln	1900
Adj Flow Rate, veh/h	0
Adj No. of Lanes	0
Peak Hour Factor	0.96
Percent Heavy Veh, %	2
Cap, veh/h	0
Arrive On Green	0.00
Sat Flow, veh/h	0
Grp Volume(v), veh/h	0
Grp Sat Flow(s),veh/h/ln	0
Q Serve(g_s), s	0.0
Cycle Q Clear(g_c), s	0.0
Prop In Lane	0.00
Lane Grp Cap(c), veh/h	0
V/C Ratio(X)	0.00
Avail Cap(c_a), veh/h	0
HCM Platoon Ratio	1.00
Upstream Filter(I)	0.00
Uniform Delay (d), s/veh	0.0
Incr Delay (d2), s/veh	0.0
Initial Q Delay(d3),s/veh	0.0
%ile BackOfQ(50%),veh/ln	0.0
LnGrp Delay(d),s/veh	0.0
LnGrp LOS	
Approach Vol, veh/h	
Approach Delay, s/veh	
Approach LOS	
Timer	

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	534	688	193	300	34	659	1074	264	0	657	36
Future Volume (veh/h)	0	534	688	193	300	34	659	1074	264	0	657	36
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.87	1.00		1.00	1.00		0.71
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1849	1827	1681	1849	1900	1845	1781	1900	0	1863	1900
Adj Flow Rate, veh/h	0	562	724	185	341	36	456	1464	0	0	692	38
Adj No. of Lanes	0	1	2	1	2	0	1	3	0	0	3	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	2	4	13	2	2	3	2	2	0	2	2
Cap, veh/h	0	630	1468	229	1674	174	234	2226	0	0	1205	65
Arrive On Green	0.00	0.34	0.34	0.14	0.52	0.50	0.13	0.42	0.00	0.00	0.25	0.24
Sat Flow, veh/h	0	1849	3095	1601	3241	337	1757	5343	0	0	4988	260
Grp Volume(v), veh/h	0	562	724	185	193	184	456	1464	0	0	483	247
Grp Sat Flow(s),veh/h/ln	0	1849	1547	1601	1849	1729	1757	1781	0	0	1695	1691
Q Serve(g_s), s	0.0	34.5	19.3	13.4	6.7	7.0	16.0	26.4	0.0	0.0	15.0	15.4
Cycle Q Clear(g_c), s	0.0	34.5	19.3	13.4	6.7	7.0	16.0	26.4	0.0	0.0	15.0	15.4
Prop In Lane	0.00		1.00	1.00		0.20	1.00		0.00	0.00		0.15
Lane Grp Cap(c), veh/h	0	630	1468	229	955	893	234	2226	0	0	848	423
V/C Ratio(X)	0.00	0.89	0.49	0.81	0.20	0.21	1.95	0.66	0.00	0.00	0.57	0.58
Avail Cap(c_a), veh/h	0	630	1468	294	955	893	234	2226	0	0	848	423
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.09	0.09	0.99	0.99	0.99	0.72	0.72	0.00	0.00	0.88	0.88
Uniform Delay (d), s/veh	0.0	37.5	21.7	49.9	15.6	15.8	52.0	28.1	0.0	0.0	39.4	39.6
Incr Delay (d2), s/veh	0.0	2.0	0.1	12.2	0.5	0.5	437.1	1.1	0.0	0.0	2.4	5.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	18.0	8.2	6.7	3.5	3.4	36.2	13.2	0.0	0.0	7.3	7.8
LnGrp Delay(d),s/veh	0.0	39.5	21.8	62.0	16.1	16.3	489.1	29.2	0.0	0.0	41.8	44.7
LnGrp LOS		D	C	E	B	B	F	C			D	D
Approach Vol, veh/h		1286			562			1920			730	
Approach Delay, s/veh		29.5			31.3			138.4			42.8	
Approach LOS		C			C			F			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4		6		8
Phs Duration (G+Y+Rc), s	11.1	44.9	20.0	34.0		66.0		54.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s	20.5	34.5	14.5	28.5		60.5		48.5
Max Q Clear Time (g_c+I1), s	15.4	36.5	18.0	17.4		9.0		28.4
Green Ext Time (p_c), s	0.2	0.0	0.0	9.3		13.5		15.4

Intersection Summary	
HCM 2010 Ctrl Delay	78.4
HCM 2010 LOS	E

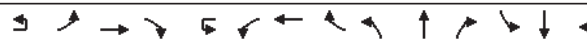
Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	6	0	11	24	0	32	6	771	15	19	494	10
Future Volume (veh/h)	6	0	11	24	0	32	6	771	15	19	494	10
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.91		0.82	0.83		0.90	1.00		0.88	1.00		0.92
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1781	1900	1900	1863	1900	1863	1761	1900	1863	1777	1900
Adj Flow Rate, veh/h	6	0	3	25	0	3	6	812	13	20	520	8
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	8	8	2	7	7
Cap, veh/h	238	10	95	307	4	29	39	2086	33	63	2155	33
Arrive On Green	0.23	0.00	0.21	0.23	0.00	0.21	0.02	0.62	0.61	0.04	0.63	0.62
Sat Flow, veh/h	792	44	418	1060	16	129	1774	3362	54	1774	3399	52
Grp Volume(v), veh/h	9	0	0	28	0	0	6	404	421	20	258	270
Grp Sat Flow(s),veh/h/ln	1254	0	0	1205	0	0	1774	1673	1743	1774	1689	1763
Q Serve(g_s), s	0.0	0.0	0.0	1.3	0.0	0.0	0.3	12.5	12.5	1.1	6.8	6.8
Cycle Q Clear(g_c), s	0.5	0.0	0.0	1.7	0.0	0.0	0.3	12.5	12.5	1.1	6.8	6.8
Prop In Lane	0.67		0.33	0.89		0.11	1.00		0.03	1.00		0.03
Lane Grp Cap(c), veh/h	343	0	0	340	0	0	39	1038	1081	63	1071	1118
V/C Ratio(X)	0.03	0.00	0.00	0.08	0.00	0.00	0.15	0.39	0.39	0.32	0.24	0.24
Avail Cap(c_a), veh/h	362	0	0	358	0	0	155	1038	1081	155	1071	1118
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.2	0.0	0.0	31.5	0.0	0.0	49.5	9.8	9.8	48.5	8.2	8.2
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.1	0.0	0.0	1.8	1.1	1.1	2.8	0.5	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.0	0.6	0.0	0.0	0.2	6.0	6.3	0.6	3.3	3.5
LnGrp Delay(d),s/veh	31.2	0.0	0.0	31.6	0.0	0.0	51.2	10.9	10.9	51.3	8.7	8.7
LnGrp LOS	C			C			D	B	B	D	A	A
Approach Vol, veh/h		9			28			831			548	
Approach Delay, s/veh		31.2			31.6			11.2			10.2	
Approach LOS		C			C			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	7.7	68.0		27.5	6.3	69.4		27.5
Change Period (Y+Rc), s	5.5	5.5		5.5	5.5	5.5		5.5
Max Green Setting (Gmax), s	7.5	62.5		23.5	7.5	62.5		23.5
Max Q Clear Time (g_c+I1), s	3.1	14.5		2.5	2.3	8.8		3.7
Green Ext Time (p_c), s	0.0	12.1		0.1	0.0	12.3		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	11.3
HCM 2010 LOS	B

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	24	338	1015	107	27	129	549	100	132	562	100	136	291	127
Future Volume (veh/h)	24	338	1015	107	27	129	549	100	132	562	100	136	291	127
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.99		1.00		0.87	1.00		0.95	1.00		0.86
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	0.90
Adj Sat Flow, veh/h/ln		1863	1849	1900		1863	1863	1900	1397	1832	1900	1863	1813	1900
Adj Flow Rate, veh/h		356	1068	97		136	578	62	139	592	80	143	306	120
Adj No. of Lanes		1	3	0		1	3	0	1	2	0	1	2	0
Peak Hour Factor		0.95	0.95	0.95		0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %		2	2	2		2	2	2	36	4	4	2	6	6
Cap, veh/h		255	1839	167		172	1526	160	166	957	129	177	638	239
Arrive On Green		0.10	0.26	0.26		0.10	0.34	0.33	0.12	0.31	0.30	0.10	0.29	0.28
Sat Flow, veh/h		1774	4706	427		1774	4439	465	1331	3061	412	1774	2217	829
Grp Volume(v), veh/h		356	763	402		136	438	202	139	336	336	143	234	192
Grp Sat Flow(s),veh/h/ln		1774	1682	1768		1774	1695	1514	1331	1741	1733	1774	1723	1324
Q Serve(g_s), s		23.0	31.6	31.7		12.0	15.6	16.2	16.3	26.3	26.5	12.6	17.9	19.4
Cycle Q Clear(g_c), s		23.0	31.6	31.7		12.0	15.6	16.2	16.3	26.3	26.5	12.6	17.9	19.4
Prop In Lane		1.00		0.24		1.00		0.31	1.00		0.24	1.00		0.63
Lane Grp Cap(c), veh/h		255	1315	691		172	1165	520	166	544	541	177	496	381
V/C Ratio(X)		1.40	0.58	0.58		0.79	0.38	0.39	0.84	0.62	0.62	0.81	0.47	0.50
Avail Cap(c_a), veh/h		255	1315	691		177	1165	520	208	544	541	177	496	381
HCM Platoon Ratio		0.67	0.67	0.67		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.83	0.83	0.83		0.95	0.95	0.95	0.96	0.96	0.96	0.98	0.98	0.98
Uniform Delay (d), s/veh		72.3	47.6	47.8		70.7	39.6	39.9	68.4	46.9	47.1	70.5	47.0	47.9
Incr Delay (d2), s/veh		196.9	1.6	3.0		19.8	0.9	2.1	20.2	5.0	5.1	22.9	3.2	4.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		25.2	15.0	16.1		6.8	7.4	7.1	7.0	13.4	13.5	7.3	9.0	7.6
LnGrp Delay(d),s/veh		269.2	49.2	50.7		90.5	40.4	42.0	88.6	51.8	52.1	93.3	50.1	52.5
LnGrp LOS		F	D	D		F	D	D	F	D	D	F	D	D
Approach Vol, veh/h			1521				776			811			569	
Approach Delay, s/veh			101.1				49.6			58.3			61.8	
Approach LOS			F				D			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	30.0	54.0	19.5	66.5	24.0	50.0	27.0	59.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Max Green Setting (Gmax), s	24.5	48.5	14.5	60.5	23.5	39.5	21.5	53.5
Max Q Clear Time (g_c+I1), s	14.6	28.5	14.0	33.7	18.3	21.4	25.0	18.2
Green Ext Time (p_c), s	0.0	7.5	0.0	14.8	0.2	7.1	0.0	17.0

Intersection Summary	
HCM 2010 Ctrl Delay	74.7
HCM 2010 LOS	E

Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	60	401	156	0	0	0	0	518	519	157	409	0
Future Volume (veh/h)	60	401	156	0	0	0	0	518	519	157	409	0
Number	7	4	14				5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98				1.00		0.94	0.99		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1827				0	1827	1863	1863	1863	0
Adj Flow Rate, veh/h	65	431	55				0	557	292	169	440	0
Adj No. of Lanes	0	1	1				0	2	1	1	2	0
Peak Hour Factor	0.93	0.93	0.93				0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	4	2	4				0	4	2	2	2	0
Cap, veh/h	84	557	524				0	1695	724	436	2096	0
Arrive On Green	0.35	0.35	0.35				0.00	0.49	0.49	0.07	0.59	0.00
Sat Flow, veh/h	243	1608	1515				0	3563	1482	1774	3632	0
Grp Volume(v), veh/h	496	0	55				0	557	292	169	440	0
Grp Sat Flow(s),veh/h/ln	1851	0	1515				0	1736	1482	1774	1770	0
Q Serve(g_s), s	31.1	0.0	3.2				0.0	12.7	16.3	5.8	7.5	0.0
Cycle Q Clear(g_c), s	31.1	0.0	3.2				0.0	12.7	16.3	5.8	7.5	0.0
Prop In Lane	0.13		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	641	0	524				0	1695	724	436	2096	0
V/C Ratio(X)	0.77	0.00	0.10				0.00	0.33	0.40	0.39	0.21	0.00
Avail Cap(c_a), veh/h	641	0	524				0	1695	724	524	2096	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	38.0	0.0	28.8				0.0	20.3	21.2	14.0	12.3	0.0
Incr Delay (d2), s/veh	8.9	0.0	0.4				0.0	0.5	1.7	0.6	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	17.4	0.0	1.4				0.0	6.2	7.0	2.9	3.7	0.0
LnGrp Delay(d),s/veh	46.8	0.0	29.2				0.0	20.8	22.9	14.6	12.6	0.0
LnGrp LOS	D		C					C	C	B	B	
Approach Vol, veh/h		551						849			609	
Approach Delay, s/veh		45.1						21.5			13.1	
Approach LOS		D						C			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4		6		
Phs Duration (G+Y+Rc), s	13.5	67.5		49.0		81.0		
Change Period (Y+Rc), s	5.5	5.5		5.5		5.5		
Max Green Setting (Gmax), s	14.5	55.5		43.5		75.5		
Max Q Clear Time (g_c+I1), s	7.8	18.3		33.1		9.5		
Green Ext Time (p_c), s	0.2	10.5		2.6		11.3		

Intersection Summary	
HCM 2010 Ctrl Delay	25.4
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	179	241	231	59	520	0	0	382	71
Future Volume (veh/h)	0	0	0	179	241	231	59	520	0	0	382	71
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		0.97	1.00		1.00	1.00		0.99
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1863	1863	1624	1863	0	0	1847	1900
Adj Flow Rate, veh/h				186	251	24	61	542	0	0	398	43
Adj No. of Lanes				0	2	1	1	2	0	0	2	0
Peak Hour Factor				0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %				2	2	2	17	2	0	0	3	3
Cap, veh/h				774	772	673	406	1737	0	0	1285	138
Arrive On Green				0.44	0.44	0.44	0.05	0.49	0.00	0.00	0.40	0.39
Sat Flow, veh/h				1774	1770	1543	1547	3632	0	0	3286	343
Grp Volume(v), veh/h				186	251	24	61	542	0	0	218	223
Grp Sat Flow(s),veh/h/ln				1774	1770	1543	1547	1770	0	0	1755	1781
Q Serve(g_s), s				7.3	10.2	1.0	2.4	10.1	0.0	0.0	9.3	9.5
Cycle Q Clear(g_c), s				7.3	10.2	1.0	2.4	10.1	0.0	0.0	9.3	9.5
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.19
Lane Grp Cap(c), veh/h				774	772	673	406	1737	0	0	706	717
V/C Ratio(X)				0.24	0.33	0.04	0.15	0.31	0.00	0.00	0.31	0.31
Avail Cap(c_a), veh/h				774	772	673	536	1737	0	0	706	717
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				19.5	20.4	17.7	16.6	16.8	0.0	0.0	22.4	22.6
Incr Delay (d2), s/veh				0.7	1.1	0.1	0.2	0.5	0.0	0.0	1.1	1.1
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				3.7	5.3	0.4	1.0	5.0	0.0	0.0	4.7	4.9
LnGrp Delay(d),s/veh				20.3	21.5	17.8	16.7	17.3	0.0	0.0	23.5	23.7
LnGrp LOS				C	C	B	B	B			C	C
Approach Vol, veh/h					461			603			441	
Approach Delay, s/veh					20.8			17.2			23.6	
Approach LOS					C			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		58.0			9.7	48.3		52.0
Change Period (Y+Rc), s		5.5			5.5	5.5		5.5
Max Green Setting (Gmax), s		52.5			13.5	33.5		46.5
Max Q Clear Time (g_c+I1), s		12.1			4.4	11.5		12.2
Green Ext Time (p_c), s		8.2			0.1	7.0		3.1

Intersection Summary	
HCM 2010 Ctrl Delay	20.2
HCM 2010 LOS	C

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1205	117	3	30	553	282
Future Volume (veh/h)	1205	117	3	30	553	282
Number	6	16	5	2	7	14
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		0.94	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1795	1900	1900	1084	1863	1863
Adj Flow Rate, veh/h	1282	78	3	32	588	300
Adj No. of Lanes	4	0	0	2	2	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	6	6	73	73	2	2
Cap, veh/h	4172	253	105	1101	781	359
Arrive On Green	0.70	0.68	0.70	0.70	0.23	0.23
Sat Flow, veh/h	6224	362	95	1626	3442	1583
Grp Volume(v), veh/h	993	367	19	16	588	300
Grp Sat Flow(s),veh/h/ln	1544	1703	734	937	1721	1583
Q Serve(g_s), s	8.8	9.0	0.0	0.6	17.1	19.4
Cycle Q Clear(g_c), s	8.8	9.0	0.6	0.6	17.1	19.4
Prop In Lane		0.21	0.16		1.00	1.00
Lane Grp Cap(c), veh/h	3236	1189	552	654	781	359
V/C Ratio(X)	0.31	0.31	0.03	0.03	0.75	0.83
Avail Cap(c_a), veh/h	3236	1189	552	654	865	398
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	6.2	6.3	5.0	5.0	38.7	39.6
Incr Delay (d2), s/veh	0.2	0.7	0.1	0.1	3.4	13.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.8	4.4	0.2	0.2	8.5	9.8
LnGrp Delay(d),s/veh	6.5	7.0	5.1	5.0	42.1	52.8
LnGrp LOS	A	A	A	A	D	D
Approach Vol, veh/h	1360			35	888	
Approach Delay, s/veh	6.6			5.1	45.7	
Approach LOS	A			A	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		
Phs Duration (G+Y+Rc), s		79.0		28.4		79.0		
Change Period (Y+Rc), s		5.5		5.5		5.5		
Max Green Setting (Gmax), s		73.5		25.5		73.5		
Max Q Clear Time (g_c+I1), s		2.6		21.4		11.0		
Green Ext Time (p_c), s		14.7		1.5		14.5		

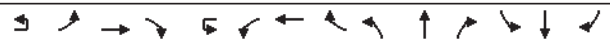
Intersection Summary	
HCM 2010 Ctrl Delay	21.8
HCM 2010 LOS	C

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	154	159	1356	287	107	114
Future Volume (veh/h)	154	159	1356	287	107	114
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			0.96	1.00	0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1801	1900	1863	1900
Adj Flow Rate, veh/h	157	162	1384	221	109	51
Adj No. of Lanes	1	1	4	0	0	0
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	6	6	0	0
Cap, veh/h	158	1035	2278	363	405	190
Arrive On Green	0.09	0.56	0.42	0.41	0.36	0.34
Sat Flow, veh/h	1774	1863	5646	859	1140	534
Grp Volume(v), veh/h	157	162	1192	413	161	0
Grp Sat Flow(s),veh/h/ln	1774	1863	1549	1606	1684	0
Q Serve(g_s), s	8.0	3.8	17.9	18.2	6.2	0.0
Cycle Q Clear(g_c), s	8.0	3.8	17.9	18.2	6.2	0.0
Prop In Lane	1.00			0.53	0.68	0.32
Lane Grp Cap(c), veh/h	158	1035	1962	678	599	0
V/C Ratio(X)	1.00	0.16	0.61	0.61	0.27	0.00
Avail Cap(c_a), veh/h	158	1035	1962	678	599	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	41.0	9.7	20.2	20.6	20.8	0.0
Incr Delay (d2), s/veh	70.3	0.3	1.4	4.0	1.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.0	2.0	7.9	8.7	3.1	0.0
LnGrp Delay(d),s/veh	111.3	10.1	21.6	24.6	21.9	0.0
LnGrp LOS	F	B	C	C	C	
Approach Vol, veh/h		319	1605		161	
Approach Delay, s/veh		59.9	22.4		21.9	
Approach LOS		E	C		C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6	7	8
Phs Duration (G+Y+Rc), s				54.0		36.0	12.0	42.0
Change Period (Y+Rc), s				5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s				48.5		30.5	6.5	36.5
Max Q Clear Time (g_c+I1), s				5.8		8.2	10.0	20.2
Green Ext Time (p_c), s				19.9		0.4	0.0	11.2

Intersection Summary	
HCM 2010 Ctrl Delay	28.1
HCM 2010 LOS	C

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	45	79	957	197	1	22	601	165	108	231	67	50	120	116
Future Volume (veh/h)	45	79	957	197	1	22	601	165	108	231	67	50	120	116
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.89	0.98		0.93	1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1855	1900
Adj Flow Rate, veh/h		84	1018	166		23	639	112	115	246	65	53	128	100
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.94	0.94	0.94		0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	3	3	3
Cap, veh/h		211	2556	416		52	2114	362	118	213	54	88	205	147
Arrive On Green		0.24	1.00	1.00		0.03	0.49	0.48	0.31	0.31	0.30	0.31	0.31	0.30
Sat Flow, veh/h		1774	4383	713		1774	4281	732	287	680	174	194	656	470
Grp Volume(v), veh/h		84	787	397		23	503	248	426	0	0	281	0	0
Grp Sat Flow(s),veh/h/ln		1774	1695	1706		1774	1695	1623	1142	0	0	1321	0	0
Q Serve(g_s), s		6.4	0.0	0.0		2.0	14.1	14.7	21.8	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s		6.4	0.0	0.0		2.0	14.1	14.7	50.0	0.0	0.0	28.2	0.0	0.0
Prop In Lane		1.00		0.42		1.00		0.45	0.27		0.15	0.19		0.36
Lane Grp Cap(c), veh/h		211	1977	995		52	1674	801	385	0	0	439	0	0
V/C Ratio(X)		0.40	0.40	0.40		0.44	0.30	0.31	1.11	0.00	0.00	0.64	0.00	0.00
Avail Cap(c_a), veh/h		211	1977	995		155	1674	801	385	0	0	439	0	0
HCM Platoon Ratio		2.00	2.00	2.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.73	0.73	0.73		1.00	1.00	1.00	0.09	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		56.2	0.0	0.0		76.4	24.1	24.4	58.7	0.0	0.0	46.9	0.0	0.0
Incr Delay (d2), s/veh		0.9	0.4	0.9		5.8	0.5	1.0	51.4	0.0	0.0	7.0	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.2	0.1	0.2		1.1	6.7	6.8	22.5	0.0	0.0	11.6	0.0	0.0
LnGrp Delay(d),s/veh		57.1	0.4	0.9		82.1	24.5	25.4	110.1	0.0	0.0	53.9	0.0	0.0
LnGrp LOS		E	A	A		F	C	C	F			D		
Approach Vol, veh/h			1268				774			426			281	
Approach Delay, s/veh			4.3				26.5			110.1			53.9	
Approach LOS			A				C			F			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		54.0	8.7	97.3		54.0	23.0	83.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		48.5	12.5	82.5		48.5	17.5	77.5
Max Q Clear Time (g_c+I1), s		52.0	4.0	2.0		30.2	8.4	16.7
Green Ext Time (p_c), s		0.0	0.0	11.9		4.8	0.5	6.1

Intersection Summary	
HCM 2010 Ctrl Delay	32.0
HCM 2010 LOS	C

Notes

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1081	10	25	970	55	101
Future Volume (veh/h)	1081	10	25	970	55	101
Number	4	14	3	8	5	12
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	980	1000	1200	1176	1863	1863
Adj Flow Rate, veh/h	1175	11	27	1054	60	110
Adj No. of Lanes	3	0	0	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	1491	14	63	1605	178	159
Arrive On Green	0.77	0.80	0.81	0.77	0.10	0.10
Sat Flow, veh/h	2430	18	27	2141	1774	1583
Grp Volume(v), veh/h	594	592	562	519	60	110
Grp Sat Flow(s),veh/h/ln	490	977	1098	1017	1774	1583
Q Serve(g_s), s	31.2	31.2	0.0	21.2	2.8	5.9
Cycle Q Clear(g_c), s	31.2	31.2	17.6	21.2	2.8	5.9
Prop In Lane		0.02	0.05		1.00	1.00
Lane Grp Cap(c), veh/h	754	751	931	782	178	159
V/C Ratio(X)	0.79	0.79	0.60	0.66	0.34	0.69
Avail Cap(c_a), veh/h	754	751	931	782	828	739
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	6.0	5.9	4.3	4.8	36.8	38.2
Incr Delay (d2), s/veh	8.2	8.2	2.9	4.4	1.1	5.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.9	9.8	5.3	6.7	1.4	2.8
LnGrp Delay(d),s/veh	14.1	14.1	7.3	9.2	37.9	43.5
LnGrp LOS	B	B	A	A	D	D
Approach Vol, veh/h	1186			1081	170	
Approach Delay, s/veh	14.1			8.2	41.5	
Approach LOS	B			A	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4				8
Phs Duration (G+Y+Rc), s		12.8		75.0				75.0
Change Period (Y+Rc), s		4.5		4.5				4.5
Max Green Setting (Gmax), s		40.5		70.5				70.5
Max Q Clear Time (g_c+I1), s		7.9		34.2				24.2
Green Ext Time (p_c), s		0.5		22.5				25.9

Intersection Summary	
HCM 2010 Ctrl Delay	13.4
HCM 2010 LOS	B

APPENDIX C: NEAR TERM LOS WORKSHEETS

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	40	880	500	300	460	20	230	10	200	0	0	0
Future Volume (veh/h)	40	880	500	300	460	20	230	10	200	0	0	0
Number	7	4	14	3	8	18	5	2	12			
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.89	1.00		0.87			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	1863	1810	1810	1863	1828	1900	1727	1741	1810			
Adj Flow Rate, veh/h	43	936	281	319	489	16	253	0	103			
Adj No. of Lanes	1	2	1	1	2	0	2	0	1			
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94			
Percent Heavy Veh, %	2	5	5	2	4	4	10	0	5			
Cap, veh/h	104	1649	719	353	2118	69	714	0	291			
Arrive On Green	0.06	0.48	0.48	0.20	0.62	0.61	0.22	0.00	0.22			
Sat Flow, veh/h	1774	3438	1500	1774	3418	112	3290	0	1340			
Grp Volume(v), veh/h	43	936	281	319	248	257	253	0	103			
Grp Sat Flow(s),veh/h/ln	1774	1719	1500	1774	1737	1793	1645	0	1340			
Q Serve(g_s), s	2.7	22.3	13.8	20.1	7.3	7.3	7.5	0.0	7.5			
Cycle Q Clear(g_c), s	2.7	22.3	13.8	20.1	7.3	7.3	7.5	0.0	7.5			
Prop In Lane	1.00		1.00	1.00		0.06	1.00		1.00			
Lane Grp Cap(c), veh/h	104	1649	719	353	1076	1111	714	0	291			
V/C Ratio(X)	0.41	0.57	0.39	0.90	0.23	0.23	0.35	0.00	0.35			
Avail Cap(c_a), veh/h	217	1649	719	371	1076	1111	832	0	339			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	52.1	21.3	19.1	44.9	9.7	9.7	38.1	0.0	38.1			
Incr Delay (d2), s/veh	2.6	1.4	1.6	24.2	0.5	0.5	0.3	0.0	0.7			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.4	10.9	6.0	12.2	3.6	3.7	3.4	0.0	2.8			
LnGrp Delay(d),s/veh	54.7	22.8	20.7	69.1	10.2	10.2	38.4	0.0	38.8			
LnGrp LOS	D	C	C	E	B	B	D		D			
Approach Vol, veh/h		1260			824			356				
Approach Delay, s/veh		23.4			33.0			38.5				
Approach LOS		C			C			D				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4			7	8
Phs Duration (G+Y+Rc), s		28.9	26.8	59.0			10.7	75.1
Change Period (Y+Rc), s		5.5	4.5	5.5			5.5	5.5
Max Green Setting (Gmax), s		27.5	23.5	53.5			12.5	63.5
Max Q Clear Time (g_c+I1), s		9.5	22.1	24.3			4.7	9.3
Green Ext Time (p_c), s		1.2	0.1	13.1			0.0	15.9

Intersection Summary	
HCM 2010 Ctrl Delay	28.8
HCM 2010 LOS	C

Notes

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	90	1000	420	120	270	120
Future Volume (veh/h)	90	1000	420	120	270	120
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.97			0.94	1.00	0.70
Parking Bus, Adj	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1790	1827	1810	1845	1900
Adj Flow Rate, veh/h	94	1042	438	26	281	125
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	6	6	4	5	0	0
Cap, veh/h	196	2083	2517	943	213	95
Arrive On Green	0.73	0.73	1.00	1.00	0.21	0.20
Sat Flow, veh/h	223	2955	3563	1301	1024	455
Grp Volume(v), veh/h	571	565	438	26	407	0
Grp Sat Flow(s),veh/h/ln	1549	1547	1736	1301	1483	0
Q Serve(g_s), s	7.6	19.0	0.0	0.0	25.0	0.0
Cycle Q Clear(g_c), s	17.1	19.0	0.0	0.0	25.0	0.0
Prop In Lane	0.16			1.00	0.69	0.31
Lane Grp Cap(c), veh/h	1158	1122	2517	943	309	0
V/C Ratio(X)	0.49	0.50	0.17	0.03	1.32	0.00
Avail Cap(c_a), veh/h	1158	1122	2517	943	309	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.98	0.98	0.27	0.00
Uniform Delay (d), s/veh	6.8	7.1	0.0	0.0	47.7	0.0
Incr Delay (d2), s/veh	1.5	1.6	0.1	0.1	149.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.3	8.5	0.1	0.0	23.0	0.0
LnGrp Delay(d),s/veh	8.3	8.8	0.1	0.1	196.8	0.0
LnGrp LOS	A	A	A	A	F	
Approach Vol, veh/h		1136	464		407	
Approach Delay, s/veh		8.5	0.1		196.8	
Approach LOS		A	A		F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				91.0		29.0		91.0
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				85.5		23.5		85.5
Max Q Clear Time (g_c+I1), s				21.0		27.0		2.0
Green Ext Time (p_c), s				19.1		0.0		19.8

Intersection Summary	
HCM 2010 Ctrl Delay	44.8
HCM 2010 LOS	D

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	70	180	1590	250	10	50	500	60	140	120	50	110	220	540
Future Volume (veh/h)	70	180	1590	250	10	50	500	60	140	120	50	110	220	540
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.76	0.95		0.77	0.86		0.85
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1827	1827	1900		1827	1741	1900	1863	1829	1900	1900	1863	1827
Adj Flow Rate, veh/h		189	1674	243		53	526	48	147	126	39	116	232	246
Adj No. of Lanes		1	3	0		1	3	0	1	1	0	0	1	1
Peak Hour Factor		0.95	0.95	0.95		0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %		4	4	4		4	10	10	2	3	3	2	2	4
Cap, veh/h		228	2615	378		84	2214	195	212	349	108	129	203	372
Arrive On Green		0.13	0.60	0.59		0.02	0.17	0.17	0.28	0.28	0.27	0.28	0.28	0.28
Sat Flow, veh/h		1740	4393	634		1740	4317	381	1086	1240	384	351	722	1321
Grp Volume(v), veh/h		189	1265	652		53	381	193	147	0	165	348	0	246
Grp Sat Flow(s),veh/h/ln		1740	1663	1702		1740	1584	1530	1086	0	1624	1073	0	1321
Q Serve(g_s), s		16.9	39.8	40.4		4.8	16.7	17.5	0.0	0.0	13.0	32.0	0.0	26.3
Cycle Q Clear(g_c), s		16.9	39.8	40.4		4.8	16.7	17.5	37.9	0.0	13.0	45.0	0.0	26.3
Prop In Lane		1.00		0.37		1.00		0.25	1.00		0.24	0.33		1.00
Lane Grp Cap(c), veh/h		228	1979	1013		84	1625	785	212	0	457	332	0	372
V/C Ratio(X)		0.83	0.64	0.64		0.63	0.23	0.25	0.69	0.00	0.36	1.05	0.00	0.66
Avail Cap(c_a), veh/h		446	1979	1013		239	1625	785	212	0	457	332	0	372
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.99	0.99	0.99	0.99	0.00	0.99	1.00	0.00	1.00
Uniform Delay (d), s/veh		67.8	21.2	21.5		77.3	39.3	39.7	54.9	0.0	46.2	65.0	0.0	50.8
Incr Delay (d2), s/veh		7.6	1.6	3.1		7.4	0.3	0.7	17.0	0.0	2.2	62.8	0.0	9.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		8.6	18.5	19.8		2.5	7.4	7.6	7.2	0.0	6.1	20.4	0.0	10.6
LnGrp Delay(d),s/veh		75.4	22.7	24.6		84.7	39.6	40.4	71.9	0.0	48.3	127.8	0.0	59.7
LnGrp LOS		E	C	C		F	D	D	E		D	F		E
Approach Vol, veh/h			2106				627			312			594	
Approach Delay, s/veh			28.1				43.7			59.5			99.6	
Approach LOS			C				D			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		49.0	11.8	99.2		49.0	24.9	86.1
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		43.5	20.5	79.5		43.5	39.5	60.5
Max Q Clear Time (g_c+I1), s		39.9	6.8	42.4		47.0	18.9	19.5
Green Ext Time (p_c), s		1.8	0.1	26.7		0.0	0.5	28.7

Intersection Summary	
HCM 2010 Ctrl Delay	45.1
HCM 2010 LOS	D

Notes

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	80	1220	530	50	160	70
Future Volume (veh/h)	80	1220	530	50	160	70
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.96			0.89	1.00	0.81
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1805	1827	1863	1863	1900
Adj Flow Rate, veh/h	85	1298	564	10	170	56
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	5	5	4	2	0	0
Cap, veh/h	151	2148	2496	1017	260	86
Arrive On Green	0.72	0.72	1.00	1.00	0.21	0.20
Sat Flow, veh/h	163	3069	3563	1415	1212	399
Grp Volume(v), veh/h	706	677	564	10	227	0
Grp Sat Flow(s),veh/h/ln	1590	1561	1736	1415	1618	0
Q Serve(g_s), s	13.6	25.8	0.0	0.0	15.4	0.0
Cycle Q Clear(g_c), s	24.7	25.8	0.0	0.0	15.4	0.0
Prop In Lane	0.12			1.00	0.75	0.25
Lane Grp Cap(c), veh/h	1176	1122	2496	1017	347	0
V/C Ratio(X)	0.60	0.60	0.23	0.01	0.65	0.00
Avail Cap(c_a), veh/h	1176	1122	2496	1017	364	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	0.59	0.59	0.12	0.12	1.00	0.00
Uniform Delay (d), s/veh	8.0	8.4	0.0	0.0	43.3	0.0
Incr Delay (d2), s/veh	1.4	1.4	0.0	0.0	3.9	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.6	11.3	0.0	0.0	7.3	0.0
LnGrp Delay(d),s/veh	9.3	9.8	0.0	0.0	47.2	0.0
LnGrp LOS	A	A	A	A	D	
Approach Vol, veh/h		1383	574		227	
Approach Delay, s/veh		9.6	0.0		47.2	
Approach LOS		A	A		D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				90.3		29.7		90.3
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				83.5		25.5		83.5
Max Q Clear Time (g_c+I1), s				27.8		17.4		2.0
Green Ext Time (p_c), s				26.5		0.4		30.3

Intersection Summary	
HCM 2010 Ctrl Delay	11.0
HCM 2010 LOS	B

Notes

Intersection	
Int Delay, s/veh	3.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	50	40	120	40	30	170
Future Vol, veh/h	50	40	120	40	30	170
Conflicting Peds, #/hr	0	76	0	67	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	3	4	3	5	2
Mvmt Flow	54	43	130	43	33	185

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	469	295	0	0	241	0
Stage 1	219	-	-	-	-	-
Stage 2	250	-	-	-	-	-
Critical Hdwy	6.42	6.23	-	-	4.15	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.327	-	-	2.245	-
Pot Cap-1 Maneuver	553	742	-	-	1308	-
Stage 1	817	-	-	-	-	-
Stage 2	792	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	502	644	-	-	1213	-
Mov Cap-2 Maneuver	502	-	-	-	-	-
Stage 1	765	-	-	-	-	-
Stage 2	768	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	12.8	0	1.2
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	557	1213	-
HCM Lane V/C Ratio	-	-	0.176	0.027	-
HCM Control Delay (s)	-	-	12.8	8.1	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.6	0.1	-

Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (veh/h)	0	1670	160	30	40	560	10	80	10	90	10	10
Future Volume (veh/h)	0	1670	160	30	40	560	10	80	10	90	10	10
Number	7	4	14		3	8	18	5	2	12	1	6
Initial Q (Qb), veh	0	0	0		0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.92		1.00		0.95	0.92		0.94	0.96	
Parking Bus, Adj	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1827	1900		1863	1745	1900	1900	1845	1900	1900	1863
Adj Flow Rate, veh/h	0	1740	153		42	583	8	83	10	58	10	10
Adj No. of Lanes	0	3	0		1	3	0	0	1	0	0	1
Peak Hour Factor	0.96	0.96	0.96		0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	4	4		2	9	9	2	2	2	2	2
Cap, veh/h	0	2800	245		70	3236	44	218	32	134	180	175
Arrive On Green	0.00	1.00	1.00		0.08	1.00	1.00	0.28	0.28	0.27	0.28	0.28
Sat Flow, veh/h	0	4799	406		1774	4839	66	653	113	477	528	624
Grp Volume(v), veh/h	0	1246	647		42	382	209	151	0	0	26	0
Grp Sat Flow(s),veh/h/ln	0	1663	1716		1774	1588	1729	1243	0	0	1498	0
Q Serve(g_s), s	0.0	0.0	0.0		3.7	0.0	0.0	13.9	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	0.0		3.7	0.0	0.0	15.7	0.0	0.0	1.7	0.0
Prop In Lane	0.00		0.24		1.00		0.04	0.55		0.38	0.38	
Lane Grp Cap(c), veh/h	0	2009	1037		70	2124	1156	384	0	0	452	0
V/C Ratio(X)	0.00	0.62	0.62		0.60	0.18	0.18	0.39	0.00	0.00	0.06	0.00
Avail Cap(c_a), veh/h	0	2009	1037		211	2124	1156	384	0	0	452	0
HCM Platoon Ratio	1.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.67	0.67		0.94	0.94	0.94	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	0.0		72.5	0.0	0.0	47.1	0.0	0.0	42.1	0.0
Incr Delay (d2), s/veh	0.0	1.0	1.9		7.5	0.2	0.3	3.0	0.0	0.0	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.3	0.5		1.9	0.1	0.1	5.8	0.0	0.0	0.9	0.0
LnGrp Delay(d),s/veh	0.0	1.0	1.9		80.0	0.2	0.3	50.0	0.0	0.0	42.3	0.0
LnGrp LOS		A	A		E	A	A	D			D	
Approach Vol, veh/h		1893				633			151			26
Approach Delay, s/veh		1.3				5.5			50.0			42.3
Approach LOS		A				A			D			D

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6		8
Phs Duration (G+Y+Rc), s		49.0	10.3	100.7		49.0		111.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s		43.5	17.5	82.5		43.5		82.5
Max Q Clear Time (g_c+I1), s		17.7	5.7	2.0		3.7		2.0
Green Ext Time (p_c), s		1.1	0.0	42.1		1.3		42.1

Intersection Summary	
HCM 2010 Ctrl Delay	5.4
HCM 2010 LOS	A

Notes

Movement	SBR
Lane Configurations	
Traffic Volume (veh/h)	10
Future Volume (veh/h)	10
Number	16
Initial Q (Qb), veh	0
Ped-Bike Adj(A_pbT)	0.91
Parking Bus, Adj	1.00
Adj Sat Flow, veh/h/ln	1900
Adj Flow Rate, veh/h	6
Adj No. of Lanes	0
Peak Hour Factor	0.96
Percent Heavy Veh, %	2
Cap, veh/h	97
Arrive On Green	0.27
Sat Flow, veh/h	346
Grp Volume(v), veh/h	0
Grp Sat Flow(s),veh/h/ln	0
Q Serve(g_s), s	0.0
Cycle Q Clear(g_c), s	0.0
Prop In Lane	0.23
Lane Grp Cap(c), veh/h	0
V/C Ratio(X)	0.00
Avail Cap(c_a), veh/h	0
HCM Platoon Ratio	1.00
Upstream Filter(I)	0.00
Uniform Delay (d), s/veh	0.0
Incr Delay (d2), s/veh	0.0
Initial Q Delay(d3),s/veh	0.0
%ile BackOfQ(50%),veh/ln	0.0
LnGrp Delay(d),s/veh	0.0
LnGrp LOS	
Approach Vol, veh/h	
Approach Delay, s/veh	
Approach LOS	

Timer

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	270	800	360	400	40	440	560	150	0	1110	50
Future Volume (veh/h)	0	270	800	360	400	40	440	560	150	0	1110	50
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.91	1.00		0.87	1.00		1.00	1.00		0.72
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1816	1810	1681	1826	1900	1827	1802	1900	0	1844	1900
Adj Flow Rate, veh/h	0	278	825	275	547	41	258	852	0	0	1144	52
Adj No. of Lanes	0	1	2	1	2	0	1	3	0	0	3	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	4	5	13	2	2	4	3	3	0	3	3
Cap, veh/h	0	545	1196	294	1714	128	203	2252	0	0	1290	59
Arrive On Green	0.00	0.30	0.30	0.18	0.52	0.50	0.12	0.42	0.00	0.00	0.27	0.25
Sat Flow, veh/h	0	1816	2790	1601	3317	248	1740	5406	0	0	5005	220
Grp Volume(v), veh/h	0	278	825	275	300	288	258	852	0	0	793	403
Grp Sat Flow(s),veh/h/ln	0	1816	1395	1601	1826	1739	1740	1802	0	0	1678	1703
Q Serve(g_s), s	0.0	15.2	29.4	20.3	11.4	11.5	14.0	13.1	0.0	0.0	27.2	27.3
Cycle Q Clear(g_c), s	0.0	15.2	29.4	20.3	11.4	11.5	14.0	13.1	0.0	0.0	27.2	27.3
Prop In Lane	0.00		1.00	1.00		0.14	1.00		0.00	0.00		0.13
Lane Grp Cap(c), veh/h	0	545	1196	294	943	898	203	2252	0	0	895	454
V/C Ratio(X)	0.00	0.51	0.69	0.94	0.32	0.32	1.27	0.38	0.00	0.00	0.89	0.89
Avail Cap(c_a), veh/h	0	545	1196	294	943	898	203	2252	0	0	895	454
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.12	0.12	0.96	0.96	0.96	0.94	0.94	0.00	0.00	0.68	0.68
Uniform Delay (d), s/veh	0.0	34.7	29.0	48.3	16.8	16.9	53.0	24.2	0.0	0.0	42.2	42.4
Incr Delay (d2), s/veh	0.0	0.4	0.4	35.1	0.8	0.9	153.1	0.5	0.0	0.0	9.0	16.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	7.6	11.3	11.9	6.0	5.8	15.3	6.6	0.0	0.0	13.7	14.9
LnGrp Delay(d),s/veh	0.0	35.1	29.4	83.4	17.6	17.8	206.1	24.7	0.0	0.0	51.2	58.5
LnGrp LOS		D	C	F	B	B	F	C			D	E
Approach Vol, veh/h		1103			863			1110			1196	
Approach Delay, s/veh		30.8			38.6			66.9			53.7	
Approach LOS		C			D			E			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4		6		8
Phs Duration (G+Y+Rc), s	16.0	40.0	18.0	36.0		66.0		54.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s	10.5	34.5	12.5	30.5		60.5		48.5
Max Q Clear Time (g_c+I1), s	12.3	31.4	16.0	29.3		13.5		15.1
Green Ext Time (p_c), s	0.0	2.4	0.0	1.1		13.8		20.6

Intersection Summary	
HCM 2010 Ctrl Delay	48.2
HCM 2010 LOS	D

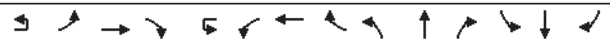
Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	30	10	20	20	0	60	10	400	20	30	790	20
Future Volume (veh/h)	30	10	20	20	0	60	10	400	20	30	790	20
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.93		0.77	0.80		0.92	1.00		0.88	1.00		0.91
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1768	1900	1900	1836	1900	1863	1761	1900	1863	1776	1900
Adj Flow Rate, veh/h	32	11	3	21	0	11	11	426	14	32	840	18
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	25	25	25	2	2	2	2	8	8	2	7	7
Cap, veh/h	262	83	20	231	11	97	49	2017	66	77	2120	45
Arrive On Green	0.23	0.23	0.21	0.23	0.00	0.21	0.03	0.61	0.60	0.04	0.63	0.61
Sat Flow, veh/h	891	365	88	760	48	424	1774	3290	108	1774	3370	72
Grp Volume(v), veh/h	46	0	0	32	0	0	11	216	224	32	421	437
Grp Sat Flow(s),veh/h/ln	1344	0	0	1232	0	0	1774	1673	1725	1774	1687	1755
Q Serve(g_s), s	0.8	0.0	0.0	0.0	0.0	0.0	0.6	6.0	6.0	1.8	12.9	12.9
Cycle Q Clear(g_c), s	2.5	0.0	0.0	1.6	0.0	0.0	0.6	6.0	6.0	1.8	12.9	12.9
Prop In Lane	0.70		0.07	0.66		0.34	1.00		0.06	1.00		0.04
Lane Grp Cap(c), veh/h	365	0	0	339	0	0	49	1026	1058	77	1061	1104
V/C Ratio(X)	0.13	0.00	0.00	0.09	0.00	0.00	0.23	0.21	0.21	0.42	0.40	0.40
Avail Cap(c_a), veh/h	380	0	0	352	0	0	153	1026	1058	153	1061	1104
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	32.0	0.0	0.0	31.9	0.0	0.0	49.7	9.0	9.0	48.6	9.6	9.6
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.1	0.0	0.0	2.3	0.5	0.5	3.6	1.1	1.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	0.0	0.0	0.7	0.0	0.0	0.3	2.9	3.0	1.0	6.3	6.5
LnGrp Delay(d),s/veh	32.2	0.0	0.0	32.0	0.0	0.0	52.0	9.4	9.5	52.2	10.7	10.6
LnGrp LOS	C			C			D	A	A	D	B	B
Approach Vol, veh/h		46			32			451			890	
Approach Delay, s/veh		32.2			32.0			10.5			12.2	
Approach LOS		C			C			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	8.5	68.0		27.8	6.9	69.7		27.8
Change Period (Y+Rc), s	5.5	5.5		5.5	5.5	5.5		5.5
Max Green Setting (Gmax), s	7.5	62.5		23.5	7.5	62.5		23.5
Max Q Clear Time (g_c+I1), s	3.8	8.0		4.5	2.6	14.9		3.6
Green Ext Time (p_c), s	0.0	11.5		0.4	0.0	11.3		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	12.7
HCM 2010 LOS	B

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	350	1230	180	40	170	350	80	100	330	70	210	500	150
Future Volume (veh/h)	20	350	1230	180	40	170	350	80	100	330	70	210	500	150
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.94		1.00		0.88	1.00		0.92	1.00		0.88
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	0.90
Adj Sat Flow, veh/h/ln		1812	1846	1900		1863	1751	1900	1696	1790	1900	1863	1814	1900
Adj Flow Rate, veh/h		372	1309	175		181	372	50	106	351	58	223	532	133
Adj No. of Lanes		1	3	0		1	3	0	1	2	0	1	2	0
Peak Hour Factor		0.94	0.94	0.94		0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %		5	0	0		2	10	10	12	7	7	2	5	5
Cap, veh/h		248	1727	231		177	1397	180	140	903	147	177	821	203
Arrive On Green		0.05	0.13	0.12		0.10	0.34	0.33	0.09	0.31	0.30	0.10	0.33	0.32
Sat Flow, veh/h		1726	4457	596		1774	4065	522	1616	2889	470	1774	2518	624
Grp Volume(v), veh/h		372	987	497		181	288	134	106	205	204	223	362	303
Grp Sat Flow(s),veh/h/ln		1726	1680	1693		1774	1593	1401	1616	1701	1658	1774	1723	1419
Q Serve(g_s), s		23.0	45.4	45.4		16.0	10.4	11.2	10.3	15.0	15.5	16.0	28.7	29.3
Cycle Q Clear(g_c), s		23.0	45.4	45.4		16.0	10.4	11.2	10.3	15.0	15.5	16.0	28.7	29.3
Prop In Lane		1.00		0.35		1.00		0.37	1.00		0.28	1.00		0.44
Lane Grp Cap(c), veh/h		248	1302	656		177	1095	482	140	531	518	177	562	463
V/C Ratio(X)		1.50	0.76	0.76		1.02	0.26	0.28	0.76	0.38	0.39	1.26	0.65	0.65
Avail Cap(c_a), veh/h		248	1302	656		177	1095	482	252	531	518	177	562	463
HCM Platoon Ratio		0.33	0.33	0.33		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.64	0.64	0.64		0.98	0.98	0.98	0.99	0.99	0.99	0.92	0.92	0.92
Uniform Delay (d), s/veh		76.2	62.5	62.6		72.0	37.9	38.3	71.5	43.0	43.3	72.0	46.0	46.5
Incr Delay (d2), s/veh		237.9	2.7	5.3		72.2	0.6	1.4	8.1	2.1	2.2	150.7	5.2	6.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		27.4	21.6	22.3		11.4	4.7	4.5	4.9	7.4	7.4	15.3	14.5	12.3
LnGrp Delay(d),s/veh		314.1	65.2	67.9		144.4	38.4	39.7	79.5	45.1	45.5	222.7	51.2	53.0
LnGrp LOS		F	E	E		F	D	D	E	D	D	F	D	D
Approach Vol, veh/h			1856				603			515			888	
Approach Delay, s/veh			115.8				70.5			52.3			94.9	
Approach LOS			F				E			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.0	54.0	20.0	66.0	17.8	56.2	27.0	59.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Max Green Setting (Gmax), s	14.5	48.5	14.5	60.5	23.5	39.5	21.5	53.5
Max Q Clear Time (g_c+I1), s	13.0	17.5	18.0	47.4	12.3	31.3	25.0	13.2
Green Ext Time (p_c), s	0.0	8.5	0.0	9.6	0.2	4.3	0.0	20.1

Intersection Summary	
HCM 2010 Ctrl Delay	95.5
HCM 2010 LOS	F

Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	30	350	290	0	0	0	0	380	430	360	730	0
Future Volume (veh/h)	30	350	290	0	0	0	0	380	430	360	730	0
Number	7	4	14				5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.92				1.00		0.84	0.96		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1846	1810				0	1810	1827	1863	1863	0
Adj Flow Rate, veh/h	32	368	69				0	400	279	379	768	0
Adj No. of Lanes	0	1	1				0	2	1	1	2	0
Peak Hour Factor	0.95	0.95	0.95				0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	3	5				0	5	4	2	2	0
Cap, veh/h	51	586	491				0	1507	572	538	2096	0
Arrive On Green	0.35	0.35	0.35				0.00	0.44	0.44	0.12	0.59	0.00
Sat Flow, veh/h	147	1692	1419				0	3529	1305	1774	3632	0
Grp Volume(v), veh/h	400	0	69				0	400	279	379	768	0
Grp Sat Flow(s),veh/h/ln	1839	0	1419				0	1719	1305	1774	1770	0
Q Serve(g_s), s	23.6	0.0	4.3				0.0	9.6	19.9	14.9	14.7	0.0
Cycle Q Clear(g_c), s	23.6	0.0	4.3				0.0	9.6	19.9	14.9	14.7	0.0
Prop In Lane	0.08		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	636	0	491				0	1507	572	538	2096	0
V/C Ratio(X)	0.63	0.00	0.14				0.00	0.27	0.49	0.70	0.37	0.00
Avail Cap(c_a), veh/h	636	0	491				0	1507	572	538	2096	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	35.5	0.0	29.2				0.0	23.2	26.1	15.9	13.8	0.0
Incr Delay (d2), s/veh	4.7	0.0	0.6				0.0	0.4	3.0	4.1	0.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.8	0.0	1.8				0.0	4.6	7.6	7.8	7.3	0.0
LnGrp Delay(d),s/veh	40.2	0.0	29.8				0.0	23.6	29.0	20.0	14.3	0.0
LnGrp LOS	D		C					C	C	C	B	
Approach Vol, veh/h		469						679			1147	
Approach Delay, s/veh		38.6						25.8			16.2	
Approach LOS		D						C			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4		6		
Phs Duration (G+Y+Rc), s	20.0	61.0		49.0		81.0		
Change Period (Y+Rc), s	5.5	5.5		5.5		5.5		
Max Green Setting (Gmax), s	14.5	55.5		43.5		75.5		
Max Q Clear Time (g_c+I1), s	16.9	21.9		25.6		16.7		
Green Ext Time (p_c), s	0.0	12.5		2.7		14.3		

Intersection Summary	
HCM 2010 Ctrl Delay	23.6
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	230	200	240	40	360	0	0	830	60
Future Volume (veh/h)	0	0	0	230	200	240	40	360	0	0	830	60
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		0.93	1.00		1.00	1.00		0.94
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1863	1863	1597	1863	0	0	1863	1900
Adj Flow Rate, veh/h				256	222	267	44	400	0	0	922	59
Adj No. of Lanes				0	2	1	1	2	0	0	2	0
Peak Hour Factor				0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %				2	2	2	19	2	0	0	2	2
Cap, veh/h				774	772	643	227	1737	0	0	1370	88
Arrive On Green				0.44	0.44	0.44	0.05	0.49	0.00	0.00	0.41	0.39
Sat Flow, veh/h				1774	1770	1474	1521	3632	0	0	3457	215
Grp Volume(v), veh/h				256	222	267	44	400	0	0	485	496
Grp Sat Flow(s),veh/h/ln				1774	1770	1474	1521	1770	0	0	1770	1809
Q Serve(g_s), s				10.5	8.9	13.7	1.7	7.1	0.0	0.0	24.6	24.6
Cycle Q Clear(g_c), s				10.5	8.9	13.7	1.7	7.1	0.0	0.0	24.6	24.6
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.12
Lane Grp Cap(c), veh/h				774	772	643	227	1737	0	0	721	737
V/C Ratio(X)				0.33	0.29	0.42	0.19	0.23	0.00	0.00	0.67	0.67
Avail Cap(c_a), veh/h				774	772	643	363	1737	0	0	721	737
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				20.4	20.0	21.3	19.3	16.1	0.0	0.0	26.6	26.7
Incr Delay (d2), s/veh				1.1	0.9	2.0	0.4	0.3	0.0	0.0	5.0	4.9
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				5.4	4.5	5.9	0.7	3.6	0.0	0.0	13.0	13.3
LnGrp Delay(d),s/veh				21.6	20.9	23.3	19.7	16.4	0.0	0.0	31.6	31.6
LnGrp LOS				C	C	C	B	B			C	C
Approach Vol, veh/h					745			444			981	
Approach Delay, s/veh					22.0			16.7			31.6	
Approach LOS					C			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		58.0			9.2	48.8		52.0
Change Period (Y+Rc), s		5.5			5.5	5.5		5.5
Max Green Setting (Gmax), s		52.5			13.5	33.5		46.5
Max Q Clear Time (g_c+I1), s		9.1			3.7	26.6		15.7
Green Ext Time (p_c), s		13.3			0.0	4.6		4.5

Intersection Summary	
HCM 2010 Ctrl Delay	25.2
HCM 2010 LOS	C

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1670	260	10	40	240	120
Future Volume (veh/h)	1670	260	10	40	240	120
Number	6	16	5	2	7	14
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		0.94	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1797	1900	1900	1200	1810	1696
Adj Flow Rate, veh/h	1796	198	11	43	258	129
Adj No. of Lanes	4	0	0	2	2	1
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	6	6	54	54	5	12
Cap, veh/h	4424	488	137	940	449	194
Arrive On Green	0.78	0.77	0.78	0.78	0.13	0.13
Sat Flow, veh/h	5908	624	106	1256	3343	1442
Grp Volume(v), veh/h	1472	522	24	30	258	129
Grp Sat Flow(s),veh/h/ln	1545	1643	270	1038	1672	1442
Q Serve(g_s), s	9.7	9.9	0.7	0.6	6.9	8.2
Cycle Q Clear(g_c), s	9.7	9.9	10.7	0.6	6.9	8.2
Prop In Lane		0.38	0.46		1.00	1.00
Lane Grp Cap(c), veh/h	3627	1285	266	812	449	194
V/C Ratio(X)	0.41	0.41	0.09	0.04	0.57	0.67
Avail Cap(c_a), veh/h	3627	1285	266	812	941	406
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	3.3	3.4	2.6	2.3	38.9	39.5
Incr Delay (d2), s/veh	0.3	1.0	0.7	0.1	1.2	3.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.2	4.8	0.2	0.2	3.3	3.5
LnGrp Delay(d),s/veh	3.7	4.4	3.3	2.4	40.1	43.4
LnGrp LOS	A	A	A	A	D	D
Approach Vol, veh/h	1994			54	387	
Approach Delay, s/veh	3.9			2.8	41.2	
Approach LOS	A			A	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		
Phs Duration (G+Y+Rc), s		79.0		16.9		79.0		
Change Period (Y+Rc), s		5.5		5.5		5.5		
Max Green Setting (Gmax), s		73.5		25.5		73.5		
Max Q Clear Time (g_c+I1), s		12.7		10.2		11.9		
Green Ext Time (p_c), s		28.8		1.2		29.0		

Intersection Summary	
HCM 2010 Ctrl Delay	9.8
HCM 2010 LOS	A

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	130	210	820	230	260	100
Future Volume (veh/h)	130	210	820	230	260	100
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			0.95	1.00	0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1827	1863	1835	1900	1863	1900
Adj Flow Rate, veh/h	143	231	901	155	286	77
Adj No. of Lanes	1	1	4	0	0	0
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	4	2	4	4	0	0
Cap, veh/h	155	1035	2296	387	477	129
Arrive On Green	0.09	0.56	0.42	0.41	0.36	0.34
Sat Flow, veh/h	1740	1863	5696	916	1343	362
Grp Volume(v), veh/h	143	231	782	274	364	0
Grp Sat Flow(s),veh/h/ln	1740	1863	1578	1622	1709	0
Q Serve(g_s), s	7.3	5.7	10.3	10.7	15.7	0.0
Cycle Q Clear(g_c), s	7.3	5.7	10.3	10.7	15.7	0.0
Prop In Lane	1.00			0.56	0.79	0.21
Lane Grp Cap(c), veh/h	155	1035	1999	685	608	0
V/C Ratio(X)	0.92	0.22	0.39	0.40	0.60	0.00
Avail Cap(c_a), veh/h	155	1035	1999	685	608	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	40.7	10.1	18.0	18.4	23.9	0.0
Incr Delay (d2), s/veh	50.5	0.5	0.6	1.7	4.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.7	3.0	4.6	5.1	8.1	0.0
LnGrp Delay(d),s/veh	91.2	10.6	18.6	20.2	28.2	0.0
LnGrp LOS	F	B	B	C	C	
Approach Vol, veh/h		374	1056		364	
Approach Delay, s/veh		41.5	19.0		28.2	
Approach LOS		D	B		C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6	7	8
Phs Duration (G+Y+Rc), s				54.0		36.0	12.0	42.0
Change Period (Y+Rc), s				5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s				48.5		30.5	6.5	36.5
Max Q Clear Time (g_c+I1), s				7.7		17.7	9.3	12.7
Green Ext Time (p_c), s				12.2		1.0	0.0	10.1

Intersection Summary	
HCM 2010 Ctrl Delay	25.5
HCM 2010 LOS	C

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	110	1000	340	10	60	370	120	70	190	50	40	290	170
Future Volume (veh/h)	20	110	1000	340	10	60	370	120	70	190	50	40	290	170
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.93		1.00		0.89	1.00		0.98	1.00		0.85
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1845	1863	1900		1827	1783	1900	1900	1841	1900	1900	1863	1900
Adj Flow Rate, veh/h		122	1111	291		67	411	57	78	211	48	44	322	167
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.90	0.90	0.90		0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %		3	2	2		4	8	8	4	4	4	2	2	2
Cap, veh/h		209	2188	573		100	2111	282	69	158	33	54	297	149
Arrive On Green		0.24	1.00	1.00		0.06	0.49	0.48	0.31	0.31	0.30	0.31	0.31	0.30
Sat Flow, veh/h		1757	3941	1032		1740	4276	572	131	504	105	96	952	478
Grp Volume(v), veh/h		122	956	446		67	308	160	337	0	0	533	0	0
Grp Sat Flow(s),veh/h/ln		1757	1695	1583		1740	1623	1601	741	0	0	1525	0	0
Q Serve(g_s), s		9.8	0.0	0.0		6.0	8.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s		9.8	0.0	0.0		6.0	8.5	9.0	50.0	0.0	0.0	50.0	0.0	0.0
Prop In Lane		1.00		0.65		1.00		0.36	0.23		0.14	0.08		0.31
Lane Grp Cap(c), veh/h		209	1882	879		100	1603	791	259	0	0	501	0	0
V/C Ratio(X)		0.58	0.51	0.51		0.67	0.19	0.20	1.30	0.00	0.00	1.06	0.00	0.00
Avail Cap(c_a), veh/h		209	1882	879		152	1603	791	259	0	0	501	0	0
HCM Platoon Ratio		2.00	2.00	2.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.40	0.40	0.40		1.00	1.00	1.00	0.25	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		57.5	0.0	0.0		73.9	22.7	22.9	54.9	0.0	0.0	56.0	0.0	0.0
Incr Delay (d2), s/veh		1.7	0.4	0.8		7.6	0.3	0.6	142.4	0.0	0.0	58.2	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.8	0.1	0.2		3.1	3.9	4.1	21.7	0.0	0.0	30.2	0.0	0.0
LnGrp Delay(d),s/veh		59.2	0.4	0.8		81.5	22.9	23.5	197.3	0.0	0.0	114.2	0.0	0.0
LnGrp LOS		E	A	A		F	C	C	F			F		
Approach Vol, veh/h			1524				535			337			533	
Approach Delay, s/veh			5.2				30.4			197.3			114.2	
Approach LOS			A				C			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		54.0	13.2	92.8		54.0	23.0	83.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		48.5	12.5	82.5		48.5	17.5	77.5
Max Q Clear Time (g_c+I1), s		52.0	8.0	2.0		52.0	11.8	11.0
Green Ext Time (p_c), s		0.0	0.0	16.6		0.0	1.1	3.5

Intersection Summary	
HCM 2010 Ctrl Delay	51.8
HCM 2010 LOS	D

Notes

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1030	110	110	770	20	30
Future Volume (veh/h)	1030	110	110	770	20	30
Number	4	14	3	8	5	12
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	980	1000	1000	980	1863	1863
Adj Flow Rate, veh/h	1120	120	120	837	22	33
Adj No. of Lanes	3	0	0	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	1500	161	149	972	84	75
Arrive On Green	0.86	0.86	0.86	0.86	0.05	0.05
Sat Flow, veh/h	2232	186	110	1172	1774	1583
Grp Volume(v), veh/h	630	610	368	589	22	33
Grp Sat Flow(s),veh/h/ln	490	947	390	848	1774	1583
Q Serve(g_s), s	22.0	22.1	53.0	27.8	1.1	1.8
Cycle Q Clear(g_c), s	22.0	22.1	76.0	27.8	1.1	1.8
Prop In Lane		0.20	0.33		1.00	1.00
Lane Grp Cap(c), veh/h	845	816	390	730	84	75
V/C Ratio(X)	0.75	0.75	0.94	0.81	0.26	0.44
Avail Cap(c_a), veh/h	845	816	390	730	724	646
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	2.4	2.4	14.0	2.8	40.5	40.9
Incr Delay (d2), s/veh	6.0	6.2	33.4	9.3	1.6	4.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.5	6.8	12.5	8.1	0.6	0.9
LnGrp Delay(d),s/veh	8.3	8.6	47.4	12.0	42.1	44.8
LnGrp LOS	A	A	D	B	D	D
Approach Vol, veh/h	1240			957	55	
Approach Delay, s/veh	8.4			25.6	43.7	
Approach LOS	A			C	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4				8
Phs Duration (G+Y+Rc), s		8.2		80.0				80.0
Change Period (Y+Rc), s		4.5		4.5				4.5
Max Green Setting (Gmax), s		35.5		75.5				75.5
Max Q Clear Time (g_c+I1), s		3.8		25.0				78.0
Green Ext Time (p_c), s		0.1		28.5				0.0

Intersection Summary	
HCM 2010 Ctrl Delay	16.6
HCM 2010 LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	710	450	300	840	20	640	0	420	0	0	10
Future Volume (veh/h)	20	710	450	300	840	20	640	0	420	0	0	10
Number	7	4	14	3	8	18	5	2	12			
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		0.95	1.00		0.89	1.00		0.86			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	1863	1845	1863	1863	1863	1900	1863	1863	1863			
Adj Flow Rate, veh/h	21	732	193	309	866	19	660	0	62			
Adj No. of Lanes	1	2	1	1	2	0	2	0	1			
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97			
Percent Heavy Veh, %	2	3	2	2	2	2	2	2	2			
Cap, veh/h	75	1637	702	342	2180	48	845	0	322			
Arrive On Green	0.04	0.47	0.47	0.19	0.62	0.60	0.24	0.00	0.24			
Sat Flow, veh/h	1774	3505	1502	1774	3530	77	3548	0	1354			
Grp Volume(v), veh/h	21	732	193	309	434	451	660	0	62			
Grp Sat Flow(s),veh/h/ln	1774	1752	1502	1774	1770	1838	1774	0	1354			
Q Serve(g_s), s	1.4	16.6	9.3	20.0	14.6	14.7	20.5	0.0	4.3			
Cycle Q Clear(g_c), s	1.4	16.6	9.3	20.0	14.6	14.7	20.5	0.0	4.3			
Prop In Lane	1.00		1.00	1.00		0.04	1.00		1.00			
Lane Grp Cap(c), veh/h	75	1637	702	342	1093	1135	845	0	322			
V/C Ratio(X)	0.28	0.45	0.28	0.90	0.40	0.40	0.78	0.00	0.19			
Avail Cap(c_a), veh/h	211	1637	702	362	1093	1135	874	0	334			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	54.6	21.1	19.2	46.5	11.4	11.4	42.0	0.0	35.8			
Incr Delay (d2), s/veh	2.0	0.9	1.0	24.4	1.1	1.0	4.5	0.0	0.3			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.7	8.2	4.0	12.1	7.4	7.7	10.5	0.0	1.6			
LnGrp Delay(d),s/veh	56.6	22.0	20.1	70.8	12.5	12.5	46.5	0.0	36.1			
LnGrp LOS	E	C	C	E	B	B	D		D			
Approach Vol, veh/h		946			1194			722				
Approach Delay, s/veh		22.4			27.6			45.6				
Approach LOS		C			C			D				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4			7	8
Phs Duration (G+Y+Rc), s		32.0	26.7	59.0			9.0	76.7
Change Period (Y+Rc), s		5.5	4.5	5.5			5.5	5.5
Max Green Setting (Gmax), s		27.5	23.5	53.5			12.5	63.5
Max Q Clear Time (g_c+I1), s		22.5	22.0	18.6			3.4	16.7
Green Ext Time (p_c), s		1.4	0.2	15.2			0.0	16.8

Intersection Summary	
HCM 2010 Ctrl Delay	30.4
HCM 2010 LOS	C

Notes

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	120	780	790	290	140	140
Future Volume (veh/h)	120	780	790	290	140	140
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.99			0.94	1.00	0.78
Parking Bus, Adj	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1863	1863	1854	1900
Adj Flow Rate, veh/h	124	804	814	85	144	98
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	0	0
Cap, veh/h	293	1818	2640	1004	166	113
Arrive On Green	0.75	0.75	1.00	1.00	0.19	0.17
Sat Flow, veh/h	339	2523	3632	1346	888	604
Grp Volume(v), veh/h	393	535	814	85	243	0
Grp Sat Flow(s),veh/h/ln	1167	1610	1770	1346	1499	0
Q Serve(g_s), s	7.6	15.2	0.0	0.0	18.9	0.0
Cycle Q Clear(g_c), s	11.9	15.2	0.0	0.0	18.9	0.0
Prop In Lane	0.32			1.00	0.59	0.40
Lane Grp Cap(c), veh/h	910	1201	2640	1004	281	0
V/C Ratio(X)	0.43	0.45	0.31	0.08	0.87	0.00
Avail Cap(c_a), veh/h	910	1201	2640	1004	287	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.93	0.93	0.75	0.00
Uniform Delay (d), s/veh	5.1	5.8	0.0	0.0	47.6	0.0
Incr Delay (d2), s/veh	1.5	1.2	0.3	0.2	18.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.9	7.1	0.1	0.0	9.2	0.0
LnGrp Delay(d),s/veh	6.6	7.0	0.3	0.2	65.6	0.0
LnGrp LOS	A	A	A	A	E	
Approach Vol, veh/h		928	899		243	
Approach Delay, s/veh		6.8	0.3		65.6	
Approach LOS		A	A		E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				93.5		26.5		93.5
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				87.5		21.5		87.5
Max Q Clear Time (g_c+I1), s				17.2		20.9		2.0
Green Ext Time (p_c), s				25.1		0.1		26.3

Intersection Summary	
HCM 2010 Ctrl Delay	10.9
HCM 2010 LOS	B

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	150	230	1410	140	30	30	860	100	310	130	50	60	200	460
Future Volume (veh/h)	150	230	1410	140	30	30	860	100	310	130	50	60	200	460
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.99		1.00		0.82	0.96		0.89	0.94		0.92
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1769	1900	1863	1863	1900	1900	1841	1863
Adj Flow Rate, veh/h		237	1454	131		31	887	92	320	134	41	62	206	258
Adj No. of Lanes		1	3	0		1	3	0	1	1	0	0	1	1
Peak Hour Factor		0.97	0.97	0.97		0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %		2	2	2		2	8	8	2	2	2	3	3	2
Cap, veh/h		276	2899	261		58	2122	218	230	373	114	102	304	412
Arrive On Green		0.16	0.61	0.60		0.07	0.98	0.96	0.28	0.28	0.27	0.28	0.28	0.28
Sat Flow, veh/h		1774	4744	427		1774	4350	447	1128	1328	406	264	1081	1463
Grp Volume(v), veh/h		237	1039	546		31	655	324	320	0	175	268	0	258
Grp Sat Flow(s),veh/h/ln		1774	1695	1781		1774	1610	1576	1128	0	1734	1345	0	1463
Q Serve(g_s), s		20.8	27.5	27.6		2.7	1.3	1.6	13.2	0.0	12.9	18.8	0.0	24.6
Cycle Q Clear(g_c), s		20.8	27.5	27.6		2.7	1.3	1.6	45.0	0.0	12.9	31.8	0.0	24.6
Prop In Lane		1.00		0.24		1.00		0.28	1.00		0.23	0.23		1.00
Lane Grp Cap(c), veh/h		276	2071	1088		58	1571	769	230	0	488	406	0	412
V/C Ratio(X)		0.86	0.50	0.50		0.53	0.42	0.42	1.39	0.00	0.36	0.66	0.00	0.63
Avail Cap(c_a), veh/h		455	2071	1088		244	1571	769	230	0	488	406	0	412
HCM Platoon Ratio		1.00	1.00	1.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.97	0.97	0.97	0.96	0.00	0.96	1.00	0.00	1.00
Uniform Delay (d), s/veh		65.8	17.5	17.6		73.6	1.0	1.2	65.7	0.0	46.1	54.4	0.0	50.2
Incr Delay (d2), s/veh		8.6	0.9	1.7		7.2	0.8	1.6	200.2	0.0	2.0	8.2	0.0	7.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		10.9	13.1	14.0		1.4	0.5	0.8	22.9	0.0	6.5	11.8	0.0	10.8
LnGrp Delay(d),s/veh		74.4	18.3	19.2		80.8	1.8	2.9	265.9	0.0	48.1	62.6	0.0	57.2
LnGrp LOS		E	B	B		F	A	A	F		D	E		E
Approach Vol, veh/h			1822				1010			495			526	
Approach Delay, s/veh			25.9				4.6			188.9			60.0	
Approach LOS			C				A			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		49.0	9.2	101.8		49.0	28.9	82.1
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		43.5	20.5	79.5		43.5	39.5	60.5
Max Q Clear Time (g_c+I1), s		47.0	4.7	29.6		33.8	22.8	3.6
Green Ext Time (p_c), s		0.0	0.0	32.8		3.8	0.6	35.6

Intersection Summary	
HCM 2010 Ctrl Delay	45.9
HCM 2010 LOS	D

Notes

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	90	850	1020	180	80	40
Future Volume (veh/h)	90	850	1020	180	80	40
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.99			0.94	1.00	0.89
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1863	1863	1845	1900
Adj Flow Rate, veh/h	95	895	1074	23	84	20
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	0	0
Cap, veh/h	218	1975	2693	1133	231	55
Arrive On Green	0.76	0.76	1.00	1.00	0.17	0.16
Sat Flow, veh/h	239	2681	3632	1489	1338	319
Grp Volume(v), veh/h	430	560	1074	23	105	0
Grp Sat Flow(s),veh/h/ln	1225	1610	1770	1489	1673	0
Q Serve(g_s), s	3.0	15.3	0.0	0.0	6.7	0.0
Cycle Q Clear(g_c), s	10.1	15.3	0.0	0.0	6.7	0.0
Prop In Lane	0.22			1.00	0.80	0.19
Lane Grp Cap(c), veh/h	969	1225	2693	1133	289	0
V/C Ratio(X)	0.44	0.46	0.40	0.02	0.36	0.00
Avail Cap(c_a), veh/h	969	1225	2693	1133	376	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	0.74	0.74	0.09	0.09	1.00	0.00
Uniform Delay (d), s/veh	4.5	5.3	0.0	0.0	44.0	0.0
Incr Delay (d2), s/veh	1.1	0.9	0.0	0.0	0.8	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.8	7.0	0.0	0.0	3.2	0.0
LnGrp Delay(d),s/veh	5.6	6.2	0.0	0.0	44.7	0.0
LnGrp LOS	A	A	A	A	D	
Approach Vol, veh/h		990	1097		105	
Approach Delay, s/veh		5.9	0.0		44.7	
Approach LOS		A	A		D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				95.3		24.7		95.3
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				83.5		25.5		83.5
Max Q Clear Time (g_c+I1), s				17.3		8.7		2.0
Green Ext Time (p_c), s				32.2		0.2		34.9

Intersection Summary	
HCM 2010 Ctrl Delay	4.8
HCM 2010 LOS	A

Notes

Intersection	
Int Delay, s/veh	1.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	30	20	270	40	20	100
Future Vol, veh/h	30	20	270	40	20	100
Conflicting Peds, #/hr	0	21	0	27	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	34	23	307	45	23	114

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	516	378	0	0	379	0
Stage 1	357	-	-	-	-	-
Stage 2	159	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	519	669	-	-	1179	-
Stage 1	708	-	-	-	-	-
Stage 2	870	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	495	639	-	-	1155	-
Mov Cap-2 Maneuver	495	-	-	-	-	-
Stage 1	690	-	-	-	-	-
Stage 2	852	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	12.4	0	1.4
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	544	1155	-
HCM Lane V/C Ratio	-	-	0.104	0.02	-
HCM Control Delay (s)	-	-	12.4	8.2	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.3	0.1	-

Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (veh/h)	0	1460	100	20	40	830	10	170	10	130	10	10
Future Volume (veh/h)	0	1460	100	20	40	830	10	170	10	130	10	10
Number	7	4	14		3	8	18	5	2	12	1	6
Initial Q (Qb), veh	0	0	0		0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.92		1.00		0.95	0.92		0.94	0.99	
Parking Bus, Adj	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1863	1900		1863	1760	1900	1900	1863	1900	1900	1863
Adj Flow Rate, veh/h	0	1521	95		42	865	9	177	10	111	10	10
Adj No. of Lanes	0	3	0		1	3	0	0	1	0	0	1
Peak Hour Factor	0.96	0.96	0.96		0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	2	2		2	8	8	2	2	2	2	2
Cap, veh/h	0	2940	184		70	3278	34	243	12	130	179	175
Arrive On Green	0.00	1.00	1.00		0.08	1.00	1.00	0.28	0.28	0.27	0.28	0.28
Sat Flow, veh/h	0	5034	304		1774	4901	51	737	42	462	526	621
Grp Volume(v), veh/h	0	1060	556		42	565	309	298	0	0	26	0
Grp Sat Flow(s),veh/h/ln	0	1695	1780		1774	1602	1748	1241	0	0	1491	0
Q Serve(g_s), s	0.0	0.0	0.0		3.7	0.0	0.0	34.5	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	0.0		3.7	0.0	0.0	36.3	0.0	0.0	1.7	0.0
Prop In Lane	0.00		0.17		1.00		0.03	0.59		0.37	0.38	
Lane Grp Cap(c), veh/h	0	2048	1075		70	2143	1169	385	0	0	451	0
V/C Ratio(X)	0.00	0.52	0.52		0.60	0.26	0.26	0.77	0.00	0.00	0.06	0.00
Avail Cap(c_a), veh/h	0	2048	1075		211	2143	1169	385	0	0	451	0
HCM Platoon Ratio	1.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.82	0.82		0.85	0.85	0.85	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	0.0		72.5	0.0	0.0	54.4	0.0	0.0	42.1	0.0
Incr Delay (d2), s/veh	0.0	0.8	1.5		6.8	0.3	0.5	14.1	0.0	0.0	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.2	0.4		1.9	0.1	0.2	13.9	0.0	0.0	0.9	0.0
LnGrp Delay(d),s/veh	0.0	0.8	1.5		79.2	0.3	0.5	68.5	0.0	0.0	42.3	0.0
LnGrp LOS		A	A		E	A	A	E			D	
Approach Vol, veh/h		1616				916			298			26
Approach Delay, s/veh		1.0				3.9			68.5			42.3
Approach LOS		A				A			E			D

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6		8
Phs Duration (G+Y+Rc), s		49.0	10.3	100.7		49.0		111.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s		43.5	17.5	82.5		43.5		105.5
Max Q Clear Time (g_c+I1), s		38.3	5.7	2.0		3.7		2.0
Green Ext Time (p_c), s		0.9	0.0	40.4		2.5		44.6

Intersection Summary	
HCM 2010 Ctrl Delay	9.4
HCM 2010 LOS	A

Notes

Movement	SBR
Lane Configurations	
Traffic Volume (veh/h)	10
Future Volume (veh/h)	10
Number	16
Initial Q (Qb), veh	0
Ped-Bike Adj(A_pbT)	0.91
Parking Bus, Adj	1.00
Adj Sat Flow, veh/h/ln	1900
Adj Flow Rate, veh/h	6
Adj No. of Lanes	0
Peak Hour Factor	0.96
Percent Heavy Veh, %	2
Cap, veh/h	97
Arrive On Green	0.27
Sat Flow, veh/h	344
Grp Volume(v), veh/h	0
Grp Sat Flow(s),veh/h/ln	0
Q Serve(g_s), s	0.0
Cycle Q Clear(g_c), s	0.0
Prop In Lane	0.23
Lane Grp Cap(c), veh/h	0
V/C Ratio(X)	0.00
Avail Cap(c_a), veh/h	0
HCM Platoon Ratio	1.00
Upstream Filter(I)	0.00
Uniform Delay (d), s/veh	0.0
Incr Delay (d2), s/veh	0.0
Initial Q Delay(d3),s/veh	0.0
%ile BackOfQ(50%),veh/ln	0.0
LnGrp Delay(d),s/veh	0.0
LnGrp LOS	
Approach Vol, veh/h	
Approach Delay, s/veh	
Approach LOS	

Timer

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	620	710	200	330	40	680	1110	280	0	680	40
Future Volume (veh/h)	0	620	710	200	330	40	680	1110	280	0	680	40
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.87	1.00		1.00	1.00		0.71
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1851	1827	1681	1851	1900	1845	1779	1900	0	1863	1900
Adj Flow Rate, veh/h	0	607	778	200	362	42	471	1511	0	0	716	42
Adj No. of Lanes	0	1	2	1	2	0	1	3	0	0	3	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	2	4	13	2	2	3	2	2	0	2	2
Cap, veh/h	0	614	1440	243	1655	189	234	2224	0	0	1198	69
Arrive On Green	0.00	0.33	0.33	0.15	0.52	0.50	0.13	0.42	0.00	0.00	0.25	0.24
Sat Flow, veh/h	0	1851	3095	1601	3204	367	1757	5338	0	0	4961	277
Grp Volume(v), veh/h	0	607	778	200	207	197	471	1511	0	0	503	255
Grp Sat Flow(s),veh/h/ln	0	1851	1547	1601	1851	1720	1757	1779	0	0	1695	1680
Q Serve(g_s), s	0.0	39.1	21.6	14.5	7.3	7.5	16.0	27.6	0.0	0.0	15.7	16.1
Cycle Q Clear(g_c), s	0.0	39.1	21.6	14.5	7.3	7.5	16.0	27.6	0.0	0.0	15.7	16.1
Prop In Lane	0.00		1.00	1.00		0.21	1.00		0.00	0.00		0.16
Lane Grp Cap(c), veh/h	0	614	1440	243	956	888	234	2224	0	0	848	420
V/C Ratio(X)	0.00	0.99	0.54	0.82	0.22	0.22	2.01	0.68	0.00	0.00	0.59	0.61
Avail Cap(c_a), veh/h	0	614	1440	294	956	888	234	2224	0	0	848	420
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.09	0.09	0.99	0.99	0.99	0.72	0.72	0.00	0.00	0.84	0.84
Uniform Delay (d), s/veh	0.0	39.9	22.9	49.3	15.8	15.9	52.0	28.5	0.0	0.0	39.6	39.9
Incr Delay (d2), s/veh	0.0	8.7	0.1	14.4	0.5	0.6	465.6	1.2	0.0	0.0	2.6	5.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	21.4	9.2	7.4	3.9	3.7	38.0	13.8	0.0	0.0	7.6	8.1
LnGrp Delay(d),s/veh	0.0	48.5	23.1	63.7	16.3	16.5	517.6	29.7	0.0	0.0	42.2	45.3
LnGrp LOS		D	C	E	B	B	F	C			D	D
Approach Vol, veh/h		1385			604			1982			758	
Approach Delay, s/veh		34.2			32.1			145.6			43.2	
Approach LOS		C			C			F			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4		6		8
Phs Duration (G+Y+Rc), s	12.2	43.8	20.0	34.0		66.0		54.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s	20.5	34.5	14.5	28.5		60.5		48.5
Max Q Clear Time (g_c+I1), s	16.5	41.1	18.0	18.1		9.5		29.6
Green Ext Time (p_c), s	0.2	0.0	0.0	8.9		15.3		15.0

Intersection Summary	
HCM 2010 Ctrl Delay	82.1
HCM 2010 LOS	F

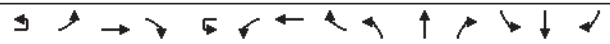
Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	10	0	20	30	0	40	10	860	20	20	530	10
Future Volume (veh/h)	10	0	20	30	0	40	10	860	20	20	530	10
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.91		0.82	0.84		0.90	1.00		0.88	1.00		0.92
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1782	1900	1900	1863	1900	1863	1761	1900	1863	1777	1900
Adj Flow Rate, veh/h	11	0	12	32	0	11	11	905	18	21	558	8
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	8	8	2	7	7
Cap, veh/h	174	15	149	264	9	73	49	2073	41	65	2139	31
Arrive On Green	0.23	0.00	0.21	0.23	0.00	0.21	0.03	0.62	0.61	0.04	0.63	0.61
Sat Flow, veh/h	536	64	655	893	38	320	1774	3346	67	1774	3403	49
Grp Volume(v), veh/h	23	0	0	43	0	0	11	453	470	21	277	289
Grp Sat Flow(s),veh/h/ln	1256	0	0	1250	0	0	1774	1673	1739	1774	1688	1763
Q Serve(g_s), s	0.0	0.0	0.0	1.1	0.0	0.0	0.6	14.6	14.6	1.2	7.5	7.5
Cycle Q Clear(g_c), s	1.3	0.0	0.0	2.4	0.0	0.0	0.6	14.6	14.6	1.2	7.5	7.5
Prop In Lane	0.48		0.52	0.74		0.26	1.00		0.04	1.00		0.03
Lane Grp Cap(c), veh/h	337	0	0	345	0	0	49	1037	1078	65	1061	1108
V/C Ratio(X)	0.07	0.00	0.00	0.12	0.00	0.00	0.22	0.44	0.44	0.32	0.26	0.26
Avail Cap(c_a), veh/h	355	0	0	363	0	0	155	1037	1078	155	1061	1108
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.6	0.0	0.0	31.8	0.0	0.0	49.1	10.2	10.3	48.5	8.5	8.5
Incr Delay (d2), s/veh	0.1	0.0	0.0	0.2	0.0	0.0	2.3	1.3	1.3	2.9	0.6	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	0.0	0.0	1.0	0.0	0.0	0.3	7.0	7.3	0.6	3.6	3.8
LnGrp Delay(d),s/veh	31.7	0.0	0.0	32.0	0.0	0.0	51.4	11.6	11.5	51.4	9.1	9.1
LnGrp LOS	C			C			D	B	B	D	A	A
Approach Vol, veh/h		23			43			934			587	
Approach Delay, s/veh		31.7			32.0			12.0			10.6	
Approach LOS		C			C			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	7.8	68.0		27.5	6.9	68.9		27.5
Change Period (Y+Rc), s	5.5	5.5		5.5	5.5	5.5		5.5
Max Green Setting (Gmax), s	7.5	62.5		23.5	7.5	62.5		23.5
Max Q Clear Time (g_c+I1), s	3.2	16.6		3.3	2.6	9.5		4.4
Green Ext Time (p_c), s	0.0	14.0		0.3	0.0	14.4		0.3

Intersection Summary	
HCM 2010 Ctrl Delay	12.3
HCM 2010 LOS	B

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	30	350	1050	120	30	140	570	110	160	620	110	140	310	140
Future Volume (veh/h)	30	350	1050	120	30	140	570	110	160	620	110	140	310	140
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.99		1.00		0.87	1.00		0.95	1.00		0.85
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	0.90
Adj Sat Flow, veh/h/ln		1863	1848	1900		1863	1863	1900	1397	1832	1900	1863	1814	1900
Adj Flow Rate, veh/h		368	1105	110		147	600	73	168	653	91	147	326	133
Adj No. of Lanes		1	3	0		1	3	0	1	2	0	1	2	0
Peak Hour Factor		0.95	0.95	0.95		0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %		2	2	2		2	2	2	36	4	4	2	6	6
Cap, veh/h		255	1806	180		177	1501	178	194	952	132	177	581	226
Arrive On Green		0.10	0.26	0.25		0.10	0.34	0.33	0.15	0.31	0.30	0.10	0.27	0.26
Sat Flow, veh/h		1774	4660	463		1774	4367	518	1331	3047	424	1774	2176	848
Grp Volume(v), veh/h		368	797	418		147	462	211	168	373	371	147	255	204
Grp Sat Flow(s),veh/h/ln		1774	1682	1760		1774	1695	1495	1331	1741	1730	1774	1723	1301
Q Serve(g_s), s		23.0	33.4	33.5		13.0	16.6	17.3	19.8	30.0	30.1	13.0	20.4	21.9
Cycle Q Clear(g_c), s		23.0	33.4	33.5		13.0	16.6	17.3	19.8	30.0	30.1	13.0	20.4	21.9
Prop In Lane		1.00		0.26		1.00		0.35	1.00		0.25	1.00		0.65
Lane Grp Cap(c), veh/h		255	1303	682		177	1165	514	194	544	541	177	460	347
V/C Ratio(X)		1.44	0.61	0.61		0.83	0.40	0.41	0.87	0.68	0.69	0.83	0.55	0.59
Avail Cap(c_a), veh/h		255	1303	682		177	1165	514	208	544	541	177	460	347
HCM Platoon Ratio		0.67	0.67	0.67		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.80	0.80	0.80		0.94	0.94	0.94	0.94	0.94	0.94	0.98	0.98	0.98
Uniform Delay (d), s/veh		72.3	48.6	48.8		70.7	39.9	40.3	66.8	48.1	48.3	70.7	50.5	51.5
Incr Delay (d2), s/veh		216.4	1.7	3.3		25.4	1.0	2.3	27.3	6.5	6.6	26.2	4.7	7.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		26.6	15.9	17.0		7.6	7.9	7.5	8.7	15.4	15.3	7.7	10.3	8.6
LnGrp Delay(d),s/veh		288.7	50.4	52.1		96.1	40.8	42.6	94.1	54.6	54.9	96.9	55.2	58.5
LnGrp LOS		F	D	D		F	D	D	F	D	D	F	E	E
Approach Vol, veh/h			1583				820			912			606	
Approach Delay, s/veh			106.2				51.2			62.0			66.4	
Approach LOS			F				D			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.0	54.0	20.0	66.0	27.3	46.7	27.0	59.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Max Green Setting (Gmax), s	14.5	48.5	14.5	60.5	23.5	39.5	21.5	53.5
Max Q Clear Time (g_c+I1), s	15.0	32.1	15.0	35.5	21.8	23.9	25.0	19.3
Green Ext Time (p_c), s	0.0	7.5	0.0	14.9	0.1	7.3	0.0	17.8

Intersection Summary	
HCM 2010 Ctrl Delay	78.3
HCM 2010 LOS	E

Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	70	420	170	0	0	0	0	570	550	170	430	0
Future Volume (veh/h)	70	420	170	0	0	0	0	570	550	170	430	0
Number	7	4	14				5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98				1.00		0.94	0.99		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1827				0	1827	1863	1863	1863	0
Adj Flow Rate, veh/h	75	452	70				0	613	325	183	462	0
Adj No. of Lanes	0	1	1				0	2	1	1	2	0
Peak Hour Factor	0.93	0.93	0.93				0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	4	2	4				0	4	2	2	2	0
Cap, veh/h	91	549	524				0	1680	717	413	2096	0
Arrive On Green	0.35	0.35	0.35				0.00	0.48	0.48	0.08	0.59	0.00
Sat Flow, veh/h	263	1586	1515				0	3563	1482	1774	3632	0
Grp Volume(v), veh/h	527	0	70				0	613	325	183	462	0
Grp Sat Flow(s),veh/h/ln	1850	0	1515				0	1736	1482	1774	1770	0
Q Serve(g_s), s	33.9	0.0	4.1				0.0	14.4	18.8	6.3	8.0	0.0
Cycle Q Clear(g_c), s	33.9	0.0	4.1				0.0	14.4	18.8	6.3	8.0	0.0
Prop In Lane	0.14		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	640	0	524				0	1680	717	413	2096	0
V/C Ratio(X)	0.82	0.00	0.13				0.00	0.36	0.45	0.44	0.22	0.00
Avail Cap(c_a), veh/h	640	0	524				0	1680	717	494	2096	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	38.9	0.0	29.1				0.0	21.0	22.2	14.5	12.4	0.0
Incr Delay (d2), s/veh	11.4	0.0	0.5				0.0	0.6	2.1	0.7	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	19.3	0.0	1.8				0.0	7.0	8.1	3.1	3.9	0.0
LnGrp Delay(d),s/veh	50.3	0.0	29.7				0.0	21.6	24.2	15.2	12.7	0.0
LnGrp LOS	D		C					C	C	B	B	
Approach Vol, veh/h		597						938			645	
Approach Delay, s/veh		47.9						22.5			13.4	
Approach LOS		D						C			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4		6		
Phs Duration (G+Y+Rc), s	14.1	66.9		49.0		81.0		
Change Period (Y+Rc), s	5.5	5.5		5.5		5.5		
Max Green Setting (Gmax), s	14.5	55.5		43.5		75.5		
Max Q Clear Time (g_c+I1), s	8.3	20.8		35.9		10.0		
Green Ext Time (p_c), s	0.3	11.5		2.3		12.9		

Intersection Summary	
HCM 2010 Ctrl Delay	26.8
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	190	250	240	80	560	0	0	400	80
Future Volume (veh/h)	0	0	0	190	250	240	80	560	0	0	400	80
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		0.97	1.00		1.00	1.00		0.99
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1863	1863	1624	1863	0	0	1848	1900
Adj Flow Rate, veh/h				198	260	33	83	583	0	0	417	52
Adj No. of Lanes				0	2	1	1	2	0	0	2	0
Peak Hour Factor				0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %				2	2	2	17	2	0	0	3	3
Cap, veh/h				774	772	673	398	1737	0	0	1242	154
Arrive On Green				0.44	0.44	0.44	0.06	0.49	0.00	0.00	0.40	0.38
Sat Flow, veh/h				1774	1770	1543	1547	3632	0	0	3231	389
Grp Volume(v), veh/h				198	260	33	83	583	0	0	232	237
Grp Sat Flow(s),veh/h/ln				1774	1770	1543	1547	1770	0	0	1755	1772
Q Serve(g_s), s				7.8	10.7	1.4	3.3	11.0	0.0	0.0	10.1	10.3
Cycle Q Clear(g_c), s				7.8	10.7	1.4	3.3	11.0	0.0	0.0	10.1	10.3
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.22
Lane Grp Cap(c), veh/h				774	772	673	398	1737	0	0	695	702
V/C Ratio(X)				0.26	0.34	0.05	0.21	0.34	0.00	0.00	0.33	0.34
Avail Cap(c_a), veh/h				774	772	673	518	1737	0	0	695	702
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				19.7	20.5	17.9	16.9	17.1	0.0	0.0	23.1	23.3
Incr Delay (d2), s/veh				0.8	1.2	0.1	0.3	0.5	0.0	0.0	1.3	1.3
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				4.0	5.5	0.6	1.4	5.5	0.0	0.0	5.1	5.3
LnGrp Delay(d),s/veh				20.5	21.7	18.0	17.2	17.6	0.0	0.0	24.4	24.6
LnGrp LOS				C	C	B	B	B			C	C
Approach Vol, veh/h					491			666			469	
Approach Delay, s/veh					20.9			17.5			24.5	
Approach LOS					C			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		58.0			10.5	47.5		52.0
Change Period (Y+Rc), s		5.5			5.5	5.5		5.5
Max Green Setting (Gmax), s		52.5			13.5	33.5		46.5
Max Q Clear Time (g_c+I1), s		13.0			5.3	12.3		12.7
Green Ext Time (p_c), s		9.0			0.1	7.5		3.3

Intersection Summary	
HCM 2010 Ctrl Delay	20.6
HCM 2010 LOS	C

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1250	130	10	40	570	350
Future Volume (veh/h)	1250	130	10	40	570	350
Number	6	16	5	2	7	14
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		0.94	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1796	1900	1900	1064	1863	1863
Adj Flow Rate, veh/h	1330	92	11	43	606	372
Adj No. of Lanes	4	0	0	2	2	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	6	6	73	73	2	2
Cap, veh/h	4033	278	145	788	845	389
Arrive On Green	0.68	0.67	0.68	0.68	0.25	0.25
Sat Flow, veh/h	6167	408	145	1205	3442	1583
Grp Volume(v), veh/h	1041	381	26	28	606	372
Grp Sat Flow(s),veh/h/ln	1544	1691	381	920	1721	1583
Q Serve(g_s), s	10.1	10.3	0.5	1.1	17.7	25.5
Cycle Q Clear(g_c), s	10.1	10.3	10.8	1.1	17.7	25.5
Prop In Lane		0.24	0.42		1.00	1.00
Lane Grp Cap(c), veh/h	3159	1153	306	627	845	389
V/C Ratio(X)	0.33	0.33	0.08	0.04	0.72	0.96
Avail Cap(c_a), veh/h	3159	1153	306	627	845	389
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	7.2	7.3	6.0	5.7	38.0	40.9
Incr Delay (d2), s/veh	0.3	0.8	0.5	0.1	2.9	34.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	4.9	0.3	0.3	8.8	14.9
LnGrp Delay(d),s/veh	7.5	8.0	6.5	5.9	40.9	75.5
LnGrp LOS	A	A	A	A	D	E
Approach Vol, veh/h	1422			54	978	
Approach Delay, s/veh	7.6			6.2	54.1	
Approach LOS	A			A	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		
Phs Duration (G+Y+Rc), s		79.0		31.0		79.0		
Change Period (Y+Rc), s		5.5		5.5		5.5		
Max Green Setting (Gmax), s		73.5		25.5		73.5		
Max Q Clear Time (g_c+I1), s		12.8		27.5		12.3		
Green Ext Time (p_c), s		16.1		0.0		16.2		

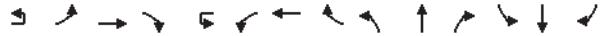
Intersection Summary	
HCM 2010 Ctrl Delay	26.1
HCM 2010 LOS	C

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	160	170	1400	360	130	120
Future Volume (veh/h)	160	170	1400	360	130	120
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			0.96	1.00	0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1803	1900	1863	1900
Adj Flow Rate, veh/h	163	173	1429	295	133	57
Adj No. of Lanes	1	1	4	0	0	0
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	6	6	0	0
Cap, veh/h	158	1035	2175	448	418	179
Arrive On Green	0.09	0.56	0.42	0.41	0.36	0.34
Sat Flow, veh/h	1774	1863	5403	1062	1176	504
Grp Volume(v), veh/h	163	173	1290	434	191	0
Grp Sat Flow(s),veh/h/ln	1774	1863	1550	1561	1689	0
Q Serve(g_s), s	8.0	4.1	20.0	20.2	7.4	0.0
Cycle Q Clear(g_c), s	8.0	4.1	20.0	20.2	7.4	0.0
Prop In Lane	1.00			0.68	0.70	0.30
Lane Grp Cap(c), veh/h	158	1035	1964	659	601	0
V/C Ratio(X)	1.03	0.17	0.66	0.66	0.32	0.00
Avail Cap(c_a), veh/h	158	1035	1964	659	601	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	41.0	9.8	20.8	21.3	21.2	0.0
Incr Delay (d2), s/veh	80.8	0.3	1.7	5.1	1.4	0.0
Initial Q Delay(d3),s/veh	0.3	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.4	2.2	8.8	9.5	3.7	0.0
LnGrp Delay(d),s/veh	122.1	10.1	22.5	26.4	22.6	0.0
LnGrp LOS	F	B	C	C	C	
Approach Vol, veh/h		336	1724		191	
Approach Delay, s/veh		64.5	23.5		22.6	
Approach LOS		E	C		C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6	7	8
Phs Duration (G+Y+Rc), s				54.0		36.0	12.0	42.0
Change Period (Y+Rc), s				5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s				48.5		30.5	6.5	36.5
Max Q Clear Time (g_c+I1), s				6.1		9.4	10.0	22.2
Green Ext Time (p_c), s				22.0		0.5	0.0	10.7

Intersection Summary	
HCM 2010 Ctrl Delay	29.5
HCM 2010 LOS	C

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	50	90	990	210	10	30	620	170	120	290	80	60	140	120
Future Volume (veh/h)	50	90	990	210	10	30	620	170	120	290	80	60	140	120
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.89	0.99		0.93	1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1855	1900
Adj Flow Rate, veh/h		96	1053	179		32	660	117	128	309	79	64	149	105
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.94	0.94	0.94		0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	3	3	3
Cap, veh/h		211	2522	428		59	2109	365	106	203	51	90	198	129
Arrive On Green		0.24	1.00	1.00		0.03	0.49	0.48	0.31	0.31	0.30	0.31	0.31	0.30
Sat Flow, veh/h		1774	4352	739		1774	4271	740	249	649	162	202	635	412
Grp Volume(v), veh/h		96	820	412		32	521	256	516	0	0	318	0	0
Grp Sat Flow(s),veh/h/ln		1774	1695	1701		1774	1695	1620	1061	0	0	1249	0	0
Q Serve(g_s), s		7.4	0.0	0.0		2.8	14.7	15.3	13.5	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s		7.4	0.0	0.0		2.8	14.7	15.3	50.0	0.0	0.0	36.5	0.0	0.0
Prop In Lane		1.00		0.43		1.00		0.46	0.25		0.15	0.20		0.33
Lane Grp Cap(c), veh/h		211	1964	985		59	1674	800	359	0	0	417	0	0
V/C Ratio(X)		0.46	0.42	0.42		0.55	0.31	0.32	1.44	0.00	0.00	0.76	0.00	0.00
Avail Cap(c_a), veh/h		211	1964	985		155	1674	800	359	0	0	417	0	0
HCM Platoon Ratio		2.00	2.00	2.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.70	0.70	0.70		1.00	1.00	1.00	0.09	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		56.6	0.0	0.0		76.2	24.2	24.6	58.6	0.0	0.0	49.5	0.0	0.0
Incr Delay (d2), s/veh		1.1	0.5	0.9		7.7	0.5	1.1	197.4	0.0	0.0	12.4	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.7	0.1	0.3		1.5	7.0	7.1	35.6	0.0	0.0	14.3	0.0	0.0
LnGrp Delay(d),s/veh		57.7	0.5	0.9		83.8	24.7	25.6	256.0	0.0	0.0	61.9	0.0	0.0
LnGrp LOS		E	A	A		F	C	C	F			E		
Approach Vol, veh/h			1328				809			516			318	
Approach Delay, s/veh			4.7				27.3			256.0			61.9	
Approach LOS			A				C			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		54.0	9.3	96.7		54.0	23.0	83.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		48.5	12.5	82.5		48.5	17.5	77.5
Max Q Clear Time (g_c+I1), s		52.0	4.8	2.0		38.5	9.4	17.3
Green Ext Time (p_c), s		0.0	0.0	12.8		4.2	0.3	6.3

Intersection Summary	
HCM 2010 Ctrl Delay	60.6
HCM 2010 LOS	E

Notes

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1120	30	50	1000	140	170
Future Volume (veh/h)	1120	30	50	1000	140	170
Number	4	14	3	8	5	12
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	980	1000	1200	1176	1863	1863
Adj Flow Rate, veh/h	1217	33	54	1087	152	185
Adj No. of Lanes	3	0	0	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	1450	39	71	1273	268	239
Arrive On Green	0.76	0.76	0.76	0.76	0.15	0.15
Sat Flow, veh/h	2390	52	38	1722	1774	1583
Grp Volume(v), veh/h	628	622	557	584	152	185
Grp Sat Flow(s),veh/h/ln	490	971	689	1017	1774	1583
Q Serve(g_s), s	39.3	39.3	30.7	29.7	7.4	10.5
Cycle Q Clear(g_c), s	39.3	39.3	71.0	29.7	7.4	10.5
Prop In Lane		0.05	0.10		1.00	1.00
Lane Grp Cap(c), veh/h	748	741	568	776	268	239
V/C Ratio(X)	0.84	0.84	0.98	0.75	0.57	0.77
Avail Cap(c_a), veh/h	748	741	568	776	782	698
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	7.3	7.3	12.9	6.1	36.7	38.0
Incr Delay (d2), s/veh	10.9	11.0	33.2	6.6	1.9	5.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.3	12.5	19.5	9.5	3.8	4.9
LnGrp Delay(d),s/veh	18.2	18.3	46.1	12.8	38.6	43.3
LnGrp LOS	B	B	D	B	D	D
Approach Vol, veh/h	1250			1141	337	
Approach Delay, s/veh	18.2			29.0	41.2	
Approach LOS	B			C	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4				8
Phs Duration (G+Y+Rc), s		18.0		75.0				75.0
Change Period (Y+Rc), s		4.5		4.5				4.5
Max Green Setting (Gmax), s		40.5		70.5				70.5
Max Q Clear Time (g_c+I1), s		12.5		42.3				73.0
Green Ext Time (p_c), s		1.1		20.5				0.0

Intersection Summary	
HCM 2010 Ctrl Delay	25.6
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	40	883	500	304	477	20	230	10	200	0	0	0
Future Volume (veh/h)	40	883	500	304	477	20	230	10	200	0	0	0
Number	7	4	14	3	8	18	5	2	12			
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.89	1.00		0.87			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	1863	1810	1810	1863	1828	1900	1727	1741	1810			
Adj Flow Rate, veh/h	43	939	281	323	507	16	253	0	103			
Adj No. of Lanes	1	2	1	1	2	0	2	0	1			
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94			
Percent Heavy Veh, %	2	5	5	2	4	4	10	0	5			
Cap, veh/h	104	1644	717	356	2124	67	713	0	290			
Arrive On Green	0.06	0.48	0.48	0.20	0.62	0.61	0.22	0.00	0.22			
Sat Flow, veh/h	1774	3438	1500	1774	3423	108	3290	0	1340			
Grp Volume(v), veh/h	43	939	281	323	257	266	253	0	103			
Grp Sat Flow(s),veh/h/ln	1774	1719	1500	1774	1737	1794	1645	0	1340			
Q Serve(g_s), s	2.7	22.5	13.8	20.5	7.6	7.6	7.5	0.0	7.5			
Cycle Q Clear(g_c), s	2.7	22.5	13.8	20.5	7.6	7.6	7.5	0.0	7.5			
Prop In Lane	1.00		1.00	1.00		0.06	1.00		1.00			
Lane Grp Cap(c), veh/h	104	1644	717	356	1078	1113	713	0	290			
V/C Ratio(X)	0.41	0.57	0.39	0.91	0.24	0.24	0.35	0.00	0.35			
Avail Cap(c_a), veh/h	216	1644	717	370	1078	1113	830	0	338			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	52.2	21.5	19.3	44.9	9.7	9.7	38.2	0.0	38.2			
Incr Delay (d2), s/veh	2.6	1.4	1.6	24.8	0.5	0.5	0.3	0.0	0.7			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.4	11.0	6.0	12.5	3.8	3.9	3.4	0.0	2.8			
LnGrp Delay(d),s/veh	54.9	23.0	20.9	69.7	10.2	10.3	38.5	0.0	39.0			
LnGrp LOS	D	C	C	E	B	B	D		D			
Approach Vol, veh/h		1263			846			356				
Approach Delay, s/veh		23.6			33.0			38.6				
Approach LOS		C			C			D				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4			7	8
Phs Duration (G+Y+Rc), s		28.9	27.1	59.0			10.7	75.3
Change Period (Y+Rc), s		5.5	4.5	5.5			5.5	5.5
Max Green Setting (Gmax), s		27.5	23.5	53.5			12.5	63.5
Max Q Clear Time (g_c+I1), s		9.5	22.5	24.5			4.7	9.6
Green Ext Time (p_c), s		1.2	0.1	13.2			0.0	16.2

Intersection Summary	
HCM 2010 Ctrl Delay	29.0
HCM 2010 LOS	C

Notes

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	90	1003	439	120	270	120
Future Volume (veh/h)	90	1003	439	120	270	120
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.97			0.94	1.00	0.70
Parking Bus, Adj	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1790	1827	1810	1845	1900
Adj Flow Rate, veh/h	94	1045	457	26	281	125
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	6	6	4	5	0	0
Cap, veh/h	196	2080	2517	943	213	95
Arrive On Green	0.73	0.73	1.00	1.00	0.21	0.20
Sat Flow, veh/h	221	2950	3563	1301	1024	455
Grp Volume(v), veh/h	571	568	457	26	407	0
Grp Sat Flow(s),veh/h/ln	1543	1547	1736	1301	1483	0
Q Serve(g_s), s	7.6	19.1	0.0	0.0	25.0	0.0
Cycle Q Clear(g_c), s	17.2	19.1	0.0	0.0	25.0	0.0
Prop In Lane	0.16			1.00	0.69	0.31
Lane Grp Cap(c), veh/h	1153	1122	2517	943	309	0
V/C Ratio(X)	0.50	0.51	0.18	0.03	1.32	0.00
Avail Cap(c_a), veh/h	1153	1122	2517	943	309	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.98	0.98	0.25	0.00
Uniform Delay (d), s/veh	6.8	7.2	0.0	0.0	47.7	0.0
Incr Delay (d2), s/veh	1.5	1.6	0.2	0.1	148.7	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.3	8.6	0.1	0.0	23.0	0.0
LnGrp Delay(d),s/veh	8.3	8.8	0.2	0.1	196.4	0.0
LnGrp LOS	A	A	A	A	F	
Approach Vol, veh/h		1139	483		407	
Approach Delay, s/veh		8.5	0.2		196.4	
Approach LOS		A	A		F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				91.0		29.0		91.0
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				85.5		23.5		85.5
Max Q Clear Time (g_c+I1), s				21.1		27.0		2.0
Green Ext Time (p_c), s				19.6		0.0		20.4

Intersection Summary	
HCM 2010 Ctrl Delay	44.2
HCM 2010 LOS	D

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	70	180	1596	250	10	50	535	78	140	120	50	112	220	540
Future Volume (veh/h)	70	180	1596	250	10	50	535	78	140	120	50	112	220	540
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.76	0.95		0.77	0.86		0.85
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1827	1827	1900		1827	1743	1900	1863	1829	1900	1900	1863	1827
Adj Flow Rate, veh/h		189	1680	243		53	563	67	147	126	39	118	232	246
Adj No. of Lanes		1	3	0		1	3	0	1	1	0	0	1	1
Peak Hour Factor		0.95	0.95	0.95		0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %		4	4	4		4	10	10	2	3	3	2	2	4
Cap, veh/h		228	2617	377		84	2141	245	214	349	108	130	201	372
Arrive On Green		0.13	0.60	0.59		0.03	0.34	0.34	0.28	0.28	0.27	0.28	0.28	0.28
Sat Flow, veh/h		1740	4395	632		1740	4174	478	1086	1240	384	354	713	1321
Grp Volume(v), veh/h		189	1269	654		53	423	207	147	0	165	350	0	246
Grp Sat Flow(s),veh/h/ln		1740	1663	1702		1740	1586	1479	1086	0	1624	1067	0	1321
Q Serve(g_s), s		16.9	39.9	40.6		4.8	15.4	16.3	0.0	0.0	13.0	32.0	0.0	26.3
Cycle Q Clear(g_c), s		16.9	39.9	40.6		4.8	15.4	16.3	37.3	0.0	13.0	45.0	0.0	26.3
Prop In Lane		1.00		0.37		1.00		0.32	1.00		0.24	0.34		1.00
Lane Grp Cap(c), veh/h		228	1980	1014		84	1627	759	214	0	457	330	0	372
V/C Ratio(X)		0.83	0.64	0.65		0.63	0.26	0.27	0.69	0.00	0.36	1.06	0.00	0.66
Avail Cap(c_a), veh/h		446	1980	1014		239	1627	759	214	0	457	330	0	372
HCM Platoon Ratio		1.00	1.00	1.00		0.67	0.67	0.67	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.99	0.99	0.99	0.99	0.00	0.99	1.00	0.00	1.00
Uniform Delay (d), s/veh		67.8	21.2	21.5		76.0	30.6	31.0	54.7	0.0	46.2	65.1	0.0	50.8
Incr Delay (d2), s/veh		7.6	1.6	3.2		7.5	0.4	0.9	16.5	0.0	2.2	66.3	0.0	9.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		8.6	18.8	19.8		2.5	6.8	6.9	7.1	0.0	6.1	20.7	0.0	10.6
LnGrp Delay(d),s/veh		75.4	22.8	24.7		83.5	31.0	31.9	71.2	0.0	48.3	131.3	0.0	59.7
LnGrp LOS		E	C	C		F	C	C	E		D	F		E
Approach Vol, veh/h			2112				683			312			596	
Approach Delay, s/veh			28.1				35.3			59.1			101.8	
Approach LOS			C				D			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		49.0	11.7	99.3		49.0	24.9	86.1
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		43.5	20.5	79.5		43.5	39.5	60.5
Max Q Clear Time (g_c+I1), s		39.3	6.8	42.6		47.0	18.9	18.3
Green Ext Time (p_c), s		2.0	0.1	27.3		0.0	0.5	30.1

Intersection Summary	
HCM 2010 Ctrl Delay	43.9
HCM 2010 LOS	D

Notes

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	83	1220	530	56	198	89
Future Volume (veh/h)	83	1220	530	56	198	89
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.96			0.89	1.00	0.81
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1805	1827	1863	1863	1900
Adj Flow Rate, veh/h	88	1298	564	17	211	77
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	5	5	4	2	0	0
Cap, veh/h	155	2122	2480	1010	257	94
Arrive On Green	0.71	0.71	1.00	1.00	0.22	0.21
Sat Flow, veh/h	169	3052	3563	1414	1175	429
Grp Volume(v), veh/h	706	680	564	17	289	0
Grp Sat Flow(s),veh/h/ln	1579	1561	1736	1414	1610	0
Q Serve(g_s), s	15.0	26.5	0.0	0.0	20.5	0.0
Cycle Q Clear(g_c), s	25.5	26.5	0.0	0.0	20.5	0.0
Prop In Lane	0.12			1.00	0.73	0.27
Lane Grp Cap(c), veh/h	1162	1115	2480	1010	352	0
V/C Ratio(X)	0.61	0.61	0.23	0.02	0.82	0.00
Avail Cap(c_a), veh/h	1162	1115	2480	1010	362	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	0.59	0.59	0.11	0.11	1.00	0.00
Uniform Delay (d), s/veh	8.3	8.7	0.0	0.0	44.8	0.0
Incr Delay (d2), s/veh	1.4	1.5	0.0	0.0	13.6	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.0	11.8	0.0	0.0	10.5	0.0
LnGrp Delay(d),s/veh	9.7	10.1	0.0	0.0	58.5	0.0
LnGrp LOS	A	B	A	A	E	
Approach Vol, veh/h		1386	581		289	
Approach Delay, s/veh		9.9	0.0		58.5	
Approach LOS		A	A		E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				89.7		30.3		89.7
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				83.5		25.5		83.5
Max Q Clear Time (g_c+I1), s				28.5		22.5		2.0
Green Ext Time (p_c), s				26.6		0.3		30.6

Intersection Summary	
HCM 2010 Ctrl Delay	13.6
HCM 2010 LOS	B

Notes

Intersection	
Int Delay, s/veh	4.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	63	73	141	42	35	171
Future Vol, veh/h	63	73	141	42	35	171
Conflicting Peds, #/hr	0	76	0	67	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	3	4	3	5	2
Mvmt Flow	68	79	153	46	38	186

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	505	319	0	0	266	0
Stage 1	243	-	-	-	-	-
Stage 2	262	-	-	-	-	-
Critical Hdwy	6.42	6.23	-	-	4.15	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.327	-	-	2.245	-
Pot Cap-1 Maneuver	527	719	-	-	1281	-
Stage 1	797	-	-	-	-	-
Stage 2	782	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	476	624	-	-	1188	-
Mov Cap-2 Maneuver	476	-	-	-	-	-
Stage 1	746	-	-	-	-	-
Stage 2	754	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	14	0	1.4
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	- 545	1188	-
HCM Lane V/C Ratio	-	- 0.271	0.032	-
HCM Control Delay (s)	-	- 14	8.1	0
HCM Lane LOS	-	- B	A	A
HCM 95th %tile Q(veh)	-	- 1.1	0.1	-

Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (veh/h)	0	1675	163	30	42	560	10	134	10	90	10	10
Future Volume (veh/h)	0	1675	163	30	42	560	10	134	10	90	10	10
Number	7	4	14		3	8	18	5	2	12	1	6
Initial Q (Qb), veh	0	0	0		0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.92		1.00		0.95	0.92		0.94	0.97	
Parking Bus, Adj	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1827	1900		1863	1745	1900	1900	1849	1900	1900	1863
Adj Flow Rate, veh/h	0	1745	156		44	583	8	140	10	58	10	10
Adj No. of Lanes	0	3	0		1	3	0	0	1	0	0	1
Peak Hour Factor	0.96	0.96	0.96		0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	4	4		2	9	9	2	2	2	2	2
Cap, veh/h	0	2789	248		73	3236	44	263	22	96	184	180
Arrive On Green	0.00	0.80	0.79		0.08	1.00	1.00	0.28	0.28	0.27	0.28	0.28
Sat Flow, veh/h	0	4792	412		1774	4839	66	801	79	340	544	640
Grp Volume(v), veh/h	0	1252	649		44	382	209	208	0	0	26	0
Grp Sat Flow(s),veh/h/ln	0	1663	1714		1774	1588	1729	1221	0	0	1540	0
Q Serve(g_s), s	0.0	23.9	24.5		3.8	0.0	0.0	21.6	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	23.9	24.5		3.8	0.0	0.0	23.4	0.0	0.0	1.7	0.0
Prop In Lane	0.00		0.24		1.00		0.04	0.67		0.28	0.38	
Lane Grp Cap(c), veh/h	0	2004	1033		73	2124	1156	381	0	0	464	0
V/C Ratio(X)	0.00	0.62	0.63		0.61	0.18	0.18	0.55	0.00	0.00	0.06	0.00
Avail Cap(c_a), veh/h	0	2004	1033		211	2124	1156	381	0	0	464	0
HCM Platoon Ratio	1.00	1.33	1.33		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.66	0.66		1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	8.7	8.9		72.2	0.0	0.0	49.7	0.0	0.0	42.1	0.0
Incr Delay (d2), s/veh	0.0	1.0	1.9		7.9	0.2	0.3	5.5	0.0	0.0	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	11.0	12.0		2.0	0.1	0.1	8.6	0.0	0.0	0.9	0.0
LnGrp Delay(d),s/veh	0.0	9.7	10.8		80.1	0.2	0.3	55.3	0.0	0.0	42.3	0.0
LnGrp LOS		A	B		F	A	A	E			D	
Approach Vol, veh/h		1901				635			208			26
Approach Delay, s/veh		10.0				5.8			55.3			42.3
Approach LOS		B				A			E			D

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6		8
Phs Duration (G+Y+Rc), s		49.0	10.5	100.5		49.0		111.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s		43.5	17.5	82.5		43.5		82.5
Max Q Clear Time (g_c+I1), s		25.4	5.8	26.5		3.7		2.0
Green Ext Time (p_c), s		1.4	0.0	34.9		1.7		42.4

Intersection Summary	
HCM 2010 Ctrl Delay	12.8
HCM 2010 LOS	B

Notes

Movement	SBR
Lane Configurations	
Traffic Volume (veh/h)	10
Future Volume (veh/h)	10
Number	16
Initial Q (Qb), veh	0
Ped-Bike Adj(A_pbT)	0.91
Parking Bus, Adj	1.00
Adj Sat Flow, veh/h/ln	1900
Adj Flow Rate, veh/h	6
Adj No. of Lanes	0
Peak Hour Factor	0.96
Percent Heavy Veh, %	2
Cap, veh/h	100
Arrive On Green	0.27
Sat Flow, veh/h	355
Grp Volume(v), veh/h	0
Grp Sat Flow(s),veh/h/ln	0
Q Serve(g_s), s	0.0
Cycle Q Clear(g_c), s	0.0
Prop In Lane	0.23
Lane Grp Cap(c), veh/h	0
V/C Ratio(X)	0.00
Avail Cap(c_a), veh/h	0
HCM Platoon Ratio	1.00
Upstream Filter(I)	0.00
Uniform Delay (d), s/veh	0.0
Incr Delay (d2), s/veh	0.0
Initial Q Delay(d3),s/veh	0.0
%ile BackOfQ(50%),veh/ln	0.0
LnGrp Delay(d),s/veh	0.0
LnGrp LOS	
Approach Vol, veh/h	
Approach Delay, s/veh	
Approach LOS	

Timer

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	274	800	380	419	40	440	566	151	0	1143	55
Future Volume (veh/h)	0	274	800	380	419	40	440	566	151	0	1143	55
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.91	1.00		0.87	1.00		1.00	1.00		0.72
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1817	1810	1681	1824	1900	1827	1802	1900	0	1844	1900
Adj Flow Rate, veh/h	0	282	825	288	577	41	260	856	0	0	1178	57
Adj No. of Lanes	0	1	2	1	2	0	1	3	0	0	3	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	4	5	13	2	2	4	3	3	0	3	3
Cap, veh/h	0	545	1196	294	1720	122	203	2253	0	0	1285	62
Arrive On Green	0.00	0.30	0.30	0.18	0.52	0.50	0.12	0.42	0.00	0.00	0.27	0.25
Sat Flow, veh/h	0	1817	2790	1601	3330	236	1740	5406	0	0	4983	233
Grp Volume(v), veh/h	0	282	825	288	315	303	260	856	0	0	820	415
Grp Sat Flow(s),veh/h/ln	0	1817	1395	1601	1824	1741	1740	1802	0	0	1678	1694
Q Serve(g_s), s	0.0	15.4	29.4	21.5	12.1	12.2	14.0	13.2	0.0	0.0	28.5	28.5
Cycle Q Clear(g_c), s	0.0	15.4	29.4	21.5	12.1	12.2	14.0	13.2	0.0	0.0	28.5	28.5
Prop In Lane	0.00		1.00	1.00		0.14	1.00		0.00	0.00		0.14
Lane Grp Cap(c), veh/h	0	545	1196	294	943	900	203	2253	0	0	895	452
V/C Ratio(X)	0.00	0.52	0.69	0.98	0.33	0.34	1.28	0.38	0.00	0.00	0.92	0.92
Avail Cap(c_a), veh/h	0	545	1196	294	943	900	203	2253	0	0	895	452
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.09	0.09	0.94	0.94	0.94	0.94	0.94	0.00	0.00	0.62	0.62
Uniform Delay (d), s/veh	0.0	34.8	29.0	48.8	16.9	17.0	53.0	24.3	0.0	0.0	42.7	42.8
Incr Delay (d2), s/veh	0.0	0.3	0.3	45.6	0.9	1.0	157.0	0.5	0.0	0.0	10.7	18.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	7.8	11.3	13.2	6.3	6.1	15.6	6.6	0.0	0.0	14.5	15.7
LnGrp Delay(d),s/veh	0.0	35.1	29.3	94.4	17.8	18.0	210.0	24.7	0.0	0.0	53.4	61.3
LnGrp LOS		D	C	F	B	B	F	C			D	E
Approach Vol, veh/h		1107			906			1116			1235	
Approach Delay, s/veh		30.8			42.2			67.9			56.1	
Approach LOS		C			D			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4		6		8
Phs Duration (G+Y+Rc), s	16.0	40.0	18.0	36.0		66.0		54.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s	10.5	34.5	12.5	30.5		60.5		48.5
Max Q Clear Time (g_c+I1), s	13.5	31.4	16.0	30.5		14.2		15.2
Green Ext Time (p_c), s	0.0	2.4	0.0	0.0		14.3		21.0

Intersection Summary	
HCM 2010 Ctrl Delay	49.8
HCM 2010 LOS	D

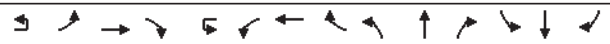
Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	45	10	53	20	0	60	19	396	20	30	795	31
Future Volume (veh/h)	45	10	53	20	0	60	19	396	20	30	795	31
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.93		0.77	0.83		0.92	1.00		0.88	1.00		0.91
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1802	1900	1900	1836	1900	1863	1761	1900	1863	1776	1900
Adj Flow Rate, veh/h	48	11	38	21	0	11	20	421	14	32	846	30
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	25	25	25	2	2	2	2	8	8	2	7	7
Cap, veh/h	183	48	115	234	11	99	63	2013	67	77	2054	73
Arrive On Green	0.23	0.23	0.22	0.23	0.00	0.22	0.04	0.61	0.60	0.04	0.62	0.61
Sat Flow, veh/h	572	208	503	773	48	430	1774	3288	109	1774	3312	117
Grp Volume(v), veh/h	97	0	0	32	0	0	20	213	222	32	431	445
Grp Sat Flow(s),veh/h/ln	1283	0	0	1251	0	0	1774	1673	1725	1774	1688	1742
Q Serve(g_s), s	4.3	0.0	0.0	0.0	0.0	0.0	1.1	5.9	6.0	1.8	13.6	13.6
Cycle Q Clear(g_c), s	6.3	0.0	0.0	1.7	0.0	0.0	1.1	5.9	6.0	1.8	13.6	13.6
Prop In Lane	0.49		0.39	0.66		0.34	1.00		0.06	1.00		0.07
Lane Grp Cap(c), veh/h	346	0	0	344	0	0	63	1024	1056	77	1047	1080
V/C Ratio(X)	0.28	0.00	0.00	0.09	0.00	0.00	0.32	0.21	0.21	0.42	0.41	0.41
Avail Cap(c_a), veh/h	358	0	0	356	0	0	153	1024	1056	153	1047	1080
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	33.6	0.0	0.0	31.8	0.0	0.0	49.2	9.0	9.0	48.7	10.1	10.2
Incr Delay (d2), s/veh	0.4	0.0	0.0	0.1	0.0	0.0	2.9	0.5	0.5	3.6	1.2	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	0.0	0.0	0.7	0.0	0.0	0.6	2.9	3.0	1.0	6.7	6.9
LnGrp Delay(d),s/veh	34.0	0.0	0.0	32.0	0.0	0.0	52.0	9.5	9.5	52.3	11.3	11.3
LnGrp LOS	C			C			D	A	A	D	B	B
Approach Vol, veh/h		97			32			455			908	
Approach Delay, s/veh		34.0			32.0			11.3			12.8	
Approach LOS		C			C			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	8.5	68.0		28.0	7.7	68.8		28.0
Change Period (Y+Rc), s	5.5	5.5		5.5	5.5	5.5		5.5
Max Green Setting (Gmax), s	7.5	62.5		23.5	7.5	62.5		23.5
Max Q Clear Time (g_c+I1), s	3.8	8.0		8.3	3.1	15.6		3.7
Green Ext Time (p_c), s	0.0	11.7		0.6	0.0	11.5		0.7

Intersection Summary	
HCM 2010 Ctrl Delay	14.1
HCM 2010 LOS	B

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	374	1248	188	40	173	352	80	100	337	77	210	505	150
Future Volume (veh/h)	20	374	1248	188	40	173	352	80	100	337	77	210	505	150
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.94		1.00		0.88	1.00		0.92	1.00		0.88
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	0.90
Adj Sat Flow, veh/h/ln		1812	1844	1900		1863	1751	1900	1696	1791	1900	1863	1813	1900
Adj Flow Rate, veh/h		398	1328	184		184	374	50	106	359	66	223	537	133
Adj No. of Lanes		1	3	0		1	3	0	1	2	0	1	2	0
Peak Hour Factor		0.94	0.94	0.94		0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %		5	0	0		2	10	10	12	7	7	2	5	5
Cap, veh/h		248	1717	238		177	1398	179	140	886	160	177	823	202
Arrive On Green		0.05	0.13	0.12		0.10	0.34	0.33	0.09	0.31	0.30	0.10	0.33	0.32
Sat Flow, veh/h		1726	4430	614		1774	4068	520	1616	2836	513	1774	2524	620
Grp Volume(v), veh/h		398	1006	506		184	289	135	106	213	212	223	365	305
Grp Sat Flow(s),veh/h/ln		1726	1678	1687		1774	1593	1402	1616	1702	1647	1774	1723	1420
Q Serve(g_s), s		23.0	46.4	46.4		16.0	10.5	11.2	10.3	15.8	16.3	16.0	29.0	29.5
Cycle Q Clear(g_c), s		23.0	46.4	46.4		16.0	10.5	11.2	10.3	15.8	16.3	16.0	29.0	29.5
Prop In Lane		1.00		0.36		1.00		0.37	1.00		0.31	1.00		0.44
Lane Grp Cap(c), veh/h		248	1301	654		177	1095	482	140	532	515	177	562	463
V/C Ratio(X)		1.60	0.77	0.77		1.04	0.26	0.28	0.76	0.40	0.41	1.26	0.65	0.66
Avail Cap(c_a), veh/h		248	1301	654		177	1095	482	252	532	515	177	562	463
HCM Platoon Ratio		0.33	0.33	0.33		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.98	0.98	0.98	0.99	0.99	0.99	0.92	0.92	0.92
Uniform Delay (d), s/veh		76.2	63.0	63.1		72.0	37.9	38.3	71.5	43.2	43.6	72.0	46.1	46.6
Incr Delay (d2), s/veh		290.0	4.5	8.7		77.0	0.6	1.4	8.1	2.2	2.4	150.7	5.3	6.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		31.0	22.4	23.3		11.6	4.7	4.5	4.9	7.7	7.8	15.3	14.6	12.5
LnGrp Delay(d),s/veh		366.2	67.5	71.7		149.1	38.5	39.7	79.5	45.5	46.0	222.7	51.4	53.2
LnGrp LOS		F	E	E		F	D	D	E	D	D	F	D	D
Approach Vol, veh/h			1910				608			531			893	
Approach Delay, s/veh			130.9				72.2			52.5			94.8	
Approach LOS			F				E			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.0	54.0	20.0	66.0	17.8	56.2	27.0	59.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Max Green Setting (Gmax), s	14.5	48.5	14.5	60.5	23.5	39.5	21.5	53.5
Max Q Clear Time (g_c+I1), s	13.0	18.3	18.0	48.4	12.3	31.5	25.0	13.2
Green Ext Time (p_c), s	0.0	8.7	0.0	9.1	0.2	4.3	0.0	20.6

Intersection Summary	
HCM 2010 Ctrl Delay	103.1
HCM 2010 LOS	F

Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	30	350	291	0	0	0	0	396	445	360	734	0
Future Volume (veh/h)	30	350	291	0	0	0	0	396	445	360	734	0
Number	7	4	14				5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.92				1.00		0.84	0.96		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1846	1810				0	1810	1827	1863	1863	0
Adj Flow Rate, veh/h	32	368	70				0	417	294	379	773	0
Adj No. of Lanes	0	1	1				0	2	1	1	2	0
Peak Hour Factor	0.95	0.95	0.95				0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	3	5				0	5	4	2	2	0
Cap, veh/h	51	586	491				0	1507	572	529	2096	0
Arrive On Green	0.35	0.35	0.35				0.00	0.44	0.44	0.12	0.59	0.00
Sat Flow, veh/h	147	1692	1419				0	3529	1305	1774	3632	0
Grp Volume(v), veh/h	400	0	70				0	417	294	379	773	0
Grp Sat Flow(s),veh/h/ln	1839	0	1419				0	1719	1305	1774	1770	0
Q Serve(g_s), s	23.6	0.0	4.4				0.0	10.1	21.2	14.9	14.8	0.0
Cycle Q Clear(g_c), s	23.6	0.0	4.4				0.0	10.1	21.2	14.9	14.8	0.0
Prop In Lane	0.08		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	636	0	491				0	1507	572	529	2096	0
V/C Ratio(X)	0.63	0.00	0.14				0.00	0.28	0.51	0.72	0.37	0.00
Avail Cap(c_a), veh/h	636	0	491				0	1507	572	529	2096	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	35.5	0.0	29.2				0.0	23.3	26.5	16.0	13.8	0.0
Incr Delay (d2), s/veh	4.7	0.0	0.6				0.0	0.5	3.3	4.6	0.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.8	0.0	1.8				0.0	4.8	8.1	7.8	7.3	0.0
LnGrp Delay(d),s/veh	40.2	0.0	29.8				0.0	23.8	29.7	20.6	14.3	0.0
LnGrp LOS	D		C					C	C	C	B	
Approach Vol, veh/h		470						711			1152	
Approach Delay, s/veh		38.6						26.2			16.4	
Approach LOS		D						C			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4		6		
Phs Duration (G+Y+Rc), s	20.0	61.0		49.0		81.0		
Change Period (Y+Rc), s	5.5	5.5		5.5		5.5		
Max Green Setting (Gmax), s	14.5	55.5		43.5		75.5		
Max Q Clear Time (g_c+I1), s	16.9	23.2		25.6		16.8		
Green Ext Time (p_c), s	0.0	12.7		2.7		14.9		

Intersection Summary	
HCM 2010 Ctrl Delay	23.9
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	231	200	240	43	373	0	0	833	60
Future Volume (veh/h)	0	0	0	231	200	240	43	373	0	0	833	60
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		0.93	1.00		1.00	1.00		0.94
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1863	1863	1597	1863	0	0	1863	1900
Adj Flow Rate, veh/h				257	222	267	48	414	0	0	926	59
Adj No. of Lanes				0	2	1	1	2	0	0	2	0
Peak Hour Factor				0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %				2	2	2	19	2	0	0	2	2
Cap, veh/h				774	772	643	227	1737	0	0	1366	87
Arrive On Green				0.44	0.44	0.44	0.05	0.49	0.00	0.00	0.41	0.39
Sat Flow, veh/h				1774	1770	1474	1521	3632	0	0	3458	214
Grp Volume(v), veh/h				257	222	267	48	414	0	0	487	498
Grp Sat Flow(s),veh/h/ln				1774	1770	1474	1521	1770	0	0	1770	1810
Q Serve(g_s), s				10.5	8.9	13.7	1.9	7.4	0.0	0.0	24.8	24.8
Cycle Q Clear(g_c), s				10.5	8.9	13.7	1.9	7.4	0.0	0.0	24.8	24.8
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.12
Lane Grp Cap(c), veh/h				774	772	643	227	1737	0	0	718	735
V/C Ratio(X)				0.33	0.29	0.42	0.21	0.24	0.00	0.00	0.68	0.68
Avail Cap(c_a), veh/h				774	772	643	361	1737	0	0	718	735
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				20.4	20.0	21.3	19.4	16.1	0.0	0.0	26.8	26.9
Incr Delay (d2), s/veh				1.2	0.9	2.0	0.5	0.3	0.0	0.0	5.1	5.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				5.4	4.5	5.9	0.8	3.7	0.0	0.0	13.1	13.3
LnGrp Delay(d),s/veh				21.6	20.9	23.3	19.9	16.5	0.0	0.0	31.9	31.8
LnGrp LOS				C	C	C	B	B			C	C
Approach Vol, veh/h					746			462			985	
Approach Delay, s/veh					22.0			16.8			31.9	
Approach LOS					C			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		58.0			9.3	48.7		52.0
Change Period (Y+Rc), s		5.5			5.5	5.5		5.5
Max Green Setting (Gmax), s		52.5			13.5	33.5		46.5
Max Q Clear Time (g_c+I1), s		9.4			3.9	26.8		15.7
Green Ext Time (p_c), s		13.6			0.0	4.5		4.5

Intersection Summary	
HCM 2010 Ctrl Delay	25.3
HCM 2010 LOS	C

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1689	266	10	40	240	120
Future Volume (veh/h)	1689	266	10	40	240	120
Number	6	16	5	2	7	14
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		0.94	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1797	1900	1900	1200	1810	1696
Adj Flow Rate, veh/h	1816	204	11	43	258	129
Adj No. of Lanes	4	0	0	2	2	1
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	6	6	54	54	5	12
Cap, veh/h	4414	496	136	936	449	194
Arrive On Green	0.78	0.77	0.78	0.78	0.13	0.13
Sat Flow, veh/h	5895	634	103	1251	3343	1442
Grp Volume(v), veh/h	1492	528	24	30	258	129
Grp Sat Flow(s),veh/h/ln	1545	1641	262	1038	1672	1442
Q Serve(g_s), s	9.9	10.1	0.8	0.6	6.9	8.2
Cycle Q Clear(g_c), s	9.9	10.1	10.9	0.6	6.9	8.2
Prop In Lane		0.39	0.46		1.00	1.00
Lane Grp Cap(c), veh/h	3627	1283	260	812	449	194
V/C Ratio(X)	0.41	0.41	0.09	0.04	0.57	0.67
Avail Cap(c_a), veh/h	3627	1283	260	812	941	406
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	3.4	3.5	2.7	2.3	38.9	39.5
Incr Delay (d2), s/veh	0.3	1.0	0.7	0.1	1.2	3.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	4.8	0.2	0.2	3.3	3.5
LnGrp Delay(d),s/veh	3.7	4.4	3.4	2.4	40.1	43.4
LnGrp LOS	A	A	A	A	D	D
Approach Vol, veh/h	2020			54	387	
Approach Delay, s/veh	3.9			2.8	41.2	
Approach LOS	A			A	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		
Phs Duration (G+Y+Rc), s		79.0		16.9		79.0		
Change Period (Y+Rc), s		5.5		5.5		5.5		
Max Green Setting (Gmax), s		73.5		25.5		73.5		
Max Q Clear Time (g_c+I1), s		12.9		10.2		12.1		
Green Ext Time (p_c), s		29.4		1.2		29.6		

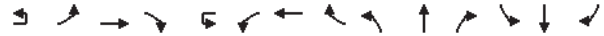
Intersection Summary	
HCM 2010 Ctrl Delay	9.7
HCM 2010 LOS	A

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	130	238	827	230	260	100
Future Volume (veh/h)	130	238	827	230	260	100
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			0.95	1.00	0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1827	1863	1835	1900	1863	1900
Adj Flow Rate, veh/h	143	262	909	155	286	77
Adj No. of Lanes	1	1	4	0	0	0
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	4	2	4	4	0	0
Cap, veh/h	155	1035	2300	384	477	129
Arrive On Green	0.09	0.56	0.42	0.41	0.36	0.34
Sat Flow, veh/h	1740	1863	5703	910	1343	362
Grp Volume(v), veh/h	143	262	787	277	364	0
Grp Sat Flow(s),veh/h/ln	1740	1863	1578	1623	1709	0
Q Serve(g_s), s	7.3	6.5	10.4	10.8	15.7	0.0
Cycle Q Clear(g_c), s	7.3	6.5	10.4	10.8	15.7	0.0
Prop In Lane	1.00			0.56	0.79	0.21
Lane Grp Cap(c), veh/h	155	1035	1998	685	608	0
V/C Ratio(X)	0.92	0.25	0.39	0.40	0.60	0.00
Avail Cap(c_a), veh/h	155	1035	1998	685	608	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	40.7	10.3	18.0	18.4	23.9	0.0
Incr Delay (d2), s/veh	50.5	0.6	0.6	1.8	4.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.7	3.5	4.6	5.1	8.1	0.0
LnGrp Delay(d),s/veh	91.2	10.9	18.6	20.2	28.2	0.0
LnGrp LOS	F	B	B	C	C	
Approach Vol, veh/h		405	1064		364	
Approach Delay, s/veh		39.3	19.0		28.2	
Approach LOS		D	B		C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6	7	8
Phs Duration (G+Y+Rc), s				54.0		36.0	12.0	42.0
Change Period (Y+Rc), s				5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s				48.5		30.5	6.5	36.5
Max Q Clear Time (g_c+I1), s				8.5		17.7	9.3	12.8
Green Ext Time (p_c), s				12.6		1.0	0.0	10.4

Intersection Summary	
HCM 2010 Ctrl Delay	25.3
HCM 2010 LOS	C

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	110	1024	340	10	60	374	120	70	190	50	40	290	171
Future Volume (veh/h)	20	110	1024	340	10	60	374	120	70	190	50	40	290	171
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.93		1.00		0.89	1.00		0.98	1.00		0.85
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1845	1863	1900		1827	1783	1900	1900	1841	1900	1900	1863	1900
Adj Flow Rate, veh/h		122	1138	291		67	416	57	78	211	48	44	322	168
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.90	0.90	0.90		0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %		3	2	2		4	8	8	4	4	4	2	2	2
Cap, veh/h		209	2201	563		100	2114	280	69	157	33	54	297	150
Arrive On Green		0.24	1.00	1.00		0.06	0.49	0.48	0.31	0.31	0.30	0.31	0.31	0.30
Sat Flow, veh/h		1757	3965	1014		1740	4282	566	131	504	105	95	950	480
Grp Volume(v), veh/h		122	973	456		67	312	161	337	0	0	534	0	0
Grp Sat Flow(s),veh/h/ln		1757	1695	1588		1740	1623	1603	740	0	0	1526	0	0
Q Serve(g_s), s		9.8	0.0	0.0		6.0	8.6	9.1	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s		9.8	0.0	0.0		6.0	8.6	9.1	50.0	0.0	0.0	50.0	0.0	0.0
Prop In Lane		1.00		0.64		1.00		0.35	0.23		0.14	0.08		0.31
Lane Grp Cap(c), veh/h		209	1882	882		100	1602	791	259	0	0	501	0	0
V/C Ratio(X)		0.58	0.52	0.52		0.67	0.19	0.20	1.30	0.00	0.00	1.07	0.00	0.00
Avail Cap(c_a), veh/h		209	1882	882		152	1602	791	259	0	0	501	0	0
HCM Platoon Ratio		2.00	2.00	2.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.38	0.38	0.38		1.00	1.00	1.00	0.25	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		57.5	0.0	0.0		73.9	22.7	23.0	54.9	0.0	0.0	56.0	0.0	0.0
Incr Delay (d2), s/veh		1.6	0.4	0.8		7.6	0.3	0.6	142.6	0.0	0.0	58.8	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.8	0.1	0.2		3.1	3.9	4.2	21.7	0.0	0.0	30.3	0.0	0.0
LnGrp Delay(d),s/veh		59.1	0.4	0.8		81.5	23.0	23.5	197.5	0.0	0.0	114.8	0.0	0.0
LnGrp LOS		E	A	A		F	C	C	F			F		
Approach Vol, veh/h			1551				540			337			534	
Approach Delay, s/veh			5.1				30.4			197.5			114.8	
Approach LOS			A				C			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		54.0	13.2	92.8		54.0	23.0	83.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		48.5	12.5	82.5		48.5	17.5	77.5
Max Q Clear Time (g_c+I1), s		52.0	8.0	2.0		52.0	11.8	11.1
Green Ext Time (p_c), s		0.0	0.0	17.1		0.0	1.1	3.5

Intersection Summary	
HCM 2010 Ctrl Delay	51.4
HCM 2010 LOS	D

Notes

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1034	110	110	794	20	30
Future Volume (veh/h)	1034	110	110	794	20	30
Number	4	14	3	8	5	12
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	980	1000	1000	980	1863	1863
Adj Flow Rate, veh/h	1124	120	120	863	22	33
Adj No. of Lanes	3	0	0	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	1432	153	131	912	84	75
Arrive On Green	0.82	0.86	0.86	0.82	0.05	0.05
Sat Flow, veh/h	2232	186	94	1154	1774	1583
Grp Volume(v), veh/h	632	612	382	601	22	33
Grp Sat Flow(s),veh/h/ln	490	948	356	848	1774	1583
Q Serve(g_s), s	28.5	27.9	46.5	38.4	1.1	1.8
Cycle Q Clear(g_c), s	28.5	27.9	76.0	38.4	1.1	1.8
Prop In Lane		0.20	0.31		1.00	1.00
Lane Grp Cap(c), veh/h	806	779	360	697	84	75
V/C Ratio(X)	0.78	0.79	1.06	0.86	0.26	0.44
Avail Cap(c_a), veh/h	806	779	360	697	724	646
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	3.9	3.7	19.0	4.8	40.5	40.9
Incr Delay (d2), s/veh	7.6	7.8	63.9	13.4	1.6	4.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	8.8	14.8	11.1	0.6	0.9
LnGrp Delay(d),s/veh	11.5	11.6	82.9	18.2	42.1	44.8
LnGrp LOS	B	B	F	B	D	D
Approach Vol, veh/h	1244			983	55	
Approach Delay, s/veh	11.5			43.3	43.7	
Approach LOS	B			D	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4				8
Phs Duration (G+Y+Rc), s		8.2		80.0				80.0
Change Period (Y+Rc), s		4.5		4.5				4.5
Max Green Setting (Gmax), s		35.5		75.5				75.5
Max Q Clear Time (g_c+I1), s		3.8		31.5				78.0
Green Ext Time (p_c), s		0.1		26.8				0.0

Intersection Summary	
HCM 2010 Ctrl Delay	26.0
HCM 2010 LOS	C

Intersection	
Int Delay, s/veh	0.5

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1759	6	0	612	0	49
Future Vol, veh/h	1759	6	0	612	0	49
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1852	6	0	644	0	52

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	929
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.92
Pot Cap-1 Maneuver	-	-	0	-	0	231
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	231
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	25
HCM LOS			D

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	231	-	-	-
HCM Lane V/C Ratio	0.223	-	-	-
HCM Control Delay (s)	25	-	-	-
HCM Lane LOS	D	-	-	-
HCM 95th %tile Q(veh)	0.8	-	-	-

Intersection	
Int Delay, s/veh	2.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	10	0	10	44	0	21	30	122	7	1	203	30
Future Vol, veh/h	10	0	10	44	0	21	30	122	7	1	203	30
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	11	0	11	48	0	23	33	133	8	1	221	33

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	452	444	237	447	457	136	253	0	0	140	0	0
Stage 1	239	239	-	202	202	-	-	-	-	-	-	-
Stage 2	213	205	-	245	255	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	518	508	802	522	500	913	1312	-	-	1443	-	-
Stage 1	764	708	-	800	734	-	-	-	-	-	-	-
Stage 2	789	732	-	759	696	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	494	494	802	504	486	913	1312	-	-	1443	-	-
Mov Cap-2 Maneuver	494	494	-	504	486	-	-	-	-	-	-	-
Stage 1	743	707	-	778	714	-	-	-	-	-	-	-
Stage 2	749	712	-	748	695	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	11.1	11.9	1.5	0
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1312	-	-	611	589	1443	-	-
HCM Lane V/C Ratio	0.025	-	-	0.036	0.12	0.001	-	-
HCM Control Delay (s)	7.8	0	-	11.1	11.9	7.5	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	0.4	0	-	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑			↑↑↱			↰				
Traffic Volume (veh/h)	20	735	450	303	856	20	640	0	426	0	0	10
Future Volume (veh/h)	20	735	450	303	856	20	640	0	426	0	0	10
Number	7	4	14	3	8	18	5	2	12			
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		0.95	1.00		0.89	1.00		0.85			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	1863	1845	1863	1863	1863	1900	1863	1863	1863			
Adj Flow Rate, veh/h	21	758	193	312	882	19	660	0	68			
Adj No. of Lanes	1	2	1	1	2	0	2	0	1			
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97			
Percent Heavy Veh, %	2	3	2	2	2	2	2	2	2			
Cap, veh/h	75	1634	700	345	2183	47	844	0	322			
Arrive On Green	0.04	0.47	0.47	0.19	0.62	0.61	0.24	0.00	0.24			
Sat Flow, veh/h	1774	3505	1502	1774	3532	76	3548	0	1354			
Grp Volume(v), veh/h	21	758	193	312	442	459	660	0	68			
Grp Sat Flow(s),veh/h/ln	1774	1752	1502	1774	1770	1838	1774	0	1354			
Q Serve(g_s), s	1.4	17.4	9.3	20.3	15.0	15.0	20.5	0.0	4.8			
Cycle Q Clear(g_c), s	1.4	17.4	9.3	20.3	15.0	15.0	20.5	0.0	4.8			
Prop In Lane	1.00		1.00	1.00		0.04	1.00		1.00			
Lane Grp Cap(c), veh/h	75	1634	700	345	1094	1136	844	0	322			
V/C Ratio(X)	0.28	0.46	0.28	0.91	0.40	0.40	0.78	0.00	0.21			
Avail Cap(c_a), veh/h	211	1634	700	361	1094	1136	872	0	333			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	54.8	21.4	19.3	46.5	11.5	11.5	42.1	0.0	36.1			
Incr Delay (d2), s/veh	2.0	0.9	1.0	24.9	1.1	1.1	4.5	0.0	0.3			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.7	8.6	4.0	12.3	7.6	7.9	10.6	0.0	1.8			
LnGrp Delay(d),s/veh	56.8	22.4	20.3	71.3	12.6	12.5	46.6	0.0	36.4			
LnGrp LOS	E	C	C	E	B	B	D		D			
Approach Vol, veh/h		972			1213			728				
Approach Delay, s/veh		22.7			27.7			45.7				
Approach LOS		C			C			D				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4			7	8
Phs Duration (G+Y+Rc), s		32.0	26.9	59.0			9.0	76.9
Change Period (Y+Rc), s		5.5	4.5	5.5			5.5	5.5
Max Green Setting (Gmax), s		27.5	23.5	53.5			12.5	63.5
Max Q Clear Time (g_c+I1), s		22.5	22.3	19.4			3.4	17.0
Green Ext Time (p_c), s		1.4	0.1	15.5			0.0	17.4

Intersection Summary	
HCM 2010 Ctrl Delay	30.5
HCM 2010 LOS	C

Notes

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	120	809	808	290	140	140
Future Volume (veh/h)	120	809	808	290	140	140
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.99			0.94	1.00	0.78
Parking Bus, Adj	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1863	1863	1854	1900
Adj Flow Rate, veh/h	124	834	833	85	144	98
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	0	0
Cap, veh/h	284	1830	2640	1004	166	113
Arrive On Green	0.75	0.75	1.00	1.00	0.19	0.17
Sat Flow, veh/h	328	2539	3632	1346	888	604
Grp Volume(v), veh/h	407	551	833	85	243	0
Grp Sat Flow(s),veh/h/ln	1172	1610	1770	1346	1499	0
Q Serve(g_s), s	7.9	15.9	0.0	0.0	18.9	0.0
Cycle Q Clear(g_c), s	12.5	15.9	0.0	0.0	18.9	0.0
Prop In Lane	0.30			1.00	0.59	0.40
Lane Grp Cap(c), veh/h	913	1201	2640	1004	281	0
V/C Ratio(X)	0.45	0.46	0.32	0.08	0.87	0.00
Avail Cap(c_a), veh/h	913	1201	2640	1004	287	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.93	0.93	0.55	0.00
Uniform Delay (d), s/veh	5.2	5.9	0.0	0.0	47.6	0.0
Incr Delay (d2), s/veh	1.6	1.3	0.3	0.2	14.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.1	7.3	0.1	0.0	8.9	0.0
LnGrp Delay(d),s/veh	6.8	7.2	0.3	0.2	61.6	0.0
LnGrp LOS	A	A	A	A	E	
Approach Vol, veh/h		958	918		243	
Approach Delay, s/veh		7.0	0.3		61.6	
Approach LOS		A	A		E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				93.5		26.5		93.5
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				87.5		21.5		87.5
Max Q Clear Time (g_c+I1), s				17.9		20.9		2.0
Green Ext Time (p_c), s				26.4		0.1		27.8

Intersection Summary	
HCM 2010 Ctrl Delay	10.3
HCM 2010 LOS	B

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	150	230	1465	140	30	30	895	111	310	130	50	88	200	460
Future Volume (veh/h)	150	230	1465	140	30	30	895	111	310	130	50	88	200	460
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.99		1.00		0.82	0.97		0.89	0.94		0.92
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1770	1900	1863	1863	1900	1900	1839	1863
Adj Flow Rate, veh/h		237	1510	131		31	923	103	320	134	41	91	206	258
Adj No. of Lanes		1	3	0		1	3	0	1	1	0	0	1	1
Peak Hour Factor		0.97	0.97	0.97		0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %		2	2	2		2	8	8	2	2	2	3	3	2
Cap, veh/h		276	2909	252		58	2102	233	218	373	114	124	235	412
Arrive On Green		0.16	0.61	0.60		0.07	0.98	0.96	0.28	0.28	0.27	0.28	0.28	0.28
Sat Flow, veh/h		1774	4761	413		1774	4308	477	1135	1328	406	335	837	1463
Grp Volume(v), veh/h		237	1075	566		31	688	338	320	0	175	297	0	258
Grp Sat Flow(s),veh/h/ln		1774	1695	1784		1774	1611	1564	1135	0	1734	1172	0	1463
Q Serve(g_s), s		20.8	28.9	29.0		2.7	1.4	1.8	4.2	0.0	12.9	27.9	0.0	24.6
Cycle Q Clear(g_c), s		20.8	28.9	29.0		2.7	1.4	1.8	45.0	0.0	12.9	40.8	0.0	24.6
Prop In Lane		1.00		0.23		1.00		0.31	1.00		0.23	0.31		1.00
Lane Grp Cap(c), veh/h		276	2071	1090		58	1572	763	218	0	488	359	0	412
V/C Ratio(X)		0.86	0.52	0.52		0.53	0.44	0.44	1.47	0.00	0.36	0.83	0.00	0.63
Avail Cap(c_a), veh/h		455	2071	1090		255	1572	763	218	0	488	359	0	412
HCM Platoon Ratio		1.00	1.00	1.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.97	0.97	0.97	0.96	0.00	0.96	1.00	0.00	1.00
Uniform Delay (d), s/veh		65.8	17.7	17.9		73.6	1.0	1.2	63.6	0.0	46.1	60.3	0.0	50.2
Incr Delay (d2), s/veh		8.6	0.9	1.8		7.2	0.9	1.8	232.6	0.0	2.0	19.3	0.0	7.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		10.9	13.7	14.7		1.4	0.6	1.0	23.7	0.0	6.5	14.7	0.0	10.8
LnGrp Delay(d),s/veh		74.4	18.7	19.6		80.8	1.9	3.1	296.2	0.0	48.1	79.6	0.0	57.2
LnGrp LOS		E	B	B		F	A	A	F		D	E		E
Approach Vol, veh/h			1878				1057			495			555	
Approach Delay, s/veh			26.0				4.6			208.5			69.2	
Approach LOS			C				A			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		49.0	9.2	101.8		49.0	28.9	82.1
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		43.5	21.5	78.5		43.5	39.5	60.5
Max Q Clear Time (g_c+I1), s		47.0	4.7	31.0		42.8	22.8	3.8
Green Ext Time (p_c), s		0.0	0.0	33.3		0.4	0.6	37.5

Intersection Summary	
HCM 2010 Ctrl Delay	49.0
HCM 2010 LOS	D

Notes

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	119	850	1020	241	111	58
Future Volume (veh/h)	119	850	1020	241	111	58
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.99			0.94	1.00	0.89
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1863	1863	1844	1900
Adj Flow Rate, veh/h	125	895	1074	88	117	39
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	0	0
Cap, veh/h	257	1753	2652	1115	227	76
Arrive On Green	0.75	0.75	1.00	1.00	0.18	0.17
Sat Flow, veh/h	291	2424	3632	1488	1231	410
Grp Volume(v), veh/h	400	620	1074	88	157	0
Grp Sat Flow(s),veh/h/ln	1020	1610	1770	1488	1653	0
Q Serve(g_s), s	9.7	18.9	0.0	0.0	10.3	0.0
Cycle Q Clear(g_c), s	14.1	18.9	0.0	0.0	10.3	0.0
Prop In Lane	0.31			1.00	0.75	0.25
Lane Grp Cap(c), veh/h	803	1206	2652	1115	304	0
V/C Ratio(X)	0.50	0.51	0.41	0.08	0.52	0.00
Avail Cap(c_a), veh/h	803	1206	2652	1115	372	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	0.73	0.73	0.09	0.09	1.00	0.00
Uniform Delay (d), s/veh	5.1	6.1	0.0	0.0	44.3	0.0
Incr Delay (d2), s/veh	1.6	1.1	0.0	0.0	1.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.1	8.7	0.0	0.0	4.8	0.0
LnGrp Delay(d),s/veh	6.8	7.3	0.0	0.0	45.7	0.0
LnGrp LOS	A	A	A	A	D	
Approach Vol, veh/h		1020	1162		157	
Approach Delay, s/veh		7.1	0.0		45.7	
Approach LOS		A	A		D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				93.9		26.1		93.9
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				83.5		25.5		83.5
Max Q Clear Time (g_c+I1), s				20.9		12.3		2.0
Green Ext Time (p_c), s				34.1		0.4		38.4

Intersection Summary	
HCM 2010 Ctrl Delay	6.2
HCM 2010 LOS	A

Notes

Intersection	
Int Delay, s/veh	3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	41	52	285	54	61	108
Future Vol, veh/h	41	52	285	54	61	108
Conflicting Peds, #/hr	0	21	0	27	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	47	59	324	61	69	123

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	643	403	0	0	412	0
Stage 1	382	-	-	-	-	-
Stage 2	261	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	438	647	-	-	1147	-
Stage 1	690	-	-	-	-	-
Stage 2	783	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	399	618	-	-	1124	-
Mov Cap-2 Maneuver	399	-	-	-	-	-
Stage 1	672	-	-	-	-	-
Stage 2	731	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	14.2	0	3
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	- 498	1124	-
HCM Lane V/C Ratio	-	- 0.212	0.062	-
HCM Control Delay (s)	-	- 14.2	8.4	0
HCM Lane LOS	-	- B	A	A
HCM 95th %tile Q(veh)	-	- 0.8	0.2	-

Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (veh/h)	0	1513	131	20	58	830	10	217	10	130	10	10
Future Volume (veh/h)	0	1513	131	20	58	830	10	217	10	130	10	10
Number	7	4	14		3	8	18	5	2	12	1	6
Initial Q (Qb), veh	0	0	0		0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.92		1.00		0.95	0.92		0.94	1.00	
Parking Bus, Adj	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1863	1900		1863	1760	1900	1900	1863	1900	1900	1863
Adj Flow Rate, veh/h	0	1576	127		60	865	9	226	10	111	10	10
Adj No. of Lanes	0	3	0		1	3	0	0	1	0	0	1
Peak Hour Factor	0.96	0.96	0.96		0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	2	2		2	8	8	2	2	2	2	2
Cap, veh/h	0	2821	227		92	3278	34	262	10	111	186	182
Arrive On Green	0.00	1.00	1.00		0.10	1.00	1.00	0.28	0.28	0.27	0.28	0.28
Sat Flow, veh/h	0	4932	383		1774	4901	51	801	35	393	552	647
Grp Volume(v), veh/h	0	1121	582		60	565	309	347	0	0	26	0
Grp Sat Flow(s),veh/h/ln	0	1695	1757		1774	1602	1748	1229	0	0	1559	0
Q Serve(g_s), s	0.0	0.0	0.0		5.2	0.0	0.0	43.3	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	0.0		5.2	0.0	0.0	45.0	0.0	0.0	1.7	0.0
Prop In Lane	0.00		0.22		1.00		0.03	0.65		0.32	0.38	
Lane Grp Cap(c), veh/h	0	2007	1040		92	2143	1169	383	0	0	470	0
V/C Ratio(X)	0.00	0.56	0.56		0.65	0.26	0.26	0.91	0.00	0.00	0.06	0.00
Avail Cap(c_a), veh/h	0	2007	1040		211	2143	1169	383	0	0	470	0
HCM Platoon Ratio	1.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.80	0.80		1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	0.0		70.4	0.0	0.0	57.6	0.0	0.0	42.1	0.0
Incr Delay (d2), s/veh	0.0	0.9	1.7		7.7	0.3	0.6	27.5	0.0	0.0	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.3	0.5		2.7	0.1	0.2	18.3	0.0	0.0	0.9	0.0
LnGrp Delay(d),s/veh	0.0	0.9	1.7		78.0	0.3	0.6	85.1	0.0	0.0	42.3	0.0
LnGrp LOS		A	A		E	A	A	F			D	
Approach Vol, veh/h		1703				934			347			26
Approach Delay, s/veh		1.2				5.4			85.1			42.3
Approach LOS		A				A			F			D

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6		8
Phs Duration (G+Y+Rc), s		49.0	12.3	98.7		49.0		111.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s		43.5	17.5	82.5		43.5		105.5
Max Q Clear Time (g_c+I1), s		47.0	7.2	2.0		3.7		2.0
Green Ext Time (p_c), s		0.0	0.1	43.3		3.0		48.3

Intersection Summary	
HCM 2010 Ctrl Delay	12.5
HCM 2010 LOS	B

Notes

Movement	SBR
Lane Configurations	
Traffic Volume (veh/h)	10
Future Volume (veh/h)	10
Number	16
Initial Q (Qb), veh	0
Ped-Bike Adj(A_pbT)	0.91
Parking Bus, Adj	1.00
Adj Sat Flow, veh/h/ln	1900
Adj Flow Rate, veh/h	6
Adj No. of Lanes	0
Peak Hour Factor	0.96
Percent Heavy Veh, %	2
Cap, veh/h	101
Arrive On Green	0.27
Sat Flow, veh/h	360
Grp Volume(v), veh/h	0
Grp Sat Flow(s),veh/h/ln	0
Q Serve(g_s), s	0.0
Cycle Q Clear(g_c), s	0.0
Prop In Lane	0.23
Lane Grp Cap(c), veh/h	0
V/C Ratio(X)	0.00
Avail Cap(c_a), veh/h	0
HCM Platoon Ratio	1.00
Upstream Filter(I)	0.00
Uniform Delay (d), s/veh	0.0
Incr Delay (d2), s/veh	0.0
Initial Q Delay(d3),s/veh	0.0
%ile BackOfQ(50%),veh/ln	0.0
LnGrp Delay(d),s/veh	0.0
LnGrp LOS	
Approach Vol, veh/h	
Approach Delay, s/veh	
Approach LOS	

Timer

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	656	710	217	346	40	680	1171	294	0	706	45
Future Volume (veh/h)	0	656	710	217	346	40	680	1171	294	0	706	45
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.87	1.00		1.00	1.00		0.71
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1852	1827	1681	1850	1900	1845	1779	1900	0	1863	1900
Adj Flow Rate, veh/h	0	613	799	211	387	42	487	1553	0	0	743	47
Adj No. of Lanes	0	1	2	1	2	0	1	3	0	0	3	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	2	4	13	2	2	3	2	2	0	2	2
Cap, veh/h	0	602	1420	254	1669	179	234	2223	0	0	1190	74
Arrive On Green	0.00	0.33	0.33	0.16	0.52	0.50	0.13	0.42	0.00	0.00	0.25	0.24
Sat Flow, veh/h	0	1852	3094	1601	3230	346	1757	5336	0	0	4928	296
Grp Volume(v), veh/h	0	613	799	211	220	209	487	1553	0	0	526	264
Grp Sat Flow(s),veh/h/ln	0	1852	1547	1601	1850	1726	1757	1779	0	0	1695	1667
Q Serve(g_s), s	0.0	39.0	22.6	15.3	7.8	8.0	16.0	28.7	0.0	0.0	16.5	17.0
Cycle Q Clear(g_c), s	0.0	39.0	22.6	15.3	7.8	8.0	16.0	28.7	0.0	0.0	16.5	17.0
Prop In Lane	0.00		1.00	1.00		0.20	1.00		0.00	0.00		0.18
Lane Grp Cap(c), veh/h	0	602	1420	254	956	892	234	2223	0	0	848	417
V/C Ratio(X)	0.00	1.02	0.56	0.83	0.23	0.23	2.08	0.70	0.00	0.00	0.62	0.63
Avail Cap(c_a), veh/h	0	602	1420	294	956	892	234	2223	0	0	848	417
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.09	0.09	0.97	0.97	0.97	0.72	0.72	0.00	0.00	0.76	0.76
Uniform Delay (d), s/veh	0.0	40.5	23.7	49.0	15.9	16.0	52.0	28.8	0.0	0.0	39.9	40.2
Incr Delay (d2), s/veh	0.0	16.0	0.1	15.8	0.5	0.6	496.0	1.3	0.0	0.0	2.6	5.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	22.6	9.7	7.9	4.1	3.9	40.0	14.4	0.0	0.0	8.0	8.4
LnGrp Delay(d),s/veh	0.0	56.5	23.9	64.8	16.4	16.6	548.0	30.1	0.0	0.0	42.5	45.7
LnGrp LOS		F	C	E	B	B	F	C			D	D
Approach Vol, veh/h		1412			640			2040			790	
Approach Delay, s/veh		38.0			32.4			153.8			43.6	
Approach LOS		D			C			F			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4		6		8
Phs Duration (G+Y+Rc), s	23.0	43.0	20.0	34.0		66.0		54.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s	20.5	34.5	14.5	28.5		60.5		48.5
Max Q Clear Time (g_c+I1), s	17.3	41.0	18.0	19.0		10.0		30.7
Green Ext Time (p_c), s	0.2	0.0	0.0	8.4		16.0		14.6

Intersection Summary	
HCM 2010 Ctrl Delay	86.6
HCM 2010 LOS	F

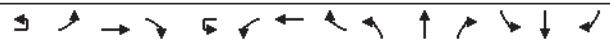
Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	35	0	57	30	0	40	70	850	20	20	528	88
Future Volume (veh/h)	35	0	57	30	0	40	70	850	20	20	528	88
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.91		0.82	0.86		0.89	1.00		0.88	1.00		0.91
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1787	1900	1900	1863	1900	1863	1762	1900	1863	1788	1900
Adj Flow Rate, veh/h	37	0	51	32	0	11	74	895	18	21	556	90
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	8	8	2	7	7
Cap, veh/h	150	15	162	259	8	72	119	2106	42	63	1727	278
Arrive On Green	0.22	0.00	0.21	0.22	0.00	0.21	0.07	0.63	0.62	0.04	0.60	0.58
Sat Flow, veh/h	458	69	726	900	37	322	1774	3345	67	1774	2886	465
Grp Volume(v), veh/h	88	0	0	43	0	0	74	448	465	21	326	320
Grp Sat Flow(s),veh/h/ln	1253	0	0	1260	0	0	1774	1673	1739	1774	1698	1652
Q Serve(g_s), s	3.2	0.0	0.0	0.0	0.0	0.0	4.3	14.5	14.5	1.2	10.2	10.4
Cycle Q Clear(g_c), s	6.0	0.0	0.0	2.6	0.0	0.0	4.3	14.5	14.5	1.2	10.2	10.4
Prop In Lane	0.42		0.58	0.74		0.26	1.00		0.04	1.00		0.28
Lane Grp Cap(c), veh/h	327	0	0	339	0	0	119	1053	1095	63	1016	989
V/C Ratio(X)	0.27	0.00	0.00	0.13	0.00	0.00	0.62	0.43	0.43	0.33	0.32	0.32
Avail Cap(c_a), veh/h	340	0	0	353	0	0	149	1053	1095	149	1016	989
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.9	0.0	0.0	33.4	0.0	0.0	48.6	10.0	10.0	50.3	10.7	10.8
Incr Delay (d2), s/veh	0.4	0.0	0.0	0.2	0.0	0.0	5.3	1.3	1.2	3.0	0.8	0.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	0.0	0.0	1.0	0.0	0.0	2.3	7.0	7.2	0.7	4.9	5.0
LnGrp Delay(d),s/veh	35.4	0.0	0.0	33.6	0.0	0.0	53.9	11.3	11.3	53.3	11.5	11.7
LnGrp LOS	D			C			D	B	B	D	B	B
Approach Vol, veh/h		88			43			987			667	
Approach Delay, s/veh		35.4			33.6			14.5			12.9	
Approach LOS		D			C			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	7.8	71.3		27.8	11.2	68.0		27.8
Change Period (Y+Rc), s	5.5	5.5		5.5	5.5	5.5		5.5
Max Green Setting (Gmax), s	7.5	62.5		23.5	7.5	62.5		23.5
Max Q Clear Time (g_c+I1), s	3.2	16.5		8.0	6.3	12.4		4.6
Green Ext Time (p_c), s	0.0	15.2		0.7	0.0	15.5		0.7

Intersection Summary	
HCM 2010 Ctrl Delay	15.4
HCM 2010 LOS	B

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	30	384	1065	127	30	167	588	110	160	627	116	140	353	140
Future Volume (veh/h)	30	384	1065	127	30	167	588	110	160	627	116	140	353	140
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.99		1.00		0.87	1.00		0.95	1.00		0.85
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	0.90
Adj Sat Flow, veh/h/ln		1863	1847	1900		1863	1863	1900	1397	1832	1900	1863	1812	1900
Adj Flow Rate, veh/h		404	1121	118		176	619	73	168	660	97	147	372	133
Adj No. of Lanes		1	3	0		1	3	0	1	2	0	1	2	0
Peak Hour Factor		0.95	0.95	0.95		0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %		2	2	2		2	2	2	36	4	4	2	6	6
Cap, veh/h		255	1794	189		177	1507	174	194	945	139	177	604	209
Arrive On Green		0.10	0.26	0.25		0.10	0.34	0.33	0.15	0.31	0.30	0.10	0.27	0.26
Sat Flow, veh/h		1774	4630	487		1774	4385	505	1331	3023	443	1774	2264	783
Grp Volume(v), veh/h		404	814	425		176	475	217	168	380	377	147	280	225
Grp Sat Flow(s),veh/h/ln		1774	1681	1755		1774	1695	1500	1331	1741	1725	1774	1721	1325
Q Serve(g_s), s		23.0	34.2	34.3		15.9	17.1	17.8	19.8	30.7	30.8	13.0	22.8	24.1
Cycle Q Clear(g_c), s		23.0	34.2	34.3		15.9	17.1	17.8	19.8	30.7	30.8	13.0	22.8	24.1
Prop In Lane		1.00		0.28		1.00		0.34	1.00		0.26	1.00		0.59
Lane Grp Cap(c), veh/h		255	1303	680		177	1165	516	194	544	539	177	459	353
V/C Ratio(X)		1.58	0.62	0.63		0.99	0.41	0.42	0.87	0.70	0.70	0.83	0.61	0.64
Avail Cap(c_a), veh/h		255	1303	680		177	1165	516	208	544	539	177	459	353
HCM Platoon Ratio		0.67	0.67	0.67		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.93	0.93	0.93	0.94	0.94	0.94	0.98	0.98	0.98
Uniform Delay (d), s/veh		72.3	48.9	49.1		71.9	40.1	40.5	66.8	48.4	48.6	70.7	51.4	52.2
Incr Delay (d2), s/veh		280.8	2.3	4.3		62.9	1.0	2.3	27.3	6.9	7.0	26.2	5.8	8.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		31.2	16.4	17.5		10.9	8.1	7.7	8.8	15.8	15.7	7.7	11.5	9.7
LnGrp Delay(d),s/veh		353.1	51.2	53.4		134.8	41.1	42.8	94.1	55.2	55.6	96.8	57.1	60.5
LnGrp LOS		F	D	D		F	D	D	F	E	E	F	E	E
Approach Vol, veh/h			1643				868			925			652	
Approach Delay, s/veh			126.0				60.5			62.4			67.3	
Approach LOS			F				E			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.0	54.0	20.0	66.0	27.3	46.7	27.0	59.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Max Green Setting (Gmax), s	14.5	48.5	14.5	60.5	23.5	39.5	21.5	53.5
Max Q Clear Time (g_c+I1), s	15.0	32.8	17.9	36.3	21.8	26.1	25.0	19.8
Green Ext Time (p_c), s	0.0	7.6	0.0	15.0	0.1	6.9	0.0	18.2

Intersection Summary	
HCM 2010 Ctrl Delay	88.3
HCM 2010 LOS	F

Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	70	420	176	0	0	0	0	597	566	170	466	0
Future Volume (veh/h)	70	420	176	0	0	0	0	597	566	170	466	0
Number	7	4	14				5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98				1.00		0.94	0.99		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1827				0	1827	1863	1863	1863	0
Adj Flow Rate, veh/h	75	452	76				0	642	343	183	501	0
Adj No. of Lanes	0	1	1				0	2	1	1	2	0
Peak Hour Factor	0.93	0.93	0.93				0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	4	2	4				0	4	2	2	2	0
Cap, veh/h	91	549	524				0	1680	717	400	2096	0
Arrive On Green	0.35	0.35	0.35				0.00	0.48	0.48	0.08	0.59	0.00
Sat Flow, veh/h	263	1586	1515				0	3563	1482	1774	3632	0
Grp Volume(v), veh/h	527	0	76				0	642	343	183	501	0
Grp Sat Flow(s),veh/h/ln	1850	0	1515				0	1736	1482	1774	1770	0
Q Serve(g_s), s	33.9	0.0	4.5				0.0	15.2	20.2	6.3	8.7	0.0
Cycle Q Clear(g_c), s	33.9	0.0	4.5				0.0	15.2	20.2	6.3	8.7	0.0
Prop In Lane	0.14		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	640	0	524				0	1680	717	400	2096	0
V/C Ratio(X)	0.82	0.00	0.14				0.00	0.38	0.48	0.46	0.24	0.00
Avail Cap(c_a), veh/h	640	0	524				0	1680	717	481	2096	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	38.9	0.0	29.3				0.0	21.2	22.5	14.7	12.6	0.0
Incr Delay (d2), s/veh	11.4	0.0	0.6				0.0	0.7	2.3	0.8	0.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	19.3	0.0	2.0				0.0	7.5	8.7	3.1	4.3	0.0
LnGrp Delay(d),s/veh	50.3	0.0	29.8				0.0	21.9	24.8	15.5	12.9	0.0
LnGrp LOS	D		C					C	C	B	B	
Approach Vol, veh/h		603						985			684	
Approach Delay, s/veh		47.7						22.9			13.6	
Approach LOS		D						C			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4		6		
Phs Duration (G+Y+Rc), s	14.1	66.9		49.0		81.0		
Change Period (Y+Rc), s	5.5	5.5		5.5		5.5		
Max Green Setting (Gmax), s	14.5	55.5		43.5		75.5		
Max Q Clear Time (g_c+I1), s	8.3	22.2		35.9		10.7		
Green Ext Time (p_c), s	0.3	12.3		2.3		14.2		

Intersection Summary	
HCM 2010 Ctrl Delay	26.7
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	199	250	240	85	582	0	0	428	80
Future Volume (veh/h)	0	0	0	199	250	240	85	582	0	0	428	80
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		0.97	1.00		1.00	1.00		0.99
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1863	1863	1624	1863	0	0	1847	1900
Adj Flow Rate, veh/h				207	260	33	89	606	0	0	446	52
Adj No. of Lanes				0	2	1	1	2	0	0	2	0
Peak Hour Factor				0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %				2	2	2	17	2	0	0	3	3
Cap, veh/h				774	772	673	389	1737	0	0	1243	144
Arrive On Green				0.44	0.44	0.44	0.06	0.49	0.00	0.00	0.39	0.38
Sat Flow, veh/h				1774	1770	1543	1547	3632	0	0	3257	367
Grp Volume(v), veh/h				207	260	33	89	606	0	0	246	252
Grp Sat Flow(s),veh/h/ln				1774	1770	1543	1547	1770	0	0	1755	1776
Q Serve(g_s), s				8.2	10.7	1.4	3.5	11.6	0.0	0.0	10.9	11.1
Cycle Q Clear(g_c), s				8.2	10.7	1.4	3.5	11.6	0.0	0.0	10.9	11.1
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.21
Lane Grp Cap(c), veh/h				774	772	673	389	1737	0	0	690	698
V/C Ratio(X)				0.27	0.34	0.05	0.23	0.35	0.00	0.00	0.36	0.36
Avail Cap(c_a), veh/h				774	772	673	504	1737	0	0	690	698
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				19.8	20.5	17.9	17.1	17.2	0.0	0.0	23.6	23.7
Incr Delay (d2), s/veh				0.8	1.2	0.1	0.3	0.6	0.0	0.0	1.4	1.4
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				4.2	5.5	0.6	1.5	5.8	0.0	0.0	5.5	5.7
LnGrp Delay(d),s/veh				20.6	21.7	18.0	17.4	17.8	0.0	0.0	25.0	25.2
LnGrp LOS				C	C	B	B	B			C	C
Approach Vol, veh/h					500			695			498	
Approach Delay, s/veh					21.0			17.7			25.1	
Approach LOS					C			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		58.0			10.8	47.2		52.0
Change Period (Y+Rc), s		5.5			5.5	5.5		5.5
Max Green Setting (Gmax), s		52.5			13.5	33.5		46.5
Max Q Clear Time (g_c+I1), s		13.6			5.5	13.1		12.7
Green Ext Time (p_c), s		9.5			0.1	7.8		3.3

Intersection Summary	
HCM 2010 Ctrl Delay	20.9
HCM 2010 LOS	C

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1266	133	10	40	570	350
Future Volume (veh/h)	1266	133	10	40	570	350
Number	6	16	5	2	7	14
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		0.94	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1796	1900	1900	1064	1863	1863
Adj Flow Rate, veh/h	1347	95	11	43	606	372
Adj No. of Lanes	4	0	0	2	2	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	6	6	73	73	2	2
Cap, veh/h	4027	283	144	785	845	389
Arrive On Green	0.68	0.67	0.68	0.68	0.25	0.25
Sat Flow, veh/h	6158	415	142	1200	3442	1583
Grp Volume(v), veh/h	1056	386	26	28	606	372
Grp Sat Flow(s),veh/h/ln	1544	1689	374	920	1721	1583
Q Serve(g_s), s	10.3	10.5	0.6	1.1	17.7	25.5
Cycle Q Clear(g_c), s	10.3	10.5	11.0	1.1	17.7	25.5
Prop In Lane		0.25	0.42		1.00	1.00
Lane Grp Cap(c), veh/h	3159	1152	302	627	845	389
V/C Ratio(X)	0.33	0.34	0.09	0.04	0.72	0.96
Avail Cap(c_a), veh/h	3159	1152	302	627	845	389
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	7.2	7.3	6.0	5.7	38.0	40.9
Incr Delay (d2), s/veh	0.3	0.8	0.6	0.1	2.9	34.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	5.1	0.3	0.3	8.8	14.9
LnGrp Delay(d),s/veh	7.5	8.1	6.6	5.9	40.9	75.5
LnGrp LOS	A	A	A	A	D	E
Approach Vol, veh/h	1442			54	978	
Approach Delay, s/veh	7.7			6.2	54.1	
Approach LOS	A			A	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		
Phs Duration (G+Y+Rc), s		79.0		31.0		79.0		
Change Period (Y+Rc), s		5.5		5.5		5.5		
Max Green Setting (Gmax), s		73.5		25.5		73.5		
Max Q Clear Time (g_c+I1), s		13.0		27.5		12.5		
Green Ext Time (p_c), s		16.5		0.0		16.5		

Intersection Summary	
HCM 2010 Ctrl Delay	26.0
HCM 2010 LOS	C

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	160	193	1467	360	130	120
Future Volume (veh/h)	160	193	1467	360	130	120
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			0.96	1.00	0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1802	1900	1863	1900
Adj Flow Rate, veh/h	163	197	1497	295	133	57
Adj No. of Lanes	1	1	4	0	0	0
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	6	6	0	0
Cap, veh/h	158	1035	2194	432	418	179
Arrive On Green	0.09	0.56	0.42	0.41	0.36	0.34
Sat Flow, veh/h	1774	1863	5449	1023	1176	504
Grp Volume(v), veh/h	163	197	1340	452	191	0
Grp Sat Flow(s),veh/h/ln	1774	1863	1550	1569	1689	0
Q Serve(g_s), s	8.0	4.7	21.0	21.2	7.4	0.0
Cycle Q Clear(g_c), s	8.0	4.7	21.0	21.2	7.4	0.0
Prop In Lane	1.00			0.65	0.70	0.30
Lane Grp Cap(c), veh/h	158	1035	1964	663	601	0
V/C Ratio(X)	1.03	0.19	0.68	0.68	0.32	0.00
Avail Cap(c_a), veh/h	158	1035	1964	663	601	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	41.0	9.9	21.1	21.6	21.2	0.0
Incr Delay (d2), s/veh	80.8	0.4	1.9	5.6	1.4	0.0
Initial Q Delay(d3),s/veh	0.3	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.4	2.5	9.3	10.1	3.7	0.0
LnGrp Delay(d),s/veh	122.1	10.3	23.0	27.2	22.6	0.0
LnGrp LOS	F	B	C	C	C	
Approach Vol, veh/h		360	1792		191	
Approach Delay, s/veh		61.0	24.1		22.6	
Approach LOS		E	C		C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6	7	8
Phs Duration (G+Y+Rc), s				54.0		36.0	12.0	42.0
Change Period (Y+Rc), s				5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s				48.5		30.5	6.5	36.5
Max Q Clear Time (g_c+I1), s				6.7		9.4	10.0	23.2
Green Ext Time (p_c), s				23.2		0.5	0.0	10.3

Intersection Summary	
HCM 2010 Ctrl Delay	29.6
HCM 2010 LOS	C

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	50	90	1012	210	10	30	656	170	120	290	80	60	140	129
Future Volume (veh/h)	50	90	1012	210	10	30	656	170	120	290	80	60	140	129
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.89	1.00		0.93	1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1855	1900
Adj Flow Rate, veh/h		96	1077	179		32	698	117	128	309	79	64	149	114
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.94	0.94	0.94		0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	3	3	3
Cap, veh/h		211	2531	420		59	2129	350	104	199	50	89	194	137
Arrive On Green		0.24	1.00	1.00		0.03	0.49	0.48	0.31	0.31	0.30	0.31	0.31	0.30
Sat Flow, veh/h		1774	4369	725		1774	4312	709	244	636	159	198	621	439
Grp Volume(v), veh/h		96	835	421		32	546	269	516	0	0	327	0	0
Grp Sat Flow(s),veh/h/ln		1774	1695	1704		1774	1695	1631	1038	0	0	1258	0	0
Q Serve(g_s), s		7.4	0.0	0.0		2.8	15.5	16.1	12.3	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s		7.4	0.0	0.0		2.8	15.5	16.1	50.0	0.0	0.0	37.7	0.0	0.0
Prop In Lane		1.00		0.43		1.00		0.43	0.25		0.15	0.20		0.35
Lane Grp Cap(c), veh/h		211	1964	987		59	1674	805	353	0	0	420	0	0
V/C Ratio(X)		0.46	0.43	0.43		0.55	0.33	0.33	1.46	0.00	0.00	0.78	0.00	0.00
Avail Cap(c_a), veh/h		211	1964	987		155	1674	805	353	0	0	420	0	0
HCM Platoon Ratio		2.00	2.00	2.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.69	0.69	0.69		1.00	1.00	1.00	0.09	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		56.6	0.0	0.0		76.2	24.4	24.8	58.6	0.0	0.0	49.9	0.0	0.0
Incr Delay (d2), s/veh		1.1	0.5	0.9		7.7	0.5	1.1	210.0	0.0	0.0	13.3	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.7	0.1	0.3		1.5	7.4	7.5	36.1	0.0	0.0	14.9	0.0	0.0
LnGrp Delay(d),s/veh		57.6	0.5	0.9		83.8	25.0	25.9	268.6	0.0	0.0	63.2	0.0	0.0
LnGrp LOS		E	A	A		F	C	C	F			E		
Approach Vol, veh/h			1352				847			516			327	
Approach Delay, s/veh			4.7				27.5			268.6			63.2	
Approach LOS			A				C			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		54.0	9.3	96.7		54.0	23.0	83.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		48.5	12.5	82.5		48.5	17.5	77.5
Max Q Clear Time (g_c+I1), s		52.0	4.8	2.0		39.7	9.4	18.1
Green Ext Time (p_c), s		0.0	0.0	13.2		3.9	0.3	6.7

Intersection Summary	
HCM 2010 Ctrl Delay	62.1
HCM 2010 LOS	E

Notes

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1156	30	50	1021	140	170
Future Volume (veh/h)	1156	30	50	1021	140	170
Number	4	14	3	8	5	12
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1029	1050	1200	1176	1863	1863
Adj Flow Rate, veh/h	1257	33	54	1110	152	185
Adj No. of Lanes	3	0	0	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	1449	38	65	1179	268	239
Arrive On Green	0.73	0.76	0.76	0.73	0.15	0.15
Sat Flow, veh/h	2512	52	32	1678	1774	1583
Grp Volume(v), veh/h	648	642	566	598	152	185
Grp Sat Flow(s),veh/h/ln	515	1020	639	1017	1774	1583
Q Serve(g_s), s	43.4	43.3	26.6	36.4	7.4	10.5
Cycle Q Clear(g_c), s	43.4	43.3	71.0	36.4	7.4	10.5
Prop In Lane		0.05	0.10		1.00	1.00
Lane Grp Cap(c), veh/h	747	740	530	738	268	239
V/C Ratio(X)	0.87	0.87	1.07	0.81	0.57	0.77
Avail Cap(c_a), veh/h	747	740	530	738	782	698
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	9.5	9.4	15.0	8.5	36.7	38.0
Incr Delay (d2), s/veh	13.0	13.1	58.5	9.4	1.9	5.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.4	14.6	15.8	11.9	3.8	4.9
LnGrp Delay(d),s/veh	22.4	22.5	73.5	17.9	38.6	43.3
LnGrp LOS	C	C	F	B	D	D
Approach Vol, veh/h	1290			1164	337	
Approach Delay, s/veh	22.4			44.9	41.2	
Approach LOS	C			D	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4				8
Phs Duration (G+Y+Rc), s		18.0		75.0				75.0
Change Period (Y+Rc), s		4.5		4.5				4.5
Max Green Setting (Gmax), s		40.5		70.5				70.5
Max Q Clear Time (g_c+I1), s		12.5		46.4				73.0
Green Ext Time (p_c), s		1.1		18.6				0.0

Intersection Summary	
HCM 2010 Ctrl Delay	34.1
HCM 2010 LOS	C

Intersection	
Int Delay, s/veh	0.6

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1573	60	0	908	0	62
Future Vol, veh/h	1573	60	0	908	0	62
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1656	63	0	956	0	65

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	859
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.92
Pot Cap-1 Maneuver	-	-	0	-	0	257
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	257
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	23.7
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	257	-	-	-
HCM Lane V/C Ratio	0.254	-	-	-
HCM Control Delay (s)	23.7	-	-	-
HCM Lane LOS	C	-	-	-
HCM 95th %tile Q(veh)	1	-	-	-

Intersection	
Int Delay, s/veh	2.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	20	0	20	38	0	15	30	284	75	8	121	10
Future Vol, veh/h	20	0	20	38	0	15	30	284	75	8	121	10
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	22	0	22	41	0	16	33	309	82	9	132	11

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	577	609	137	580	575	349	142	0	0	390	0	0
Stage 1	154	154	-	415	415	-	-	-	-	-	-	-
Stage 2	423	455	-	165	160	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	428	410	911	426	429	694	1441	-	-	1169	-	-
Stage 1	848	770	-	615	592	-	-	-	-	-	-	-
Stage 2	609	569	-	837	766	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	406	395	911	404	413	694	1441	-	-	1169	-	-
Mov Cap-2 Maneuver	406	395	-	404	413	-	-	-	-	-	-	-
Stage 1	823	764	-	597	574	-	-	-	-	-	-	-
Stage 2	577	552	-	810	760	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	11.9	14	0.6	0.5
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1441	-	-	562	458	1169	-	-
HCM Lane V/C Ratio	0.023	-	-	0.077	0.126	0.007	-	-
HCM Control Delay (s)	7.6	0	-	11.9	14	8.1	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.3	0.4	0	-	-

APPENDIX D: YEAR 2028 LOS WORKSHEETS

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	40	910	520	310	480	20	240	10	210	0	0	0
Future Volume (veh/h)	40	910	520	310	480	20	240	10	210	0	0	0
Number	7	4	14	3	8	18	5	2	12			
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.89	1.00		0.87			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	1863	1810	1810	1863	1828	1900	1727	1740	1810			
Adj Flow Rate, veh/h	43	968	302	330	511	16	263	0	113			
Adj No. of Lanes	1	2	1	1	2	0	2	0	1			
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94			
Percent Heavy Veh, %	2	5	5	2	4	4	10	0	5			
Cap, veh/h	103	1634	712	362	2126	66	715	0	291			
Arrive On Green	0.06	0.48	0.48	0.20	0.62	0.61	0.22	0.00	0.22			
Sat Flow, veh/h	1774	3438	1499	1774	3424	107	3290	0	1341			
Grp Volume(v), veh/h	43	968	302	330	259	268	263	0	113			
Grp Sat Flow(s),veh/h/ln	1774	1719	1499	1774	1737	1794	1645	0	1341			
Q Serve(g_s), s	2.7	23.8	15.3	21.1	7.7	7.7	7.9	0.0	8.3			
Cycle Q Clear(g_c), s	2.7	23.8	15.3	21.1	7.7	7.7	7.9	0.0	8.3			
Prop In Lane	1.00		1.00	1.00		0.06	1.00		1.00			
Lane Grp Cap(c), veh/h	103	1634	712	362	1078	1114	715	0	291			
V/C Ratio(X)	0.42	0.59	0.42	0.91	0.24	0.24	0.37	0.00	0.39			
Avail Cap(c_a), veh/h	215	1634	712	368	1078	1114	824	0	336			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	52.6	22.2	20.0	45.1	9.8	9.8	38.5	0.0	38.7			
Incr Delay (d2), s/veh	2.7	1.6	1.8	26.1	0.5	0.5	0.3	0.0	0.8			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.4	11.7	6.7	13.0	3.8	4.0	3.6	0.0	3.2			
LnGrp Delay(d),s/veh	55.3	23.8	21.8	71.1	10.3	10.3	38.9	0.0	39.6			
LnGrp LOS	E	C	C	E	B	B	D		D			
Approach Vol, veh/h		1313			857			376				
Approach Delay, s/veh		24.4			33.7			39.1				
Approach LOS		C			C			D				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4			7	8
Phs Duration (G+Y+Rc), s		29.1	27.6	59.0			10.7	75.9
Change Period (Y+Rc), s		5.5	4.5	5.5			5.5	5.5
Max Green Setting (Gmax), s		27.5	23.5	53.5			12.5	63.5
Max Q Clear Time (g_c+I1), s		10.3	23.1	25.8			4.7	9.7
Green Ext Time (p_c), s		1.2	0.1	13.4			0.0	17.0

Intersection Summary	
HCM 2010 Ctrl Delay	29.7
HCM 2010 LOS	C

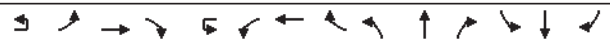
Notes

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	90	1030	440	120	280	120
Future Volume (veh/h)	90	1030	440	120	280	120
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.97			0.94	1.00	0.70
Parking Bus, Adj	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1790	1827	1810	1845	1900
Adj Flow Rate, veh/h	94	1073	458	26	292	125
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	6	6	4	5	0	0
Cap, veh/h	192	2087	2517	943	217	93
Arrive On Green	0.73	0.73	1.00	1.00	0.21	0.20
Sat Flow, veh/h	217	2960	3563	1301	1040	445
Grp Volume(v), veh/h	587	580	458	26	418	0
Grp Sat Flow(s),veh/h/ln	1548	1547	1736	1301	1489	0
Q Serve(g_s), s	8.4	19.8	0.0	0.0	25.0	0.0
Cycle Q Clear(g_c), s	18.0	19.8	0.0	0.0	25.0	0.0
Prop In Lane	0.16			1.00	0.70	0.30
Lane Grp Cap(c), veh/h	1157	1122	2517	943	310	0
V/C Ratio(X)	0.51	0.52	0.18	0.03	1.35	0.00
Avail Cap(c_a), veh/h	1157	1122	2517	943	310	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.98	0.98	0.23	0.00
Uniform Delay (d), s/veh	6.9	7.3	0.0	0.0	47.7	0.0
Incr Delay (d2), s/veh	1.6	1.7	0.2	0.1	161.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.7	8.9	0.1	0.0	24.2	0.0
LnGrp Delay(d),s/veh	8.4	9.0	0.2	0.1	209.0	0.0
LnGrp LOS	A	A	A	A	F	
Approach Vol, veh/h		1167	484		418	
Approach Delay, s/veh		8.7	0.2		209.0	
Approach LOS		A	A		F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				91.0		29.0		91.0
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				85.5		23.5		85.5
Max Q Clear Time (g_c+I1), s				21.8		27.0		2.0
Green Ext Time (p_c), s				20.2		0.0		21.1

Intersection Summary	
HCM 2010 Ctrl Delay	47.2
HCM 2010 LOS	D

Notes

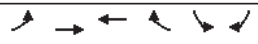


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	70	190	1630	250	10	60	520	70	140	120	60	110	220	560
Future Volume (veh/h)	70	190	1630	250	10	60	520	70	140	120	60	110	220	560
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.75	0.95		0.77	0.87		0.85
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1827	1827	1900		1827	1742	1900	1863	1827	1900	1900	1863	1827
Adj Flow Rate, veh/h		200	1716	243		63	547	59	147	126	49	116	232	267
Adj No. of Lanes		1	3	0		1	3	0	1	1	0	0	1	1
Peak Hour Factor		0.95	0.95	0.95		0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %		4	4	4		4	10	10	2	3	3	2	2	4
Cap, veh/h		239	2595	365		96	2142	223	212	322	125	125	195	372
Arrive On Green		0.14	0.59	0.58		0.04	0.34	0.33	0.28	0.28	0.27	0.28	0.28	0.28
Sat Flow, veh/h		1740	4409	621		1740	4228	440	1086	1144	445	337	694	1321
Grp Volume(v), veh/h		200	1292	667		63	405	201	147	0	175	348	0	267
Grp Sat Flow(s),veh/h/ln		1740	1663	1705		1740	1586	1497	1086	0	1589	1031	0	1321
Q Serve(g_s), s		17.9	41.8	42.6		5.7	14.8	15.6	0.0	0.0	14.3	30.7	0.0	29.1
Cycle Q Clear(g_c), s		17.9	41.8	42.6		5.7	14.8	15.6	37.9	0.0	14.3	45.0	0.0	29.1
Prop In Lane		1.00		0.36		1.00		0.29	1.00		0.28	0.33		1.00
Lane Grp Cap(c), veh/h		239	1957	1003		96	1606	758	212	0	447	320	0	372
V/C Ratio(X)		0.84	0.66	0.67		0.66	0.25	0.26	0.69	0.00	0.39	1.09	0.00	0.72
Avail Cap(c_a), veh/h		446	1957	1003		239	1606	758	212	0	447	320	0	372
HCM Platoon Ratio		1.00	1.00	1.00		0.67	0.67	0.67	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.99	0.99	0.99	0.99	0.00	0.99	1.00	0.00	1.00
Uniform Delay (d), s/veh		67.3	22.1	22.5		75.5	31.0	31.3	54.9	0.0	46.6	65.5	0.0	51.8
Incr Delay (d2), s/veh		7.6	1.8	3.5		7.3	0.4	0.8	17.0	0.0	2.5	75.7	0.0	11.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		9.1	19.7	20.9		2.9	6.6	6.7	7.2	0.0	6.6	20.9	0.0	11.8
LnGrp Delay(d),s/veh		74.9	23.9	26.0		82.8	31.3	32.2	71.9	0.0	49.2	141.2	0.0	63.1
LnGrp LOS		E	C	C		F	C	C	E		D	F		E
Approach Vol, veh/h			2159				669			322			615	
Approach Delay, s/veh			29.3				36.4			59.6			107.3	
Approach LOS			C				D			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		49.0	12.8	98.2		49.0	25.9	85.1
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		43.5	20.5	79.5		43.5	39.5	60.5
Max Q Clear Time (g_c+I1), s		39.9	7.7	44.6		47.0	19.9	17.6
Green Ext Time (p_c), s		1.8	0.1	26.3		0.0	0.5	30.6

Intersection Summary	
HCM 2010 Ctrl Delay	45.9
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	80	1250	540	50	160	70
Future Volume (veh/h)	80	1250	540	50	160	70
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.96			0.89	1.00	0.81
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1805	1827	1863	1863	1900
Adj Flow Rate, veh/h	85	1330	574	10	170	56
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	5	5	4	2	0	0
Cap, veh/h	148	2152	2496	1017	260	86
Arrive On Green	0.72	0.72	1.00	1.00	0.21	0.20
Sat Flow, veh/h	159	3075	3563	1415	1212	399
Grp Volume(v), veh/h	724	691	574	10	227	0
Grp Sat Flow(s),veh/h/ln	1592	1561	1736	1415	1618	0
Q Serve(g_s), s	14.8	26.8	0.0	0.0	15.4	0.0
Cycle Q Clear(g_c), s	25.9	26.8	0.0	0.0	15.4	0.0
Prop In Lane	0.12			1.00	0.75	0.25
Lane Grp Cap(c), veh/h	1178	1122	2496	1017	347	0
V/C Ratio(X)	0.61	0.62	0.23	0.01	0.65	0.00
Avail Cap(c_a), veh/h	1178	1122	2496	1017	364	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	0.56	0.56	0.09	0.09	1.00	0.00
Uniform Delay (d), s/veh	8.2	8.5	0.0	0.0	43.3	0.0
Incr Delay (d2), s/veh	1.4	1.4	0.0	0.0	3.9	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.1	11.8	0.0	0.0	7.3	0.0
LnGrp Delay(d),s/veh	9.5	9.9	0.0	0.0	47.2	0.0
LnGrp LOS	A	A	A	A	D	
Approach Vol, veh/h		1415	584		227	
Approach Delay, s/veh		9.7	0.0		47.2	
Approach LOS		A	A		D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				90.3		29.7		90.3
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				83.5		25.5		83.5
Max Q Clear Time (g_c+I1), s				28.8		17.4		2.0
Green Ext Time (p_c), s				27.3		0.4		31.7

Intersection Summary	
HCM 2010 Ctrl Delay	11.0
HCM 2010 LOS	B

Notes

Intersection	
Int Delay, s/veh	3.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	50	40	130	40	30	170
Future Vol, veh/h	50	40	130	40	30	170
Conflicting Peds, #/hr	0	76	0	67	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	3	4	3	5	2
Mvmt Flow	54	43	141	43	33	185

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	480	306	0	0	252	0
Stage 1	230	-	-	-	-	-
Stage 2	250	-	-	-	-	-
Critical Hdwy	6.42	6.23	-	-	4.15	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.327	-	-	2.245	-
Pot Cap-1 Maneuver	545	732	-	-	1296	-
Stage 1	808	-	-	-	-	-
Stage 2	792	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	494	636	-	-	1202	-
Mov Cap-2 Maneuver	494	-	-	-	-	-
Stage 1	756	-	-	-	-	-
Stage 2	767	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	13	0	1.2
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	548	1202	-
HCM Lane V/C Ratio	-	-	0.179	0.027	-
HCM Control Delay (s)	-	-	13	8.1	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.6	0.1	-

Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (veh/h)	0	1720	160	30	40	570	10	80	10	90	10	10
Future Volume (veh/h)	0	1720	160	30	40	570	10	80	10	90	10	10
Number	7	4	14		3	8	18	5	2	12	1	6
Initial Q (Qb), veh	0	0	0		0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.92		1.00		0.95	0.92		0.94	0.96	
Parking Bus, Adj	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1827	1900		1863	1745	1900	1900	1845	1900	1900	1863
Adj Flow Rate, veh/h	0	1792	153		42	594	8	83	10	58	10	10
Adj No. of Lanes	0	3	0		1	3	0	0	1	0	0	1
Peak Hour Factor	0.96	0.96	0.96		0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	4	4		2	9	9	2	2	2	2	2
Cap, veh/h	0	2809	239		70	3237	44	218	32	134	180	175
Arrive On Green	0.00	0.80	0.79		0.08	1.00	1.00	0.28	0.28	0.27	0.28	0.28
Sat Flow, veh/h	0	4813	395		1774	4840	65	653	113	477	528	624
Grp Volume(v), veh/h	0	1279	666		42	389	213	151	0	0	26	0
Grp Sat Flow(s),veh/h/ln	0	1663	1719		1774	1588	1729	1243	0	0	1498	0
Q Serve(g_s), s	0.0	24.8	25.4		3.7	0.0	0.0	13.9	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	24.8	25.4		3.7	0.0	0.0	15.7	0.0	0.0	1.7	0.0
Prop In Lane	0.00		0.23		1.00		0.04	0.55		0.38	0.38	
Lane Grp Cap(c), veh/h	0	2009	1039		70	2124	1156	384	0	0	452	0
V/C Ratio(X)	0.00	0.64	0.64		0.60	0.18	0.18	0.39	0.00	0.00	0.06	0.00
Avail Cap(c_a), veh/h	0	2009	1039		211	2124	1156	384	0	0	452	0
HCM Platoon Ratio	1.00	1.33	1.33		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.61	0.61		0.94	0.94	0.94	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	8.6	8.8		72.5	0.0	0.0	47.1	0.0	0.0	42.1	0.0
Incr Delay (d2), s/veh	0.0	1.0	1.9		7.5	0.2	0.3	3.0	0.0	0.0	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	11.4	12.2		1.9	0.1	0.1	5.8	0.0	0.0	0.9	0.0
LnGrp Delay(d),s/veh	0.0	9.6	10.7		79.9	0.2	0.3	50.0	0.0	0.0	42.3	0.0
LnGrp LOS		A	B		E	A	A	D			D	
Approach Vol, veh/h		1945				644			151			26
Approach Delay, s/veh		10.0				5.4			50.0			42.3
Approach LOS		A				A			D			D

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6		8
Phs Duration (G+Y+Rc), s		49.0	10.3	100.7		49.0		111.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s		43.5	17.5	82.5		43.5		82.5
Max Q Clear Time (g_c+I1), s		17.7	5.7	27.4		3.7		2.0
Green Ext Time (p_c), s		1.1	0.0	35.6		1.3		44.1

Intersection Summary	
HCM 2010 Ctrl Delay	11.4
HCM 2010 LOS	B

Notes

Movement	SBR
Lane Configurations	
Traffic Volume (veh/h)	10
Future Volume (veh/h)	10
Number	16
Initial Q (Qb), veh	0
Ped-Bike Adj(A_pbT)	0.91
Parking Bus, Adj	1.00
Adj Sat Flow, veh/h/ln	1900
Adj Flow Rate, veh/h	6
Adj No. of Lanes	0
Peak Hour Factor	0.96
Percent Heavy Veh, %	2
Cap, veh/h	97
Arrive On Green	0.27
Sat Flow, veh/h	346
Grp Volume(v), veh/h	0
Grp Sat Flow(s),veh/h/ln	0
Q Serve(g_s), s	0.0
Cycle Q Clear(g_c), s	0.0
Prop In Lane	0.23
Lane Grp Cap(c), veh/h	0
V/C Ratio(X)	0.00
Avail Cap(c_a), veh/h	0
HCM Platoon Ratio	1.00
Upstream Filter(I)	0.00
Uniform Delay (d), s/veh	0.0
Incr Delay (d2), s/veh	0.0
Initial Q Delay(d3),s/veh	0.0
%ile BackOfQ(50%),veh/ln	0.0
LnGrp Delay(d),s/veh	0.0
LnGrp LOS	
Approach Vol, veh/h	
Approach Delay, s/veh	
Approach LOS	

Timer

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	280	820	370	410	40	450	580	160	0	1140	50
Future Volume (veh/h)	0	280	820	370	410	40	450	580	160	0	1140	50
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.91	1.00		0.87	1.00		1.00	1.00		0.72
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1817	1810	1681	1826	1900	1827	1801	1900	0	1844	1900
Adj Flow Rate, veh/h	0	289	845	282	562	41	266	876	0	0	1175	52
Adj No. of Lanes	0	1	2	1	2	0	1	3	0	0	3	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	4	5	13	2	2	4	3	3	0	3	3
Cap, veh/h	0	545	1196	294	1718	125	203	2251	0	0	1293	57
Arrive On Green	0.00	0.30	0.30	0.18	0.52	0.50	0.12	0.42	0.00	0.00	0.27	0.25
Sat Flow, veh/h	0	1817	2790	1601	3325	242	1740	5403	0	0	5014	214
Grp Volume(v), veh/h	0	289	845	282	308	295	266	876	0	0	813	414
Grp Sat Flow(s),veh/h/ln	0	1817	1395	1601	1826	1741	1740	1801	0	0	1678	1706
Q Serve(g_s), s	0.0	15.9	30.4	20.9	11.8	11.9	14.0	13.5	0.0	0.0	28.1	28.2
Cycle Q Clear(g_c), s	0.0	15.9	30.4	20.9	11.8	11.9	14.0	13.5	0.0	0.0	28.1	28.2
Prop In Lane	0.00		1.00	1.00		0.14	1.00		0.00	0.00		0.13
Lane Grp Cap(c), veh/h	0	545	1196	294	943	899	203	2251	0	0	895	455
V/C Ratio(X)	0.00	0.53	0.71	0.96	0.33	0.33	1.31	0.39	0.00	0.00	0.91	0.91
Avail Cap(c_a), veh/h	0	545	1196	294	943	899	203	2251	0	0	895	455
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.09	0.09	0.95	0.95	0.95	0.94	0.94	0.00	0.00	0.66	0.66
Uniform Delay (d), s/veh	0.0	35.0	29.3	48.6	16.9	16.9	53.0	24.4	0.0	0.0	42.6	42.7
Incr Delay (d2), s/veh	0.0	0.3	0.3	40.6	0.9	0.9	168.9	0.5	0.0	0.0	10.5	18.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	8.0	11.7	12.6	6.1	5.9	16.2	6.8	0.0	0.0	14.3	15.5
LnGrp Delay(d),s/veh	0.0	35.3	29.6	89.2	17.7	17.9	221.9	24.8	0.0	0.0	53.1	60.9
LnGrp LOS		D	C	F	B	B	F	C			D	E
Approach Vol, veh/h		1134			885			1142			1227	
Approach Delay, s/veh		31.1			40.6			70.7			55.7	
Approach LOS		C			D			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4		6		8
Phs Duration (G+Y+Rc), s	16.0	40.0	18.0	36.0		66.0		54.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s	10.5	34.5	12.5	30.5		60.5		48.5
Max Q Clear Time (g_c+I1), s	12.9	32.4	16.0	30.2		13.9		15.5
Green Ext Time (p_c), s	0.0	1.7	0.0	0.3		14.4		21.0

Intersection Summary	
HCM 2010 Ctrl Delay	50.2
HCM 2010 LOS	D

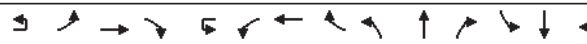
Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	30	10	20	20	0	60	10	420	20	30	810	20
Future Volume (veh/h)	30	10	20	20	0	60	10	420	20	30	810	20
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.93		0.77	0.80		0.92	1.00		0.88	1.00		0.91
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1768	1900	1900	1836	1900	1863	1761	1900	1863	1776	1900
Adj Flow Rate, veh/h	32	11	3	21	0	11	11	447	14	32	862	18
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	25	25	25	2	2	2	2	8	8	2	7	7
Cap, veh/h	262	83	20	231	11	97	49	2021	63	77	2122	44
Arrive On Green	0.23	0.23	0.21	0.23	0.00	0.21	0.03	0.61	0.60	0.04	0.63	0.61
Sat Flow, veh/h	891	365	88	760	48	424	1774	3296	103	1774	3372	70
Grp Volume(v), veh/h	46	0	0	32	0	0	11	226	235	32	431	449
Grp Sat Flow(s),veh/h/ln	1344	0	0	1232	0	0	1774	1673	1727	1774	1687	1756
Q Serve(g_s), s	0.8	0.0	0.0	0.0	0.0	0.0	0.6	6.3	6.4	1.8	13.3	13.3
Cycle Q Clear(g_c), s	2.5	0.0	0.0	1.6	0.0	0.0	0.6	6.3	6.4	1.8	13.3	13.3
Prop In Lane	0.70		0.07	0.66		0.34	1.00		0.06	1.00		0.04
Lane Grp Cap(c), veh/h	365	0	0	339	0	0	49	1026	1059	77	1061	1104
V/C Ratio(X)	0.13	0.00	0.00	0.09	0.00	0.00	0.23	0.22	0.22	0.42	0.41	0.41
Avail Cap(c_a), veh/h	380	0	0	352	0	0	153	1026	1059	153	1061	1104
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	32.0	0.0	0.0	31.9	0.0	0.0	49.7	9.0	9.1	48.6	9.6	9.7
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.1	0.0	0.0	2.3	0.5	0.5	3.6	1.2	1.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	0.0	0.0	0.7	0.0	0.0	0.3	3.0	3.1	1.0	6.5	6.7
LnGrp Delay(d),s/veh	32.2	0.0	0.0	32.0	0.0	0.0	52.0	9.5	9.5	52.2	10.8	10.8
LnGrp LOS	C			C			D	A	A	D	B	B
Approach Vol, veh/h		46			32			472			912	
Approach Delay, s/veh		32.2			32.0			10.5			12.2	
Approach LOS		C			C			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	8.5	68.0		27.8	6.9	69.7		27.8
Change Period (Y+Rc), s	5.5	5.5		5.5	5.5	5.5		5.5
Max Green Setting (Gmax), s	7.5	62.5		23.5	7.5	62.5		23.5
Max Q Clear Time (g_c+I1), s	3.8	8.4		4.5	2.6	15.3		3.6
Green Ext Time (p_c), s	0.0	12.1		0.4	0.0	11.8		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	12.7
HCM 2010 LOS	B

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	360	1270	180	40	180	360	80	100	340	70	210	510	150
Future Volume (veh/h)	20	360	1270	180	40	180	360	80	100	340	70	210	510	150
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.94		1.00		0.88	1.00		0.92	1.00		0.88
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	0.90
Adj Sat Flow, veh/h/ln		1812	1847	1900		1863	1750	1900	1696	1790	1900	1863	1813	1900
Adj Flow Rate, veh/h		383	1351	175		191	383	50	106	362	58	223	543	133
Adj No. of Lanes		1	3	0		1	3	0	1	2	0	1	2	0
Peak Hour Factor		0.94	0.94	0.94		0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %		5	0	0		2	10	10	12	7	7	2	5	5
Cap, veh/h		248	1736	225		177	1403	175	140	907	143	177	825	200
Arrive On Green		0.05	0.13	0.12		0.10	0.34	0.33	0.09	0.31	0.30	0.10	0.33	0.32
Sat Flow, veh/h		1726	4481	580		1774	4080	510	1616	2903	459	1774	2530	615
Grp Volume(v), veh/h		383	1014	512		191	295	138	106	210	210	223	368	308
Grp Sat Flow(s),veh/h/ln		1726	1681	1699		1774	1593	1405	1616	1700	1661	1774	1723	1422
Q Serve(g_s), s		23.0	46.7	46.7		16.0	10.7	11.5	10.3	15.5	16.0	16.0	29.3	29.9
Cycle Q Clear(g_c), s		23.0	46.7	46.7		16.0	10.7	11.5	10.3	15.5	16.0	16.0	29.3	29.9
Prop In Lane		1.00		0.34		1.00		0.36	1.00		0.28	1.00		0.43
Lane Grp Cap(c), veh/h		248	1303	658		177	1095	483	140	531	519	177	562	464
V/C Ratio(X)		1.54	0.78	0.78		1.08	0.27	0.29	0.76	0.40	0.40	1.26	0.66	0.66
Avail Cap(c_a), veh/h		248	1303	658		177	1095	483	252	531	519	177	562	464
HCM Platoon Ratio		0.33	0.33	0.33		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.62	0.62	0.62		0.98	0.98	0.98	0.99	0.99	0.99	0.91	0.91	0.91
Uniform Delay (d), s/veh		76.2	63.1	63.2		72.0	38.0	38.4	71.5	43.1	43.5	72.0	46.2	46.7
Incr Delay (d2), s/veh		256.8	2.9	5.6		88.7	0.6	1.4	8.1	2.2	2.3	150.5	5.4	6.7
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		28.7	22.3	23.0		12.2	4.8	4.6	4.9	7.6	7.6	15.3	14.8	12.6
LnGrp Delay(d),s/veh		333.0	66.0	68.8		160.7	38.6	39.9	79.5	45.3	45.8	222.5	51.6	53.4
LnGrp LOS		F	E	E		F	D	D	E	D	D	F	D	D
Approach Vol, veh/h			1909				624			526			899	
Approach Delay, s/veh			120.3				76.2			52.4			94.6	
Approach LOS			F				E			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.0	54.0	20.0	66.0	17.8	56.2	27.0	59.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Max Green Setting (Gmax), s	14.5	48.5	14.5	60.5	23.5	39.5	21.5	53.5
Max Q Clear Time (g_c+I1), s	13.0	18.0	18.0	48.7	12.3	31.9	25.0	13.5
Green Ext Time (p_c), s	0.0	8.7	0.0	9.0	0.2	4.1	0.0	20.8

Intersection Summary	
HCM 2010 Ctrl Delay	98.5
HCM 2010 LOS	F

Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	30	360	300	0	0	0	0	400	440	370	750	0
Future Volume (veh/h)	30	360	300	0	0	0	0	400	440	370	750	0
Number	7	4	14				5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.92				1.00		0.84	0.96		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1846	1810				0	1810	1827	1863	1863	0
Adj Flow Rate, veh/h	32	379	80				0	421	289	389	789	0
Adj No. of Lanes	0	1	1				0	2	1	1	2	0
Peak Hour Factor	0.95	0.95	0.95				0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	3	5				0	5	4	2	2	0
Cap, veh/h	50	587	491				0	1507	572	528	2096	0
Arrive On Green	0.35	0.35	0.35				0.00	0.44	0.44	0.12	0.59	0.00
Sat Flow, veh/h	143	1696	1419				0	3529	1305	1774	3632	0
Grp Volume(v), veh/h	411	0	80				0	421	289	389	789	0
Grp Sat Flow(s),veh/h/ln	1839	0	1419				0	1719	1305	1774	1770	0
Q Serve(g_s), s	24.5	0.0	5.1				0.0	10.2	20.8	15.4	15.2	0.0
Cycle Q Clear(g_c), s	24.5	0.0	5.1				0.0	10.2	20.8	15.4	15.2	0.0
Prop In Lane	0.08		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	637	0	491				0	1507	572	528	2096	0
V/C Ratio(X)	0.65	0.00	0.16				0.00	0.28	0.51	0.74	0.38	0.00
Avail Cap(c_a), veh/h	637	0	491				0	1507	572	528	2096	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	35.8	0.0	29.4				0.0	23.4	26.3	16.2	13.9	0.0
Incr Delay (d2), s/veh	5.0	0.0	0.7				0.0	0.5	3.2	5.3	0.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	18.3	0.0	2.1				0.0	4.9	8.0	8.2	7.5	0.0
LnGrp Delay(d),s/veh	40.8	0.0	30.2				0.0	23.8	29.5	21.5	14.4	0.0
LnGrp LOS	D		C					C	C	C	B	
Approach Vol, veh/h		491						710			1178	
Approach Delay, s/veh		39.1						26.1			16.8	
Approach LOS		D						C			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4		6		
Phs Duration (G+Y+Rc), s	20.0	61.0		49.0		81.0		
Change Period (Y+Rc), s	5.5	5.5		5.5		5.5		
Max Green Setting (Gmax), s	14.5	55.5		43.5		75.5		
Max Q Clear Time (g_c+I1), s	17.4	22.8		26.5		17.2		
Green Ext Time (p_c), s	0.0	13.0		2.8		15.1		

Intersection Summary	
HCM 2010 Ctrl Delay	24.2
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	240	210	250	40	370	0	0	850	70
Future Volume (veh/h)	0	0	0	240	210	250	40	370	0	0	850	70
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		0.93	1.00		1.00	1.00		0.94
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1863	1863	1597	1863	0	0	1863	1900
Adj Flow Rate, veh/h				267	233	278	44	411	0	0	944	70
Adj No. of Lanes				0	2	1	1	2	0	0	2	0
Peak Hour Factor				0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %				2	2	2	19	2	0	0	2	2
Cap, veh/h				774	772	643	219	1737	0	0	1354	100
Arrive On Green				0.44	0.44	0.44	0.05	0.49	0.00	0.00	0.41	0.39
Sat Flow, veh/h				1774	1770	1474	1521	3632	0	0	3418	247
Grp Volume(v), veh/h				267	233	278	44	411	0	0	502	512
Grp Sat Flow(s),veh/h/ln				1774	1770	1474	1521	1770	0	0	1770	1802
Q Serve(g_s), s				11.0	9.4	14.4	1.7	7.4	0.0	0.0	25.9	25.9
Cycle Q Clear(g_c), s				11.0	9.4	14.4	1.7	7.4	0.0	0.0	25.9	25.9
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.14
Lane Grp Cap(c), veh/h				774	772	643	219	1737	0	0	721	734
V/C Ratio(X)				0.34	0.30	0.43	0.20	0.24	0.00	0.00	0.70	0.70
Avail Cap(c_a), veh/h				774	772	643	354	1737	0	0	721	734
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				20.6	20.1	21.5	19.6	16.1	0.0	0.0	27.0	27.1
Incr Delay (d2), s/veh				1.2	1.0	2.1	0.4	0.3	0.0	0.0	5.5	5.4
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				5.6	4.8	6.2	0.7	3.7	0.0	0.0	13.7	13.9
LnGrp Delay(d),s/veh				21.8	21.1	23.6	20.1	16.4	0.0	0.0	32.5	32.5
LnGrp LOS				C	C	C	C	B			C	C
Approach Vol, veh/h					778			455			1014	
Approach Delay, s/veh					22.3			16.8			32.5	
Approach LOS					C			B			C	

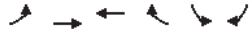
Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		58.0			9.2	48.8		52.0
Change Period (Y+Rc), s		5.5			5.5	5.5		5.5
Max Green Setting (Gmax), s		52.5			13.5	33.5		46.5
Max Q Clear Time (g_c+I1), s		9.4			3.7	27.9		16.4
Green Ext Time (p_c), s		14.0			0.0	4.0		4.7

Intersection Summary	
HCM 2010 Ctrl Delay	25.8
HCM 2010 LOS	C

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1720	270	10	40	250	130
Future Volume (veh/h)	1720	270	10	40	250	130
Number	6	16	5	2	7	14
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		0.94	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1797	1900	1900	1200	1810	1696
Adj Flow Rate, veh/h	1849	208	11	43	269	140
Adj No. of Lanes	4	0	0	2	2	1
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	6	6	54	54	5	12
Cap, veh/h	4376	492	132	922	474	204
Arrive On Green	0.78	0.76	0.78	0.78	0.14	0.14
Sat Flow, veh/h	5894	635	99	1243	3343	1442
Grp Volume(v), veh/h	1519	538	24	30	269	140
Grp Sat Flow(s),veh/h/ln	1545	1640	250	1038	1672	1442
Q Serve(g_s), s	10.6	10.8	0.9	0.7	7.3	8.9
Cycle Q Clear(g_c), s	10.6	10.8	11.7	0.7	7.3	8.9
Prop In Lane		0.39	0.47		1.00	1.00
Lane Grp Cap(c), veh/h	3596	1272	248	805	474	204
V/C Ratio(X)	0.42	0.42	0.10	0.04	0.57	0.69
Avail Cap(c_a), veh/h	3596	1272	248	805	933	403
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	3.6	3.7	2.9	2.5	38.7	39.4
Incr Delay (d2), s/veh	0.4	1.0	0.8	0.1	1.1	4.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	5.2	0.2	0.2	3.4	3.8
LnGrp Delay(d),s/veh	4.0	4.8	3.7	2.6	39.8	43.5
LnGrp LOS	A	A	A	A	D	D
Approach Vol, veh/h	2057			54	409	
Approach Delay, s/veh	4.2			3.1	41.1	
Approach LOS	A			A	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		
Phs Duration (G+Y+Rc), s		79.0		17.7		79.0		
Change Period (Y+Rc), s		5.5		5.5		5.5		
Max Green Setting (Gmax), s		73.5		25.5		73.5		
Max Q Clear Time (g_c+I1), s		13.7		10.9		12.8		
Green Ext Time (p_c), s		30.2		1.3		30.4		

Intersection Summary	
HCM 2010 Ctrl Delay	10.2
HCM 2010 LOS	B

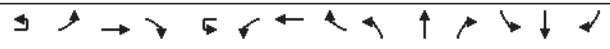


Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	140	210	840	230	270	100
Future Volume (veh/h)	140	210	840	230	270	100
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			0.95	1.00	0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1827	1863	1835	1900	1863	1900
Adj Flow Rate, veh/h	154	231	923	155	297	77
Adj No. of Lanes	1	1	4	0	0	0
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	4	2	4	4	0	0
Cap, veh/h	155	1035	2305	379	482	125
Arrive On Green	0.09	0.56	0.42	0.41	0.36	0.34
Sat Flow, veh/h	1740	1863	5716	899	1355	351
Grp Volume(v), veh/h	154	231	798	280	375	0
Grp Sat Flow(s),veh/h/ln	1740	1863	1578	1625	1711	0
Q Serve(g_s), s	8.0	5.7	10.5	11.0	16.3	0.0
Cycle Q Clear(g_c), s	8.0	5.7	10.5	11.0	16.3	0.0
Prop In Lane	1.00			0.55	0.79	0.21
Lane Grp Cap(c), veh/h	155	1035	1998	686	608	0
V/C Ratio(X)	1.00	0.22	0.40	0.41	0.62	0.00
Avail Cap(c_a), veh/h	155	1035	1998	686	608	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	41.0	10.1	18.1	18.5	24.1	0.0
Incr Delay (d2), s/veh	71.0	0.5	0.6	1.8	4.6	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.9	3.0	4.7	5.2	8.5	0.0
LnGrp Delay(d),s/veh	112.0	10.6	18.7	20.3	28.7	0.0
LnGrp LOS	F	B	B	C	C	
Approach Vol, veh/h		385	1078		375	
Approach Delay, s/veh		51.2	19.1		28.7	
Approach LOS		D	B		C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6	7	8
Phs Duration (G+Y+Rc), s				54.0		36.0	12.0	42.0
Change Period (Y+Rc), s				5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s				48.5		30.5	6.5	36.5
Max Q Clear Time (g_c+I1), s				7.7		18.3	10.0	13.0
Green Ext Time (p_c), s				12.5		1.0	0.0	10.2

Intersection Summary	
HCM 2010 Ctrl Delay	27.8
HCM 2010 LOS	C

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	120	1030	350	10	70	380	120	70	200	60	40	300	170
Future Volume (veh/h)	20	120	1030	350	10	70	380	120	70	200	60	40	300	170
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.92		1.00		0.89	1.00		0.98	1.00		0.85
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1845	1863	1900		1827	1783	1900	1900	1841	1900	1900	1863	1900
Adj Flow Rate, veh/h		133	1144	302		78	422	57	78	222	59	44	333	167
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.90	0.90	0.90		0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %		3	2	2		4	8	8	4	4	4	2	2	2
Cap, veh/h		209	2156	569		112	2118	276	67	158	39	53	299	145
Arrive On Green		0.24	1.00	1.00		0.06	0.49	0.48	0.31	0.31	0.30	0.31	0.31	0.30
Sat Flow, veh/h		1757	3932	1038		1740	4290	560	127	507	125	93	958	465
Grp Volume(v), veh/h		133	986	460		78	316	163	359	0	0	544	0	0
Grp Sat Flow(s),veh/h/ln		1757	1695	1580		1740	1623	1605	759	0	0	1516	0	0
Q Serve(g_s), s		10.9	0.0	0.0		7.0	8.7	9.2	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s		10.9	0.0	0.0		7.0	8.7	9.2	50.0	0.0	0.0	50.0	0.0	0.0
Prop In Lane		1.00		0.66		1.00		0.35	0.22		0.16	0.08		0.31
Lane Grp Cap(c), veh/h		209	1859	866		112	1602	792	265	0	0	498	0	0
V/C Ratio(X)		0.64	0.53	0.53		0.70	0.20	0.21	1.36	0.00	0.00	1.09	0.00	0.00
Avail Cap(c_a), veh/h		209	1859	866		152	1602	792	265	0	0	498	0	0
HCM Platoon Ratio		2.00	2.00	2.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.37	0.37	0.37		1.00	1.00	1.00	0.09	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		57.9	0.0	0.0		73.3	22.7	23.0	55.0	0.0	0.0	55.9	0.0	0.0
Incr Delay (d2), s/veh		2.4	0.4	0.9		8.2	0.3	0.6	163.0	0.0	0.0	67.8	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		5.4	0.1	0.2		3.6	4.0	4.2	23.7	0.0	0.0	31.4	0.0	0.0
LnGrp Delay(d),s/veh		60.3	0.4	0.9		81.6	23.0	23.6	218.0	0.0	0.0	123.7	0.0	0.0
LnGrp LOS		E	A	A		F	C	C	F			F		
Approach Vol, veh/h			1579				557			359			544	
Approach Delay, s/veh			5.6				31.4			218.0			123.7	
Approach LOS			A				C			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		54.0	14.3	91.7		54.0	23.0	83.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		48.5	12.5	82.5		48.5	17.5	77.5
Max Q Clear Time (g_c+I1), s		52.0	9.0	2.0		52.0	12.9	11.2
Green Ext Time (p_c), s		0.0	0.0	17.6		0.0	1.2	3.6

Intersection Summary	
HCM 2010 Ctrl Delay	56.6
HCM 2010 LOS	E

Notes

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1060	110	110	790	20	30
Future Volume (veh/h)	1060	110	110	790	20	30
Number	4	14	3	8	5	12
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	980	1000	1000	980	1863	1863
Adj Flow Rate, veh/h	1152	120	120	859	22	33
Adj No. of Lanes	3	0	0	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	1505	157	143	966	84	75
Arrive On Green	0.86	0.86	0.86	0.86	0.05	0.05
Sat Flow, veh/h	2237	182	103	1166	1774	1583
Grp Volume(v), veh/h	646	626	374	605	22	33
Grp Sat Flow(s),veh/h/ln	490	948	377	848	1774	1583
Q Serve(g_s), s	23.6	23.8	51.4	30.4	1.1	1.8
Cycle Q Clear(g_c), s	23.6	23.8	76.0	30.4	1.1	1.8
Prop In Lane		0.19	0.32		1.00	1.00
Lane Grp Cap(c), veh/h	845	817	379	730	84	75
V/C Ratio(X)	0.77	0.77	0.99	0.83	0.26	0.44
Avail Cap(c_a), veh/h	845	817	379	730	724	646
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	2.5	2.5	15.7	2.9	40.5	40.9
Incr Delay (d2), s/veh	6.5	6.8	43.5	10.4	1.6	4.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.8	7.5	13.6	8.8	0.6	0.9
LnGrp Delay(d),s/veh	9.0	9.3	59.2	13.4	42.1	44.8
LnGrp LOS	A	A	E	B	D	D
Approach Vol, veh/h	1272			979	55	
Approach Delay, s/veh	9.1			30.9	43.7	
Approach LOS	A			C	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4				8
Phs Duration (G+Y+Rc), s		8.2		80.0				80.0
Change Period (Y+Rc), s		4.5		4.5				4.5
Max Green Setting (Gmax), s		35.5		75.5				75.5
Max Q Clear Time (g_c+I1), s		3.8		26.6				78.0
Green Ext Time (p_c), s		0.1		29.1				0.0

Intersection Summary	
HCM 2010 Ctrl Delay	19.2
HCM 2010 LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	730	470	310	860	20	660	0	430	0	0	10
Future Volume (veh/h)	20	730	470	310	860	20	660	0	430	0	0	10
Number	7	4	14	3	8	18	5	2	12			
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		0.95	1.00		0.89	1.00		0.85			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	1863	1845	1863	1863	1863	1900	1863	1863	1863			
Adj Flow Rate, veh/h	21	753	214	320	887	19	680	0	72			
Adj No. of Lanes	1	2	1	1	2	0	2	0	1			
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97			
Percent Heavy Veh, %	2	3	2	2	2	2	2	2	2			
Cap, veh/h	75	1624	696	351	2188	47	842	0	321			
Arrive On Green	0.04	0.46	0.46	0.20	0.62	0.61	0.24	0.00	0.24			
Sat Flow, veh/h	1774	3505	1502	1774	3532	76	3548	0	1353			
Grp Volume(v), veh/h	21	753	214	320	444	462	680	0	72			
Grp Sat Flow(s),veh/h/ln	1774	1752	1502	1774	1770	1838	1774	0	1353			
Q Serve(g_s), s	1.4	17.4	10.6	20.9	15.1	15.2	21.5	0.0	5.1			
Cycle Q Clear(g_c), s	1.4	17.4	10.6	20.9	15.1	15.2	21.5	0.0	5.1			
Prop In Lane	1.00		1.00	1.00		0.04	1.00		1.00			
Lane Grp Cap(c), veh/h	75	1624	696	351	1096	1139	842	0	321			
V/C Ratio(X)	0.28	0.46	0.31	0.91	0.41	0.41	0.81	0.00	0.22			
Avail Cap(c_a), veh/h	209	1624	696	359	1096	1139	867	0	331			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	55.1	21.8	19.9	46.6	11.5	11.5	42.7	0.0	36.5			
Incr Delay (d2), s/veh	2.0	1.0	1.1	26.2	1.1	1.1	5.6	0.0	0.3			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.7	8.6	4.6	12.8	7.7	8.0	11.1	0.0	1.9			
LnGrp Delay(d),s/veh	57.1	22.7	21.1	72.8	12.6	12.6	48.3	0.0	36.8			
LnGrp LOS	E	C	C	E	B	B	D		D			
Approach Vol, veh/h		988			1226			752				
Approach Delay, s/veh		23.1			28.3			47.2				
Approach LOS		C			C			D				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4			7	8
Phs Duration (G+Y+Rc), s		32.2	27.5	59.0			9.0	77.5
Change Period (Y+Rc), s		5.5	4.5	5.5			5.5	5.5
Max Green Setting (Gmax), s		27.5	23.5	53.5			12.5	63.5
Max Q Clear Time (g_c+I1), s		23.5	22.9	19.4			3.4	17.2
Green Ext Time (p_c), s		1.2	0.1	15.7			0.0	17.6

Intersection Summary	
HCM 2010 Ctrl Delay	31.3
HCM 2010 LOS	C

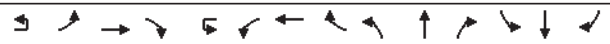
Notes

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	120	800	810	300	140	150
Future Volume (veh/h)	120	800	810	300	140	150
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.99			0.94	1.00	0.78
Parking Bus, Adj	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1863	1863	1854	1900
Adj Flow Rate, veh/h	124	825	835	95	144	109
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	0	0
Cap, veh/h	284	1808	2625	998	162	123
Arrive On Green	0.74	0.74	1.00	1.00	0.19	0.18
Sat Flow, veh/h	330	2523	3632	1346	845	639
Grp Volume(v), veh/h	400	549	835	95	254	0
Grp Sat Flow(s),veh/h/ln	1157	1610	1770	1346	1490	0
Q Serve(g_s), s	8.2	16.0	0.0	0.0	20.0	0.0
Cycle Q Clear(g_c), s	12.6	16.0	0.0	0.0	20.0	0.0
Prop In Lane	0.31			1.00	0.57	0.43
Lane Grp Cap(c), veh/h	898	1194	2625	998	286	0
V/C Ratio(X)	0.45	0.46	0.32	0.10	0.89	0.00
Avail Cap(c_a), veh/h	898	1194	2625	998	286	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.93	0.93	0.69	0.00
Uniform Delay (d), s/veh	5.4	6.1	0.0	0.0	47.6	0.0
Incr Delay (d2), s/veh	1.6	1.3	0.3	0.2	20.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.2	7.4	0.1	0.0	9.8	0.0
LnGrp Delay(d),s/veh	7.0	7.3	0.3	0.2	68.1	0.0
LnGrp LOS	A	A	A	A	E	
Approach Vol, veh/h		949	930		254	
Approach Delay, s/veh		7.2	0.3		68.1	
Approach LOS		A	A		E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				93.0		27.0		93.0
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				87.5		21.5		87.5
Max Q Clear Time (g_c+I1), s				18.0		22.0		2.0
Green Ext Time (p_c), s				26.4		0.0		27.8

Intersection Summary	
HCM 2010 Ctrl Delay	11.4
HCM 2010 LOS	B

Notes

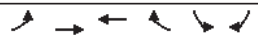


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	150	240	1450	140	30	40	880	100	320	130	50	70	200	480
Future Volume (veh/h)	150	240	1450	140	30	40	880	100	320	130	50	70	200	480
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.99		1.00		0.82	0.97		0.89	0.94		0.92
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1769	1900	1863	1863	1900	1900	1840	1863
Adj Flow Rate, veh/h		247	1495	131		41	907	92	330	134	41	72	206	279
Adj No. of Lanes		1	3	0		1	3	0	1	1	0	0	1	1
Peak Hour Factor		0.97	0.97	0.97		0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %		2	2	2		2	8	8	2	2	2	3	3	2
Cap, veh/h		286	2877	252		69	2103	212	223	373	114	110	276	412
Arrive On Green		0.16	0.60	0.60		0.08	0.96	0.95	0.28	0.28	0.27	0.28	0.28	0.28
Sat Flow, veh/h		1774	4757	417		1774	4360	439	1131	1328	406	291	983	1463
Grp Volume(v), veh/h		247	1065	561		41	668	331	330	0	175	278	0	279
Grp Sat Flow(s),veh/h/ln		1774	1695	1783		1774	1610	1578	1131	0	1734	1273	0	1463
Q Serve(g_s), s		21.7	29.0	29.1		3.6	2.0	2.3	9.9	0.0	12.9	22.2	0.0	27.1
Cycle Q Clear(g_c), s		21.7	29.0	29.1		3.6	2.0	2.3	45.0	0.0	12.9	35.1	0.0	27.1
Prop In Lane		1.00		0.23		1.00		0.28	1.00		0.23	0.26		1.00
Lane Grp Cap(c), veh/h		286	2051	1079		69	1553	761	223	0	488	386	0	412
V/C Ratio(X)		0.86	0.52	0.52		0.59	0.43	0.43	1.48	0.00	0.36	0.72	0.00	0.68
Avail Cap(c_a), veh/h		455	2051	1079		244	1553	761	223	0	488	386	0	412
HCM Platoon Ratio		1.00	1.00	1.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.97	0.97	0.97	0.95	0.00	0.95	1.00	0.00	1.00
Uniform Delay (d), s/veh		65.4	18.2	18.3		72.6	1.5	1.7	65.2	0.0	46.1	56.6	0.0	51.1
Incr Delay (d2), s/veh		9.7	0.9	1.8		7.7	0.8	1.8	237.8	0.0	2.0	11.0	0.0	8.7
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		11.4	13.7	14.7		1.9	0.9	1.2	24.6	0.0	6.5	12.7	0.0	11.9
LnGrp Delay(d),s/veh		75.0	19.2	20.1		80.3	2.3	3.5	302.9	0.0	48.1	67.6	0.0	59.7
LnGrp LOS		E	B	C		F	A	A	F		D	E		E
Approach Vol, veh/h			1873				1040			505			557	
Approach Delay, s/veh			26.8				5.8			214.6			63.7	
Approach LOS			C				A			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		49.0	10.2	100.8		49.0	29.8	81.2
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		43.5	20.5	79.5		43.5	39.5	60.5
Max Q Clear Time (g_c+I1), s		47.0	5.6	31.1		37.1	23.7	4.3
Green Ext Time (p_c), s		0.0	0.1	33.1		3.0	0.6	36.4

Intersection Summary	
HCM 2010 Ctrl Delay	50.3
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	90	870	1050	190	80	50
Future Volume (veh/h)	90	870	1050	190	80	50
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.99			0.94	1.00	0.89
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1863	1863	1842	1900
Adj Flow Rate, veh/h	95	916	1105	34	84	31
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	0	0
Cap, veh/h	212	1962	2683	1128	208	77
Arrive On Green	0.76	0.76	1.00	1.00	0.18	0.16
Sat Flow, veh/h	232	2674	3632	1489	1187	438
Grp Volume(v), veh/h	436	575	1105	34	116	0
Grp Sat Flow(s),veh/h/ln	1210	1610	1770	1489	1640	0
Q Serve(g_s), s	3.4	16.1	0.0	0.0	7.6	0.0
Cycle Q Clear(g_c), s	10.6	16.1	0.0	0.0	7.6	0.0
Prop In Lane	0.22			1.00	0.72	0.27
Lane Grp Cap(c), veh/h	954	1221	2683	1128	288	0
V/C Ratio(X)	0.46	0.47	0.41	0.03	0.40	0.00
Avail Cap(c_a), veh/h	954	1221	2683	1128	369	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	0.72	0.72	0.09	0.09	1.00	0.00
Uniform Delay (d), s/veh	4.6	5.5	0.0	0.0	44.1	0.0
Incr Delay (d2), s/veh	1.1	0.9	0.0	0.0	0.9	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.0	7.3	0.0	0.0	3.5	0.0
LnGrp Delay(d),s/veh	5.8	6.4	0.0	0.0	45.0	0.0
LnGrp LOS	A	A	A	A	D	
Approach Vol, veh/h		1011	1139		116	
Approach Delay, s/veh		6.1	0.0		45.0	
Approach LOS		A	A		D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				95.0		25.0		95.0
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				83.5		25.5		83.5
Max Q Clear Time (g_c+I1), s				18.1		9.6		2.0
Green Ext Time (p_c), s				33.6		0.3		36.9

Intersection Summary	
HCM 2010 Ctrl Delay	5.1
HCM 2010 LOS	A

Notes

Intersection	
Int Delay, s/veh	1.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	30	20	280	40	20	100
Future Vol, veh/h	30	20	280	40	20	100
Conflicting Peds, #/hr	0	21	0	27	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	34	23	318	45	23	114

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	527	389	0	0	391	0
Stage 1	368	-	-	-	-	-
Stage 2	159	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	512	659	-	-	1168	-
Stage 1	700	-	-	-	-	-
Stage 2	870	-	-	-	-	-
Platoon blocked, %				-	-	
Mov Cap-1 Maneuver	488	629	-	-	1145	-
Mov Cap-2 Maneuver	488	-	-	-	-	-
Stage 1	682	-	-	-	-	-
Stage 2	852	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	12.5	0	1.4
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	536	1145	-
HCM Lane V/C Ratio	-	-	0.106	0.02	-
HCM Control Delay (s)	-	-	12.5	8.2	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.4	0.1	-

Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (veh/h)	0	1500	100	20	40	860	10	170	10	130	10	10
Future Volume (veh/h)	0	1500	100	20	40	860	10	170	10	130	10	10
Number	7	4	14		3	8	18	5	2	12	1	6
Initial Q (Qb), veh	0	0	0		0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.92		1.00		0.95	0.92		0.94	0.99	
Parking Bus, Adj	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1863	1900		1863	1760	1900	1900	1863	1900	1900	1863
Adj Flow Rate, veh/h	0	1562	95		42	896	9	177	10	111	10	10
Adj No. of Lanes	0	3	0		1	3	0	0	1	0	0	1
Peak Hour Factor	0.96	0.96	0.96		0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	2	2		2	8	8	2	2	2	2	2
Cap, veh/h	0	2946	179		70	3279	33	243	12	130	179	175
Arrive On Green	0.00	1.00	1.00		0.08	1.00	1.00	0.28	0.28	0.27	0.28	0.28
Sat Flow, veh/h	0	5043	296		1774	4903	49	737	42	462	526	621
Grp Volume(v), veh/h	0	1086	571		42	585	320	298	0	0	26	0
Grp Sat Flow(s),veh/h/ln	0	1695	1782		1774	1602	1749	1241	0	0	1491	0
Q Serve(g_s), s	0.0	0.0	0.0		3.7	0.0	0.0	34.5	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	0.0		3.7	0.0	0.0	36.3	0.0	0.0	1.7	0.0
Prop In Lane	0.00		0.17		1.00		0.03	0.59		0.37	0.38	
Lane Grp Cap(c), veh/h	0	2048	1077		70	2143	1169	385	0	0	451	0
V/C Ratio(X)	0.00	0.53	0.53		0.60	0.27	0.27	0.77	0.00	0.00	0.06	0.00
Avail Cap(c_a), veh/h	0	2048	1077		211	2143	1169	385	0	0	451	0
HCM Platoon Ratio	1.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.78	0.78		0.83	0.83	0.83	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	0.0		72.5	0.0	0.0	54.4	0.0	0.0	42.1	0.0
Incr Delay (d2), s/veh	0.0	0.8	1.5		6.6	0.3	0.5	14.1	0.0	0.0	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.2	0.4		1.9	0.1	0.2	13.9	0.0	0.0	0.9	0.0
LnGrp Delay(d),s/veh	0.0	0.8	1.5		79.1	0.3	0.5	68.5	0.0	0.0	42.3	0.0
LnGrp LOS		A	A		E	A	A	E			D	
Approach Vol, veh/h		1657				947			298			26
Approach Delay, s/veh		1.0				3.8			68.5			42.3
Approach LOS		A				A			E			D

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6		8
Phs Duration (G+Y+Rc), s		49.0	10.3	100.7		49.0		111.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s		43.5	17.5	82.5		43.5		105.5
Max Q Clear Time (g_c+I1), s		38.3	5.7	2.0		3.7		2.0
Green Ext Time (p_c), s		0.9	0.0	42.6		2.5		47.3

Intersection Summary	
HCM 2010 Ctrl Delay	9.2
HCM 2010 LOS	A

Notes

Movement	SBR
Lane Configurations	
Traffic Volume (veh/h)	10
Future Volume (veh/h)	10
Number	16
Initial Q (Qb), veh	0
Ped-Bike Adj(A_pbT)	0.91
Parking Bus, Adj	1.00
Adj Sat Flow, veh/h/ln	1900
Adj Flow Rate, veh/h	6
Adj No. of Lanes	0
Peak Hour Factor	0.96
Percent Heavy Veh, %	2
Cap, veh/h	97
Arrive On Green	0.27
Sat Flow, veh/h	344
Grp Volume(v), veh/h	0
Grp Sat Flow(s),veh/h/ln	0
Q Serve(g_s), s	0.0
Cycle Q Clear(g_c), s	0.0
Prop In Lane	0.23
Lane Grp Cap(c), veh/h	0
V/C Ratio(X)	0.00
Avail Cap(c_a), veh/h	0
HCM Platoon Ratio	1.00
Upstream Filter(I)	0.00
Uniform Delay (d), s/veh	0.0
Incr Delay (d2), s/veh	0.0
Initial Q Delay(d3),s/veh	0.0
%ile BackOfQ(50%),veh/ln	0.0
LnGrp Delay(d),s/veh	0.0
LnGrp LOS	
Approach Vol, veh/h	
Approach Delay, s/veh	
Approach LOS	
Timer	

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	630	730	210	340	40	700	1140	280	0	700	50
Future Volume (veh/h)	0	630	730	210	340	40	700	1140	280	0	700	50
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.87	1.00		1.00	1.00		0.71
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1851	1827	1681	1851	1900	1845	1781	1900	0	1863	1900
Adj Flow Rate, veh/h	0	622	795	207	378	42	484	1554	0	0	737	53
Adj No. of Lanes	0	1	2	1	2	0	1	3	0	0	3	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	2	4	13	2	2	3	2	2	0	2	2
Cap, veh/h	0	606	1427	250	1664	183	234	2226	0	0	1175	83
Arrive On Green	0.00	0.33	0.33	0.16	0.52	0.50	0.13	0.42	0.00	0.00	0.25	0.24
Sat Flow, veh/h	0	1851	3094	1601	3221	353	1757	5343	0	0	4869	332
Grp Volume(v), veh/h	0	622	795	207	215	205	484	1554	0	0	528	262
Grp Sat Flow(s),veh/h/ln	0	1851	1547	1601	1851	1724	1757	1781	0	0	1695	1643
Q Serve(g_s), s	0.0	39.3	22.4	15.0	7.6	7.9	16.0	28.7	0.0	0.0	16.6	17.1
Cycle Q Clear(g_c), s	0.0	39.3	22.4	15.0	7.6	7.9	16.0	28.7	0.0	0.0	16.6	17.1
Prop In Lane	0.00		1.00	1.00		0.20	1.00		0.00	0.00		0.20
Lane Grp Cap(c), veh/h	0	606	1427	250	956	891	234	2226	0	0	848	411
V/C Ratio(X)	0.00	1.03	0.56	0.83	0.22	0.23	2.07	0.70	0.00	0.00	0.62	0.64
Avail Cap(c_a), veh/h	0	606	1427	294	956	891	234	2226	0	0	848	411
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.09	0.09	0.98	0.98	0.98	0.72	0.72	0.00	0.00	0.83	0.83
Uniform Delay (d), s/veh	0.0	40.4	23.5	49.1	15.9	16.0	52.0	28.8	0.0	0.0	40.0	40.3
Incr Delay (d2), s/veh	0.0	18.6	0.1	15.4	0.5	0.6	490.3	1.3	0.0	0.0	2.8	6.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	23.2	9.6	7.7	4.0	3.9	39.6	14.4	0.0	0.0	8.1	8.4
LnGrp Delay(d),s/veh	0.0	58.9	23.6	64.5	16.4	16.6	542.3	30.1	0.0	0.0	42.8	46.5
LnGrp LOS		F	C	E	B	B	F	C			D	D
Approach Vol, veh/h		1417			627			2038			790	
Approach Delay, s/veh		39.1			32.3			151.8			44.0	
Approach LOS		D			C			F			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4		6		8
Phs Duration (G+Y+Rc), s	12.7	43.3	20.0	34.0		66.0		54.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s	20.5	34.5	14.5	28.5		60.5		48.5
Max Q Clear Time (g_c+I1), s	17.6	41.3	18.0	19.1		9.9		30.7
Green Ext Time (p_c), s	0.2	0.0	0.0	8.3		16.0		14.6

Intersection Summary	
HCM 2010 Ctrl Delay	86.2
HCM 2010 LOS	F

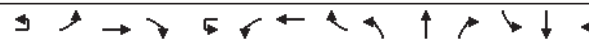
Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	10	0	20	30	0	40	10	880	20	20	540	20
Future Volume (veh/h)	10	0	20	30	0	40	10	880	20	20	540	20
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.91		0.82	0.84		0.90	1.00		0.88	1.00		0.92
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1782	1900	1900	1863	1900	1863	1761	1900	1863	1779	1900
Adj Flow Rate, veh/h	11	0	12	32	0	11	11	926	18	21	568	18
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	8	8	2	7	7
Cap, veh/h	174	15	149	264	9	73	49	2075	40	65	2095	66
Arrive On Green	0.23	0.00	0.21	0.23	0.00	0.21	0.03	0.62	0.61	0.04	0.63	0.61
Sat Flow, veh/h	536	64	655	893	38	320	1774	3347	65	1774	3333	105
Grp Volume(v), veh/h	23	0	0	43	0	0	11	463	481	21	288	298
Grp Sat Flow(s),veh/h/ln	1256	0	0	1250	0	0	1774	1673	1739	1774	1690	1749
Q Serve(g_s), s	0.0	0.0	0.0	1.1	0.0	0.0	0.6	15.0	15.0	1.2	7.9	7.9
Cycle Q Clear(g_c), s	1.3	0.0	0.0	2.4	0.0	0.0	0.6	15.0	15.0	1.2	7.9	7.9
Prop In Lane	0.48		0.52	0.74		0.26	1.00		0.04	1.00		0.06
Lane Grp Cap(c), veh/h	337	0	0	345	0	0	49	1037	1078	65	1062	1099
V/C Ratio(X)	0.07	0.00	0.00	0.12	0.00	0.00	0.22	0.45	0.45	0.32	0.27	0.27
Avail Cap(c_a), veh/h	355	0	0	363	0	0	155	1037	1078	155	1062	1099
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.6	0.0	0.0	31.8	0.0	0.0	49.1	10.3	10.3	48.5	8.6	8.6
Incr Delay (d2), s/veh	0.1	0.0	0.0	0.2	0.0	0.0	2.3	1.4	1.3	2.9	0.6	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	0.0	0.0	1.0	0.0	0.0	0.3	7.2	7.5	0.6	3.9	4.0
LnGrp Delay(d),s/veh	31.7	0.0	0.0	32.0	0.0	0.0	51.4	11.7	11.7	51.4	9.2	9.2
LnGrp LOS	C			C			D	B	B	D	A	A
Approach Vol, veh/h		23			43			955			607	
Approach Delay, s/veh		31.7			32.0			12.2			10.7	
Approach LOS		C			C			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	7.8	68.0		27.5	6.9	68.9		27.5
Change Period (Y+Rc), s	5.5	5.5		5.5	5.5	5.5		5.5
Max Green Setting (Gmax), s	7.5	62.5		23.5	7.5	62.5		23.5
Max Q Clear Time (g_c+I1), s	3.2	17.0		3.3	2.6	9.9		4.4
Green Ext Time (p_c), s	0.0	14.6		0.3	0.0	15.1		0.3

Intersection Summary	
HCM 2010 Ctrl Delay	12.4
HCM 2010 LOS	B

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	30	360	1080	120	30	140	590	110	170	640	110	150	320	140
Future Volume (veh/h)	30	360	1080	120	30	140	590	110	170	640	110	150	320	140
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.99		1.00		0.87	1.00		0.95	1.00		0.84
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	0.90
Adj Sat Flow, veh/h/ln		1863	1848	1900		1863	1863	1900	1397	1832	1900	1863	1813	1900
Adj Flow Rate, veh/h		379	1137	110		147	621	73	179	674	91	158	337	133
Adj No. of Lanes		1	3	0		1	3	0	1	2	0	1	2	0
Peak Hour Factor		0.95	0.95	0.95		0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %		2	2	2		2	2	2	36	4	4	2	6	6
Cap, veh/h		255	1811	175		177	1508	173	204	956	129	177	568	215
Arrive On Green		0.10	0.26	0.25		0.10	0.34	0.33	0.15	0.31	0.30	0.10	0.26	0.25
Sat Flow, veh/h		1774	4675	452		1774	4386	504	1331	3060	413	1774	2195	829
Grp Volume(v), veh/h		379	818	429		147	477	217	179	383	382	158	261	209
Grp Sat Flow(s),veh/h/ln		1774	1682	1763		1774	1695	1500	1331	1740	1732	1774	1723	1302
Q Serve(g_s), s		23.0	34.4	34.5		13.0	17.2	17.8	21.1	31.0	31.2	14.1	21.2	22.7
Cycle Q Clear(g_c), s		23.0	34.4	34.5		13.0	17.2	17.8	21.1	31.0	31.2	14.1	21.2	22.7
Prop In Lane		1.00		0.26		1.00		0.34	1.00		0.24	1.00		0.64
Lane Grp Cap(c), veh/h		255	1304	683		177	1165	516	204	544	541	177	446	337
V/C Ratio(X)		1.49	0.63	0.63		0.83	0.41	0.42	0.88	0.70	0.71	0.89	0.59	0.62
Avail Cap(c_a), veh/h		255	1304	683		177	1165	516	208	544	541	177	446	337
HCM Platoon Ratio		0.67	0.67	0.67		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.79	0.79	0.79		0.93	0.93	0.93	0.94	0.94	0.94	0.98	0.98	0.98
Uniform Delay (d), s/veh		72.3	49.0	49.2		70.7	40.1	40.5	66.2	48.5	48.7	71.1	51.8	52.8
Incr Delay (d2), s/veh		234.7	1.8	3.5		25.3	1.0	2.4	29.8	7.0	7.1	37.9	5.4	8.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		27.9	16.4	17.5		7.6	8.2	7.7	9.4	16.0	15.9	8.8	10.8	9.0
LnGrp Delay(d),s/veh		307.0	50.8	52.6		95.9	41.1	42.9	96.1	55.5	55.8	109.0	57.2	60.9
LnGrp LOS		F	D	D		F	D	D	F	E	E	F	E	E
Approach Vol, veh/h			1626				841			944			628	
Approach Delay, s/veh			111.0				51.1			63.3			71.5	
Approach LOS			F				D			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.0	54.0	20.0	66.0	28.6	45.4	27.0	59.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Max Green Setting (Gmax), s	14.5	48.5	14.5	60.5	23.5	39.5	21.5	53.5
Max Q Clear Time (g_c+I1), s	16.1	33.2	15.0	36.5	23.1	24.7	25.0	19.8
Green Ext Time (p_c), s	0.0	7.4	0.0	15.0	0.0	7.2	0.0	18.3

Intersection Summary	
HCM 2010 Ctrl Delay	81.2
HCM 2010 LOS	F

Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	70	430	170	0	0	0	0	580	570	170	440	0
Future Volume (veh/h)	70	430	170	0	0	0	0	580	570	170	440	0
Number	7	4	14				5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98				1.00		0.94	0.99		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1827				0	1827	1863	1863	1863	0
Adj Flow Rate, veh/h	75	462	70				0	624	347	183	473	0
Adj No. of Lanes	0	1	1				0	2	1	1	2	0
Peak Hour Factor	0.93	0.93	0.93				0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	4	2	4				0	4	2	2	2	0
Cap, veh/h	89	551	524				0	1680	717	405	2096	0
Arrive On Green	0.35	0.35	0.35				0.00	0.48	0.48	0.08	0.59	0.00
Sat Flow, veh/h	258	1591	1515				0	3563	1482	1774	3632	0
Grp Volume(v), veh/h	537	0	70				0	624	347	183	473	0
Grp Sat Flow(s),veh/h/ln	1850	0	1515				0	1736	1482	1774	1770	0
Q Serve(g_s), s	34.8	0.0	4.1				0.0	14.7	20.5	6.3	8.2	0.0
Cycle Q Clear(g_c), s	34.8	0.0	4.1				0.0	14.7	20.5	6.3	8.2	0.0
Prop In Lane	0.14		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	640	0	524				0	1680	717	405	2096	0
V/C Ratio(X)	0.84	0.00	0.13				0.00	0.37	0.48	0.45	0.23	0.00
Avail Cap(c_a), veh/h	640	0	524				0	1680	717	486	2096	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	39.2	0.0	29.1				0.0	21.1	22.6	14.5	12.5	0.0
Incr Delay (d2), s/veh	12.5	0.0	0.5				0.0	0.6	2.3	0.8	0.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	0.0	1.8				0.0	7.2	8.8	3.1	4.1	0.0
LnGrp Delay(d),s/veh	51.6	0.0	29.7				0.0	21.7	24.9	15.3	12.7	0.0
LnGrp LOS	D		C					C	C	B	B	
Approach Vol, veh/h		607						971			656	
Approach Delay, s/veh		49.1						22.9			13.4	
Approach LOS		D						C			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4		6		
Phs Duration (G+Y+Rc), s	14.1	66.9		49.0		81.0		
Change Period (Y+Rc), s	5.5	5.5		5.5		5.5		
Max Green Setting (Gmax), s	14.5	55.5		43.5		75.5		
Max Q Clear Time (g_c+I1), s	8.3	22.5		36.8		10.2		
Green Ext Time (p_c), s	0.3	11.8		2.2		13.5		

Intersection Summary	
HCM 2010 Ctrl Delay	27.2
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	200	260	250	80	570	0	0	410	80
Future Volume (veh/h)	0	0	0	200	260	250	80	570	0	0	410	80
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		0.97	1.00		1.00	1.00		0.99
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1863	1863	1624	1863	0	0	1848	1900
Adj Flow Rate, veh/h				208	271	43	83	594	0	0	427	52
Adj No. of Lanes				0	2	1	1	2	0	0	2	0
Peak Hour Factor				0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %				2	2	2	17	2	0	0	3	3
Cap, veh/h				774	772	673	394	1737	0	0	1246	151
Arrive On Green				0.44	0.44	0.44	0.06	0.49	0.00	0.00	0.40	0.38
Sat Flow, veh/h				1774	1770	1543	1547	3632	0	0	3240	381
Grp Volume(v), veh/h				208	271	43	83	594	0	0	237	242
Grp Sat Flow(s),veh/h/ln				1774	1770	1543	1547	1770	0	0	1755	1774
Q Serve(g_s), s				8.2	11.2	1.8	3.3	11.3	0.0	0.0	10.4	10.5
Cycle Q Clear(g_c), s				8.2	11.2	1.8	3.3	11.3	0.0	0.0	10.4	10.5
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.21
Lane Grp Cap(c), veh/h				774	772	673	394	1737	0	0	695	702
V/C Ratio(X)				0.27	0.35	0.06	0.21	0.34	0.00	0.00	0.34	0.34
Avail Cap(c_a), veh/h				774	772	673	514	1737	0	0	695	702
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				19.8	20.6	18.0	17.0	17.1	0.0	0.0	23.2	23.4
Incr Delay (d2), s/veh				0.9	1.3	0.2	0.3	0.5	0.0	0.0	1.3	1.3
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				4.2	5.8	0.8	1.4	5.7	0.0	0.0	5.3	5.4
LnGrp Delay(d),s/veh				20.6	21.9	18.2	17.2	17.7	0.0	0.0	24.5	24.7
LnGrp LOS				C	C	B	B	B			C	C
Approach Vol, veh/h					522			677			479	
Approach Delay, s/veh					21.1			17.6			24.6	
Approach LOS					C			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		58.0			10.5	47.5		52.0
Change Period (Y+Rc), s		5.5			5.5	5.5		5.5
Max Green Setting (Gmax), s		52.5			13.5	33.5		46.5
Max Q Clear Time (g_c+I1), s		13.3			5.3	12.5		13.2
Green Ext Time (p_c), s		9.2			0.1	7.6		3.5

Intersection Summary	
HCM 2010 Ctrl Delay	20.7
HCM 2010 LOS	C

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1280	130	10	40	590	360
Future Volume (veh/h)	1280	130	10	40	590	360
Number	6	16	5	2	7	14
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		0.94	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1796	1900	1900	1064	1863	1863
Adj Flow Rate, veh/h	1362	92	11	43	628	383
Adj No. of Lanes	4	0	0	2	2	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	6	6	73	73	2	2
Cap, veh/h	4041	272	143	784	845	389
Arrive On Green	0.68	0.67	0.68	0.68	0.25	0.25
Sat Flow, veh/h	6178	399	141	1198	3442	1583
Grp Volume(v), veh/h	1064	390	26	28	628	383
Grp Sat Flow(s),veh/h/ln	1544	1693	370	920	1721	1583
Q Serve(g_s), s	10.4	10.6	0.6	1.1	18.5	26.5
Cycle Q Clear(g_c), s	10.4	10.6	11.1	1.1	18.5	26.5
Prop In Lane		0.24	0.43		1.00	1.00
Lane Grp Cap(c), veh/h	3159	1154	299	627	845	389
V/C Ratio(X)	0.34	0.34	0.09	0.04	0.74	0.99
Avail Cap(c_a), veh/h	3159	1154	299	627	845	389
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	7.2	7.3	6.0	5.7	38.3	41.3
Incr Delay (d2), s/veh	0.3	0.8	0.6	0.1	3.6	41.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	5.2	0.3	0.3	9.2	16.1
LnGrp Delay(d),s/veh	7.5	8.1	6.6	5.9	41.9	83.0
LnGrp LOS	A	A	A	A	D	F
Approach Vol, veh/h	1454			54	1011	
Approach Delay, s/veh	7.7			6.2	57.4	
Approach LOS	A			A	E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		
Phs Duration (G+Y+Rc), s		79.0		31.0		79.0		
Change Period (Y+Rc), s		5.5		5.5		5.5		
Max Green Setting (Gmax), s		73.5		25.5		73.5		
Max Q Clear Time (g_c+I1), s		13.1		28.5		12.6		
Green Ext Time (p_c), s		16.7		0.0		16.7		

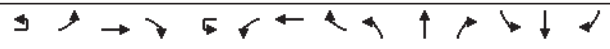
Intersection Summary	
HCM 2010 Ctrl Delay	27.6
HCM 2010 LOS	C

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	170	170	1440	370	130	130
Future Volume (veh/h)	170	170	1440	370	130	130
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			0.96	1.00	0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1803	1900	1863	1900
Adj Flow Rate, veh/h	173	173	1469	306	133	68
Adj No. of Lanes	1	1	4	0	0	0
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	6	6	0	0
Cap, veh/h	158	1035	2171	452	393	201
Arrive On Green	0.09	0.56	0.42	0.41	0.36	0.34
Sat Flow, veh/h	1774	1863	5393	1070	1105	565
Grp Volume(v), veh/h	173	173	1329	446	202	0
Grp Sat Flow(s),veh/h/ln	1774	1863	1550	1559	1679	0
Q Serve(g_s), s	8.0	4.1	20.8	21.0	8.0	0.0
Cycle Q Clear(g_c), s	8.0	4.1	20.8	21.0	8.0	0.0
Prop In Lane	1.00			0.69	0.66	0.34
Lane Grp Cap(c), veh/h	158	1035	1964	658	597	0
V/C Ratio(X)	1.10	0.17	0.68	0.68	0.34	0.00
Avail Cap(c_a), veh/h	158	1035	1964	658	597	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	41.0	9.8	21.0	21.5	21.4	0.0
Incr Delay (d2), s/veh	100.0	0.3	1.9	5.5	1.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.3	2.2	9.2	10.0	3.9	0.0
LnGrp Delay(d),s/veh	141.0	10.1	22.9	27.0	23.0	0.0
LnGrp LOS	F	B	C	C	C	
Approach Vol, veh/h		346	1775		202	
Approach Delay, s/veh		75.6	24.0		23.0	
Approach LOS		E	C		C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6	7	8
Phs Duration (G+Y+Rc), s				54.0		36.0	12.0	42.0
Change Period (Y+Rc), s				5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s				48.5		30.5	6.5	36.5
Max Q Clear Time (g_c+I1), s				6.1		10.0	10.0	23.0
Green Ext Time (p_c), s				22.9		0.6	0.0	10.4

Intersection Summary	
HCM 2010 Ctrl Delay	31.6
HCM 2010 LOS	C

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	50	90	1020	210	10	30	640	180	120	300	80	60	140	130
Future Volume (veh/h)	50	90	1020	210	10	30	640	180	120	300	80	60	140	130
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.89	1.00		0.93	1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1855	1900
Adj Flow Rate, veh/h		96	1085	179		32	681	127	128	319	79	64	149	115
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.94	0.94	0.94		0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	3	3	3
Cap, veh/h		211	2534	418		59	2088	381	103	201	49	88	193	137
Arrive On Green		0.24	1.00	1.00		0.03	0.49	0.48	0.31	0.31	0.30	0.31	0.31	0.30
Sat Flow, veh/h		1774	4374	721		1774	4229	772	239	644	156	196	616	439
Grp Volume(v), veh/h		96	841	423		32	543	265	526	0	0	328	0	0
Grp Sat Flow(s),veh/h/ln		1774	1695	1705		1774	1695	1610	1039	0	0	1251	0	0
Q Serve(g_s), s		7.4	0.0	0.0		2.8	15.4	16.1	11.8	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s		7.4	0.0	0.0		2.8	15.4	16.1	50.0	0.0	0.0	38.2	0.0	0.0
Prop In Lane		1.00		0.42		1.00		0.48	0.24		0.15	0.20		0.35
Lane Grp Cap(c), veh/h		211	1964	988		59	1674	795	353	0	0	418	0	0
V/C Ratio(X)		0.46	0.43	0.43		0.55	0.32	0.33	1.49	0.00	0.00	0.79	0.00	0.00
Avail Cap(c_a), veh/h		211	1964	988		155	1674	795	353	0	0	418	0	0
HCM Platoon Ratio		2.00	2.00	2.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.67	0.67	0.67		1.00	1.00	1.00	0.09	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		56.6	0.0	0.0		76.2	24.4	24.8	58.5	0.0	0.0	50.1	0.0	0.0
Incr Delay (d2), s/veh		1.0	0.5	0.9		7.7	0.5	1.1	222.5	0.0	0.0	13.8	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.7	0.1	0.3		1.5	7.4	7.4	37.4	0.0	0.0	15.0	0.0	0.0
LnGrp Delay(d),s/veh		57.6	0.5	0.9		83.8	24.9	25.9	281.1	0.0	0.0	63.9	0.0	0.0
LnGrp LOS		E	A	A		F	C	C	F			E		
Approach Vol, veh/h			1360				840			526			328	
Approach Delay, s/veh			4.6				27.5			281.1			63.9	
Approach LOS			A				C			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		54.0	9.3	96.7		54.0	23.0	83.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		48.5	12.5	82.5		48.5	17.5	77.5
Max Q Clear Time (g_c+I1), s		52.0	4.8	2.0		40.2	9.4	18.1
Green Ext Time (p_c), s		0.0	0.0	13.3		3.8	0.3	6.7

Intersection Summary	
HCM 2010 Ctrl Delay	64.9
HCM 2010 LOS	E

Notes

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1150	30	50	1030	140	170
Future Volume (veh/h)	1150	30	50	1030	140	170
Number	4	14	3	8	5	12
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	980	1000	1200	1176	1863	1863
Adj Flow Rate, veh/h	1250	33	54	1120	152	185
Adj No. of Lanes	3	0	0	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	1451	38	67	1253	268	239
Arrive On Green	0.76	0.76	0.76	0.76	0.15	0.15
Sat Flow, veh/h	2392	50	33	1696	1774	1583
Grp Volume(v), veh/h	644	639	572	602	152	185
Grp Sat Flow(s),veh/h/ln	490	972	658	1017	1774	1583
Q Serve(g_s), s	42.3	42.3	27.7	31.9	7.4	10.5
Cycle Q Clear(g_c), s	42.3	42.3	71.0	31.9	7.4	10.5
Prop In Lane		0.05	0.09		1.00	1.00
Lane Grp Cap(c), veh/h	748	741	544	776	268	239
V/C Ratio(X)	0.86	0.86	1.05	0.78	0.57	0.77
Avail Cap(c_a), veh/h	748	741	544	776	782	698
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	7.6	7.6	13.0	6.4	36.7	38.0
Incr Delay (d2), s/veh	12.5	12.6	52.7	7.5	1.9	5.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.8	13.6	15.7	10.3	3.8	4.9
LnGrp Delay(d),s/veh	20.1	20.2	65.7	13.9	38.6	43.3
LnGrp LOS	C	C	F	B	D	D
Approach Vol, veh/h	1283			1174	337	
Approach Delay, s/veh	20.1			39.1	41.2	
Approach LOS	C			D	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4				8
Phs Duration (G+Y+Rc), s		18.0		75.0				75.0
Change Period (Y+Rc), s		4.5		4.5				4.5
Max Green Setting (Gmax), s		40.5		70.5				70.5
Max Q Clear Time (g_c+I1), s		12.5		45.3				73.0
Green Ext Time (p_c), s		1.1		19.3				0.0

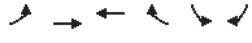
Intersection Summary	
HCM 2010 Ctrl Delay	30.7
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	40	920	520	319	518	20	240	10	212	0	0	0
Future Volume (veh/h)	40	920	520	319	518	20	240	10	212	0	0	0
Number	7	4	14	3	8	18	5	2	12			
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.89	1.00		0.87			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	1863	1810	1810	1863	1828	1900	1727	1740	1810			
Adj Flow Rate, veh/h	43	979	302	339	551	16	263	0	116			
Adj No. of Lanes	1	2	1	1	2	0	2	0	1			
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94			
Percent Heavy Veh, %	2	5	5	2	4	4	10	0	5			
Cap, veh/h	103	1627	709	366	2134	62	714	0	291			
Arrive On Green	0.06	0.47	0.47	0.21	0.62	0.61	0.22	0.00	0.22			
Sat Flow, veh/h	1774	3438	1499	1774	3434	100	3290	0	1340			
Grp Volume(v), veh/h	43	979	302	339	278	289	263	0	116			
Grp Sat Flow(s),veh/h/ln	1774	1719	1499	1774	1737	1797	1645	0	1340			
Q Serve(g_s), s	2.7	24.4	15.4	21.8	8.4	8.4	7.9	0.0	8.6			
Cycle Q Clear(g_c), s	2.7	24.4	15.4	21.8	8.4	8.4	7.9	0.0	8.6			
Prop In Lane	1.00		1.00	1.00		0.06	1.00		1.00			
Lane Grp Cap(c), veh/h	103	1627	709	366	1080	1117	714	0	291			
V/C Ratio(X)	0.42	0.60	0.43	0.93	0.26	0.26	0.37	0.00	0.40			
Avail Cap(c_a), veh/h	214	1627	709	366	1080	1117	821	0	334			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	52.8	22.5	20.2	45.2	9.9	9.9	38.7	0.0	39.0			
Incr Delay (d2), s/veh	2.7	1.7	1.9	28.9	0.6	0.6	0.3	0.0	0.9			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.4	11.9	6.7	13.6	4.2	4.4	3.6	0.0	3.3			
LnGrp Delay(d),s/veh	55.5	24.2	22.1	74.2	10.5	10.5	39.0	0.0	39.9			
LnGrp LOS	E	C	C	E	B	B	D		D			
Approach Vol, veh/h		1324			906			379				
Approach Delay, s/veh		24.7			34.3			39.3				
Approach LOS		C			C			D				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4			7	8
Phs Duration (G+Y+Rc), s		29.2	28.0	59.0			10.8	76.2
Change Period (Y+Rc), s		5.5	4.5	5.5			5.5	5.5
Max Green Setting (Gmax), s		27.5	23.5	53.5			12.5	63.5
Max Q Clear Time (g_c+I1), s		10.6	23.8	26.4			4.7	10.4
Green Ext Time (p_c), s		1.2	0.0	13.8			0.0	17.7

Intersection Summary	
HCM 2010 Ctrl Delay	30.2
HCM 2010 LOS	C

Notes

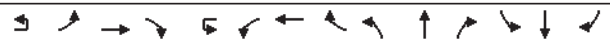


Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	90	1040	482	120	280	120
Future Volume (veh/h)	90	1040	482	120	280	120
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.97			0.94	1.00	0.70
Parking Bus, Adj	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1790	1827	1810	1845	1900
Adj Flow Rate, veh/h	94	1083	502	26	292	125
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	6	6	4	5	0	0
Cap, veh/h	189	2079	2517	943	217	93
Arrive On Green	0.73	0.73	1.00	1.00	0.21	0.20
Sat Flow, veh/h	213	2949	3563	1301	1040	445
Grp Volume(v), veh/h	589	588	502	26	418	0
Grp Sat Flow(s),veh/h/ln	1534	1547	1736	1301	1489	0
Q Serve(g_s), s	8.7	20.2	0.0	0.0	25.0	0.0
Cycle Q Clear(g_c), s	18.3	20.2	0.0	0.0	25.0	0.0
Prop In Lane	0.16			1.00	0.70	0.30
Lane Grp Cap(c), veh/h	1147	1122	2517	943	310	0
V/C Ratio(X)	0.51	0.52	0.20	0.03	1.35	0.00
Avail Cap(c_a), veh/h	1147	1122	2517	943	310	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.98	0.98	0.15	0.00
Uniform Delay (d), s/veh	6.9	7.3	0.0	0.0	47.7	0.0
Incr Delay (d2), s/veh	1.6	1.8	0.2	0.1	159.6	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.7	9.0	0.1	0.0	24.0	0.0
LnGrp Delay(d),s/veh	8.5	9.1	0.2	0.1	207.3	0.0
LnGrp LOS	A	A	A	A	F	
Approach Vol, veh/h		1177	528		418	
Approach Delay, s/veh		8.8	0.2		207.3	
Approach LOS		A	A		F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				91.0		29.0		91.0
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				85.5		23.5		85.5
Max Q Clear Time (g_c+I1), s				22.2		27.0		2.0
Green Ext Time (p_c), s				21.4		0.0		22.5

Intersection Summary	
HCM 2010 Ctrl Delay	45.7
HCM 2010 LOS	D

Notes

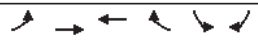


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	70	190	1650	250	10	60	600	114	140	120	60	120	220	560
Future Volume (veh/h)	70	190	1650	250	10	60	600	114	140	120	60	120	220	560
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.75	0.95		0.77	0.87		0.85
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1827	1827	1900		1827	1748	1900	1863	1827	1900	1900	1863	1827
Adj Flow Rate, veh/h		200	1737	243		63	632	105	147	126	49	126	232	267
Adj No. of Lanes		1	3	0		1	3	0	1	1	0	0	1	1
Peak Hour Factor		0.95	0.95	0.95		0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %		4	4	4		4	10	10	2	3	3	2	2	4
Cap, veh/h		239	2600	361		96	1999	319	221	322	125	129	183	372
Arrive On Green		0.14	0.59	0.58		0.04	0.34	0.33	0.28	0.28	0.27	0.28	0.28	0.28
Sat Flow, veh/h		1740	4417	614		1740	3947	630	1086	1144	445	352	651	1321
Grp Volume(v), veh/h		200	1305	675		63	504	233	147	0	175	358	0	267
Grp Sat Flow(s),veh/h/ln		1740	1663	1706		1740	1590	1396	1086	0	1589	1003	0	1321
Q Serve(g_s), s		17.9	42.5	43.3		5.7	18.7	19.9	0.0	0.0	14.3	30.7	0.0	29.1
Cycle Q Clear(g_c), s		17.9	42.5	43.3		5.7	18.7	19.9	35.3	0.0	14.3	45.0	0.0	29.1
Prop In Lane		1.00		0.36		1.00		0.45	1.00		0.28	0.35		1.00
Lane Grp Cap(c), veh/h		239	1957	1004		96	1611	707	221	0	447	313	0	372
V/C Ratio(X)		0.84	0.67	0.67		0.66	0.31	0.33	0.67	0.00	0.39	1.15	0.00	0.72
Avail Cap(c_a), veh/h		446	1957	1004		239	1611	707	221	0	447	313	0	372
HCM Platoon Ratio		1.00	1.00	1.00		0.67	0.67	0.67	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.99	0.99	0.99	0.99	0.00	0.99	1.00	0.00	1.00
Uniform Delay (d), s/veh		67.3	22.3	22.6		75.5	32.3	32.8	54.0	0.0	46.6	66.0	0.0	51.8
Incr Delay (d2), s/veh		7.6	1.8	3.6		7.3	0.5	1.2	14.6	0.0	2.5	96.3	0.0	11.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		9.1	19.9	21.3		2.9	8.4	7.9	7.0	0.0	6.6	22.2	0.0	11.8
LnGrp Delay(d),s/veh		74.9	24.1	26.2		82.8	32.8	34.0	68.7	0.0	49.2	162.3	0.0	63.1
LnGrp LOS		E	C	C		F	C	C	E		D	F		E
Approach Vol, veh/h			2180				800			322			625	
Approach Delay, s/veh			29.4				37.1			58.1			119.9	
Approach LOS			C				D			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		49.0	12.8	98.2		49.0	25.9	85.1
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		43.5	20.5	79.5		43.5	39.5	60.5
Max Q Clear Time (g_c+I1), s		37.3	7.7	45.3		47.0	19.9	21.9
Green Ext Time (p_c), s		2.9	0.1	27.1		0.0	0.5	29.9

Intersection Summary	
HCM 2010 Ctrl Delay	47.7
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	90	1250	540	72	248	112
Future Volume (veh/h)	90	1250	540	72	248	112
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.96			0.89	1.00	0.82
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1805	1827	1863	1863	1900
Adj Flow Rate, veh/h	96	1330	574	34	264	101
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	5	5	4	2	0	0
Cap, veh/h	162	2077	2459	1001	261	100
Arrive On Green	0.71	0.71	1.00	1.00	0.22	0.21
Sat Flow, veh/h	181	3015	3563	1413	1160	444
Grp Volume(v), veh/h	724	702	574	34	366	0
Grp Sat Flow(s),veh/h/ln	1553	1560	1736	1413	1608	0
Q Serve(g_s), s	19.5	28.7	0.0	0.0	27.0	0.0
Cycle Q Clear(g_c), s	28.5	28.7	0.0	0.0	27.0	0.0
Prop In Lane	0.13			1.00	0.72	0.28
Lane Grp Cap(c), veh/h	1134	1105	2459	1001	362	0
V/C Ratio(X)	0.64	0.64	0.23	0.03	1.01	0.00
Avail Cap(c_a), veh/h	1134	1105	2459	1001	362	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	0.55	0.55	0.09	0.09	1.00	0.00
Uniform Delay (d), s/veh	9.0	9.3	0.0	0.0	46.7	0.0
Incr Delay (d2), s/veh	1.5	1.6	0.0	0.0	50.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.1	0.0
%ile BackOfQ(50%),veh/ln	12.9	12.6	0.0	0.0	17.0	0.0
LnGrp Delay(d),s/veh	10.5	10.8	0.0	0.0	97.0	0.0
LnGrp LOS	B	B	A	A	F	
Approach Vol, veh/h		1426	608		366	
Approach Delay, s/veh		10.7	0.0		97.0	
Approach LOS		B	A		F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				89.0		31.0		89.0
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				83.5		25.5		83.5
Max Q Clear Time (g_c+I1), s				30.7		29.0		2.0
Green Ext Time (p_c), s				27.6		0.0		32.7

Intersection Summary	
HCM 2010 Ctrl Delay	21.1
HCM 2010 LOS	C

Notes

Intersection	
Int Delay, s/veh	5.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	80	117	177	45	44	173
Future Vol, veh/h	80	117	177	45	44	173
Conflicting Peds, #/hr	0	76	0	67	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	3	4	3	5	2
Mvmt Flow	87	127	192	49	48	188

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	568	360	0	0	308	0
Stage 1	284	-	-	-	-	-
Stage 2	284	-	-	-	-	-
Critical Hdwy	6.42	6.23	-	-	4.15	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.327	-	-	2.245	-
Pot Cap-1 Maneuver	484	682	-	-	1236	-
Stage 1	764	-	-	-	-	-
Stage 2	764	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	432	592	-	-	1147	-
Mov Cap-2 Maneuver	432	-	-	-	-	-
Stage 1	715	-	-	-	-	-
Stage 2	728	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	16.9	0	1.7
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	515	1147	-
HCM Lane V/C Ratio	-	-	0.416	0.042	-
HCM Control Delay (s)	-	-	16.9	8.3	0
HCM Lane LOS	-	-	C	A	A
HCM 95th %tile Q(veh)	-	-	2	0.1	-

Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (veh/h)	0	1739	171	30	46	570	10	204	10	90	10	10
Future Volume (veh/h)	0	1739	171	30	46	570	10	204	10	90	10	10
Number	7	4	14		3	8	18	5	2	12	1	6
Initial Q (Qb), veh	0	0	0		0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.92		1.00		0.95	0.92		0.94	0.99	
Parking Bus, Adj	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1827	1900		1863	1745	1900	1900	1852	1900	1900	1863
Adj Flow Rate, veh/h	0	1811	164		48	594	8	212	10	58	10	10
Adj No. of Lanes	0	3	0		1	3	0	0	1	0	0	1
Peak Hour Factor	0.96	0.96	0.96		0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	4	4		2	9	9	2	2	2	2	2
Cap, veh/h	0	2773	250		78	3237	44	296	12	70	193	189
Arrive On Green	0.00	0.80	0.79		0.09	1.00	1.00	0.28	0.28	0.27	0.28	0.28
Sat Flow, veh/h	0	4786	416		1774	4840	65	912	43	250	577	672
Grp Volume(v), veh/h	0	1300	675		48	389	213	280	0	0	26	0
Grp Sat Flow(s),veh/h/ln	0	1663	1713		1774	1588	1729	1205	0	0	1624	0
Q Serve(g_s), s	0.0	26.3	27.0		4.2	0.0	0.0	33.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	26.3	27.0		4.2	0.0	0.0	34.7	0.0	0.0	1.7	0.0
Prop In Lane	0.00		0.24		1.00		0.04	0.76		0.21	0.38	
Lane Grp Cap(c), veh/h	0	1995	1028		78	2124	1156	378	0	0	488	0
V/C Ratio(X)	0.00	0.65	0.66		0.62	0.18	0.18	0.74	0.00	0.00	0.05	0.00
Avail Cap(c_a), veh/h	0	1995	1028		211	2124	1156	378	0	0	488	0
HCM Platoon Ratio	1.00	1.33	1.33		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.60	0.60		1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	9.1	9.3		71.7	0.0	0.0	53.7	0.0	0.0	42.1	0.0
Incr Delay (d2), s/veh	0.0	1.0	2.0		7.8	0.2	0.4	12.2	0.0	0.0	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	12.1	12.9		2.2	0.1	0.1	12.9	0.0	0.0	0.9	0.0
LnGrp Delay(d),s/veh	0.0	10.1	11.3		79.5	0.2	0.4	66.0	0.0	0.0	42.3	0.0
LnGrp LOS		B	B		E	A	A	E			D	
Approach Vol, veh/h		1975				650			280			26
Approach Delay, s/veh		10.5				6.1			66.0			42.3
Approach LOS		B				A			E			D

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6		8
Phs Duration (G+Y+Rc), s		49.0	11.0	100.0		49.0		111.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s		43.5	17.5	82.5		43.5		82.5
Max Q Clear Time (g_c+I1), s		36.7	6.2	29.0		3.7		2.0
Green Ext Time (p_c), s		1.1	0.1	35.5		2.3		45.1

Intersection Summary	
HCM 2010 Ctrl Delay	15.1
HCM 2010 LOS	B

Notes

Movement	SBR
Lane Configurations	
Traffic Volume (veh/h)	10
Future Volume (veh/h)	10
Number	16
Initial Q (Qb), veh	0
Ped-Bike Adj(A_pbT)	0.91
Parking Bus, Adj	1.00
Adj Sat Flow, veh/h/ln	1900
Adj Flow Rate, veh/h	6
Adj No. of Lanes	0
Peak Hour Factor	0.96
Percent Heavy Veh, %	2
Cap, veh/h	105
Arrive On Green	0.27
Sat Flow, veh/h	375
Grp Volume(v), veh/h	0
Grp Sat Flow(s),veh/h/ln	0
Q Serve(g_s), s	0.0
Cycle Q Clear(g_c), s	0.0
Prop In Lane	0.23
Lane Grp Cap(c), veh/h	0
V/C Ratio(X)	0.00
Avail Cap(c_a), veh/h	0
HCM Platoon Ratio	1.00
Upstream Filter(I)	0.00
Uniform Delay (d), s/veh	0.0
Incr Delay (d2), s/veh	0.0
Initial Q Delay(d3),s/veh	0.0
%ile BackOfQ(50%),veh/ln	0.0
LnGrp Delay(d),s/veh	0.0
LnGrp LOS	
Approach Vol, veh/h	
Approach Delay, s/veh	
Approach LOS	

Timer

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	293	820	417	452	40	450	602	165	0	1216	63
Future Volume (veh/h)	0	293	820	417	452	40	450	602	165	0	1216	63
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.91	1.00		0.87	1.00		1.00	1.00		0.72
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1817	1810	1681	1823	1900	1827	1801	1900	0	1844	1900
Adj Flow Rate, veh/h	0	302	845	312	631	41	271	891	0	0	1254	65
Adj No. of Lanes	0	1	2	1	2	0	1	3	0	0	3	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	4	5	13	2	2	4	3	3	0	3	3
Cap, veh/h	0	545	1196	294	1732	112	203	2251	0	0	1278	66
Arrive On Green	0.00	0.30	0.30	0.18	0.52	0.50	0.12	0.42	0.00	0.00	0.27	0.25
Sat Flow, veh/h	0	1817	2790	1601	3352	217	1740	5403	0	0	4957	248
Grp Volume(v), veh/h	0	302	845	312	343	329	271	891	0	0	878	441
Grp Sat Flow(s),veh/h/ln	0	1817	1395	1601	1823	1746	1740	1801	0	0	1678	1684
Q Serve(g_s), s	0.0	16.7	30.4	22.0	13.4	13.5	14.0	13.8	0.0	0.0	31.2	31.2
Cycle Q Clear(g_c), s	0.0	16.7	30.4	22.0	13.4	13.5	14.0	13.8	0.0	0.0	31.2	31.2
Prop In Lane	0.00		1.00	1.00		0.12	1.00		0.00	0.00		0.15
Lane Grp Cap(c), veh/h	0	545	1196	294	942	902	203	2251	0	0	895	449
V/C Ratio(X)	0.00	0.55	0.71	1.06	0.36	0.37	1.34	0.40	0.00	0.00	0.98	0.98
Avail Cap(c_a), veh/h	0	545	1196	294	942	902	203	2251	0	0	895	449
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.09	0.09	0.91	0.91	0.91	0.94	0.94	0.00	0.00	0.51	0.51
Uniform Delay (d), s/veh	0.0	35.3	29.3	49.0	17.3	17.3	53.0	24.4	0.0	0.0	43.7	43.8
Incr Delay (d2), s/veh	0.0	0.4	0.3	67.8	1.0	1.0	178.8	0.5	0.0	0.0	17.5	26.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	8.4	11.7	15.2	7.0	6.8	16.8	7.0	0.0	0.0	16.6	17.7
LnGrp Delay(d),s/veh	0.0	35.6	29.6	116.8	18.3	18.4	231.8	24.9	0.0	0.0	61.2	70.2
LnGrp LOS		D	C	F	B	B	F	C			E	E
Approach Vol, veh/h		1147			984			1162			1319	
Approach Delay, s/veh		31.2			49.5			73.2			64.2	
Approach LOS		C			D			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4		6		8
Phs Duration (G+Y+Rc), s	16.0	40.0	18.0	36.0		66.0		54.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s	10.5	34.5	12.5	30.5		60.5		48.5
Max Q Clear Time (g_c+I1), s	24.0	32.4	16.0	33.2		15.5		15.8
Green Ext Time (p_c), s	0.0	1.7	0.0	0.0		15.5		22.1

Intersection Summary	
HCM 2010 Ctrl Delay	55.1
HCM 2010 LOS	E

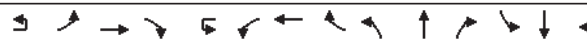
Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	61	10	96	20	0	60	32	415	20	30	823	50
Future Volume (veh/h)	61	10	96	20	0	60	32	415	20	30	823	50
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.93		0.77	0.86		0.92	1.00		0.88	1.00		0.91
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1818	1900	1900	1836	1900	1863	1761	1900	1863	1777	1900
Adj Flow Rate, veh/h	65	11	84	21	0	11	34	441	14	32	876	50
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	25	25	25	2	2	2	2	8	8	2	7	7
Cap, veh/h	151	36	154	219	11	91	79	2015	64	77	1969	112
Arrive On Green	0.23	0.23	0.22	0.23	0.00	0.22	0.04	0.61	0.60	0.04	0.61	0.60
Sat Flow, veh/h	446	157	667	702	48	393	1774	3294	104	1774	3226	184
Grp Volume(v), veh/h	160	0	0	32	0	0	34	223	232	32	458	468
Grp Sat Flow(s),veh/h/ln	1270	0	0	1142	0	0	1774	1673	1726	1774	1688	1722
Q Serve(g_s), s	8.5	0.0	0.0	0.0	0.0	0.0	2.0	6.3	6.3	1.8	15.2	15.3
Cycle Q Clear(g_c), s	11.4	0.0	0.0	1.9	0.0	0.0	2.0	6.3	6.3	1.8	15.2	15.3
Prop In Lane	0.41		0.52	0.66		0.34	1.00		0.06	1.00		0.11
Lane Grp Cap(c), veh/h	341	0	0	320	0	0	79	1023	1056	77	1030	1051
V/C Ratio(X)	0.47	0.00	0.00	0.10	0.00	0.00	0.43	0.22	0.22	0.42	0.44	0.44
Avail Cap(c_a), veh/h	351	0	0	330	0	0	152	1023	1056	152	1030	1051
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	35.6	0.0	0.0	31.9	0.0	0.0	48.8	9.1	9.2	48.9	10.9	11.0
Incr Delay (d2), s/veh	1.0	0.0	0.0	0.1	0.0	0.0	3.7	0.5	0.5	3.6	1.4	1.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.2	0.0	0.0	0.7	0.0	0.0	1.0	3.0	3.1	1.0	7.4	7.6
LnGrp Delay(d),s/veh	36.6	0.0	0.0	32.0	0.0	0.0	52.5	9.6	9.6	52.5	12.3	12.3
LnGrp LOS	D			C			D	A	A	D	B	B
Approach Vol, veh/h		160			32			489			958	
Approach Delay, s/veh		36.6			32.0			12.6			13.7	
Approach LOS		D			C			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	8.5	68.1		28.2	8.6	68.0		28.2
Change Period (Y+Rc), s	5.5	5.5		5.5	5.5	5.5		5.5
Max Green Setting (Gmax), s	7.5	62.5		23.5	7.5	62.5		23.5
Max Q Clear Time (g_c+I1), s	13.4	8.3		13.4	4.0	17.3		3.9
Green Ext Time (p_c), s	0.0	12.8		0.9	0.0	12.4		1.3

Intersection Summary	
HCM 2010 Ctrl Delay	16.0
HCM 2010 LOS	B

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	413	1311	197	40	189	366	80	100	355	84	210	525	150
Future Volume (veh/h)	20	413	1311	197	40	189	366	80	100	355	84	210	525	150
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.94		1.00		0.88	1.00		0.92	1.00		0.88
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	0.90
Adj Sat Flow, veh/h/ln		1812	1844	1900		1863	1750	1900	1696	1792	1900	1863	1813	1900
Adj Flow Rate, veh/h		439	1395	194		201	389	50	106	378	73	223	559	133
Adj No. of Lanes		1	3	0		1	3	0	1	2	0	1	2	0
Peak Hour Factor		0.94	0.94	0.94		0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %		5	0	0		2	10	10	12	7	7	2	5	5
Cap, veh/h		248	1716	239		177	1405	173	140	878	167	177	831	196
Arrive On Green		0.05	0.13	0.12		0.10	0.34	0.33	0.09	0.31	0.30	0.10	0.33	0.32
Sat Flow, veh/h		1726	4428	616		1774	4088	504	1616	2809	535	1774	2547	602
Grp Volume(v), veh/h		439	1057	532		201	299	140	106	227	224	223	377	315
Grp Sat Flow(s),veh/h/ln		1726	1678	1687		1774	1593	1406	1616	1702	1642	1774	1723	1426
Q Serve(g_s), s		23.0	49.0	49.1		16.0	10.9	11.6	10.3	16.9	17.4	16.0	30.2	30.7
Cycle Q Clear(g_c), s		23.0	49.0	49.1		16.0	10.9	11.6	10.3	16.9	17.4	16.0	30.2	30.7
Prop In Lane		1.00		0.36		1.00		0.36	1.00		0.33	1.00		0.42
Lane Grp Cap(c), veh/h		248	1301	654		177	1095	483	140	532	513	177	562	465
V/C Ratio(X)		1.77	0.81	0.81		1.13	0.27	0.29	0.76	0.43	0.44	1.26	0.67	0.68
Avail Cap(c_a), veh/h		248	1301	654		177	1095	483	252	532	513	177	562	465
HCM Platoon Ratio		0.33	0.33	0.33		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.98	0.98	0.98	0.99	0.99	0.99	0.91	0.91	0.91
Uniform Delay (d), s/veh		76.2	64.1	64.2		72.0	38.0	38.5	71.5	43.6	44.0	72.0	46.5	46.9
Incr Delay (d2), s/veh		362.3	5.6	10.7		107.0	0.6	1.5	8.1	2.5	2.7	150.4	5.7	7.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		36.0	23.8	24.9		13.1	4.9	4.7	4.9	8.3	8.3	15.2	15.2	13.0
LnGrp Delay(d),s/veh		438.5	69.8	74.9		179.0	38.6	39.9	79.5	46.1	46.7	222.4	52.2	54.0
LnGrp LOS		F	E	E		F	D	D	E	D	D	F	D	D
Approach Vol, veh/h			2028				640			557			915	
Approach Delay, s/veh			150.9				83.0			52.7			94.3	
Approach LOS			F				F			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.0	54.0	20.0	66.0	17.8	56.2	27.0	59.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Max Green Setting (Gmax), s	14.5	48.5	14.5	60.5	23.5	39.5	21.5	53.5
Max Q Clear Time (g_c+I1), s	18.0	19.4	18.0	51.1	12.3	32.7	25.0	13.6
Green Ext Time (p_c), s	0.0	9.1	0.0	7.6	0.2	3.9	0.0	21.8

Intersection Summary	
HCM 2010 Ctrl Delay	114.7
HCM 2010 LOS	F

Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	30	360	302	0	0	0	0	434	474	370	763	0
Future Volume (veh/h)	30	360	302	0	0	0	0	434	474	370	763	0
Number	7	4	14				5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.92				1.00		0.84	0.97		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1846	1810				0	1810	1827	1863	1863	0
Adj Flow Rate, veh/h	32	379	82				0	457	325	389	803	0
Adj No. of Lanes	0	1	1				0	2	1	1	2	0
Peak Hour Factor	0.95	0.95	0.95				0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	3	5				0	5	4	2	2	0
Cap, veh/h	50	587	491				0	1507	572	508	2096	0
Arrive On Green	0.35	0.35	0.35				0.00	0.44	0.44	0.12	0.59	0.00
Sat Flow, veh/h	143	1696	1419				0	3529	1305	1774	3632	0
Grp Volume(v), veh/h	411	0	82				0	457	325	389	803	0
Grp Sat Flow(s),veh/h/ln	1839	0	1419				0	1719	1305	1774	1770	0
Q Serve(g_s), s	24.5	0.0	5.2				0.0	11.2	24.2	15.4	15.6	0.0
Cycle Q Clear(g_c), s	24.5	0.0	5.2				0.0	11.2	24.2	15.4	15.6	0.0
Prop In Lane	0.08		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	637	0	491				0	1507	572	508	2096	0
V/C Ratio(X)	0.65	0.00	0.17				0.00	0.30	0.57	0.77	0.38	0.00
Avail Cap(c_a), veh/h	637	0	491				0	1507	572	508	2096	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	35.8	0.0	29.5				0.0	23.6	27.3	16.5	14.0	0.0
Incr Delay (d2), s/veh	5.0	0.0	0.7				0.0	0.5	4.1	6.9	0.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	18.3	0.0	2.1				0.0	5.4	9.3	8.4	7.7	0.0
LnGrp Delay(d),s/veh	40.8	0.0	30.2				0.0	24.2	31.3	23.4	14.5	0.0
LnGrp LOS	D		C					C	C	C	B	
Approach Vol, veh/h		493						782			1192	
Approach Delay, s/veh		39.0						27.1			17.4	
Approach LOS		D						C			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4		6		
Phs Duration (G+Y+Rc), s	20.0	61.0		49.0		81.0		
Change Period (Y+Rc), s	5.5	5.5		5.5		5.5		
Max Green Setting (Gmax), s	14.5	55.5		43.5		75.5		
Max Q Clear Time (g_c+I1), s	17.4	26.2		26.5		17.6		
Green Ext Time (p_c), s	0.0	13.3		2.8		16.4		

Intersection Summary	
HCM 2010 Ctrl Delay	24.8
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	243	210	250	46	398	0	0	860	70
Future Volume (veh/h)	0	0	0	243	210	250	46	398	0	0	860	70
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		0.93	1.00		1.00	1.00		0.94
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1863	1863	1597	1863	0	0	1863	1900
Adj Flow Rate, veh/h				270	233	278	51	442	0	0	956	70
Adj No. of Lanes				0	2	1	1	2	0	0	2	0
Peak Hour Factor				0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %				2	2	2	19	2	0	0	2	2
Cap, veh/h				774	772	643	218	1737	0	0	1348	99
Arrive On Green				0.44	0.44	0.44	0.05	0.49	0.00	0.00	0.41	0.39
Sat Flow, veh/h				1774	1770	1474	1521	3632	0	0	3421	244
Grp Volume(v), veh/h				270	233	278	51	442	0	0	508	518
Grp Sat Flow(s),veh/h/ln				1774	1770	1474	1521	1770	0	0	1770	1802
Q Serve(g_s), s				11.1	9.4	14.4	2.0	8.0	0.0	0.0	26.4	26.4
Cycle Q Clear(g_c), s				11.1	9.4	14.4	2.0	8.0	0.0	0.0	26.4	26.4
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.14
Lane Grp Cap(c), veh/h				774	772	643	218	1737	0	0	717	730
V/C Ratio(X)				0.35	0.30	0.43	0.23	0.25	0.00	0.00	0.71	0.71
Avail Cap(c_a), veh/h				774	772	643	350	1737	0	0	717	730
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				20.6	20.1	21.5	19.9	16.3	0.0	0.0	27.3	27.4
Incr Delay (d2), s/veh				1.2	1.0	2.1	0.5	0.4	0.0	0.0	5.9	5.8
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				5.7	4.8	6.2	0.9	4.0	0.0	0.0	14.0	14.3
LnGrp Delay(d),s/veh				21.8	21.1	23.6	20.5	16.6	0.0	0.0	33.2	33.2
LnGrp LOS				C	C	C	C	B			C	C
Approach Vol, veh/h					781			493			1026	
Approach Delay, s/veh					22.3			17.0			33.2	
Approach LOS					C			B			C	

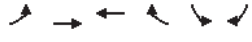
Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		58.0			9.4	48.6		52.0
Change Period (Y+Rc), s		5.5			5.5	5.5		5.5
Max Green Setting (Gmax), s		52.5			13.5	33.5		46.5
Max Q Clear Time (g_c+I1), s		10.0			4.0	28.4		16.4
Green Ext Time (p_c), s		14.6			0.1	3.7		4.7

Intersection Summary	
HCM 2010 Ctrl Delay	26.0
HCM 2010 LOS	C

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1764	283	10	40	250	130
Future Volume (veh/h)	1764	283	10	40	250	130
Number	6	16	5	2	7	14
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		0.94	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1797	1900	1900	1200	1810	1696
Adj Flow Rate, veh/h	1897	222	11	43	269	140
Adj No. of Lanes	4	0	0	2	2	1
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	6	6	54	54	5	12
Cap, veh/h	4355	509	127	913	474	204
Arrive On Green	0.78	0.76	0.78	0.78	0.14	0.14
Sat Flow, veh/h	5866	657	94	1232	3343	1442
Grp Volume(v), veh/h	1566	553	23	31	269	140
Grp Sat Flow(s),veh/h/ln	1546	1635	233	1038	1672	1442
Q Serve(g_s), s	11.1	11.3	1.0	0.7	7.3	8.9
Cycle Q Clear(g_c), s	11.1	11.3	12.4	0.7	7.3	8.9
Prop In Lane		0.40	0.47		1.00	1.00
Lane Grp Cap(c), veh/h	3596	1268	236	805	474	204
V/C Ratio(X)	0.44	0.44	0.10	0.04	0.57	0.69
Avail Cap(c_a), veh/h	3596	1268	236	805	933	403
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	3.7	3.8	3.0	2.5	38.7	39.4
Incr Delay (d2), s/veh	0.4	1.1	0.8	0.1	1.1	4.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.8	5.4	0.2	0.2	3.4	3.8
LnGrp Delay(d),s/veh	4.1	4.9	3.8	2.6	39.8	43.5
LnGrp LOS	A	A	A	A	D	D
Approach Vol, veh/h	2119			54	409	
Approach Delay, s/veh	4.3			3.1	41.1	
Approach LOS	A			A	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		
Phs Duration (G+Y+Rc), s		79.0		17.7		79.0		
Change Period (Y+Rc), s		5.5		5.5		5.5		
Max Green Setting (Gmax), s		73.5		25.5		73.5		
Max Q Clear Time (g_c+I1), s		14.4		10.9		13.3		
Green Ext Time (p_c), s		31.5		1.3		31.8		

Intersection Summary	
HCM 2010 Ctrl Delay	10.1
HCM 2010 LOS	B

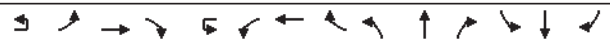


Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	140	276	864	230	270	100
Future Volume (veh/h)	140	276	864	230	270	100
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			0.95	1.00	0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1827	1863	1834	1900	1863	1900
Adj Flow Rate, veh/h	154	303	949	155	297	77
Adj No. of Lanes	1	1	4	0	0	0
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	4	2	4	4	0	0
Cap, veh/h	155	1035	2315	371	482	125
Arrive On Green	0.09	0.56	0.42	0.41	0.36	0.34
Sat Flow, veh/h	1740	1863	5740	879	1355	351
Grp Volume(v), veh/h	154	303	817	287	375	0
Grp Sat Flow(s),veh/h/ln	1740	1863	1578	1630	1711	0
Q Serve(g_s), s	8.0	7.8	10.8	11.2	16.3	0.0
Cycle Q Clear(g_c), s	8.0	7.8	10.8	11.2	16.3	0.0
Prop In Lane	1.00			0.54	0.79	0.21
Lane Grp Cap(c), veh/h	155	1035	1998	688	608	0
V/C Ratio(X)	1.00	0.29	0.41	0.42	0.62	0.00
Avail Cap(c_a), veh/h	155	1035	1998	688	608	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	41.0	10.6	18.2	18.6	24.1	0.0
Incr Delay (d2), s/veh	71.0	0.7	0.6	1.9	4.6	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.9	4.2	4.8	5.4	8.5	0.0
LnGrp Delay(d),s/veh	112.0	11.3	18.8	20.4	28.7	0.0
LnGrp LOS	F	B	B	C	C	
Approach Vol, veh/h		457	1104		375	
Approach Delay, s/veh		45.3	19.2		28.7	
Approach LOS		D	B		C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6	7	8
Phs Duration (G+Y+Rc), s				54.0		36.0	12.0	42.0
Change Period (Y+Rc), s				5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s				48.5		30.5	6.5	36.5
Max Q Clear Time (g_c+I1), s				9.8		18.3	10.0	13.2
Green Ext Time (p_c), s				13.5		1.0	0.0	11.0

Intersection Summary	
HCM 2010 Ctrl Delay	27.2
HCM 2010 LOS	C

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	120	1085	350	10	70	393	120	70	200	60	40	300	173
Future Volume (veh/h)	20	120	1085	350	10	70	393	120	70	200	60	40	300	173
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.92		1.00		0.89	1.00		0.98	1.00		0.85
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1845	1863	1900		1827	1782	1900	1900	1841	1900	1900	1863	1900
Adj Flow Rate, veh/h		133	1206	302		78	437	57	78	222	59	44	333	170
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.90	0.90	0.90		0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %		3	2	2		4	8	8	4	4	4	2	2	2
Cap, veh/h		209	2184	547		112	2128	269	67	158	39	53	298	147
Arrive On Green		0.24	1.00	1.00		0.06	0.49	0.48	0.31	0.31	0.30	0.31	0.31	0.30
Sat Flow, veh/h		1757	3984	998		1740	4309	544	127	506	125	92	953	471
Grp Volume(v), veh/h		133	1026	482		78	325	169	359	0	0	547	0	0
Grp Sat Flow(s),veh/h/ln		1757	1695	1591		1740	1622	1609	758	0	0	1516	0	0
Q Serve(g_s), s		10.9	0.0	0.0		7.0	9.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s		10.9	0.0	0.0		7.0	9.0	9.5	50.0	0.0	0.0	50.0	0.0	0.0
Prop In Lane		1.00		0.63		1.00		0.34	0.22		0.16	0.08		0.31
Lane Grp Cap(c), veh/h		209	1859	872		112	1602	794	264	0	0	498	0	0
V/C Ratio(X)		0.64	0.55	0.55		0.70	0.20	0.21	1.36	0.00	0.00	1.10	0.00	0.00
Avail Cap(c_a), veh/h		209	1859	872		152	1602	794	264	0	0	498	0	0
HCM Platoon Ratio		2.00	2.00	2.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.31	0.31	0.31		1.00	1.00	1.00	0.09	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		57.9	0.0	0.0		73.3	22.8	23.1	55.0	0.0	0.0	55.9	0.0	0.0
Incr Delay (d2), s/veh		2.0	0.4	0.8		8.2	0.3	0.6	163.6	0.0	0.0	69.7	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		5.4	0.1	0.2		3.6	4.1	4.4	23.7	0.0	0.0	31.6	0.0	0.0
LnGrp Delay(d),s/veh		59.9	0.4	0.8		81.6	23.1	23.7	218.6	0.0	0.0	125.6	0.0	0.0
LnGrp LOS		E	A	A		F	C	C	F			F		
Approach Vol, veh/h			1641				572			359			547	
Approach Delay, s/veh			5.3				31.2			218.6			125.6	
Approach LOS			A				C			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		54.0	14.3	91.7		54.0	23.0	83.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		48.5	12.5	82.5		48.5	17.5	77.5
Max Q Clear Time (g_c+I1), s		52.0	9.0	2.0		52.0	12.9	11.5
Green Ext Time (p_c), s		0.0	0.0	19.0		0.0	1.1	3.7

Intersection Summary	
HCM 2010 Ctrl Delay	55.7
HCM 2010 LOS	E

Notes

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1073	110	110	845	20	30
Future Volume (veh/h)	1073	110	110	845	20	30
Number	4	14	3	8	5	12
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	980	1000	1000	980	1863	1863
Adj Flow Rate, veh/h	1166	120	120	918	22	33
Adj No. of Lanes	3	0	0	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	1438	148	122	910	84	75
Arrive On Green	0.82	0.86	0.86	0.82	0.05	0.05
Sat Flow, veh/h	2239	180	84	1151	1774	1583
Grp Volume(v), veh/h	653	633	404	634	22	33
Grp Sat Flow(s),veh/h/ln	490	949	343	848	1774	1583
Q Serve(g_s), s	31.4	30.8	43.6	46.6	1.1	1.8
Cycle Q Clear(g_c), s	31.4	30.8	76.0	46.6	1.1	1.8
Prop In Lane		0.19	0.30		1.00	1.00
Lane Grp Cap(c), veh/h	806	780	348	697	84	75
V/C Ratio(X)	0.81	0.81	1.16	0.91	0.26	0.44
Avail Cap(c_a), veh/h	806	780	348	697	724	646
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	4.2	4.0	19.3	5.5	40.5	40.9
Incr Delay (d2), s/veh	8.7	9.0	99.0	18.1	1.6	4.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.1	9.6	17.7	13.9	0.6	0.9
LnGrp Delay(d),s/veh	12.9	13.0	118.3	23.6	42.1	44.8
LnGrp LOS	B	B	F	C	D	D
Approach Vol, veh/h	1286			1038	55	
Approach Delay, s/veh	12.9			60.5	43.7	
Approach LOS	B			E	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4				8
Phs Duration (G+Y+Rc), s		8.2		80.0				80.0
Change Period (Y+Rc), s		4.5		4.5				4.5
Max Green Setting (Gmax), s		35.5		75.5				75.5
Max Q Clear Time (g_c+I1), s		3.8		34.4				78.0
Green Ext Time (p_c), s		0.1		27.2				0.0

Intersection Summary	
HCM 2010 Ctrl Delay	34.4
HCM 2010 LOS	C

Intersection	
Int Delay, s/veh	1.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1807	22	0	626	0	113
Future Vol, veh/h	1807	22	0	626	0	113
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1902	23	0	659	0	119

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	963
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.92
Pot Cap-1 Maneuver	-	-	0	-	0	220
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	220
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	39.1
HCM LOS			E

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	220	-	-	-
HCM Lane V/C Ratio	0.541	-	-	-
HCM Control Delay (s)	39.1	-	-	-
HCM Lane LOS	E	-	-	-
HCM 95th %tile Q(veh)	2.9	-	-	-

Intersection	
Int Delay, s/veh	4.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	20	0	20	101	0	47	30	135	27	3	220	30
Future Vol, veh/h	20	0	20	101	0	47	30	135	27	3	220	30
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	22	0	22	110	0	51	33	147	29	3	239	33

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	514	503	255	500	505	161	272	0	0	176	0	0
Stage 1	262	262	-	227	227	-	-	-	-	-	-	-
Stage 2	252	241	-	273	278	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	471	471	784	481	470	884	1291	-	-	1400	-	-
Stage 1	743	691	-	776	716	-	-	-	-	-	-	-
Stage 2	752	706	-	733	680	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	433	456	784	457	455	884	1291	-	-	1400	-	-
Mov Cap-2 Maneuver	433	456	-	457	455	-	-	-	-	-	-	-
Stage 1	722	689	-	754	696	-	-	-	-	-	-	-
Stage 2	689	686	-	711	678	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	12	14.5	1.2	0.1
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1291	-	-	558	540	1400	-	-
HCM Lane V/C Ratio	0.025	-	-	0.078	0.298	0.002	-	-
HCM Control Delay (s)	7.9	0	-	12	14.5	7.6	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.3	1.2	0	-	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	778	470	316	891	20	660	0	440	0	0	10
Future Volume (veh/h)	20	778	470	316	891	20	660	0	440	0	0	10
Number	7	4	14	3	8	18	5	2	12			
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		0.95	1.00		0.89	1.00		0.85			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	1863	1845	1863	1863	1863	1900	1863	1863	1863			
Adj Flow Rate, veh/h	21	802	214	326	919	19	680	0	83			
Adj No. of Lanes	1	2	1	1	2	0	2	0	1			
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97			
Percent Heavy Veh, %	2	3	2	2	2	2	2	2	2			
Cap, veh/h	75	1618	693	356	2194	45	839	0	320			
Arrive On Green	0.04	0.46	0.46	0.20	0.62	0.61	0.24	0.00	0.24			
Sat Flow, veh/h	1774	3505	1501	1774	3536	73	3548	0	1352			
Grp Volume(v), veh/h	21	802	214	326	460	478	680	0	83			
Grp Sat Flow(s),veh/h/ln	1774	1752	1501	1774	1770	1839	1774	0	1352			
Q Serve(g_s), s	1.4	19.0	10.7	21.4	15.9	15.9	21.6	0.0	5.9			
Cycle Q Clear(g_c), s	1.4	19.0	10.7	21.4	15.9	15.9	21.6	0.0	5.9			
Prop In Lane	1.00		1.00	1.00		0.04	1.00		1.00			
Lane Grp Cap(c), veh/h	75	1618	693	356	1098	1141	839	0	320			
V/C Ratio(X)	0.28	0.50	0.31	0.91	0.42	0.42	0.81	0.00	0.26			
Avail Cap(c_a), veh/h	209	1618	693	357	1098	1141	864	0	329			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	55.3	22.4	20.1	46.6	11.6	11.6	42.9	0.0	37.0			
Incr Delay (d2), s/veh	2.0	1.1	1.2	27.2	1.2	1.1	5.7	0.0	0.4			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.7	9.4	4.6	13.2	8.0	8.3	11.2	0.0	2.2			
LnGrp Delay(d),s/veh	57.3	23.5	21.3	73.8	12.8	12.7	48.7	0.0	37.4			
LnGrp LOS	E	C	C	E	B	B	D		D			
Approach Vol, veh/h		1037			1264			763				
Approach Delay, s/veh		23.7			28.5			47.4				
Approach LOS		C			C			D				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4			7	8
Phs Duration (G+Y+Rc), s		32.2	27.9	59.0			9.0	77.9
Change Period (Y+Rc), s		5.5	4.5	5.5			5.5	5.5
Max Green Setting (Gmax), s		27.5	23.5	53.5			12.5	63.5
Max Q Clear Time (g_c+I1), s		23.6	23.4	21.0			3.4	17.9
Green Ext Time (p_c), s		1.2	0.0	16.3			0.0	18.8

Intersection Summary	
HCM 2010 Ctrl Delay	31.6
HCM 2010 LOS	C

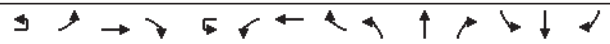
Notes

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	120	855	844	300	140	150
Future Volume (veh/h)	120	855	844	300	140	150
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.99			0.94	1.00	0.78
Parking Bus, Adj	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1863	1863	1854	1900
Adj Flow Rate, veh/h	124	881	870	95	144	109
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	0	0
Cap, veh/h	269	1829	2625	998	162	123
Arrive On Green	0.74	0.74	1.00	1.00	0.19	0.18
Sat Flow, veh/h	310	2551	3632	1346	845	639
Grp Volume(v), veh/h	425	580	870	95	254	0
Grp Sat Flow(s),veh/h/ln	1167	1610	1770	1346	1490	0
Q Serve(g_s), s	8.8	17.4	0.0	0.0	20.0	0.0
Cycle Q Clear(g_c), s	13.7	17.4	0.0	0.0	20.0	0.0
Prop In Lane	0.29			1.00	0.57	0.43
Lane Grp Cap(c), veh/h	904	1194	2625	998	286	0
V/C Ratio(X)	0.47	0.49	0.33	0.10	0.89	0.00
Avail Cap(c_a), veh/h	904	1194	2625	998	286	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.91	0.91	0.24	0.00
Uniform Delay (d), s/veh	5.5	6.3	0.0	0.0	47.6	0.0
Incr Delay (d2), s/veh	1.8	1.4	0.3	0.2	8.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.6	8.0	0.1	0.0	8.9	0.0
LnGrp Delay(d),s/veh	7.2	7.7	0.3	0.2	56.0	0.0
LnGrp LOS	A	A	A	A	E	
Approach Vol, veh/h		1005	965		254	
Approach Delay, s/veh		7.5	0.3		56.0	
Approach LOS		A	A		E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				93.0		27.0		93.0
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				87.5		21.5		87.5
Max Q Clear Time (g_c+I1), s				19.4		22.0		2.0
Green Ext Time (p_c), s				28.7		0.0		30.7

Intersection Summary	
HCM 2010 Ctrl Delay	9.9
HCM 2010 LOS	A

Notes

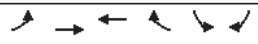


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	150	240	1554	140	30	40	947	124	320	130	50	126	200	480
Future Volume (veh/h)	150	240	1554	140	30	40	947	124	320	130	50	126	200	480
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.99		1.00		0.82	0.97		0.89	0.94		0.92
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1771	1900	1863	1863	1900	1900	1838	1863
Adj Flow Rate, veh/h		247	1602	131		41	976	117	330	134	41	130	206	279
Adj No. of Lanes		1	3	0		1	3	0	1	1	0	0	1	1
Peak Hour Factor		0.97	0.97	0.97		0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %		2	2	2		2	8	8	2	2	2	3	3	2
Cap, veh/h		286	2896	237		69	2057	245	242	373	114	145	180	412
Arrive On Green		0.16	0.60	0.60		0.08	0.96	0.95	0.28	0.28	0.27	0.28	0.28	0.28
Sat Flow, veh/h		1774	4787	391		1774	4264	508	1138	1328	406	405	641	1463
Grp Volume(v), veh/h		247	1134	599		41	736	357	330	0	175	336	0	279
Grp Sat Flow(s),veh/h/ln		1774	1695	1788		1774	1611	1550	1138	0	1734	1046	0	1463
Q Serve(g_s), s		21.7	31.8	32.0		3.6	2.4	2.8	0.0	0.0	12.9	32.1	0.0	27.1
Cycle Q Clear(g_c), s		21.7	31.8	32.0		3.6	2.4	2.8	45.0	0.0	12.9	45.0	0.0	27.1
Prop In Lane		1.00		0.22		1.00		0.33	1.00		0.23	0.39		1.00
Lane Grp Cap(c), veh/h		286	2051	1082		69	1554	747	242	0	488	325	0	412
V/C Ratio(X)		0.86	0.55	0.55		0.59	0.47	0.48	1.36	0.00	0.36	1.03	0.00	0.68
Avail Cap(c_a), veh/h		455	2051	1082		255	1554	747	242	0	488	325	0	412
HCM Platoon Ratio		1.00	1.00	1.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.97	0.97	0.97	0.95	0.00	0.95	1.00	0.00	1.00
Uniform Delay (d), s/veh		65.4	18.8	18.9		72.6	1.5	1.8	61.7	0.0	46.1	65.5	0.0	51.1
Incr Delay (d2), s/veh		9.7	1.1	2.0		7.7	1.0	2.1	186.0	0.0	2.0	58.6	0.0	8.7
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		11.4	15.1	16.3		1.9	1.0	1.3	23.2	0.0	6.5	19.7	0.0	11.9
LnGrp Delay(d),s/veh		75.0	19.8	20.9		80.3	2.5	3.9	247.7	0.0	48.1	124.1	0.0	59.7
LnGrp LOS		E	B	C		F	A	A	F		D	F		E
Approach Vol, veh/h			1980				1134			505			615	
Approach Delay, s/veh			27.1				5.8			178.5			94.9	
Approach LOS			C				A			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		49.0	10.2	100.8		49.0	29.8	81.2
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		43.5	21.5	78.5		43.5	39.5	60.5
Max Q Clear Time (g_c+I1), s		47.0	5.6	34.0		47.0	23.7	4.8
Green Ext Time (p_c), s		0.0	0.1	33.8		0.0	0.6	39.8

Intersection Summary	
HCM 2010 Ctrl Delay	49.3
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	145	870	1050	307	141	84
Future Volume (veh/h)	145	870	1050	307	141	84
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.99			0.94	1.00	0.90
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1863	1863	1843	1900
Adj Flow Rate, veh/h	153	916	1105	157	148	66
Adj No. of Lanes	0	2	2	1	0	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	0	0
Cap, veh/h	275	1559	2605	1094	222	99
Arrive On Green	0.74	0.74	1.00	1.00	0.20	0.18
Sat Flow, veh/h	316	2203	3632	1487	1124	501
Grp Volume(v), veh/h	370	699	1105	157	215	0
Grp Sat Flow(s),veh/h/ln	824	1610	1770	1487	1633	0
Q Serve(g_s), s	17.8	24.3	0.0	0.0	14.6	0.0
Cycle Q Clear(g_c), s	20.7	24.3	0.0	0.0	14.6	0.0
Prop In Lane	0.41			1.00	0.69	0.31
Lane Grp Cap(c), veh/h	649	1185	2605	1094	322	0
V/C Ratio(X)	0.57	0.59	0.42	0.14	0.67	0.00
Avail Cap(c_a), veh/h	649	1185	2605	1094	367	0
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	0.69	0.69	0.09	0.09	1.00	0.00
Uniform Delay (d), s/veh	6.3	7.4	0.0	0.0	44.7	0.0
Incr Delay (d2), s/veh	2.5	1.5	0.0	0.0	3.8	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.7	11.2	0.0	0.0	6.9	0.0
LnGrp Delay(d),s/veh	8.8	8.9	0.0	0.0	48.6	0.0
LnGrp LOS	A	A	A	A	D	
Approach Vol, veh/h		1069	1262		215	
Approach Delay, s/veh		8.9	0.0		48.6	
Approach LOS		A	A		D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		8
Phs Duration (G+Y+Rc), s				92.3		27.7		92.3
Change Period (Y+Rc), s				5.5		5.5		5.5
Max Green Setting (Gmax), s				83.5		25.5		83.5
Max Q Clear Time (g_c+I1), s				26.3		16.6		2.0
Green Ext Time (p_c), s				36.3		0.4		44.2

Intersection Summary	
HCM 2010 Ctrl Delay	7.8
HCM 2010 LOS	A

Notes

Intersection	
Int Delay, s/veh	4.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	52	80	310	67	97	115
Future Vol, veh/h	52	80	310	67	97	115
Conflicting Peds, #/hr	0	21	0	27	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	59	91	352	76	110	131

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	768	438	0	0	455	0
Stage 1	417	-	-	-	-	-
Stage 2	351	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	370	619	-	-	1106	-
Stage 1	665	-	-	-	-	-
Stage 2	713	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	321	591	-	-	1084	-
Mov Cap-2 Maneuver	321	-	-	-	-	-
Stage 1	648	-	-	-	-	-
Stage 2	635	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	17.2	0	4
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	444	1084	-
HCM Lane V/C Ratio	-	-	0.338	0.102	-
HCM Control Delay (s)	-	-	17.2	8.7	0
HCM Lane LOS	-	-	C	A	A
HCM 95th %tile Q(veh)	-	-	1.5	0.3	-

Movement	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations												
Traffic Volume (veh/h)	0	1602	158	20	74	860	10	261	10	130	10	10
Future Volume (veh/h)	0	1602	158	20	74	860	10	261	10	130	10	10
Number	7	4	14		3	8	18	5	2	12	1	6
Initial Q (Qb), veh	0	0	0		0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.92		1.00		0.95	0.92		0.94	1.00	
Parking Bus, Adj	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1863	1900		1863	1760	1900	1900	1863	1900	1900	1863
Adj Flow Rate, veh/h	0	1669	156		77	896	9	272	10	111	10	10
Adj No. of Lanes	0	3	0		1	3	0	0	1	0	0	1
Peak Hour Factor	0.96	0.96	0.96		0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	2	2		2	8	8	2	2	2	2	2
Cap, veh/h	0	2730	254		110	3279	33	276	9	97	191	187
Arrive On Green	0.00	1.00	1.00		0.12	1.00	1.00	0.28	0.28	0.27	0.28	0.28
Sat Flow, veh/h	0	4862	437		1774	4903	49	845	31	345	568	664
Grp Volume(v), veh/h	0	1204	621		77	585	320	393	0	0	26	0
Grp Sat Flow(s),veh/h/ln	0	1695	1742		1774	1602	1749	1221	0	0	1602	0
Q Serve(g_s), s	0.0	0.0	0.0		6.7	0.0	0.0	43.3	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	0.0		6.7	0.0	0.0	45.0	0.0	0.0	1.7	0.0
Prop In Lane	0.00		0.25		1.00		0.03	0.69		0.28	0.38	
Lane Grp Cap(c), veh/h	0	1971	1013		110	2143	1169	382	0	0	482	0
V/C Ratio(X)	0.00	0.61	0.61		0.70	0.27	0.27	1.03	0.00	0.00	0.05	0.00
Avail Cap(c_a), veh/h	0	1971	1013		211	2143	1169	382	0	0	482	0
HCM Platoon Ratio	1.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.75	0.75		1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	0.0		68.6	0.0	0.0	59.8	0.0	0.0	42.1	0.0
Incr Delay (d2), s/veh	0.0	1.1	2.1		7.7	0.3	0.6	54.0	0.0	0.0	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.3	0.6		3.5	0.1	0.2	22.6	0.0	0.0	0.9	0.0
LnGrp Delay(d),s/veh	0.0	1.1	2.1		76.3	0.3	0.6	113.8	0.0	0.0	42.3	0.0
LnGrp LOS		A	A		E	A	A	F			D	
Approach Vol, veh/h		1825				982			393			26
Approach Delay, s/veh		1.4				6.4			113.8			42.3
Approach LOS		A				A			F			D

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6		8
Phs Duration (G+Y+Rc), s		49.0	14.0	97.0		49.0		111.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s		43.5	17.5	82.5		43.5		105.5
Max Q Clear Time (g_c+I1), s		47.0	8.7	2.0		3.7		2.0
Green Ext Time (p_c), s		0.0	0.1	48.0		3.4		54.6

Intersection Summary	
HCM 2010 Ctrl Delay	16.9
HCM 2010 LOS	B

Notes

Movement	SBR
Lane Configurations	
Traffic Volume (veh/h)	10
Future Volume (veh/h)	10
Number	16
Initial Q (Qb), veh	0
Ped-Bike Adj(A_pbT)	0.91
Parking Bus, Adj	1.00
Adj Sat Flow, veh/h/ln	1900
Adj Flow Rate, veh/h	6
Adj No. of Lanes	0
Peak Hour Factor	0.96
Percent Heavy Veh, %	2
Cap, veh/h	104
Arrive On Green	0.27
Sat Flow, veh/h	370
Grp Volume(v), veh/h	0
Grp Sat Flow(s),veh/h/ln	0
Q Serve(g_s), s	0.0
Cycle Q Clear(g_c), s	0.0
Prop In Lane	0.23
Lane Grp Cap(c), veh/h	0
V/C Ratio(X)	0.00
Avail Cap(c_a), veh/h	0
HCM Platoon Ratio	1.00
Upstream Filter(I)	0.00
Uniform Delay (d), s/veh	0.0
Incr Delay (d2), s/veh	0.0
Initial Q Delay(d3),s/veh	0.0
%ile BackOfQ(50%),veh/ln	0.0
LnGrp Delay(d),s/veh	0.0
LnGrp LOS	
Approach Vol, veh/h	
Approach Delay, s/veh	
Approach LOS	

Timer

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	699	730	242	373	40	700	1257	307	0	751	60
Future Volume (veh/h)	0	699	730	242	373	40	700	1257	307	0	751	60
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.87	1.00		1.00	1.00		0.71
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1852	1827	1681	1848	1900	1845	1780	1900	0	1863	1900
Adj Flow Rate, veh/h	0	635	836	230	428	42	515	1634	0	0	791	63
Adj No. of Lanes	0	1	2	1	2	0	1	3	0	0	3	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	2	4	13	2	2	3	2	2	0	2	2
Cap, veh/h	0	581	1385	271	1687	164	234	2224	0	0	1162	91
Arrive On Green	0.00	0.31	0.31	0.17	0.52	0.50	0.13	0.42	0.00	0.00	0.25	0.24
Sat Flow, veh/h	0	1852	3094	1601	3265	317	1757	5339	0	0	4816	364
Grp Volume(v), veh/h	0	635	836	230	240	230	515	1634	0	0	573	281
Grp Sat Flow(s),veh/h/ln	0	1852	1547	1601	1848	1734	1757	1780	0	0	1695	1622
Q Serve(g_s), s	0.0	37.7	24.6	16.7	8.7	8.9	16.0	30.9	0.0	0.0	18.3	18.9
Cycle Q Clear(g_c), s	0.0	37.7	24.6	16.7	8.7	8.9	16.0	30.9	0.0	0.0	18.3	18.9
Prop In Lane	0.00		1.00	1.00		0.18	1.00		0.00	0.00		0.22
Lane Grp Cap(c), veh/h	0	581	1385	271	955	896	234	2224	0	0	848	406
V/C Ratio(X)	0.00	1.09	0.60	0.85	0.25	0.26	2.20	0.73	0.00	0.00	0.68	0.69
Avail Cap(c_a), veh/h	0	581	1385	294	955	896	234	2224	0	0	848	406
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.09	0.09	0.94	0.94	0.94	0.72	0.72	0.00	0.00	0.63	0.63
Uniform Delay (d), s/veh	0.0	41.2	25.1	48.3	16.1	16.2	52.0	29.4	0.0	0.0	40.6	41.0
Incr Delay (d2), s/veh	0.0	44.6	0.2	18.1	0.6	0.6	549.3	1.6	0.0	0.0	2.7	6.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	26.4	10.5	8.8	4.6	4.4	43.5	15.5	0.0	0.0	8.9	9.1
LnGrp Delay(d),s/veh	0.0	85.8	25.3	66.5	16.7	16.9	601.3	31.0	0.0	0.0	43.4	47.0
LnGrp LOS		F	C	E	B	B	F	C			D	D
Approach Vol, veh/h		1471			700			2149			854	
Approach Delay, s/veh		51.4			33.1			167.7			44.5	
Approach LOS		D			C			F			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4		6		8
Phs Duration (G+Y+Rc), s	14.3	41.7	20.0	34.0		66.0		54.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5		5.5		5.5
Max Green Setting (Gmax), s	20.5	34.5	14.5	28.5		60.5		48.5
Max Q Clear Time (g_c+I1), s	13.7	39.7	18.0	20.9		10.9		32.9
Green Ext Time (p_c), s	0.1	0.0	0.0	7.0		17.4		13.5

Intersection Summary	
HCM 2010 Ctrl Delay	96.1
HCM 2010 LOS	F

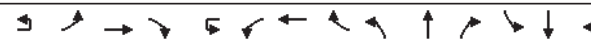
Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	51	0	88	30	0	40	120	865	20	20	540	162
Future Volume (veh/h)	51	0	88	30	0	40	120	865	20	20	540	162
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.91		0.81	0.88		0.89	1.00		0.88	1.00		0.91
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1785	1900	1900	1863	1900	1863	1761	1900	1863	1795	1900
Adj Flow Rate, veh/h	54	0	84	32	0	11	126	911	18	21	568	168
Adj No. of Lanes	0	1	0	0	1	0	1	2	0	1	2	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	8	8	2	7	7
Cap, veh/h	139	16	168	238	8	65	146	2122	42	63	1488	438
Arrive On Green	0.22	0.00	0.21	0.22	0.00	0.21	0.08	0.63	0.62	0.04	0.59	0.57
Sat Flow, veh/h	420	71	764	819	37	294	1774	3346	66	1774	2535	746
Grp Volume(v), veh/h	138	0	0	43	0	0	126	456	473	21	381	355
Grp Sat Flow(s),veh/h/ln	1255	0	0	1150	0	0	1774	1673	1739	1774	1705	1576
Q Serve(g_s), s	7.0	0.0	0.0	0.0	0.0	0.0	7.6	14.9	14.9	1.3	13.0	13.3
Cycle Q Clear(g_c), s	10.2	0.0	0.0	3.3	0.0	0.0	7.6	14.9	14.9	1.3	13.0	13.3
Prop In Lane	0.39		0.61	0.74		0.26	1.00		0.04	1.00		0.47
Lane Grp Cap(c), veh/h	323	0	0	311	0	0	146	1061	1103	63	1001	925
V/C Ratio(X)	0.43	0.00	0.00	0.14	0.00	0.00	0.86	0.43	0.43	0.34	0.38	0.38
Avail Cap(c_a), veh/h	333	0	0	322	0	0	146	1061	1103	146	1001	925
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	37.4	0.0	0.0	34.4	0.0	0.0	49.4	10.0	10.1	51.3	12.0	12.2
Incr Delay (d2), s/veh	0.9	0.0	0.0	0.2	0.0	0.0	37.2	1.3	1.2	3.1	1.1	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.7	0.0	0.0	1.1	0.0	0.0	5.3	7.2	7.5	0.7	6.3	6.1
LnGrp Delay(d),s/veh	38.3	0.0	0.0	34.6	0.0	0.0	86.6	11.3	11.3	54.4	13.1	13.4
LnGrp LOS	D			C			F	B	B	D	B	B
Approach Vol, veh/h		138			43			1055			757	
Approach Delay, s/veh		38.3			34.6			20.3			14.4	
Approach LOS		D			C			C			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	7.9	73.1		28.1	13.0	68.0		28.1
Change Period (Y+Rc), s	5.5	5.5		5.5	5.5	5.5		5.5
Max Green Setting (Gmax), s	7.5	62.5		23.5	7.5	62.5		23.5
Max Q Clear Time (g_c+I1), s	12.3	16.9		12.2	9.6	15.3		5.3
Green Ext Time (p_c), s	0.0	16.9		0.8	0.0	17.1		1.1

Intersection Summary	
HCM 2010 Ctrl Delay	19.6
HCM 2010 LOS	B

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	30	423	1109	133	30	192	624	110	170	654	122	150	398	140
Future Volume (veh/h)	30	423	1109	133	30	192	624	110	170	654	122	150	398	140
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.99		1.00		0.87	1.00		0.95	1.00		0.84
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	0.90
Adj Sat Flow, veh/h/ln		1863	1847	1900		1863	1863	1900	1397	1832	1900	1863	1810	1900
Adj Flow Rate, veh/h		445	1167	124		202	657	73	179	688	103	158	419	133
Adj No. of Lanes		1	3	0		1	3	0	1	2	0	1	2	0
Peak Hour Factor		0.95	0.95	0.95		0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %		2	2	2		2	2	2	36	4	4	2	6	6
Cap, veh/h		255	1792	190		177	1518	165	204	942	141	177	605	187
Arrive On Green		0.10	0.26	0.25		0.10	0.34	0.33	0.15	0.31	0.30	0.10	0.26	0.25
Sat Flow, veh/h		1774	4625	491		1774	4417	481	1331	3014	451	1774	2337	724
Grp Volume(v), veh/h		445	848	443		202	501	229	179	397	394	158	306	246
Grp Sat Flow(s),veh/h/ln		1774	1681	1754		1774	1695	1508	1331	1741	1724	1774	1720	1341
Q Serve(g_s), s		23.0	36.0	36.0		16.0	18.2	18.8	21.1	32.5	32.6	14.1	25.6	26.8
Cycle Q Clear(g_c), s		23.0	36.0	36.0		16.0	18.2	18.8	21.1	32.5	32.6	14.1	25.6	26.8
Prop In Lane		1.00		0.28		1.00		0.32	1.00		0.26	1.00		0.54
Lane Grp Cap(c), veh/h		255	1303	680		177	1165	518	204	544	539	177	445	347
V/C Ratio(X)		1.74	0.65	0.65		1.14	0.43	0.44	0.88	0.73	0.73	0.89	0.69	0.71
Avail Cap(c_a), veh/h		255	1303	680		177	1165	518	208	544	539	177	445	347
HCM Platoon Ratio		0.67	0.67	0.67		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.92	0.92	0.92	0.93	0.93	0.93	0.97	0.97	0.97
Uniform Delay (d), s/veh		72.3	49.6	49.7		72.0	40.4	40.8	66.2	49.0	49.2	71.1	53.4	54.2
Incr Delay (d2), s/veh		351.0	2.5	4.8		107.1	1.1	2.5	29.6	7.8	7.9	37.7	8.1	11.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		36.2	17.2	18.4		13.1	8.7	8.2	9.4	16.8	16.7	8.7	13.2	11.0
LnGrp Delay(d),s/veh		423.3	52.1	54.5		179.1	41.5	43.3	95.8	56.8	57.1	108.8	61.5	65.6
LnGrp LOS		F	D	D		F	D	D	F	E	E	F	E	E
Approach Vol, veh/h			1736				932			970			710	
Approach Delay, s/veh			147.9				71.8			64.1			73.5	
Approach LOS			F				E			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.0	54.0	20.0	66.0	28.6	45.4	27.0	59.0
Change Period (Y+Rc), s	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Max Green Setting (Gmax), s	14.5	48.5	14.5	60.5	23.5	39.5	21.5	53.5
Max Q Clear Time (g_c+I1), s	10.1	34.6	18.0	38.0	23.1	28.8	25.0	20.8
Green Ext Time (p_c), s	0.0	7.5	0.0	14.9	0.0	6.3	0.0	18.9

Intersection Summary	
HCM 2010 Ctrl Delay	100.7
HCM 2010 LOS	F

Notes

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	70	430	181	0	0	0	0	627	600	170	506	0
Future Volume (veh/h)	70	430	181	0	0	0	0	627	600	170	506	0
Number	7	4	14				5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98				1.00		0.94	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1827				0	1827	1863	1863	1863	0
Adj Flow Rate, veh/h	75	462	82				0	674	379	183	544	0
Adj No. of Lanes	0	1	1				0	2	1	1	2	0
Peak Hour Factor	0.93	0.93	0.93				0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	4	2	4				0	4	2	2	2	0
Cap, veh/h	89	551	524				0	1680	717	384	2096	0
Arrive On Green	0.35	0.35	0.35				0.00	0.48	0.48	0.08	0.59	0.00
Sat Flow, veh/h	258	1591	1515				0	3563	1482	1774	3632	0
Grp Volume(v), veh/h	537	0	82				0	674	379	183	544	0
Grp Sat Flow(s),veh/h/ln	1850	0	1515				0	1736	1482	1774	1770	0
Q Serve(g_s), s	34.8	0.0	4.9				0.0	16.2	23.1	6.3	9.6	0.0
Cycle Q Clear(g_c), s	34.8	0.0	4.9				0.0	16.2	23.1	6.3	9.6	0.0
Prop In Lane	0.14		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	640	0	524				0	1680	717	384	2096	0
V/C Ratio(X)	0.84	0.00	0.16				0.00	0.40	0.53	0.48	0.26	0.00
Avail Cap(c_a), veh/h	640	0	524				0	1680	717	465	2096	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	39.2	0.0	29.4				0.0	21.5	23.2	14.9	12.8	0.0
Incr Delay (d2), s/veh	12.5	0.0	0.6				0.0	0.7	2.8	0.9	0.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	20.0	0.0	2.1				0.0	7.9	9.9	3.1	4.8	0.0
LnGrp Delay(d),s/veh	51.6	0.0	30.0				0.0	22.2	26.0	15.8	13.1	0.0
LnGrp LOS	D		C					C	C	B	B	
Approach Vol, veh/h		619						1053			727	
Approach Delay, s/veh		48.8						23.6			13.8	
Approach LOS		D						C			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4		6		
Phs Duration (G+Y+Rc), s	14.1	66.9		49.0		81.0		
Change Period (Y+Rc), s	5.5	5.5		5.5		5.5		
Max Green Setting (Gmax), s	14.5	55.5		43.5		75.5		
Max Q Clear Time (g_c+I1), s	8.3	25.1		36.8		11.6		
Green Ext Time (p_c), s	0.3	13.0		2.2		15.9		

Intersection Summary	
HCM 2010 Ctrl Delay	27.1
HCM 2010 LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	218	260	250	89	609	0	0	458	80
Future Volume (veh/h)	0	0	0	218	260	250	89	609	0	0	458	80
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		0.97	1.00		1.00	1.00		0.99
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1863	1863	1624	1863	0	0	1847	1900
Adj Flow Rate, veh/h				227	271	43	93	634	0	0	477	52
Adj No. of Lanes				0	2	1	1	2	0	0	2	0
Peak Hour Factor				0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %				2	2	2	17	2	0	0	3	3
Cap, veh/h				774	772	673	378	1737	0	0	1247	135
Arrive On Green				0.44	0.44	0.44	0.06	0.49	0.00	0.00	0.39	0.38
Sat Flow, veh/h				1774	1770	1543	1547	3632	0	0	3281	346
Grp Volume(v), veh/h				227	271	43	93	634	0	0	262	267
Grp Sat Flow(s),veh/h/ln				1774	1770	1543	1547	1770	0	0	1755	1780
Q Serve(g_s), s				9.1	11.2	1.8	3.7	12.2	0.0	0.0	11.7	11.9
Cycle Q Clear(g_c), s				9.1	11.2	1.8	3.7	12.2	0.0	0.0	11.7	11.9
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.19
Lane Grp Cap(c), veh/h				774	772	673	378	1737	0	0	686	696
V/C Ratio(X)				0.29	0.35	0.06	0.25	0.36	0.00	0.00	0.38	0.38
Avail Cap(c_a), veh/h				774	772	673	491	1737	0	0	686	696
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				20.0	20.6	18.0	17.3	17.4	0.0	0.0	24.0	24.1
Incr Delay (d2), s/veh				1.0	1.3	0.2	0.3	0.6	0.0	0.0	1.6	1.6
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				4.6	5.8	0.8	1.6	6.1	0.0	0.0	6.0	6.1
LnGrp Delay(d),s/veh				21.0	21.9	18.2	17.6	18.0	0.0	0.0	25.6	25.7
LnGrp LOS				C	C	B	B	B			C	C
Approach Vol, veh/h					541			727			529	
Approach Delay, s/veh					21.2			17.9			25.6	
Approach LOS					C			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		58.0			11.0	47.0		52.0
Change Period (Y+Rc), s		5.5			5.5	5.5		5.5
Max Green Setting (Gmax), s		52.5			13.5	33.5		46.5
Max Q Clear Time (g_c+I1), s		14.2			5.7	13.9		13.2
Green Ext Time (p_c), s		10.2			0.1	8.1		3.6

Intersection Summary	
HCM 2010 Ctrl Delay	21.2
HCM 2010 LOS	C

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1311	137	10	40	590	360
Future Volume (veh/h)	1311	137	10	40	590	360
Number	6	16	5	2	7	14
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		0.94	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1796	1900	1900	1064	1863	1863
Adj Flow Rate, veh/h	1395	100	11	43	628	383
Adj No. of Lanes	4	0	0	2	2	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	6	6	73	73	2	2
Cap, veh/h	4022	288	140	777	845	389
Arrive On Green	0.68	0.67	0.68	0.68	0.25	0.25
Sat Flow, veh/h	6150	422	136	1188	3442	1583
Grp Volume(v), veh/h	1095	400	26	28	628	383
Grp Sat Flow(s),veh/h/ln	1544	1687	356	920	1721	1583
Q Serve(g_s), s	10.8	11.0	0.6	1.1	18.5	26.5
Cycle Q Clear(g_c), s	10.8	11.0	11.6	1.1	18.5	26.5
Prop In Lane		0.25	0.43		1.00	1.00
Lane Grp Cap(c), veh/h	3159	1150	289	627	845	389
V/C Ratio(X)	0.35	0.35	0.09	0.05	0.74	0.99
Avail Cap(c_a), veh/h	3159	1150	289	627	845	389
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	7.3	7.4	6.0	5.7	38.3	41.3
Incr Delay (d2), s/veh	0.3	0.8	0.6	0.1	3.6	41.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.7	5.3	0.3	0.3	9.2	16.1
LnGrp Delay(d),s/veh	7.6	8.2	6.6	5.9	41.9	83.0
LnGrp LOS	A	A	A	A	D	F
Approach Vol, veh/h	1495			54	1011	
Approach Delay, s/veh	7.8			6.2	57.4	
Approach LOS	A			A	E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		
Phs Duration (G+Y+Rc), s		79.0		31.0		79.0		
Change Period (Y+Rc), s		5.5		5.5		5.5		
Max Green Setting (Gmax), s		73.5		25.5		73.5		
Max Q Clear Time (g_c+I1), s		13.6		28.5		13.0		
Green Ext Time (p_c), s		17.5		0.0		17.5		

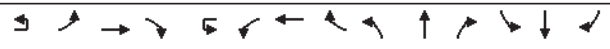
Intersection Summary	
HCM 2010 Ctrl Delay	27.4
HCM 2010 LOS	C

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	170	216	1570	370	130	130
Future Volume (veh/h)	170	216	1570	370	130	130
Number	7	4	8	18	1	16
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			0.96	1.00	0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1802	1900	1863	1900
Adj Flow Rate, veh/h	173	220	1602	306	133	68
Adj No. of Lanes	1	1	4	0	0	0
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	6	6	0	0
Cap, veh/h	158	1035	2207	421	393	201
Arrive On Green	0.09	0.56	0.42	0.41	0.36	0.34
Sat Flow, veh/h	1774	1863	5478	998	1105	565
Grp Volume(v), veh/h	173	220	1425	483	202	0
Grp Sat Flow(s),veh/h/ln	1774	1863	1550	1575	1679	0
Q Serve(g_s), s	8.0	5.4	23.0	23.2	8.0	0.0
Cycle Q Clear(g_c), s	8.0	5.4	23.0	23.2	8.0	0.0
Prop In Lane	1.00			0.63	0.66	0.34
Lane Grp Cap(c), veh/h	158	1035	1963	665	597	0
V/C Ratio(X)	1.10	0.21	0.73	0.73	0.34	0.00
Avail Cap(c_a), veh/h	158	1035	1963	665	597	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	41.0	10.1	21.7	22.1	21.4	0.0
Incr Delay (d2), s/veh	100.0	0.5	2.4	6.8	1.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.3	2.9	10.2	11.2	3.9	0.0
LnGrp Delay(d),s/veh	141.0	10.5	24.0	28.9	23.0	0.0
LnGrp LOS	F	B	C	C	C	
Approach Vol, veh/h		393	1908		202	
Approach Delay, s/veh		68.0	25.3		23.0	
Approach LOS		E	C		C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6	7	8
Phs Duration (G+Y+Rc), s				54.0		36.0	12.0	42.0
Change Period (Y+Rc), s				5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s				48.5		30.5	6.5	36.5
Max Q Clear Time (g_c+I1), s				7.4		10.0	10.0	25.2
Green Ext Time (p_c), s				25.1		0.6	0.0	9.4

Intersection Summary	
HCM 2010 Ctrl Delay	31.8
HCM 2010 LOS	C

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	50	90	1061	210	10	30	709	180	120	300	80	60	140	148
Future Volume (veh/h)	50	90	1061	210	10	30	709	180	120	300	80	60	140	148
Number		7	4	14		3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.89	1.00		0.93	1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1855	1900
Adj Flow Rate, veh/h		96	1129	179		32	754	127	128	319	79	64	149	134
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.94	0.94	0.94		0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	3	3	3
Cap, veh/h		211	2551	404		59	2126	352	99	192	46	86	184	153
Arrive On Green		0.24	1.00	1.00		0.03	0.49	0.48	0.31	0.31	0.30	0.31	0.31	0.30
Sat Flow, veh/h		1774	4402	698		1774	4305	714	227	614	149	189	590	490
Grp Volume(v), veh/h		96	869	439		32	591	290	526	0	0	347	0	0
Grp Sat Flow(s),veh/h/ln		1774	1695	1710		1774	1695	1629	990	0	0	1270	0	0
Q Serve(g_s), s		7.4	0.0	0.0		2.8	17.1	17.6	9.3	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s		7.4	0.0	0.0		2.8	17.1	17.6	50.0	0.0	0.0	40.7	0.0	0.0
Prop In Lane		1.00		0.41		1.00		0.44	0.24		0.15	0.18		0.39
Lane Grp Cap(c), veh/h		211	1964	991		59	1674	804	337	0	0	423	0	0
V/C Ratio(X)		0.46	0.44	0.44		0.55	0.35	0.36	1.56	0.00	0.00	0.82	0.00	0.00
Avail Cap(c_a), veh/h		211	1964	991		155	1674	804	337	0	0	423	0	0
HCM Platoon Ratio		2.00	2.00	2.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.65	0.65	0.65		1.00	1.00	1.00	0.09	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		56.6	0.0	0.0		76.2	24.8	25.2	58.4	0.0	0.0	51.0	0.0	0.0
Incr Delay (d2), s/veh		1.0	0.5	0.9		7.7	0.6	1.3	253.1	0.0	0.0	16.1	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.7	0.1	0.3		1.5	8.1	8.2	38.6	0.0	0.0	16.4	0.0	0.0
LnGrp Delay(d),s/veh		57.6	0.5	0.9		83.8	25.4	26.4	311.6	0.0	0.0	67.1	0.0	0.0
LnGrp LOS		E	A	A		F	C	C	F			E		
Approach Vol, veh/h			1404				913			526			347	
Approach Delay, s/veh			4.5				27.8			311.6			67.1	
Approach LOS			A				C			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2	3	4		6	7	8
Phs Duration (G+Y+Rc), s		54.0	9.3	96.7		54.0	23.0	83.0
Change Period (Y+Rc), s		5.5	5.5	5.5		5.5	5.5	5.5
Max Green Setting (Gmax), s		48.5	12.5	82.5		48.5	17.5	77.5
Max Q Clear Time (g_c+I1), s		52.0	4.8	2.0		42.7	9.4	19.6
Green Ext Time (p_c), s		0.0	0.0	14.1		2.9	0.3	7.4

Intersection Summary	
HCM 2010 Ctrl Delay	68.6
HCM 2010 LOS	E

Notes

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1219	30	50	1073	140	170
Future Volume (veh/h)	1219	30	50	1073	140	170
Number	4	14	3	8	5	12
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1029	1050	1200	1176	1863	1863
Adj Flow Rate, veh/h	1325	33	54	1166	152	185
Adj No. of Lanes	3	0	0	2	1	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	1451	36	59	1131	268	239
Arrive On Green	0.73	0.76	0.76	0.73	0.15	0.15
Sat Flow, veh/h	2515	50	23	1612	1774	1583
Grp Volume(v), veh/h	682	676	589	631	152	185
Grp Sat Flow(s),veh/h/ln	515	1021	564	1017	1774	1583
Q Serve(g_s), s	50.1	50.1	19.9	41.7	7.4	10.5
Cycle Q Clear(g_c), s	50.1	50.1	71.0	41.7	7.4	10.5
Prop In Lane		0.05	0.09		1.00	1.00
Lane Grp Cap(c), veh/h	747	740	473	738	268	239
V/C Ratio(X)	0.91	0.91	1.25	0.85	0.57	0.77
Avail Cap(c_a), veh/h	747	740	473	738	782	698
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	10.4	10.3	17.0	9.2	36.7	38.0
Incr Delay (d2), s/veh	17.5	17.6	127.6	12.1	1.9	5.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.7	17.3	23.0	13.9	3.8	4.9
LnGrp Delay(d),s/veh	27.9	27.9	144.6	21.3	38.6	43.3
LnGrp LOS	C	C	F	C	D	D
Approach Vol, veh/h	1358			1220	337	
Approach Delay, s/veh	27.9			80.9	41.2	
Approach LOS	C			F	D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4				8
Phs Duration (G+Y+Rc), s		18.0		75.0				75.0
Change Period (Y+Rc), s		4.5		4.5				4.5
Max Green Setting (Gmax), s		40.5		70.5				70.5
Max Q Clear Time (g_c+I1), s		12.5		53.1				73.0
Green Ext Time (p_c), s		1.1		14.7				0.0

Intersection Summary	
HCM 2010 Ctrl Delay	51.6
HCM 2010 LOS	D

Intersection	
Int Delay, s/veh	1.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑↑↑↕			↑↑↑		↱
Traffic Vol, veh/h	1611	111	0	944	0	116
Future Vol, veh/h	1611	111	0	944	0	116
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1696	117	0	994	0	122

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	906
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.92
Pot Cap-1 Maneuver	-	-	0	-	0	240
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	240
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	34.6
HCM LOS			D

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	240	-	-	-
HCM Lane V/C Ratio	0.509	-	-	-
HCM Control Delay (s)	34.6	-	-	-
HCM Lane LOS	D	-	-	-
HCM 95th %tile Q(veh)	2.6	-	-	-

Intersection	
Int Delay, s/veh	3.4

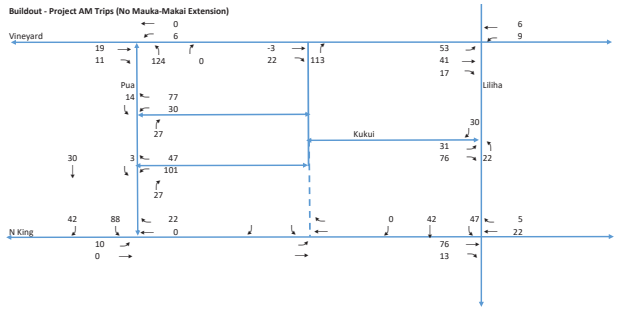
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	20	0	20	73	0	30	30	307	145	15	142	20
Future Vol, veh/h	20	0	20	73	0	30	30	307	145	15	142	20
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	22	0	22	79	0	33	33	334	158	16	154	22

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	692	755	165	687	687	413	176	0	0	491	0	0
Stage 1	198	198	-	478	478	-	-	-	-	-	-	-
Stage 2	494	557	-	209	209	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	358	338	879	361	370	639	1400	-	-	1072	-	-
Stage 1	804	737	-	568	556	-	-	-	-	-	-	-
Stage 2	557	512	-	793	729	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	327	321	879	339	352	639	1400	-	-	1072	-	-
Mov Cap-2 Maneuver	327	321	-	339	352	-	-	-	-	-	-	-
Stage 1	777	724	-	549	538	-	-	-	-	-	-	-
Stage 2	511	495	-	760	717	-	-	-	-	-	-	-

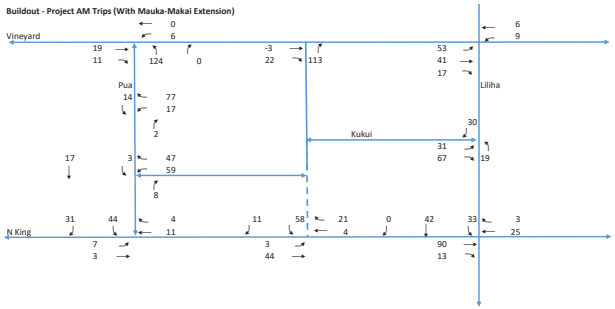
Approach	EB	WB	NB	SB
HCM Control Delay, s	13.3	17.8	0.5	0.7
HCM LOS	B	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1400	-	-	477	393	1072	-	-
HCM Lane V/C Ratio	0.023	-	-	0.091	0.285	0.015	-	-
HCM Control Delay (s)	7.6	0	-	13.3	17.8	8.4	0	-
HCM Lane LOS	A	A	-	B	C	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.3	1.2	0	-	-

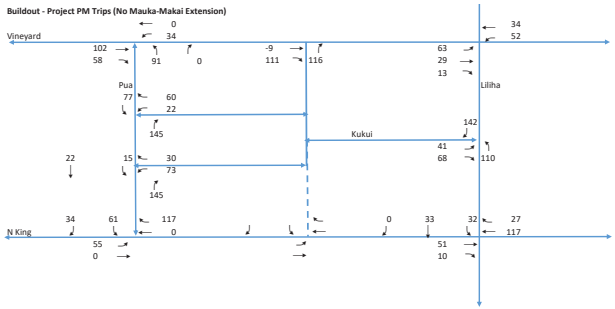
APPENDIX D: MAUKA-MAKAI ROADWAY PROJECT TRIP REASSIGNMENT



Buildout - Project AM Trips (With Mauka-Makai Extension)



Buildout - Project PM Trips (No Mauka-Makai Extension)



Buildout - Project PM Trips (With Mauka-Makai Extension)

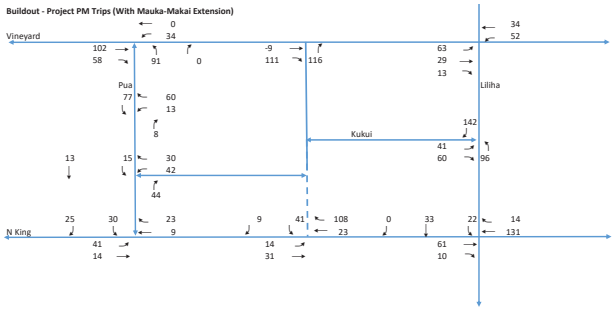


EXHIBIT 22

December 26, 2018

Thomas Lee
MWH Partners, LLC
737 Bishop Street, Suite 2750
Honolulu, Hawaii 96813

Dear Mr. Lee:

Re: Mayor Wright Housing - Redevelopment
TMK: 1-7-029:003

This is in response to your request for a "Will Serve" letter for the above project location.

We have an existing distribution circuit on Pua Lane that could be used to serve your initial Phase 1/1A development. However, to feed your future Phase 2 and beyond, new circuits will need to be installed. These future circuits are being proposed to emanate from our Iwilei 25kv substation located along Kuwili Street. Please keep in mind that new electrical infrastructure (ductline/manholes) will need to be constructed to extend these circuits from Iwilei substation to the project site.

Please let us know if we can be of assistance in any other way. Should you have any questions, please call me at 543-7590.

Sincerely,

Eric Shimono
Sr. Engineer
Planning & Design Division
Customer Installation Dept.

ES/GF:ks

FIGURE 23

DRAFT SOCIO-ECONOMIC IMPACT ASSESSMENT OF REDEVELOPMENT
MAYOR WRIGHT HOMES
HONOLULU, HAWAIʻI

AUGUST 2017

Prepared for:
PBR Hawaii & Associates
The Hunt Companies
Hawaiʻi Public Housing Authority

Prepared by:
BELT COLLINS HAWAII LLC
2153 North King Street, Suite 200
Honolulu, Hawaiʻi 96819

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Abbreviations and Acronyms

ACS	American Community Survey
ADA	Americans with Disabilities Act
ADUs	Additional Dwelling Units
AMI	Area Median Income
BCH	Belt Collins Hawaii LLC
Board	Kalihi-Pālama Neighborhood Board (No. 15)
City	City and County of Honolulu
CT	Census Tract
DBEDT	Hawai‘i State Department of Business, Economic Development and Tourism
DLIR	Hawai‘i State Department of Labor and Industrial Relations
EIS	Environmental Impact Statement
FACE	Faith Action for Community Equity
HCDA	Hawai‘i Community Development Authority
HOPE VI	Program of mixed-income housing redevelopment grants, HUD, from 1996; currently replaced by Choice Neighborhoods program
HPHA	Hawai‘i Public Housing Authority
HUD	U.S. Department of Housing and Urban Development
Hunt	The Hunt Companies
KPHC	Kalihi-Pālama Health Center
KPT	Kuhio Park Terrace
MWH	Mayor Wright Homes
OCCC	O‘ahu Community Correctional Center
PACT	Parents and Children Together
PBR	PBR Hawai‘i & Associates, Inc.
U.S.	United States
YMCA	Young Men’s Christian Association
ZCTA	Zip Code Tabulation Area

1 Introduction

1.1 Purpose of this Report

This report is intended as an appendix to the Environmental Impact Statement for Redevelopment of Mayor Wright Homes (MWH). A socio-economic impact assessment provides information about existing conditions and the likely impacts of a proposed action. It is written to provide stakeholders and decision-makers with information needed to consider the proposed action.

The report is based on research conducted in 2016 and 2017. Community and resident meetings were held throughout the master plan process which informed the residents about redevelopment plans and provided them an opportunity to raise their concerns. These meetings spanned over a year from May 2016 to June 2017. Belt Collins Hawaii (BCH) staff attended a Community Advisory Committee meeting and a public meeting at MWH in June 2017. Interviews were held with selected persons who could provide information about the surrounding community and the process of renovation or redevelopment of public housing on O'ahu. In addition, a Human Capital report for MWH prepared as part of the Master Plan process was reviewed.[1]

1.2 The Proposed Redevelopment

1.2.1 Mayor Wright Homes

Mayor Wright Homes (or Housing) is a public housing complex developed by the State of Hawai'i public housing agency in 1952.[2] It includes 364 units in low-rise structures on approximately 15 acres of land owned by the State of Hawai'i. It has been administered by the State's housing agency since it was built. While there have been extensive renovations, maintenance problems have been serious in this aging complex, and the Hawai'i Public Housing Authority (HPHA) has considered redevelopment of the site for a decade or more.

1.2.2 Private-Public Partnership

Redevelopment will involve a greater commitment of funds than HPHA alone can raise. It also offers the opportunity to consider a mixed-use and mixed-income project instead of one consisting solely of low-income housing. HPHA has entered into a preliminary master development agreement with the Hunt Companies (Hunt) to redevelop MWH as a mixed-income, mixed-use development to be managed by Hunt. The redeveloped MWH could include up to 2,500 housing units, including the one-for-one replacement of the 364 public housing units now on site. Commercial development would focus on the needs of the immediate neighborhood and could include up to 80,000 SF. In this analysis, these maximum figures are used to estimate potential impacts.

1.2.3 Phasing and Relocation

Redevelopment will involve demolition of existing structures and construction of the new project. It will be done in phases. Current plans call for five phases over about ten years, starting in 2019.

The transition plan is still being developed but several options are being considered including relocation to other sites or in Section 8 rentals. To minimize displacement, another option would be to move existing residents into new housing at MWH as the redevelopment is built. All tenants in good standing will have the first right to return to new public housing units in MWH as the redevelopment is completed if they desire.

Hunt plans to include housing for several income levels in each phase, but may be subject to financing and market forces. Figure 1-1 is a preliminary plan for the development.

1.3 Summary of Impact Analysis

The major social impact of the project is the provision of much needed new rental housing for low- and moderate-income households in urban O'ahu.

The redevelopment will bring complex changes at MWH. Residents of MWH will need to move from their homes to other housing units, either off-site or in new MWH blocks. Construction can cause temporary environmental impacts and disruption. The project population will increase, and will include a mix of income levels. MWH will be a much denser development but will come to consist entirely of new housing units. It will also be a mix of lower-rise buildings along the surrounding streets and up to four taller structures. Structured parking will be located internally to the blocks with the lower-rise buildings wrapped around the parking areas.

After redevelopment, the project's 2,500 units will have a population of approximately 7,300 persons. Construction will generate a total of approximately 9,275 jobs over ten years (i.e., about 928 jobs each year, on average) throughout the economy. On site jobs, including management and other commercial employment such as retail, office and service jobs, would grow to some 380 direct jobs, an increase of 354 over the current level.[3]

[1] Concordia. *Human Capital Report: Mayor Wright Homes*. 2016.

[2] The Hawai'i Public Housing Authority (HPHA) has undergone re-organization over the years. From 1935 to 1998, it was the Hawai'i Housing Authority; from 1998 to 2005, development and management responsibilities were combined in a single agency, the Housing and Community Development Corporation of Hawai'i. The Housing Finance Development Corporation was separated out in 2005, leaving HPHA as the agency managing state and federal low income housing and associated programs, such as the Section 8 voucher program. HPHA was responsible for homeless service programs as well until 2006, when these were transferred to the Department of Human Services.

[3] Population and employment ratios used to generate these estimates are shown in Sections 3.2 and 3.3.

Figure 1-1: Preliminary Plan for Mayor Wright Homes

The project brings a significant increase in population to an area that has seen little change in recent years. It replaces a deteriorated public housing project with a new mixed-income, mixed use development. It is likely to attract young, moderate-income residents from nearby communities, in search of affordable homes near the urban center. With a community center and commercial area on-site, the new MWH will provide greater amenities, as well as much better housing, than the current housing complex.

Fiscal impacts of the project include taxes on workers' incomes and spending, along with corporate income taxes on construction. School impact fees could be a large share of the State's revenues associated with construction (up to $20 million of $63.6 million over the ten-year development period.)[4] City and County of Honolulu (City) revenues would derive from real property taxes on the commercial area in the project and from the City's share of General Excise Tax, and could amount to approximately $3.4 million over the development period.

HPHA and Hunt have taken steps that will avoid tensions that have arisen in mixed-income projects on the Mainland U.S.[5]: public housing units will be replaced one for one based on the number of bedrooms in the existing units; residents in good standing are promised a right of return; units at different rent levels will be integrated as much as possible into the new blocks; and all units will be rentals.

Management of a complex redevelopment project demands continuing communication with residents and the surrounding community to avoid misunderstandings and promote cooperation. Respectful, continuing communication will help to minimize adverse social impacts of redevelopment.

In sum, the redevelopment would involve significant social impacts, both by adding new units to the supply of rental housing and by a process that will involve stress for MWH residents but offer new housing by the end of the redevelopment period.

[4] All monetary values are in constant 2017 dollars, i.e., do not include inflation. They are based on current tax and fee structures.

[5] Mainland cases are cited and discussed in Section 3.5 of this report.

2 The Socio-Economic Context

2.1 Public Housing in Honolulu

The history of public housing development in Honolulu began with crises. In 1900, a fire in Chinatown displaced many residents and brought attention to living conditions of the poorest urban residents. After the fire, the Kalihi-Pālama area emerged as the area with the largest concentration of poor residents.

The U.S. government was a major provider of housing for military personnel, beginning well before World War II. After the attack on Pearl Harbor, housing was needed for shipyard workers and as emergency housing in case of any further Japanese attack on O'ahu. Notably, Pālolo Valley was used for emergency housing. After the war, much of the land occupied by wartime quarters was then used for the Pālolo Homes and Pālolo Valley Homes projects built by the Hawai'i Housing Authority in 1957.

State and federal funding made it possible for the Hawai'i Housing Authority to develop over 1,750 family housing units by the end of the 1950s.[6] In Honolulu, housing projects were concentrated in Kalihi/Palama. (Figure 2-1 shows major HPHA family housing sites in Honolulu.) Urban redevelopment nearer Downtown Honolulu was largely accomplished with a combination of federal, State, City and private initiatives, with the resulting projects owned by private developers.[7]

In later decades, federal funding for low-income housing development was reduced. Funding for the upkeep of existing projects operated by HPHA continued. However, some HPHA projects had been built with State funds, not federal ones, and HPHA lacked resources to rehabilitate these. In Pālolo Valley, the project built with federal funds remains a HPHA property, while Pālolo Homes was transferred to Mutual Housing, a non-profit that could seek federal and charitable funding for renovation. New subsidized housing is now largely supported by Low Income Housing Tax Credits, administered in Hawai'i by the State's Housing Finance and Development Corporation. These funding streams bring together federal and State support with private for-profit and non-profit developers. Local government policies supporting inclusionary development have spurred developers to use such credits.

[6] Hawai'i Public Housing Authority, *Annual Report, Fiscal Year 2015-2016.* Posted at http://www.hpha.hawaii.gov/reportsstudies/reports/2016%20HPHA%20Annual%20Report.pdf, viewed April 2017.

[7] Government funding supporting low-income housing by private developers typically has stipulated a period in which rents must stay at low to moderate levels, after which the property owner could raise rents or convert the property to condominiums. In Honolulu, this issue became critical at Kukui Gardens, across from MWH, around 2010. The owner was willing to sell the project to a for-profit developer. A collaborative effort involving the State's Housing Finance and Development Corporation resulted in much of Kukui Gardens being renovated, but still rented at subsidized levels, while the remaining section, now Waena, is rented at market rates. On the issue of "preserving" affordable housing, see A. von Hoffman, "To Preserve Affordable Housing in the United States: A Policy History." Working Paper, Joint Center for Housing Studies of Harvard University. 2016. Posted at http://www.jchs.harvard.edu/sites/jchs.harvard.edu/files/von_hoffman_to_preserve_affordable_housing_april16.pdf

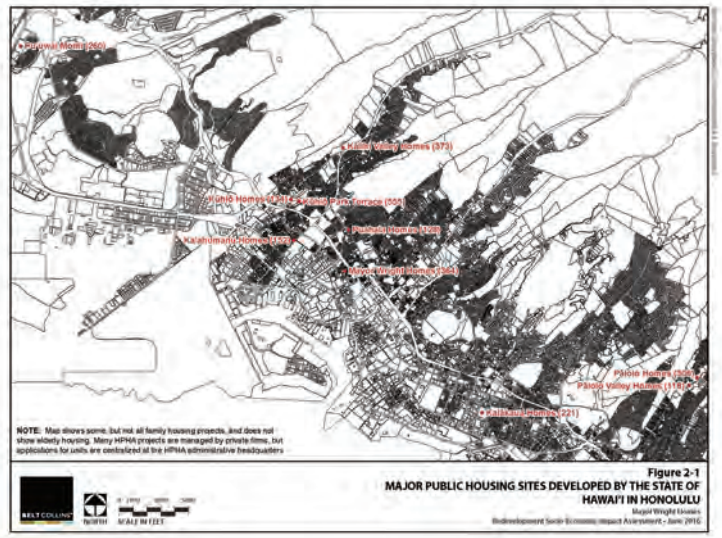


Figure 2-1
MAJOR PUBLIC HOUSING SITES DEVELOPED BY THE STATE OF HAWAI'I IN HONOLULU

The City has also developed public housing, mainly in Chinatown, east of Kalihi-Pālama. The City, like HPHA, can administer Housing Choice ("Section 8") vouchers, but does not have a unified housing office. Instead, private management firms work with applicants and residents in each building. Some non-profit developers and the State's Housing Finance and Development Corporation have developed new units for low-income households in recent years, but for families with incomes higher than the limit for public housing.

2.2 The Kalihi-Pālama Neighborhood

The *Kalihi-Pālama Action Plan* describes the neighborhood as follows:

> *Kalihi-Pālama is a diverse community with a variety of cultures and economic activities. A very high percentage of the population is of Asian ancestry compared to the rest of O'ahu and the State, and many are foreign born. The area is generally characterized by stable, single-family, residential neighborhoods. Economically, Kalihi-Pālama contains a large industrial area, Honolulu Harbor, and many small businesses. Institutionally, the area has three hospitals, the Oahu Community Correctional Center, and the Honolulu Community College, as well as public and private schools. Significantly, approximately 50% of Oahu's public housing stock is located in Kalihi-Pālama.*[8]

Major employment centers for Honolulu before World War II were the canneries in 'Iwilei and the harbor, as well as Pearl Harbor shipyard. Kalihi-Pālama was filled with housing for the working population. Chinatown and Kalihi-Pālama also served as points of entry for immigrants and migrants from plantation areas to the urban center.

Nowadays, Kalihi-Pālama contains a mix of housing and commercial activities. Many of the roads in the area are much more narrow than in areas built to current codes. Housing varies greatly in age and condition. In addition to the public housing complexes shown in Figure 2-2, other low- and mid-rise projects initially developed with federal urban renewal funds and owned by private parties extend from MWH towards the Honolulu Downtown area. Commercial activity includes not only neighborhood stores but also large retail outlets – Costco, Home Depot, Lowe's and Best Buy – in Iwilei. Kalihi-Pālama is easily accessible by the H-1 Freeway and is on major bus routes, while Downtown and Chinatown markets are in walking distance.

The Walk Score® methodology characterizes the MWH area as "very walkable," with a score of 89 of a possible 100, with "excellent transit" (76) in an area that is "bikeable" (57). The lower bike score is due to the lack of bike lanes on nearby streets.[9]

[8] Townscape, Inc. *Kalihi-Pālama Action Plan.* Prepared for City and County of Honolulu Department of Planning and Permitting, and Kalihi-Pālama Vision Group 6. Honolulu, HI 2004. Posted at http://www.honoluludpp.org/Portals/0/pdfs/planning/SpecialAreaPlans/KPAP(2004).pdf.

[9] https://www.walkscore.com/score/1420-liliha-st-honolulu-hi-96817. Viewed July 24, 2017.

2.2.1 Mayor Wright Homes since 2000

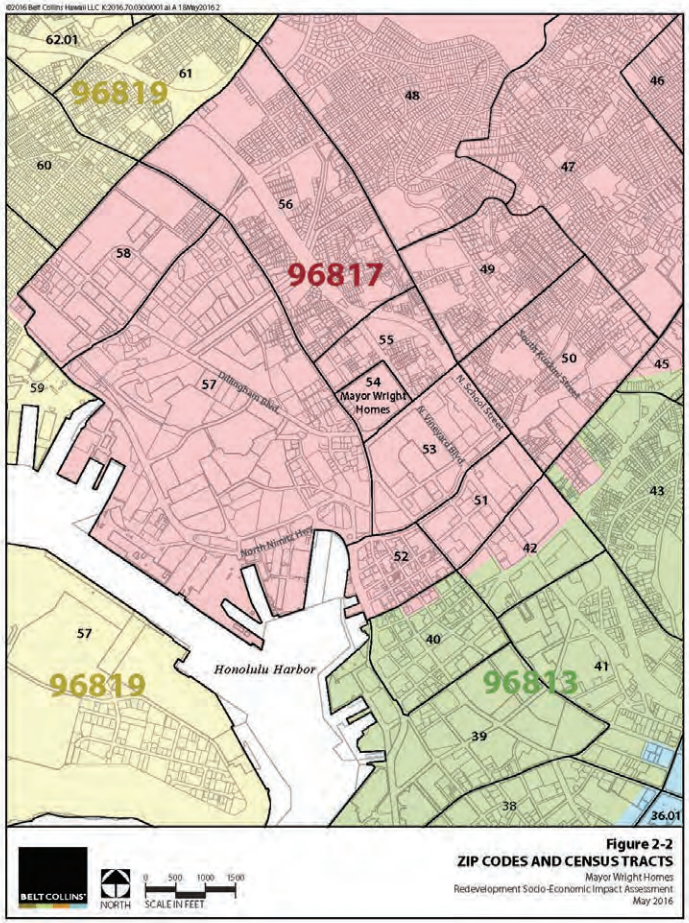
When the Weed and Seed program was introduced, public housing residents responded by forming Neighborhood Watch groups. More recently, residents have welcomed curfews on vehicles driven by non-residents.

Over the years, maintenance problems at MWH became serious and widespread.[10] Residents lacked hot water for months at a time, and sued for improved maintenance. In addition, MWH lacks Americans with Disabilities Act compliant units. The suit was settled in 2015 and repairs have been made. HPHA administration and staff report that conditions have significantly improved, and the project is 99% occupied.

2.2.2 Demographics

The American Community Survey (ACS) is conducted annually. Unlike the decennial Census, it reaches only a sample of the population. Annual and five-year data are released. The five-year data – recently, for 2010 through 2014 – are based on data from about 15 percent of the households in any area for which data are reported. For Kalihi-Pālama and MWH, ACS data provide a more recent demographic snapshot than the 2010 Census. Figure 2-2 shows the Census Tracts (CT) surrounding MWH and much of the 96817 Zip Code area.

[10] HHF Planners, *Hawai'i Public Housing Authority, Physical Needs Assessment, Mayor Wright Homes, Honolulu, O'ahu, AMP 32, HPHA No. 1003.* Prepared for Hawai'i Public Housing Authority. Honolulu, 2013.



NOTE: The 96817 Zip Code area extends inland to the Koʻolau mountain ridge; ʻĀlewa Heights and the Kamehameha Schools campus are included in the ZCTA but not shown here.

Tables 2-2 to 2-7 provide characteristics of the social conditions in Pālama and in MWH. Major points that emerge from the data include:

For MWH (CT 54)

- The population was young (median age of 20.7 years);
- The bulk of the population (74.1 percent) were Native Hawaiians or other Pacific Islanders;
- Households were usually large (3.92 persons per household);
- All residents were in rental housing;
- Unemployment was high (17.7 percent);
- More than half the people lived on incomes below the poverty level; three-quarters of the young people lived in poverty; and
- Of the senior population, two-thirds were physically disabled.

For the 96817 Zip Code Tabulation Area *(ZCTA)*

- The population amounted to 5.7 percent of the City and County total;
- The population was relatively old (with a median age of 44.4 years, compared to 37.2 years for the entire City population);
- Most of the population (76.8 percent) was identified as Asian;
- While half the population was Hawaiʻi-born, over a third were foreign born;
- The average household size (2.82 persons per household) was below the island average (3.03), and well below the MWH average (3.92);
- More than half the households were renters; and
- While unemployment was low, the incidence of poverty (16.0 percent of the population) was much higher than for the island as a whole (9.8 percent).

Table 2-2: Demographic Characteristics, from 2014 Five-Year ACS

	City and County of Honolulu	ZCTA 96817 Pālama Iwilei	CT 53 A'ala	CT 54 Mayor Wright Homes	CT 55 Pālama	CT 57 Iwilei
Population						
Total Population	975,690	55,601	3,810	1,571	2,003	2,475
Under 5 years	63,691	2,466	70	170	91	100
5 to 9 years	57,223	2,968	96	150	137	180
10 to 14 years	58,239	3,022	159	221	101	77
15 to 19 years	57,388	2,630	132	200	150	40
65 to 74 years	76,422	5,382	332	65	128	157
75 to 84 years	46,211	3,974	300	53	116	28
85 years and over	25,220	2,709	146	0	14	31
Median age (years)	37.2	44.4	35.9	20.7	38.0	37.1
Race (alone or in combination)						
White	37.9%	19.9%	18.5%	13.4%	7.1%	26.8%
Black or African American	4.0%	2.3%	9.4%	4.7%	0.9%	2.6%
American Indian and Alaska Native	2.1%	1.8%	1.0%	4.5%	1.2%	2.1%
Asian	60.9%	76.8%	75.6%	26.0%	91.5%	64.2%
Native Hawaiian and Other Pacific Islander	23.7%	18.4%	5.9%	74.1%	15.0%	22.3%
Some other race	2.5%	2.1%	2.8%	1.8%	2.4%	0.4%
Average Number of Race Identifications/Person	1.31	1.21	1.13	1.25	1.18	1.18
Hispanic (of any race)	8.9%	5.8%	8.0%	10.8%	6.3%	5.4%
Place of Birth						
Hawai'i	53.5%	50.2%	29.1%	42.1%	34.1%	37.0%
Other state	23.5%	11.2%	17.5%	2.6%	4.0%	16.0%
US Island	3.6%	3.3%	1.7%	8.7%	1.3%	4.8%
Foreign born	19.4%	35.3%	51.8%	46.6%	60.5%	42.2%

SOURCE: U.S. Census data profiles from American Community Survey 5-year results, for period ending in 2014, downloaded from http://census.hawaii.gov/acs/acs-2015/.

Table 2-3: Housing Characteristics, from 2014 Five-Year ACS

	City and County of Honolulu	ZCTA 96817 Pālama Iwilei	CT 53 A'ala	CT 54 Mayor Wright Homes	CT 55 Pālama	CT 57 Iwilei
Housing and Households						
Total housing units	339,830	20,247	1,594	420	626	912
Occupied housing units	310,141	18,977	1,515	401	573	894
Vacant housing units	29,689	1,270	79	19	53	18
HOUSEHOLDS BY TYPE						
Total households	310,141	18,977	1,515	401	573	894
Households with one or more people under 18 years	106,347	5,047	212	241	207	194
Households with one or more people 65 years and over	99,009	8,011	604	99	178	140
Average household size	3.03	2.82	2.50	3.92	3.49	2.22
Median household income (dollars)	73,581	53,282	37,169	22,743	36,094	36,944
HOUSING TENURE						
Occupied housing units	310,141	18,977	1,515	401	573	894
Owner-occupied	54.9%	40.4%	11.2%	0.0%	32.8%	13.8%
Renter-occupied	45.1%	59.6%	88.8%	100.0%	67.2%	86.2%
Average household size of owner-occupied unit	3.22	3.07	2.66	-	4.04	2.37
Average household size of renter-occupied unit	2.80	2.64	2.48	3.92	3.22	2.20
OCCUPANTS PER ROOM						
Occupied housing units	310,141	18,977	1,515	401	573	894
1.00 or less	91.4%	87.6%	87.1%	73.8%	79.6%	69.9%
1.01 to 1.50	5.7%	7.3%	9.6%	19.0%	10.1%	10.0%
1.51 or more	2.9%	5.1%	3.4%	7.2%	10.3%	20.1%
HOUSING COSTS						
Share of households paying > 35% of income for housing (for households with rent or mortgage data)						
Owners	26.6%	21.4%	34.3%	NC	25.0%	41.5%
Renters	51.9%	38.6%	36.8%	37.8%	43.6%	46.1%

Table 2-4: Employment, from 2014 Five-Year ACS

	City and County of Honolulu	ZCTA 96817 Pālama Iwilei	CT 53 A'ala	CT 54 Mayor Wright Homes	CT 55 Pālama	CT 57 Iwilei
EMPLOYMENT STATUS						
Population 16 years and over	519,554	46,528	3,463	998	1,661	2,118
In labor force	480,618	28,657	2,149	503	1,133	1,382
Civilian labor force	452,324	28,292	2,066	503	1,127	1,270
Percent Unemployed	5.9%	5.6%	7.5%	17.7%	8.1%	6.0%

Table 2-5: Commuting, from 2014 Five-Year ACS

	City and County of Honolulu	ZCTA 96817 Pālama Iwilei	CT 53 A'ala	CT 54 Mayor Wright Homes	CT 55 Pālama	CT 57 Iwilei
COMMUTING TO WORK						
Workers 16 years and over	480,392	26,541	1,942	406	1,017	1,302
Car, truck, or van -- drove alone	64.2%	48.3%	33.5%	42.9%	30.5%	36.6%
Car, truck, or van -- carpooled	14.7%	15.2%	11.1%	17.0%	20.2%	9.1%
Public transportation (excluding taxicab)	8.4%	18.7%	29.3%	26.8%	30.2%	30.4%
Walked	5.2%	9.7%	15.8%	4.2%	10.0%	15.7%
Other means	4.0%	5.3%	9.7%	9.1%	6.8%	3.0%
Worked at home	3.5%	2.7%	0.7%	0.0%	2.4%	5.3%
Mean travel time to work (minutes)	27.6	21.5	26.8	26.8	28.1	27.3

Table 2-6: Incidence of Poverty, from 2014 Five-Year ACS

	City and County of Honolulu	ZCTA 96817 Pālama Iwilei	CT 53 A'ala	CT 54 Mayor Wright Homes	CT 55 Pālama	CT 57 Iwilei
PERCENTAGE OF PEOPLE WHOSE INCOME IN THE PAST 12 MONTHS IS BELOW THE POVERTY LEVEL						
All people	9.8%	16.0%	22.2%	56.8%	17.5%	30.2%
Under 18 years	13.0%	22.6%	25.8%	76.3%	22.2%	23.6%
18 to 64 years	9.3%	14.6%	22.9%	41.7%	13.5%	31.2%
65 years and over	7.0%	14.1%	17.9%	48.3%	31.8%	31.9%

Table 2.7: Disability Status, from 2014 Five-Year ACS

	City and County of Honolulu	ZCTA 96817 Pālama Iwilei	CT 53 A'ala	CT 54 Mayor Wright Homes	CT 55 Pālama	CT 57 Iwilei
DISABILITY STATUS OF THE CIVILIAN NONINSTITUTIONALIZED POPULATION						
Total Civilian Noninstitutionalized Population	926,743	54,295	3,727	1,571	1,997	2,296
With a disability	10.6%	13.4%	11.8%	12.2%	5.4%	16.3%
Under 18 years	212,474	10,072	397	662	379	369
With a disability	3.2%	3.5%	2.3%	4.1%	1.8%	0.0%
18 to 64 years	569,717	32,915	2,552	791	1,360	1,711
With a disability	7.5%	9.1%	6.0%	10.9%	4.7%	19.4%
65 years and over	144,552	11,308	778	118	258	216
With a disability	33.8%	34.5%	35.7%	66.1%	14.0%	19.9%

The U.S. Census approaches "race" in terms of a few categories, and then treats finer distinctions of ethnicity as "ancestry." From the 2014 Five-Year ACS, more information is available about ancestry for people who only reported themselves as of one "race." (See Table 2.7.) Among Asians, Vietnamese (with 6.2 percent of the population) form the largest group in MWH. Among the Pacific islanders, some 14.3 percent of the total population are identified as Samoan but nearly half of the total population is simply classified as "Other Pacific Islander." The Census counts various Micronesian ancestries, but does not show them in a profile for these Census Tracts.

In the 2010 Census, the MWH population included 1,637 persons, of whom 812 were Native Hawaiians or other Pacific Islanders. Some 606 of these were identified as Micronesian, in 98 housing units (with an average household size of 6.17 persons/household).[11]

[11] The 2010 Census count also included 139 Chuukese in 22 units in Census Tract 54. It is not clear whether these were also included in the "Micronesian" group. Information for Marshallese or Kosraeans was not available, since these groups did not have 100 persons in the Census Tract.

Table 2-8: Ancestry, from 2014 Five-Year ACS

	City and County of Honolulu	ZCTA 96817 Pālama Iwilei	CT 53 A'ala	CT 54 Mayor Wright Homes	CT 55 Pālama	CT 57 Iwilei
One race	77.7%	84.5%	88.8%	85.3%	87.9%	86.5%
White	21.5%	9.3%	8.3%	0.8%	1.2%	15.2%
Black or African American	2.5%	1.1%	6.5%	0.0%	0.0%	1.9%
American Indian and Alaska Native	0.2%	0.2%	0.0%	0.0%	0.0%	0.4%
Asian	43.2%	64.8%	70.1%	18.2%	80.5%	56.8%
Asian Indian	0.2%	0.2%	0.0%	0.0%	0.3%	0.5%
Chinese	5.4%	20.3%	40.9%	3.4%	42.7%	12.8%
Filipino	14.7%	16.8%	8.4%	4.0%	26.0%	30.3%
Japanese	15.4%	16.3%	6.6%	1.7%	3.0%	5.4%
Korean	2.0%	2.9%	8.7%	0.0%	2.4%	3.8%
Vietnamese	1.0%	3.2%	0.2%	6.2%	1.9%	1.6%
Other Asian	4.5%	5.1%	5.3%	2.9%	4.1%	2.5%
Native Hawaiian and Other Pacific Islander	9.4%	8.9%	2.6%	64.7%	5.1%	11.7%
Native Hawaiian	5.0%	3.1%	2.0%	1.9%	1.8%	1.9%
Guamanian or Chamorro	0.2%	0.0%	0.5%	0.0%	0.0%	0.0%
Samoan	1.6%	1.9%	0.0%	14.3%	0.3%	4.2%
Other Pacific Islander	2.5%	3.8%	0.1%	**48.5%**	2.9%	5.5%
Some other race	0.9%	0.3%	1.3%	1.7%	1.0%	0.4%
Two or more races	22.3%	15.5%	11.2%	14.7%	12.1%	13.5%
White and Black or African American	0.3%	0.6%	2.7%	0.0%	0.0%	0.0%
White and American Indian and Alaska Native	0.5%	0.3%	0.9%	0.0%	0.0%	0.5%
White and Asian	5.3%	3.3%	2.8%	1.2%	0.4%	2.2%
Black or African American and American Indian	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%

2.2.3 Economic Census Data

The Census Bureau publishes annual business and payroll data by zip code. These can be further broken out by industry and size of establishment.[12] A total of 27,950 workers were counted in establishments in this ZCTA. That number is just below the number of persons employed at establishments in the area. About a quarter of these were employed in establishments with 25 to 49 employees; nearly the same number were in the next two larger classes (50 to 99 and 100 to 249 employees).

As of 2013, the most common businesses in the area were in health care followed by retail trade. About 5,500 jobs in the area were in health care. Three establishments employed 250 or more persons in 2013.

[12] An establishment can be a firm or a separate local division of a larger firm. Typically, agencies and firms with statewide administration do not break out employment by actual place of work, so this analysis likely undercounts total employment in the area.

Table 2.9: Establishments by Industry, 2013, for ZCTA 96817

	Establishments		
	Number	*Share*	*Industry Share of Workforce*
Agriculture	9	0%	0%
Construction	122	7%	6%
Manufacturing	86	5%	7%
Wholesale trade	160	9%	8%
Retail trade	245	13%	12%
Transportation and warehousing	30	2%	4%
Information	36	2%	2%
Finance and insurance	67	4%	4%
Real estate and rental and leasing	79	4%	1%
Professional, scientific, and technical services	134	7%	5%
Management of companies and enterprises	27	1%	3%
Administrative and support and waste management and remediation services	85	5%	8%
Educational services	29	2%	2%
Health care and social assistance	298	16%	19%
Arts, entertainment, and recreation	14	1%	2%
Accommodation and food services	201	11%	12%
Other services (except public administration)	192	11%	5%
Industries not classified	1	0%	0%
	1815	100%	100%

NOTE: Workforce data are presented for ranges (establishments with 1-4 employees, 5-9 employees, etc.). The number of workers in each industry is estimated here using the midpoints of these ranges.
SOURCE: U.S. Census (www.census.gov)

Over the ten-year period from 2004 to 2013, the local workforce and salaries in the ZCTA have declined:

Figure 2-3: Total Employment and Average Annual Pay, ZCTA 96817

2.2.4 Community Resources and Organizations

Kalihi-Pālama has several well-established community organizations and service providers:

- Pālama Settlement was founded near the MWH site, but then moved to its current site at Pālama and Vineyard Streets. It has provided youth services for decades, notably athletic programs that support academic participation. Senior programs are held on week days. Other community services include monthly food bank distributions at MWH and after school and pre-Kindergarten programs at Pālama Settlement. Pālama Settlement also hosts an alternative education program for high-school age youth.

- Pacific Gateway Center provides services to the immigrant communities in the area, including help with immigration processing and other permits, language classes, translation services, and economic development activities, including job training, microloans, and a certified kitchen incubator.

- Churches have played an important role in supporting Pālama's people. Near MWH, Kaumukapili Church and St. Elizabeth's Episcopal Church have long been involved in community outreach activities. St. Elizabeth's and Aldersgate Methodist (on Liliha Street, next to MWH) are members of Faith Action for Community Equity (FACE), which has advocated for public housing residents and for homeless and low-income residents. FACE sponsored a detailed assessment of deteriorated physical conditions at MWH.[13]

  At present, St. Elizabeth's serves as home to We Are Oceania, a one-stop service provider for Micronesians. MWH is in the parish of the Co-Cathedral of St. Theresa on School Street, and many residents are parishioners.

- Community Health Centers include Kalihi-Pālama Health Center (KPHC), located at King Street and Kohou Street, with outreach services in 'Iwilei in Downtown Honolulu, and Kōkua Kalihi Valley, located near Kūhiō Park Terrace (KPT). KPHC is currently planning a new central facility across Pua Lane from MWH.

- Additional service providers include the Kalihi-Pālama Young Men's Christian Association (YMCA), the Susannah Wesley Center, and Parents and Children Together (PACT). PACT is based at KPT, where it has youth, family and economic development programs, along with both Early Head Start and Head Start programs. PACT also runs domestic violence prevention and treatment centers, along with sites for non-custodial parents' visits with their children.

[13] *Mayor Wright Housing Tenants Needs Assessment. Honolulu, 2011.* Posted at http://facehawaii.org/issues/affordable-housing/housing-documents/.

MWH is within the McKinley High School catchment area. McKinley and Central Middle School enrollments have declined in recent decades. The elementary schools surrounding MWH are Likelike, Ka'iulani, and Kauluwelu. All of these are in the McKinley catchment area.

The Kalihi-Pālama Neighborhood Board (Number 15) is an elected citizen body, providing a forum for community engagement with various state and county agencies. Neighborhood Boards have advisory functions, notably in relation to development projects seeking City and County permits. The Kalihi-Pālama Neighborhood Board meets monthly. Initial plans for the MWH Redevelopment were presented to the Board in April 2016 with subsequent updates in May and October 2016. The Liliha / Puunui / 'Ālewa / Kamehameha Heights Neighborhood Board (Number 14) was also briefed in May 2016.

Ad hoc groups of local stakeholders have been involved in community planning initiatives. Local residents provided input for transit-oriented development planning from 2011 to 2014. Future use of the O'ahu Community Correctional Center site has also been considered by local political representatives and presented to interested community participants.

MWH had an active resident board for many years, that sponsored events for the resident community. The board was disbanded, and no replacement board was formed.

2.3 Trends Affecting the Community

2.3.1 Housing Supply and Demand on O'ahu

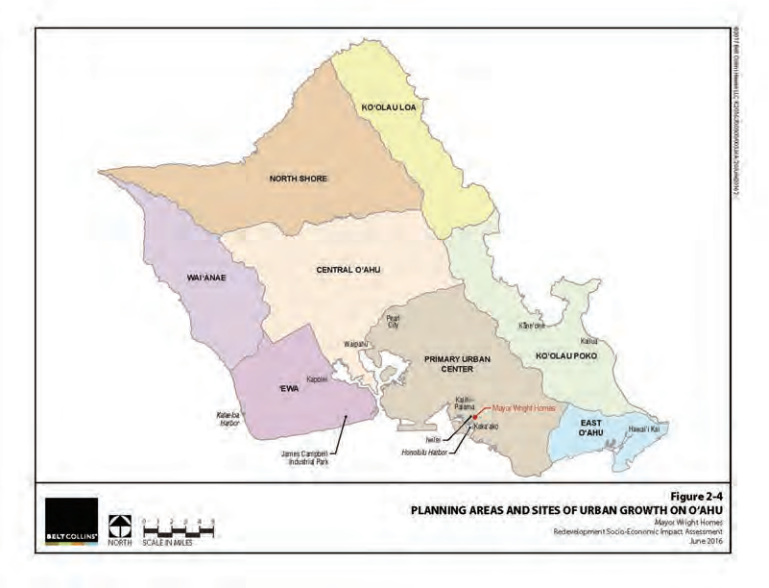
In the late 1950s and 1960s, concentrated development of low-income housing and rental housing occurred in the Honolulu urban area. The federal loan programs that supported dense urban housing development by both local government and private developers were reduced and replaced by the mid-1970s by block grants to local governments.

Single family development occurred in areas such as Kailua, Hawai'i Kai and Pearl City, where residents could buy homes and lots but commute to town for work. By the mid-1970s, planners recognized that the spread of housing on O'ahu, combined with the concentration of employment in the Honolulu/Pearl Harbor area, could best be managed by encouraging industrial, commercial and residential growth in West O'ahu. Kapolei was identified as "the Second City," with the James Campbell Industrial Park and Kalaeloa Harbor areas as industrial sites. Development of both heavy and light industrial areas outside Honolulu followed; residential development came after 1990 and spread throughout the 'Ewa plain. (See Figure 2-4).

Housing demand has also been shaped by a trend towards smaller household sizes. The average household in Hawai'i in 1950 included 4.14 persons; by 2010, the average household consisted of 2.89 persons.[14]

[14] The most comprehensive source for housing trends is the SMS housing planning study. The most recent update is SMS Research & Marketing Services, Inc. *Hawaii Housing Planning Study, 2016.*Prepared for the Hawai'i Housing Finance and Development Corporation. Honolulu, HI, 2016. Posted at https://dbedt.hawaii.gov/hhfdc/files/2017/03/State_HHPS2016_Report_031317_final.pdf

With a limited land area and continuing demand, housing prices have risen over time. O‘ahu has experienced affordable housing crises in every decade since the 1950s. Development of demand for second homes has added to the crisis, since developers and builders can achieve greater profits by providing luxury housing, rather than homes for moderate- or low-income residents. High-rise urban redevelopment in Honolulu has been focused in Kaka‘ako. (Less expensive housing has also been built in that area, largely as a condition of permits for the luxury towers.)[15]



Allocating the State’s projections for the City, the Department of Planning and Permitting anticipates that the Primary Urban Center will have some 467,000 residents by 2040, compared

[15] Housing development in Kaka‘ako is subject to rules for Reserved Housing (including low- and moderate-income households with incomes up to 140 percent of the Area Median Income (AMI)). Under these rules, promulgated by the Hawai‘i Community Development Authority (HCDA), a total of 6,260 housing units had been built in Kaka‘ako from 1976 to late 2014, of which 1,898 were Reserved Housing. Projects under construction by the end of that period included 2,074 Reserved units, 48 percent of the total under construction. *HCDA Reserved Housing Committee Report: We Must Be a Part of the Solution (POTS)*. 2014. Posted at http://dbedt.hawaii.gov/hcda/files/2014/10/UPDATED-Reserved-Housing-Report-111014.pdf

with the 2010 population of the Primary Urban Center, 435,118.[16] The average annual population growth rate for the area from 2010 to 2040 is 0.2 percent – much smaller than the 1.8 percent growth rate projected for ‘Ewa, and below the 0.4 percent rate for the City as a whole.

Since 2000, the housing supply on O‘ahu has grown by nearly 2,000 units annually, at a rate of 0.56 percent per year.[17]

Analysts have attempted to project housing demand and supply for different income segments. A recent study highlights “needed housing units” – ones that would not be built if current and anticipated production trends continue.[18] For O‘ahu, a gap of 10,226 units is projected between 2016 and 2020. The projected demand by income category is shown in Table 2-10. The share of needed units for families with low to moderate incomes is clearly high; 69 percent would be for households with incomes of 120 percent of the area median or less.

The City is encouraging development of rental housing through a draft affordable housing policy and an initiative to allow additional dwelling units (ADUs) on existing lots. Currently, some City fees are being waived for development of ADUs.[19]

Table 2-10: Projected Units Needed in Addition to Likely Supply by Income Level, City and County of Honolulu, 2016-2020

	Income level (in relation to Area Median Income)								
	Less than 30%	30% to 50%	50% to 60%	60% to 80%	80% to 120%	120% to 140%	140% to 180%	Over 180%	Total
City and County of Honolulu	1,734	1,381	714	1,737	1,439	1,761	530	931	10,226
Ownership	356	469	228	843	871	1,251	336	728	5,082
Single-family	220	276	135	587	407	848	264	486	3,223
Muilti-Family	136	193	93	256	464	403	73	242	1,860
Rental Units	1,378	912	486	893	567	509	197	202	5,144
Single-family	390	119	107	316	286	141	46	146	1,551
Muilti-Family	988	793	379	577	281	368	151	56	3,593
Share of "Needed Units" by Income Level	17%	14%	7%	17%	14%	17%	5%	9%	100%

SOURCE: SMS Research & Marketing Services, Inc. *Hawaii Housing Planning Study, 2016*

2.3.2 Commercial Redevelopment in Iwilei

In recent years, large stores have been built in ‘Iwilei, replacing canneries, warehouses and other industrial facilities. Home Depot and Costco are both located on Ala Kawa Street, and Best Buy

[16] Department of Planning and Permitting, City and County of Honolulu. *Annual Report on the Status of Land Use on O‘ahu, Fiscal Year 2014*.Honolulu, HI. June 2016. Posted at http://www.honoluludpp.org/Portals/0/pdfs/planning/dpar2/DPAR2014.pdf; Viewed April 2017.

[17] Housing units on O‘ahu, July 1, 2000 to July 1, 2015: total change = 27,741 units, or 1,849 units annually. DBEDT, *State of Hawai‘i Data Book 2015*, Table 21.20.

[18] SMS Research & Marketing Services, Inc. *Hawaii Housing Planning Study, 2016*.Prepared for the Hawai‘i Housing Finance and Development Corporation. Honolulu, HI, 2016. Posted at https://dbedt.hawaii.gov/hhfdc/files/2017/03/State_HHPS2016_Report_031317_final.pdf

[19] Current proposals are listed at the Mayor’s affordable housing website, http://www.honolulu.gov/housing/resources-on-affordable-housing.html

and Lowe's are nearby. These bring customers along Dillingham Boulevard and Nimitz Highway to this area. Smaller stores are located next to the parking lot for Costco, and Dole Cannery Center is also next to that lot.

2.3.3 The Rail Project and Transit-Oriented Development

The Honolulu High Capacity Transit Project has been under way for years, and is now projected to be fully in service in 2025.[20] Limited service between Kapolei and Aloha Stadium could be available in late 2020.

The 'Iwilei station will be located near MWH. Current forecasts call for daily ridership on the system of approximately 120,000 persons. Of those, approximately 1,200 would board and 1,500 would get off the trains at that station daily in 2030.[21] One reason why ridership at this station is modest is that nearly all riders are expected to arrive on foot. (Bus traffic and auto drop-off links would be concentrated at Pearl Highland and the system's eastern terminus, Ala Moana.)

With the planned 'Iwilei station, MWH residents will be able to reach work or college locations easily by rail as well as by bus. Travel to Aloha Stadium for sports events will also be convenient.

2.3.4 Other New Development

Honolulu Community College, located on Dillingham Boulevard about 0.3 miles from MWH, has plans for eventual growth.[22] Expansion could help to attract or retain some residents of the surrounding area. With a doubling of its current enrollment, new parking structures could be built at either end of the campus. (The one on Akepo Lane and Dillingham Boulevard would be close to the 'Iwilei rail station.) The plan is intended to provide for change over a 25-year period. The Dillingham parking structure and other structures at the northeast end of the campus are the final phase of the planned campus.

Another major Kalihi facility is the O'ahu Community Correctional Center. OCCC serves as the Honolulu county jail. It was renovated in 1975, with a design capacity of 628 beds. It currently has some 950 beds and houses approximately 1,200 inmates[23]. Its 16-acre campus is located on Dillingham Boulevard and Nimitz Highway, about 1.4 miles southwest of MWH.

[20] Honolulu Authority for Rapid Transportation (HART). *Recovery Plan.* Submitted to Federal Transit Administration April 2017. Posted at http://hartdocs.honolulu.gov/docushare/dsweb/Get/Document-20510/20170428-hart-recovery-plan.pdf. The Recovery Plan does not resolve the outstanding issue of funding.

[21] *Ibid.*, Estimated from Exhibits I-2 and I-3.

[22] Helber Hastert & Fee, Planners, Inc. *Honolulu Community College Long Range Development Plan.* Honolulu, HI, 2011. Posted at https://www.honolulu.hawaii.edu/node/198.

[23] Hawaii Department of Public Safety. *Annual Report 2015.* Posted at https://dps.hawaii.gov/wp-content/uploads/2016/12/PSD-ANNUAL-REPORT-2015.pdf.

Four sites, including the OCCC campus, are being considered for a facility to replace the current low-rise facility. In a ranking system shared with the public in April 2017, the Animal Quarantine site in Hālawa Valley received the highest score (79 points), and is hence the leading contender. However, the OCCC campus had a score of 76 points.[24] If the current campus is selected, a new facility would occupy only about half the site. The site selection process is ongoing.

2.4 Community Concerns

2.4.1 Themes in Recent Community Planning

Broad community concerns were enunciated in the Kalihi-Pālama Action Plan and in interviews held for transit-oriented development planning.

The Kalihi-Pālama Action Plan was developed in 2004 with support from the City and a local "Vision Group" of stakeholders.[25] The process was intended to elicit a vision for the community from local stakeholders and a list of projects to help to implement that vision. The first project was for beautification of King Street. Since that project would use up available funds for several years, the Action Plan was developed to identify needs and opportunities that could be addressed in the future.

A list of values shared by the resident stakeholders expressed both pride and aspirations:

- We value the beauty, history, and cultural diversity of Kalihi.
- We seek a future community that is more livable and enjoyable.
- We are an economically vibrant community... now and in the future.
- We value education as the means to sustain the future of our community.
- We value recreational opportunities within our community.
- The health, safety, and welfare of our community are fundamental to Kalihi's future.
- We treasure our elders and have much to learn from them.
- We are a diverse community with a broad spectrum of housing needs.
- We cherish the natural beauty of our mountains, valleys, streams, waterways, and waterfront, seeking to preserve and enhance their future.
- We treasure our youth and are dedicated to helping them create a bright future.
- We are a community, which values working together.

The plan also identifies many opportunities for beautification, redevelopment of roadways, potential reuse of sites such as the OCCC land, and a proposal for a Community Development Corporation to co-ordinate local initiatives.

[24] Powerpoint for public meeting, posted at https://dps.hawaii.gov/wp-content/uploads/2017/04/Town-Hall-Presentation_17_0424.pdf.

[25] Townscape, Inc. *Kalihi-Palama Action Plan.* Honolulu, 2004. Posted at http://www.honoluludpp.org/Portals/0/pdfs/planning/SpecialAreaPlans/KPAP(2004).pdf.

A Kalihi Community Survey was sent to residents living near the planned Middle Street, Kalihi, and Kapālama transit stations, and over a thousand responses were received in 2011 for the City's Neighborhood TOD Plan.[26] Respondents appreciated their communities' convenience and affordability, and recognized the presence of schools and libraries. They expressed concern with crime, the condition of sidewalks and roadways, and lack of parking. Good quality affordable housing was seen as lacking.

Responses to a similar survey for the Downtown stations – including the 'Iwilei station near MWH – placed more emphasis on the homeless population and the limited availability of usable park space as problems.[27] In both areas, respondents expressed regret over the absence of "family entertainment," such as movie theaters.

2.4.2 Views Expressed in Neighborhood Board Meetings

In the minutes of the Kalihi-Pālama Neighborhood Board (the Board) for the period from January 2016 to April 2017, the Board received information about ongoing and planned infrastructure projects. Residents, including Board members, raised concerns about the condition of streets and sidewalks, activities at "gaming rooms" where police intervention was wanted, and the homeless population. They were concerned that Kalihi-Pālama could become the relocation site for homeless from the rest of urban Honolulu. Reports on the rail project were met with questions about future construction noise and dust. Residents expressed interest in redevelopment of the OCCC site for the Kalihi-Pālama community.

2.4.3 Planning for Renovation and Redevelopment of Mayor Wright Homes

Over several years, MWH residents, along with their lawyers and other advocates, pressed HPHA for action to address extensive maintenance problems at MWH. A document attesting to the deteriorated conditions provided a view of MWH as a struggling community:[28]

> Mayor Wright Housing is an aging complex with real repair and social issues that nevertheless serves as the housing of last resort for over 300 of O'ahu's low-income families. Sadly the outside image of the complex is shaped by news coverage of negative events like the recent stabbing. However a closer look into the place shows a tightly knit community of people struggling to make ends meet. Lavish individual gardens, resident repair of their own units and programs like Weed and Seed are the other side of the Mayor Wright story and demonstrate the power of the residents to make things better. (p. iv)

Much has been done to address the physical conditions at MWH, and residents may view HPHA more positively than in 2011. At the community meetings for the proposed redevelopment in 2016 and 2017, residents' ideas for the new MWH dealt with spaces, uses and the relocation process, not management. A few noted that on-site employment for residents was valuable.

Resident comments from the first community meeting emphasized the need for safety for residents, especially children. Other themes mentioned by more than one resident included the aim of developing a "real community" with a range of activities and services for residents, play space for children, and parking for residents and their visitors.

HPHA and Hunt have stated repeatedly that all residents in good standing would be able to relocate in the new MWH and that all 364 public housing units will be replaced one-for-one based on the number of bedrooms in the existing units. Residents have continued to want to know more about the relocation process, but appear, at least in meetings to date, to accept that the relocation process could be fair and result in desirable outcomes over time.

[26] National Research Center, Inc. *Kalihi Neighborhood Transit-oriented Development Plan: Community Survey: Executive Summary*. Prepared for City and County of Honolulu Department of Planning and Permitting. Honolulu, HI: 2011. Posted at https://www.honolulu.gov/rep/site/dpptod/kalihi_docs/Kalihi_CommSurvey_ExecSum.pdf. This survey was not sent to MWH, since the Iwilei station is considered part of the Downtown station complex.

[27] National Research Center, Inc. *Downtown Neighborhood Transit-oriented Development Plan: Community Survey: Executive Summary*. Prepared for City and County of Honolulu Department of Planning and Permitting. Honolulu, HI: 2011. Posted at https://www.honolulu.gov/rep/site/dpptod/downtown_docs/Downtown_Survey_ExecSum.pdf

[28] *Mayor Wrights Tenants Needs Assessment Report*, prepared by FACE in 2011; posted at http://facehawaii.org/issues/affordable-housing/housing-documents/.

3 Impacts of the MWH Redevelopment Project

3.1 Introduction

Some immediate impacts of the MWH redevelopment are clear:

- The existing MWH will be demolished over a period of about ten years;
- New buildings will take their place;
- Residents will move from their current units, with many – probably most – able to move to new units in the new MWH buildings;
- The new MWH will include more units – a total of approximately 2,500 units, for an increase of approximately 2,136 units – which will be in good condition;
- MWH will become a mixed-income housing area managed by a private party; and
- A new community center and commercial areas will be developed.

Redevelopment of public housing as mixed-income development on this scale has not been accomplished in Hawai'i. One current project, at Kūhiō Park Terrace (now The Towers at Kūhiō Park), involves a similar public-private collaboration, extensive renovations, and limited inclusion of market units in a public housing site, but not the extensive redevelopment planned for MWH.[29]

This chapter begins with quantifiable impacts anticipated for the MWH redevelopment. Demographic and economic impacts are estimated. Social impacts are discussed after a summary account of academic and planning literature on mixed-income communities, which provides a basis for finding some anticipated impacts more likely than others for residents and the Kalihi-Pālama community. Management of uncertainty and potentially adverse impacts is discussed in the conclusion.

Quantifiable changes point to impacts of different sorts, depending on the level of impact analysis. Population and housing impacts can be seen in relation to the site, where the redevelopment will bring more people than those who live there now, or in relation to the neighborhood, island and state. At the level of the site, the impact is the increase in the number of residents, and social diversity due to inclusion of mixed-income housing. At the neighborhood level, it is likely that many new residents of MWH will come from the Kalihi-Pālama area, where they are living with family or in less desirable housing. Consequently, while the project will add some 2,136 units at MWH over time, the number of new households in the community – MWH plus the surrounding area -- will likely be smaller. Finally, MWH is not expected to attract people to O'ahu and Hawai'i: at the island and state levels, no population impact is anticipated.

3.2 Population and Housing

As shown in Table 3-1, the MWH population would grow from about 1,400 to approximately 7,300 over the ten years of the redevelopment process. With the completion of the first phase (shown as in 2020), the population in the new structures would be approximately 1,760 persons,

[29] Further redevelopment is planned but has not occurred yet.

while the population remaining in existing structures would amount to about 1,035. By the end of the redevelopment process, approximately 1,427 persons would be in public housing units in the new structures under HPHA rules for public housing rentals, while 5,871 persons - about 80 percent of the on-site resident population - would be in other units (from Section 8 rentals to market rentals).

While the actual figures will depend on design issues that are not yet final, it is clear that the mix of new and old residents, and the mix of public housing vs. other residents would change greatly once the first phase of the redeveloped MWH opens, and this change would continue.

The redevelopment schedule used here was adapted by BCH from preliminary accounts by Hunt and should be taken as provisional. Timing and phasing could change, depending on regulatory and market factors, and the number of units will depend on financing. A total of 2,500 units is shown in this analysis and up to 80,000 gross square feet of commercial space is projected; the quantitative analysis is of a maximal development.

3.3 Employment and Wages

The redevelopment will bring three sorts of jobs to the MWH site: construction, facility management and maintenance, and commercial jobs. Table 3-2 shows jobs of all three types. All jobs are estimated as full-time. Construction jobs include jobs at construction offices and yards since not all construction jobs are on-site. Construction jobs are estimated on the basis of construction spending. For management, calculations deal with the on-site workforce needed to operate MWH, including contractors who may be present either full-time or at intervals. Social service and commercial jobs on-site are estimated from the square footage available for their activities. These jobs will be with firms and agencies that lease space within MWH.

Table 3-2 shows direct jobs. On-site operations employment will grow to approximately 380 jobs by 2027, more than ten times the number currently employed at MWH. The increase in annual wages on-site will be approximately $10.7 million (in constant dollars, controlling for inflation). These jobs and wages are expected to continue for many years. Construction employment will vary from year to year, since the phases of redevelopment involve areas of different sizes, and will end in 2027. Direct construction jobs are labelled as "person-years" because these are not positions that continue from year to year.

Expenditure of funds for redevelopment and operations at MWH will lead to further local spending. Indirect jobs are created when firms purchase materials; induced jobs are created as the workers in direct and indirect jobs spend their wages in the local economy. These can be estimated from the model of input-output relations by industry in the Hawai'i economy that has been developed and refined by the DBEDT. Table 3-3 shows the estimated direct, indirect and induced jobs associated with the redevelopment process.[30]

[30] Direct and indirect jobs are easily associated with a particular year when direct spending occurs. Induced jobs associated with that spending may actually occur later, since workers may spend their wages over time.

Table 3-1: Potential Phasing of Redevelopment at MWH

	2017	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Housing Units											
In Existing Structures	364	264	264	164	164	104	104	44	44	-	-
In New Structures			650	650	1,250	1,250	1,700	1,700	2,300	2,300	2,500
TOTAL	364	264	914	814	1,414	1,354	1,804	1,744	2,344	2,300	2,500
Population											
In Existing Structures	1,427	1,035	1,035	643	643	408	408	172	172	-	-
In New Structures			1,760	1,760	3,480	3,480	4,850	4,850	6,479	6,479	7,298
TOTAL	1,427	1,035	2,795	2,403	4,123	3,888	5,257	5,022	6,651	6,479	7,298

NOTES: Phasing estimated by Belt Collins Hawaii LLC, based on presentations by the Hunt team. All estimates are provisional; redevelopment plans will change as the project design proceeds. For this calculation, BCH has assumed maximal residential development (2,500 units) and one-for-one replacement of public housing.
Population per household in public housing based on recent average household size in CT 54 (3.92 persons/unit) and, for other units, average household size for subsidized units is based on market study finding of household sizes, rentals, with incomes from 40% to 80% of area median (2.79 persons/household) ; for market units, average size of rentals with 100% of area median (2.81) used.

SOURCE: Cassiday, 2015.

Table 3-2: Direct Employment Associated with MWH Redevelopment

	2017	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Operations Jobs											
HPHA at MWH (1)	26										
Office and Management		8	16	16	23	22	28	27	32	32	32
Maintenance and Grounds		12	14	13	22	21	26	25	33	32	34
Security		7	12	12	15	15	18	18	21	21	22
Social Services		2	3	3	6	6	6	6	8	8	8
Commercial		-	-	151	184	216	216	216	274	284	284
Total	26	29	45	195	250	280	294	292	368	377	380
Wages ($1,000s) (2)	$983	$1,201	$1,789	$7,325	$9,389	$10,501	$11,058	$10,974	$11,671	$11,626	$11,729
Increment over 2017											
Total Direct Jobs		3	19	169	224	254	268	266	342	351	354
Total Direct Wages ($1,000s)		$218	$806	$6,342	$8,406	$9,518	$10,075	$9,991	$10,688	$10,643	$10,746
Construction Jobs											
Person-Years		577	477	541	440	390	330	500	440	191	147
Wages ($1,000s)		$38,883	$32,100	$36,414	$29,631	$26,293	$22,223	$33,701	$29,631	$12,862	$9,877

NOTES: Job counts are estimated here by BCH, drawing on information from Hawai'i Public Housing Authority, the Hunt Companies, and Indigo Real Estate Services, and on ratios for retail and construction jobs. Retail jobs are estimated as averaging 4 per 1,000 interior square feet of commercial space. Construction job counts are estimated from the ratio of construction industry jobs to the annual value of construction completed in Hawai'i, for 2015 and 2016. The ratio is 4.56 jobs per million in construction costs. Commercial space is anticipated to be built in Phases 1 and 4, and 85% to 90% occupied (with higher occupancy along King and Liliha Streets) after a first year of operations.

(1) Only HPHA employees and subcontractors on-site are counted, although both office and maintenance personnel based at HPHA headquarters may work in support of MWH operations. Similarly, on-site operations by a managing firm and subcontractors are estimated, without counting off-site office staff. Wages estimated by BCH using the same procedures as for later jobs at MWH.

(2) Wages are estimated from average occupational wages in the Honolulu Metropolitan Statistical Area as of May 2016, inflated in line with the Consumer Price Index to 2017 values. Wages for future years are shown in constant 2017 dollars.

SOURCES: DBEDT, *Hawai'i State Data Book, 2015,* posted at http://dbedt.hawaii.gov/economic/databook/ and DLIR, Wages by Occupation, posted at https://www.bls.gov/oes/current/oes_46520.htm

Table 3-3: Direct, Indirect and Induced Employment Associated with MWH Redevelopment

	2017		2019	2019	2020	2021	2022	2023	2024	2025	2026	2027
Operations												
Direct												
Jobs	26		29	45	195	250	280	294	292	368	377	380
Wages ($1,000s)	$983		$1,201	$1,789	$7,325	$9,389	$10,501	$11,058	$10,974	$11,671	$11,626	$11,729
Indirect and induced												
Jobs	16		17	26	96	124	138	146	145	183	187	189
Wages ($1,000s)	$800		$871	$1,328	$4,925	$6,343	$7,062	$7,477	$7,419	$9,340	$9,552	$9,650
Construction												
Direct												
Jobs			577	477	541	440	390	330	500	440	191	147
Wages ($1,000s)			$38,883	$32,100	$36,414	$29,631	$26,293	$22,223	$33,701	$29,631	$12,862	$9,877
Indirect and induced												
Jobs			751	620	703	572	507	429	650	572	248	191
Wages ($1,000s)			$38,927	$32,136	$36,455	$29,664	$26,322	$22,248	$33,738	$29,664	$12,876	$9,888

SOURCE: DBEDT, *The Hawai'i State 2012 Input-Output Study* . Honolulu, 2016.Posted at http://files.hawaii.gov/dbedt/economic/reports/IO/2012_state_io_study.pdf

3.4 Fiscal Impacts

Government revenues and costs associated with the redevelopment consist of:

- Taxes on construction;
- Taxes on operations;
- Fees associated with the leasing of government property to a private developer, and with rental of housing units at subsidized rates; and
- Impact fees meant to cover part of the costs to government following development of new housing.

Fiscal impacts occur when a project adds to revenues or to costs for local government. Construction involves the expenditure of capital to create the new development. Because it demands an input of capital to Hawai'i, taxes associated with construction all count as fiscal impacts. It is likely that no excise tax would be charged for construction at MWH, because excise taxes are waived for housing projects with a significant share of units rented to low-income households.[31] However, corporate income taxes and taxes on workers' income and spending are not waived.

Operations create new revenue streams, but may not involve new impacts, since the population being served is not new to the City and State. Also, the property will remain low-income housing on State land, and will largely not be subject to real property taxes (ROH Article 10, Section 8.10.20). The exception is the commercial space. Since this is being leased by a for-profit firm, it is likely to be taxable under Honolulu regulations.

Fees for the lease of the MWH property are part of negotiations between Hunt and HPHA. Hunt is acquiring control of a large urban property, but is committed by agreement with HPHA to produce, lease and operate rental housing, mostly at rent levels below market. The terms of the lease agreement are not final and not part of the public record at this time, so these cannot be included in the fiscal impact calculations.

The Hawai'i State Legislature authorized the Board of Education to establish impact fees for areas where new development created demand for new school facilities in Act 245 of the 2007 Session. The Board has established impact fees for new development in the Kalihi to Ala Moana transit corridor. These cover fees in lieu of land plus 10 percent of the cost of construction of new schools. In the urban Honolulu corridor, land costs are high, so the fee in lieu of land is high: $8,790 per new unit. The estimated fee for construction is $584 per new unit.[32] The actual fees charged per new unit could change, either because new schools are placed on smaller sites or because of changes in construction costs. Again, bills have been introduced in the State

[31] A bill passed by the 2017 Legislature, HB 1179, caps the amount of excise taxes that can be exempted for construction of affordable housing at seven million dollars annually. Should several projects be undertaken at the same time, this cap, if it became law, could affect the timing of project construction.

[32] Hawai'i Board of Education, "Draft Analysis of the Kalihi to Ala Moana School Impact Fee District." Posted at http://www.hawaiipublicschools.org/DOE%20Forms/Facilities/Final%20corrected%20TOC%201-21-16.pdf .

Legislature to exempt affordable housing from these impact fees, but such bills have not passed to date.

Table 3-4 shows the fiscal impacts that can be calculated as discussed here. Over the ten-year redevelopment period, the total new revenue for the State of Hawai'i is estimated as amounting to approximately $63.6 million. In that time, the City would gain approximately $3.4 million. All the State taxes shown are tied to redevelopment, and would not continue after project buildout. The City and County real property tax revenues would continue afterwards, but not the excise tax revenue, which would end along with construction.

Table 3-4: Fiscal Impacts of MWH Redevelopment

All values are 1,000s of constant dollars	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Associated with Construction										
Excise Tax on Construction	-	-	-	-	-	-	-	-	-	-
Corporate Income Tax	$215	$178	$202	$164	$146	$123	$187	$164	$71	$55
Personal Income Tax	$4,004	$3,305	$3,750	$3,051	$2,708	$2,288	$3,470	$3,051	$1,324	$1,017
Excise Tax on Workers' Expenditures	$2,241	$1,850	$2,099	$1,708	$1,515	$1,281	$1,942	$1,708	$741	$569
School Impact Fees		$4,687		$4,687		$3,656		$4,593		$2,400
Real Property Tax on Commercial Area			$209	$209	$209	$209	$209	$271	$271	$271
Annual Revenues										
State of Hawai'i	$6,236	$9,835	$5,840	$9,439	$4,217	$7,220	$5,405	$9,345	$2,063	$3,984
City and County of Honolulu	$224	$185	$419	$380	$361	$337	$403	$442	$345	$328

NOTES: All values are $1,000 of 2017 constant dollars. Taxes calculated from historical ratios:

- Corporate Income Tax: .0017% of gross revenues (year 2002 ratio, Class C construction corporations)
- Personal Income Tax: 5.1% of workforce income, based on year 2014 data. Personal income for direct, indirect and induced workers included in the calculations.
- Excise tax: 4.5% of total cost, with 4% to the State general fund plus 0.5% to cover costs for the Department of Taxation; 0.45% to City and County of Honolulu. No excise tax on construction of a project that qualifies as low income housing.
- Share of personal income subject to excise tax: 66% (based on 2014 data on consumer expenditures).
- School impact fees are for new housing units. The above calculation uses the rates adopted by the Board of Education for both land and school construction ($9,374 per unit), and compares the total unit count at MWH to the existing 364 units. New fees are estimated when unit counts grow over the level used for earlier impact fee calculations.

SOURCES DBEDT, *State of Hawai'i Date Book 2015*, Table 13.31; Department of Taxation, *Hawai'i Income Patterns: Businesses, 2002* (published in 2006; posted at http://files.hawaii.gov/tax/stats/stats/businc/02businc.pdf; *Hawai'i Individual Income Tax Statistics, Tax Year 2014* (published in 2016; posted at http://files.hawaii.gov/tax/stats/stats/indinc/14indinc.pdf. Hawaii State Department of Education, *Draft Analysis of the Kalihi to Ala Moana School Impact District*., Passed by the Board of Education at its meeting of May 23, 2017. Posted at https://www.hawaiipublicschools.org/DOE%20Forms/Facilities/Final%20corrected%20TOC%201-21-16.pdf.

3.5 Mixed-Income Redevelopment of Public Housing

Mixed-income developments in the United States vary greatly[33]. Some include a wide range of incomes and housing types, bringing public housing tenants, renters of other subsidized units, market renters and owners of market condos together in a single place. Income integration may be "seamless," with no distinction in appearance between lower and higher rental units or, when different income levels are placed in different buildings, only a matter of co-location in the same overall project. In many cases, low- and moderate-income tenants of subsidized units occupy nearly all the units. The MWH project will include rentals at affordability levels from low-income subsidized housing and affordable rentals to market rate units. Since the land remains State property, no residents can be owner-occupants.

Planners and social scientists have investigated mixed-income projects, especially HOPE VI developments funded by the federal Department of Housing and Urban Development (HUD) until 2010.[34] (HUD has more recently supported the Choice Neighborhoods program. The Towers at Kūhiō Park in Kalihi is a Choice Neighborhood redevelopment.) Research questions often stemmed from research on urban poverty, and tested the assumption that locating lower and higher income residents in the same project or neighborhood would have beneficial effects for the lower income residents or for both.

The research tends to indicate that local impacts of redevelopment are due to a mix of factors, notably:

- Above all, new housing in good condition is a real benefit, and promotes residents' well-being.
- With new housing and new management can come crime reduction, to the relief of all involved.
- People interact and develop social bonds due to shared experiences and lifestyle, not just by living near each other;

[33] On the range of "mixed" income properties, see Vale, L. and S. Shamsuddin. "All Mixed Up: Making sense of mixed-income housing developments." *Journal of the American Planning Association,* 83:1, pp. 56-67. 2017. DOI: 10.1080/01944363.2016.1248475.

[34] Insightful analyses of impacts of mixed-income housing on residents and communities in the Mainland US include Levy, D., Z. McDade and K. Dumlao, "Effects from Living in Mixed-Income Communities for Low-Income Families: A review of the literature. Prepared for the Urban Institute Posted at http://www.urban.org/sites/default/files/publication/27116/412292-Effects-from-Living-in-Mixed-Income-Communities-for-Low-Income-Families.PDF National Initiative on Mixed-Income Communities "State of the Field Scan #1, Social Dynamics in Mixed-Income Developments." Cleveland, OH., 2013. Posted at http://nimc.case.edu/wp-content/uploads/2015/08/State-of-the-Field-Scan-1_Social-Dynamics-in-Mixed-Income-Developments.pdf

A useful guide to management measures for social life in mixed-income projects is *Shelterforce*, "Making Mixed-Income Communities Work." National Housing Institute.2016. Posted at /Making%20Mixed-Income%20Developments%20Work%20--%20Shelterforce%20--%20National%20Housing%20Institute.htm. See also McCormick, N. and S. Voelker, "the New Public Housing Stigma in Mixed-Income Developments." Research Brief #8, University of Chicago School of Social Service Administration and Case Western Reserve University Mandel School of Applied Social Sciences. Posted at http://ssascholars.uchicago.edu/mixed-income-development-study

  - Interactions of neighbors from different income levels are often shallow, involving brief greetings and little more;
  - Where different groups are in the same housing project, space for people to meet is necessary but not sufficient to foster relationships;
  - People who have been in a project for much the same time may share experiences;
  - Children can create links between households of different backgrounds; and
  - Shared interests such as gardening in a community garden plot can foster interaction – but such resources may also be treated as belonging to one resident sub-group rather than all residents, and become a focus for intergroup tensions.
- Low income residents may find that others look down on them, or blame them for the problems of the neighborhood.
- Low income residents may find management and regulations to be strict, and feel that managers want them out of the project.
- Competing interest groups may form as income level is translated into housing tenure – e.g., condo owners in some projects, or public housing tenants' groups in others – that compete for resources. In such cases, populations in the middle may have little voice in the community.

3.6 Social Patterns and Impacts at MWH

Mainland U.S. experience can help to anticipate social impacts of redevelopment at MWH, but some of those impacts will be distinct, due to conditions in Hawai'i, the history of MWH, and decisions taken by HPHA and Hunt. First, the MWH project avoids the major pitfall of many of the Hope VI program: projects funded by that program often failed to build public housing in numbers comparable to the ones demolished.[35] The project combines a commitment to one-on-one replacement of the MWH public housing stock with plans for a large share of other affordable units. Next, a major factor separating the MWH project from most Mainland projects is that all units will be rentals. Residents of market units will not be homeowners.

Tenants at different income levels will live in the same blocks or towers, reducing separation and differentiation of tenant sub-groups. Public housing residents, along with Section 8 residents, will still need to be qualified by HPHA staff, but management of the project will be by private parties, and will affect all sub-groups.

Resident/Management Communications. The residents' association at MWH has been dissolved, and few lines of communication exist among tenants, or between tenants and management. With redevelopment, new associations can be formed. It will be in the interests of both management and residents to maintain strong and open communications and share an understanding of the redevelopment process as orderly and as operating to the eventual benefit of all involved.

[35] T. Gress, cited in J. Schenke, "Is HUD's $6B Mixed-Income Housing Strategy To Blame For Housing Shortage?" *Bisnow,* 2017. Posted at https://www.bisnow.com/national/news/construction-development/huds-funding-faces-uncertainty-for-mixed-income-players-71491.

In some Mainland cases, new management of mixed income housing was felt by very low income residents to be more demanding and suspicious of residents than the earlier public housing management. [36]

Once the Master Development Agreement is in place, the private developer team will take over management, and will work with HPHA to relocate residents. Most residents of the Phase 1 area will be displaced from MWH, since there are few vacant units in the project. If relocation efforts result in placing displaced tenants in appropriate units elsewhere, this first phase could help to build confidence and trust in the private development team.

Some residents have expressed concern with noise, dirt and dangers associated with construction in MWH. All of these will be controlled through contractors' following State and County regulations and Best Management Practices. MWH management and residents nearby are likely to watch the construction process closely and to report impacts on residents. Still, construction may temporarily inconvenience residents and could result in complaints to management.

Mix of Residents. During the process of redevelopment, the number and mix of residents will change greatly. After the first units are demolished, the on-site population will decline. However, as the new Phase 1 block is opened, resident numbers will increase, and a mix of income levels will be present at MWH. Public housing tenants will form a minority of the population.

About a third of the units are expected to be rented at market rates. In Kalihi/Pālama, these could be close to, or the same as rates for workforce housing. Workforce and market renters will have a wider range of housing options than low-income renters, and may view MWH as a stage in their housing trajectory, from apartments to townhouses, and from rentals to home ownership. Many will be young adults, expecting to move elsewhere as their families grow and their assets increase. These residents may consequently have little commitment to MWH.

Children and Youth. Many residents hope to see more space for children's play in the complex. The redeveloped MWH will have new park areas and, possibly, on-site providers of after-school programs and social services. The area for youth activities on-site will be limited by the small area of the complex. However, with co-ordination between on-site service providers and off-site centers such as Pālama Settlement and the increase in the number of residents, recruitment of MWH for off-site programs could increase.

Youth programs on-site will help to provide safe activities for after-school hours. With retail jobs in the project, some teenagers will be able to find employment and incomes that are not available to them now.

Crime Prevention and Environmental Design. In recent years, public housing residents have largely seen fences and security patrols as the major means to reduce crime and find peace and quiet in their projects. The MWH redevelopment will have more points of entry than the current

[36] McCormick, N. and S. Voelker, "The New Public Housing Stigma in Mixed-Income Developments." Research Brief #8, University of Chicago School of Social Service Administration and Case Western Reserve University Mandel School of Applied Social Sciences. Posted at http://ssascholars.uchicago.edu/mixed-income-development-study

project. The Hunt team has mentioned crime prevention through environmental design as a component of project design, and has emphasized the importance of community "eyes on the street" to reduce crime. Management may rely on cameras as well as patrolling officers to achieve security. Since the major factors associated with safety in residents' eyes are being changed, the redeveloped project may appear less safe to residents than the current one.

Displacement and Relocation. Since the project involves replacement of all housing in MWH, all residents will be displaced from their current units. Some will be displaced from MWH until a MWH unit is available for them in the course of redevelopment, while others will be able to move from existing MWH units to new units built on-site.

Residents have expressed concern about displacement. Some are worried about relocation away from the immediate area and their social ties, or to other projects in Kalihi such as KPT, since youth from these projects and youth from MWH have been in conflict at times.

When the first phase of the new MWH opens, both displaced residents and residents who will be displaced by the next phase will seek units in the new block. The Hunt team may want to plan on allocating space for both groups in the first new block. In later phases, the construction of new units will likely allow many households to relocate on-site.

In Hope VI projects, return rates have varied from 45 percent (in projects with awards before 1996) to 6 percent in some of the most recent projects.[37] Displaced residents from Chicago redevelopment projects have expressed a range of views. Some treasure their neighborhood and social ties, and want to stay; others may view the project as a site to be escaped, even though the new mixed-income development will in better condition. Many felt that they had not been provided enough information to be able to return. [38]

Hunt and HPHA plan to provide MWH residents with information about the redevelopment throughout the process.

The planned multi-phase development of MWH will allow many residents to move from units about to be demolished into new units within the complex. However, by the end of the redevelopment process, some of these tenants may leave the public housing units at MWH for one reason or another. It seems reasonable to expect that not all the public housing units in the redeveloped MWH will be taken by returnees. Meanwhile, other returnees may move into units at MWH for other income categories.

Increased Appeal of MWH for Residents and Neighbors. Currently, residents of MWH and nearby apartment complexes have few interactions. Each group tends to view resources located at their own project (e.g., playground equipment) as being built for that project's residents, not

[37] Gress, T., S. Cho and M. Joseph. "Hope VI Data Compilation and Analysis." National Initiative on Mixed-Income Communities. 2016.. Posted at https://www.huduser.gov/portal/publications/HOPE-VI-Data-Compilation-and-Analysis.html.

[38] Joseph, M. and R. Chaskin. "Why Do So Few Residents Return to Mixed-Income Development Projects? Insights into Resident Decision-Making." Research Brief #6, University of Chicago School of Social Service Administration and Case Western Reserve University Mandel School of Applied Social Sciences. Posted at http://ssascholars.uchicago.edu/mixed-income-development-study.

others. Redevelopment at MWH will include commercial spaces open to the wider community. Retail tenants will need to serve a larger population rather than only project residents. The proposed community center will serve MWH residents, but could also be used for outreach to others in the community. Social service agencies based in the new center will, like the new businesses located at MWH, have reason to make their area appealing to a larger market than project residents alone.

The location of MWH – near the urban center and easily accessible by bus or rail transport – seems likely to attract residents who value the convenience of living at the site. Many may rely on walking and bicycling on a daily basis. However, the MWH site is also convenient to "big box" stores in Iwilei and to the H-1 highway.

3.7 Changes in the Surrounding Community

A traffic study has been conducted for the redevelopment project.[39] It shows existing conditions at nearby intersections – King and Liliha/Dillingham, and Vineyard/Liliha-- to be congested at present. Even if the project is not built, these intersections would function poorly, at Levels of Service E or F by 2022. The intersection of Vineyard and A'ala Street would be at Level of Service E without the project by 2028. In other words, the MWH redevelopment will be part of a cumulative trend towards congestion at these locations. Due to the limited right of way and high traffic volumes at the King/Liliha/Dillingham intersection, the proposed mitigations address pedestrian safety, rather than vehicle movement.

New pedestrian and bicycle routes will support residents and neighbors using alternative modes of transportation. The commercial area along Liliha may attract some pedestrians, especially ones returning from the transit station to the south or busses along King Street.

At Community Advisory Committee meetings, local service providers have shown interest in serving the increased population at MWH and in locating services at the planned community center. Redevelopment could also make off-site facilities more accessible, since the new design will encourage access to King Street and Vineyard Boulevard as well as Liliha Street. Leaders of both Pālama Settlement and Kalihi-Pālama Health Center have discussed the redevelopment as providing their organizations with an opportunity to reach new clients and to plan for growth of their own facilities.

School principals have been open to cooperation with the developer to minimize disruption for their students. Relocation poses one set of problems: whether to keep students in the same school if their families move to other sites. Since much of HPHA's housing resources is in Kalihi, relocation may only be over short distances. However, MWH is served by the McKinley High School sub-district, and the rest of the HPHA projects are in areas served by Farrington High School and its feeder schools. When families are relocated, it may be physically possible for students to stay in their original schools, but this would mean that students would not attend

[39] Fehr and Peers *Draft Traffic Impact Assessment Report, Mayor Wright Homes Redevelopment.* San Diego: CA 2017.

schools with their new neighbors. School placement may be one of the most difficult factors in relocation.

The increase in the number of units at MWH would create a different set of challenges. The middle and high schools serving MWH can absorb population growth. Both Central Middle School and McKinley High School have enrollments well below their historical peak numbers. The elementary schools near MWH may have less flexibility and space to accommodate new students. If the new households at MWH add large numbers of students to the local schools, as seems likely, the elementary schools will be far over capacity. The school impact fees estimated in Table 3-4 will also be the subject of negotiations between the developer and the Department of Education.

MWH's location near Honolulu Community College and the transit station may make units in the new blocks appealing to college students. However, the O'ahu community colleges are typically commuter schools, with many part-time students. This group may not form a significant part of the MWH population.

3.8 Social Impacts at the Island and State Levels

The redevelopment of MWH will increase the supply of rental housing on O'ahu by approximately 2,000 units. That increase is a significant response to the ongoing imbalance between housing demand and the supply provided by developers, and government agencies. While the increase depends on tools such as Low Income Housing Tax Credits that have been available for some time, it stands out as a potential example demonstrating that a public-private partnership can produce new low- and moderate-income rental housing despite Hawai'i's high construction costs.

A potential drawback to successful development of subsidized housing must be recognized. Developers are already competing for a limited pool of tax credits and funds to support new and renovated housing projects. If that pool does not expand, redevelopment of MWH and Kūhiō Park Terrace could result in less funding being available for other low-income housing projects throughout the state.

3.9 Environmental Justice

The idea of environmental justice has emerged from a mandate directing federal agencies to avoid actions that would direct adverse environmental impacts to poor and minority communities rather than affluent, influential and majority ones (in President Clinton's Executive Order 12898 of 1994). The general ethical concept, that the burden of development should not be borne disproportionately by marginalized groups, has been widely recognized.

The median household incomes in Table 2-3 show all sections of the 96817 area as having lower incomes than the City as a whole. Again, the incidence of poverty is much higher in the 96817 area, and highest in the MWH census tract (Table 2-6).

In Hawai‘i, nearly all communities are racially mixed, and no group can be identified as the local “majority.” (See the first column of Table 2-8 for O‘ahu data.) Nonetheless, MWH stands out as an area where Pacific Islanders, especially Micronesians, are concentrated. As the most recent migrant group in Hawai‘i, many Micronesians are poor, with limited employment, and often suffering from major health problems.[40]

MWH and its surrounding area qualify for consideration with regard to environmental justice as a low-income area with a distinctive minority population. Significant questions would arise if the proposed action had a negative impact on the local community while benefitting others. However, the project’s impact on the site and its surrounding is above all the provision of new affordable rental housing in a mixed-income setting. That impact is positive. The project has been planned to benefit MWH residents, and they have been consulted in the design of the new MWH. Consequently, the project follows environmental justice guidance to avoid disproportionate adverse impacts to minority and low-income communities.

3.10 Managing and Mitigating Impacts of Redevelopment

3.10.1 Resources for Mayor Wright Homes Residents

Social impacts depend on the situation and perspectives of those involved. No single mitigation measure or strategy can be guaranteed to mitigate social problems. A major element in mitigation processes is communication, so that all parties involved understand each other’s aims and needs, and processes such as relocation occur with limited distress for those involved. On the other hand, communication must be clear and backed by commitment: public housing residents in mixed-income projects often report that developers did not carry through on their promises. Members of the development team have recognized that it will be especially important for the relocation process to proceed without major misunderstandings or failures to find safe and appropriate homes for those who leave MWH. This will help build trust and support stronger relationships moving forward as they will also be managing the project once construction is completed.

The MWH redevelopment has drawn on resident and community input. The development team’s planning reports emphasize the importance of communication. The team can build on residents’ hopes for a new and improved home and for a voice in community planning. Continuing communication and establishment of a resident board that is seen to be respected by the developer may be effective.

Sponsorship of community activities and events may help to rekindle the sense of community that some MWH residents say has been absent for several years. Over time, such events may help to bring together public housing residents and new residents.[41]

[40] Major reasons for emigration to Hawai‘i have been education, employment, and hospital care for older members of Micronesian families. Hezel, F.X. and M. J. Levin, *Survey of Federated States of Micronesia Migrants in the United States including Guam and the Commonwealth of Northern Mariana Islands (CNMI)*. 2012. Posted at https://prd.psc.isr.umich.edu/files/Resources_Report%20on%20PI%20Jurisdictions.pdf

[41] Managers of mixed-income communities may have more success with “events” that attract a range of residents than with “programs” that appear to address the needs of only the lowest-income residents.

To address residents’ concerns about crime, it will be important for residents to feel empowered to act as Neighborhood Watch participants and as observers of their neighborhood space who can help to keep it peaceful. Management can respond to such concerns through respectful collaboration with residents.

3.10.2 Resources in the Surrounding Community

Community agencies have already expressed willingness to work with the developer and residents through the redevelopment process. As noted earlier, collaboration with community agencies, the local schools, churches, and social service providers can go far to minimize disruption for the community and to build a supportive environment for MWH residents. One school principal has shared with the development team the fact that his school’s programs to involve parents in reading have already reached and recruited dozens of immigrant families in MWH. That principal offered to share news of the redevelopment through their communication channels. Consistent communication with and through community agencies will help to minimize social impacts of the redevelopment process.

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EXHIBIT 24

HUMAN CAPITAL REPORT

MAYOR WRIGHT HOMES

November 7, 2016

concordia

EXECUTIVE SUMMARY

The Mayor Wright Homes (MWH) were built in 1952, long before federal housing programs encouraged mixed-income and holistic approaches to residential development. Redeveloping the Mayor Wright Homes provides an opportunity to fill in the numerous gaps in serving residents' needs left by the 1952 design.

The physical master planning process will lay crucial groundwork for building a healthy community--mixed-income and mixed-use development are important steps in the right direction. However, building mixed-use, mixed-income housing is not the be-all end-all. To ensure that Hunt's redevelopment is a holistic and transformative improvement for current MWH residents, a Human Capital Master Plan must be developed in tandem with the Physical Master Plan.

The purpose of a Human Capital Master Plan for the Mayor Wright Homes is twofold: 1) to lay out the necessary steps for a smooth relocation of current MWH residents during the construction phase; and 2) to catalogue and coordinate the services that MWH residents need in order to build a healthy community.

The Human Capital Report lays out the engagement and administrative processes that will lead to a robust Human Capital Master Plan. The Human Capital Report is structured in three parts. First, the report provides background information on current MWH residents and the assets and services currently available in the community.

Part Two of the report lays a basic framework for the Relocation Plan and presents the results of the resident and stakeholder engagement conducted during the Design Charrette process. The report recommends conducting interviews with at least one resident from every unit in the Mayor Wright Homes so residents' needs can be fully understood before relocation begins. The report also recommends phased construction so as to minimize off-site relocation, which is both more disruptive for residents and more costly for Hunt.

Part Three identifies a number of organizations who can take on roles in the development and implementation of a Human Capital Master Plan for the Mayor Wright Homes.

In summary, The Human Capital Report makes recommendations towards an equitable Relocation Plan and frames the redevelopment as an opportunity to overhaul the quality and coordination of services to MWH residents. Additionally, the report identifies the next steps that will turn its recommendations into a realized Human Capital Master Plan.

BACKGROUND

Mayor Wright Homes and the surrounding Kalihi neighborhood are poised for a comprehensive approach to transformation, where Hunt Development, local leaders, residents, schools, police, firefighters, business owners and nonprofits can all join together to create and implement a community-centered plan that can simultaneously address all of the site's robust challenges and opportunities.

Such an approach is already being implemented in several ways by the nearby Palama Settlement and at Kuhio Park Terrace, where programs have or are being designed to address a wide range of services aimed at improving the quality of life of each individual resident. To some degree, these services embrace the complex physical, cultural, social, economic, educational and organizational ecosystems that can also support the well being of whole neighborhoods.

In Hawai'i, this kind of sharing and interconnecting of resources was the driving force behind the ancient planning principles of the ahupua'a. Instead of segregating the resources available in the mountains, plains and beachfront sites, each community was provided with a pie shaped slice of land extending downward from the top of the mountain, through the rich farmland plains, and into the ocean. This meant that residents would have access to all of the resources needed to support a productive life, from trees and vegetation to mammals, reptiles and fisheries, and not just one or another.

In the planning and design of contemporary cities and neighborhoods, this kind of integrative thinking has begun to take hold in the form of mixed-use (commercial plus housing) and mixed-income developments. However, physical and economic diversity are only two of the many resources needed to create resilient and sustainable communities. This is especially true in complex inner city neighborhoods.

A strong alignment of all community resources can build critical human capital, improve social, organizational, educational, cultural and economic benefits, and generally improve the quality of life for all community stakeholders. And although each of these resources is most often viewed as a separate and distinct asset, it is often the interactions between all of them that can most effectively and efficiently improve the health and well being for both individuals and the whole community system.

A CRITICAL BALANCE

In order to make a successful transition to a new home in the Mayor Wright Homes redevelopment, existing residents will need a comprehensive and well-managed support system. This support system can be designed and implemented through a fully integrated Human Capital Master Plan that will work in tandem with the Physical Master Plan currently underway.

Pono is a native Hawaiian concept of balance, where the whole can be even greater than the sum of its individual parts. It can provide a center of strength or serve as a medium for "oho" or healing.

THE CURRENT LANDSCAPE

A small number of Hawai'i Public Housing Authority (HPHA) employees are now responsible for supporting three public housing sites, including Mayor Wright Homes, with more than 2,000 residents. Additional programs in the Kalihi neighborhood surrounding the site appear to be better staffed and funded, but changing demographics and other social and cultural issues are now challenging the capacity and effectiveness of these existing support systems and the services they provide.

For example, Earl Fusato, the new director of the Palama Settlement, indicated that a steady decline in clientele using Palama's programs and facilities has spurred some conversations by his board members about replacing the soccer field, or perhaps even the pool, with other uses, such as affordable housing. He indicated that one reason for the loss of clientele is that the neighborhood demographics have shifted, in some cases quite radically, and that current programs may not be aligned with the specific needs of newcomers from a wider range of Pacific Island cultures.

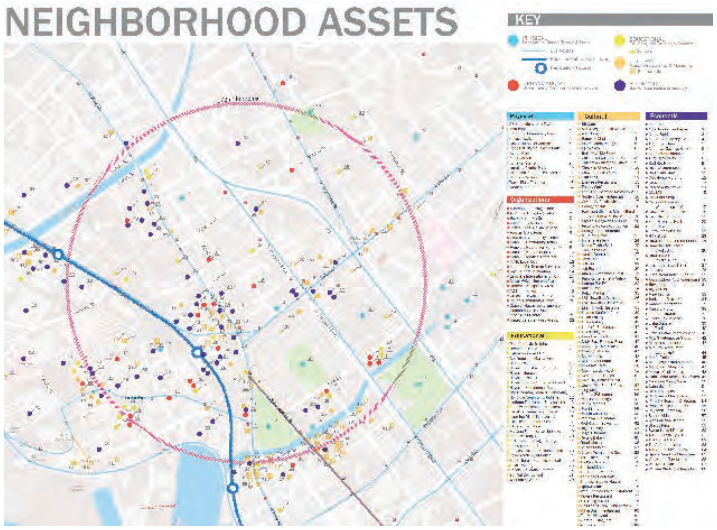
This changing neighborhood demographic was also confirmed by Kelly Bart, the principal of Likelike Elementary School, where he and his staff are constantly adapting to changing languages and cultural traditions that reflect an ever expanding diversity of students, parents and care givers.

Some of these challenges can be moderated through more communication, coordination and collaboration among the many dedicated service providers working in the neighborhood.

CURRENT ASSETS AND RESOURCES

The Hunt design team has initiated the development of an inventory of the many physical, cultural, social, economic, organizational and educational assets and resources that are already available to residents of Mayor Wright Homes. Ideally, this resource will be expanded into a more complete hard copy and also an interactive web-based tool to serve as a "resources road map" for all Mayor Wright Homes residents and Kalihi neighborhood stakeholders.

By far, the most important assets and resources at Mayor Wright Homes are the people who live there. In initial conversations with local residents we found an encouraging combination of strong will and personal passion among the residents who participated. Expanding the resident participation and aligning their passions with productive outcomes presents some important



opportunities to reinforce and greatly expand on an historical "aloha" spirit. To this end we have attempted to identify some initial projects and programs that could promote early wins between the Hunt design/development/construction team, HPHA and the current resident population. The most pressing of these is a plan for temporary relocation of residents during the construction phase of the work.

CURRENT DEMOGRAPHICS

Mayor Wright Homes demographic highlights (2014 American Community Survey):

- **MWH Total Population: 1,571 people**
- **47.2% are under the age of 20 years**
- **7.5% are 65 years and better**
- **74.1% identify as Native Hawaiian or Pacific Islanders**
- **26.0% identify as Asian**
- **42.1% were born in Hawai'i**
- **46.6% are foreign born**

RELOCATION PLAN & PROCESS

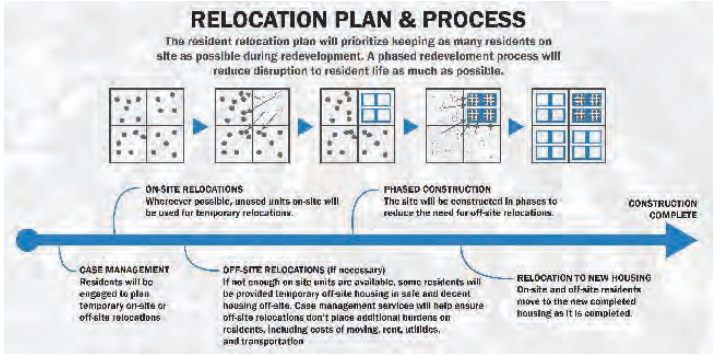
Each existing Mayor Wright Homes resident will go through what will probably be a complex transition to their new home. For some residents, one of the most difficult steps in this process will be a relocation plan. The relocation process outlined in more detail below, offers an opportunity to smooth this transition, in part by connecting those local organizations that have expressed an interest by participating in planning, with each resident and family unit in a focused and meaningful way.

This work will require interviews with each Mayor Wright Homes residential unit to understand their existing status, desired needs for their new residence, number and age of residents, school and work status, and other pertinent data listed below.

- Number and configuration of existing households
- Age range
- Status of parents (single/both parents/guardian)
- Income status
- Education level (adults and children)
- Where do children attend school
- Do parents/guardian attend school meetings, events
- Special education needs
- Daycare needs
- Employment data
- Disability
- Health issues (adults and children)
- Diet/Nutrition
- Transportation needs

This data will inform the relocation plan. In particular, it will aid Hunt in determining the best options for phasing construction so that relocation off site is minimal. It would be most advantageous if the majority of residents can be relocated on the existing site as this is less disruptive and less costly.

A comprehensive plan for relocation can also be shared in the interview, or alternatively in a subsequent meeting. This relocation plan will need to include a complete assessment of each resident's desired bedroom configuration and other needs. This initial data will be used to inform the comprehensive plan and phasing for relocation.



The Relocation Plan will need to include the following:

- Eligibility for Relocation Assistance and Benefits
- Ineligibility for Relocation Assistance
- Relocation Process
- Information Meetings
- Deliver letters/flyers inviting residents
- Detailed presentation to residents from Hunt representatives
- Scope of redevelopment
- Construction timing
- Relocation process, including notices
- Relocation payment and assistance
- Inventory of Characteristics and Needs of Households
- Overcoming Potential Impediments to Relocation
- Moving and Relocation Benefits
- Relocation Process by Phase
- Notices
- Recordkeeping
- Relocation Office and Staff
- Appeals

OTHER SHORT AND NEAR TERM OPPORTUNITIES

Through community meetings, meetings with the CAC and personal interactions, it is apparent that many residents are excited about the prospects of a renewed Mayor Wright Homes community, while others are anxious about the uncertain changes they are facing. To avoid future problems, it is important to engage and prepare all residents, as soon as possible, in a dialogue about their future in the Mayor Wright Homes redevelopment.

There are many organizations in and around the community that have been serving the needs of MWH residents for many years. Most of them see the new Mayor Wright Homes development as

an opportunity to improve the coordination of services and rethink how they can best support the resident community.

By engaging with residents, stakeholders, and nearby service providers, Hunt and its consulting team can strengthen current services, empower local entrepreneurs, support residents during disruption from the demolition and construction process and, in general, lay the groundwork for a thriving new Mayor Wright Homes community.

RESIDENT AND STAKEHOLDER ENGAGEMENT

During the Design Charrette process, meetings were held with key stakeholders to determine some of the strengths, weaknesses, opportunities and threats that might impact the immediate and future Mayor Wright Homes development. Following is a summary of these discussions:

INDIGO REAL ESTATE

The Halekauwila property, which contains 204 units and parking, is successful because Indigo makes sure the building is part of the surrounding community; for example, they participate in community watch and park cleaning, and the Kakaako Community Board meets with residents once a month. The people they service tend to be both older, younger, and includes lots of families. They suggest that for the larger units there should be a minimum of 4 people in 3 bedrooms (largest units). All units there are 60% AMI and everyone pays the same which will be different than Mayor Wright Homes, which will probably accommodate a broader range of income groups. When asked about elevators and children they said they don't have problems or maintenance issues.

Banyan Street Manor is another property with 55 units and parking. For added security, Indigo installed windows in the new management office, where everyone enters and exits, in addition to cameras with highly visible security monitors so people know that constant monitoring is happening. Banyan Street Manor has limited community space–essentially a loading zone with grass–that residents use for birthday parties and other family events. Indigo recommends planning for more community space ahead of time.

Indigo's other properties in Hawaii include the Lokahi Apartments–a three-story walk up with 306 units–and Franciscan Vistas Ewa, a 150-unit complex divided into 25 two-story buildings. The Franciscan Vistas Ewa property has elevators, in addition to community rooms, a fitness center, salon, and heated pool. Activities at Franciscan Vistas Ewa have been very successful, as have the shuttles to grocery stores and programs to reach out to surrounding communities, such as Catholic Charity organized events all over the island.

In order for the Mayor Wright Homes redevelopment to be successful people should not be able to tell which units are affordable and which are not. Designers should pay close attention to the transition of public to private space and be mindful of the ethnic diversity and age diversity of residents.

MAYOR WRIGHT HOMES MANAGEMENT

Cynthia Yoshida, Public Housing Supervisor at Mayor Wright Homes noted that there was at one time an organized resident association that provided some stability to the resident population. However this resident association no longer exists. Programs once included back to school dances, student tutoring, organized sports, food bank and others. Given limited staff and resources,

the resident association served a critical role in being a conduit for resident needs, activities and volunteers to assist with community events. Cynthia feels that a revitalization of a resident association should be a primary goal of a transition plan for the residents.

Additionally, Cynthia shared challenges around relocation, given the shortage of vacant units both in Mayor Wright Homes and the two other public housing communities that are under Cynthia's management. She did allow that there were some seniors that reside in two bedroom units that could be moved to one-bedroom units. Close coordination with Cynthia would be advised as her input and time for advanced planning will be critical in avoiding as much off site relocation as possible during construction.

From the perspective of some current residents, one concern in regard to the market rate units is whether or not people in those units will look down on the public housing residents? In general, it is believed that people who choose to live in a mixed income community would be accepting of the mixed-income community; that some mix of income may be within the same family; that the area will look and feel like a community; and that the transition will address the change in protocols and rules.

Some community representatives who attended the charrette said that keeping the close-knit community culture and feeling of home will be beneficial because they fear the drastic change and loss of community. For example, it will be important to establish a symbiotic relationship between residents and retail/training, and other programs that will be needed to support the overall development.

Resident education will need to drive the development of the lease transitions; for example, financial literacy education will help tenants understand how these units are different than the previous units. Overall a lot of effort will need to go into this transition program to support the new life style.

LEGISLATORS

Senator Susie Chun-Oakland also has a comprehensive database of social service providers and can be a great resource to partners working on the transition support.

It was suggested that there be at least two large scale community events that also include the surrounding neighbors. One would be to share conceptual plan ideas and a final meeting to present the final Master Plan.

It was noted that HHFDC monitors these types of projects, so a goal should be to keep it affordable all the way through to the completion of the deal.

The mixed-income components should occur in discrete phases to enhance the economic mix. This will help it be a sustainable project with a healthy variety of housing alternatives since this year alone the state is 50,000 units short at all income levels. In order to support this, the market analysis (vacancy rate) should be considered based on local residents rather than vacation home investors.

The project will have to include a comprehensive education at all levels to address quality of life and household management.

Other suggestions from the legislators include robust preparation for everyone in the community for the transition with an emphasis on preserving residential character of the area. Opportunities to age in place and increase the walkability should be pursued.

HONOLULU FIRE DEPARTMENT

A majority of the incidents the Hawaii Fire Department (HFD) helps with are medical rather than fire-related, so having more residents at the Mayor Wright Homes redevelopment means that the fire department will be there more often. It will be important that elevators be designed to accommodate a gurney laying down flat to improve response.

With regards to street calming measures, HFD noted this will slow down their response time and that there are design requirements and turning radius requirements they can provide, and that they should try to not make the streets any wider than necessary.

Related concerns are the challenges with addressing the requirements for regular access. The existing security gates are currently too narrow for their equipment and they need to stage trucks outside since not all of them will fit through the gates, so they have to deal with this concern on all emergencies.

They expressed some concern about ladders interacting with power lines on Liliha Street, and would like to have no power lines between where fire trucks need to access the site and facilities. In particular the Liliha Street frontage is a major concern due to traffic and access. They are glad that the entrance from Liliha Street has recently been opened back up.

If the new facilities are high rises, the fire department will need space in front of the building for their ladder trucks.

Because of multiple languages, HFD wants to work with everyone on site so they can introduce them to the principles of working with HFD and teach everyone, including managers, how to take care of themselves (community based).

One of their major concerns is not the separation of occupancies but the availability of combustibles because, in their experience, people light things on fire.

The availability of combustibles must be controlled because, based on their experience, people light things on fire.

Even with a redundant wet system across all floors, they would like to have aerial ladder access up to a certain floor level. Additionally, each floor level should have smoke towers, and there should be a command center on a lower floor with an exit to the outside.

The project needs to ensure that it complies with all code requirements and that the radio strength is adequate. More recently they have been encouraging bi-directional amplifiers so the buildings don't need telephone jacks – which can save costs on the jack system.

KALIHI PALAMA HEALTH CENTER

Kalihi Palama Health Center (KPHC) helps a wide range of patients from the community. Overall their main focus is on healthcare–WIC, dental, optical, behavioral health, diabetes clinics, and healthcare for homeless programs. They help not just with medical services but also with interpretation, homeless or low-income requirement assessment, med quest, food stamps, social services, WIC program, ESL, SNAP, welfare, and paying personal bills.

A major concern they have is where people will go during the interim phases of the project, especially considering literacy and language are huge barriers to the immigrant communities. They receive State and Federal funding and have partnered with HTAP, Helping Hands, and S.A. Kukui Garden. They also provide clothing vouchers to Salvation Army. Some specific outreach (which must be in person) are educational partners that help with checks, bills, etc.; and UH students that work with cultural groups to serve patients from different backgrounds. People come from all over the island but most people find out about the programs through word of mouth. Lastly, KPHC has to be proactive in following up with patients since they won't always hear back from them.

THE SALVATION ARMY

The Salvation Army at Aala St. and Vineyard Blvd. provides rehab for men; family services such as utility assistance and emergency food supplies; budget classes; rental assistance; adult daycare; housing casework for individuals and families; and homeless prevention.

Most recently, the Salvation Army has graduated 15 individuals from their Pathway of Hope project; and while the goal is a 6 month stay, participants are allowed to stay longer if needed. Particular programs that have major outreach at Mayor Wright Homes are the summer camp programs (Wailua) for 7-17 year olds and troops character building program (roughly 30 students/week). While these programs do not garner very much family involvement, many children participate.

HAWAII LITERACY

Hawaii Literacy provides homework help, volunteer tutoring, a big Saturday story hour, the Hawaii Federal Credit Union Children savings bank program. Residents would like to see a head start/ early child care facility on site.

Overall the paperwork barrier for local residents is huge. There are problems with language access and trouble getting information. Residents often say they "don't know what paperwork says," "don't have guardianship papers for children," and "why aren't families doing this/that..?" Residents find many of the organizations they use through word of mouth.

(Note: See Addendum One: Hawaii Literacy "wish list" for a future Family Literacy Library/ Community Learning Center at Mayor Wright Homes)

HAWAII DEPARTMENT OF EDUCATION

Local schools currently cannot serve additional students as they are at capacity. Particularly from Middle Street to Ala Moana there will be a squeeze on educational facilities. Since these areas are an urban model, there is no easy way to get more land through the redevelopment. The Hawaii Department of Education (HIDOE) will need to reconsider school Facilities Assessment and Development Schedules (FADS) because new schools will need to be built more densely as part of an urban model.

Currently, the capital budget is based on number of students. The number of staff the school can hire depends on the student count so HIDOE would like to see the redevelopment keep the numbers per school as stable as possible. The deadline dates for funding allocation based on student population are the 3rd Friday of August, the last Friday of September, and mid-January.

A challenge for this area is that the Mayor Wright Homes TMK is split between 3 elementary schools (K-5) that are each very full so balancing the shift in students will be very important.

(Kaiulani has the largest percent of Mayor Wright Homes students; and roughly 75% of Likelike's students live in Mayor Wright Homes).

Because the student population is split between 3 schools it may be more able to absorb students in each area, although this will need to be coordinated with the Complex Area Supervisor (CAS) Ruth Silverstein. With nearby boundaries, small informal boundary changes will need to be coordinated when looking at phasing components – and based on what is happening in surrounding areas (for example Lanakila HPHA units may be developed to 8 story buildings). But the lines will not change until redevelopment starts happening (and will keep happening until completion). Further, principals can work with surrounding principals on GE's through internal coordination to accommodate some residents/transition.

It appears that middle schools have more space due to the design requirements in place at the time of their design. In general, the middle and high school facilities are not as critical. The DOE was hopeful the project would consider providing space for pre-K, kindergarten, and 1st grades.

HIDOE assumes that if all 1900 units are public housing there will be more students per unit to accommodate. Therefore, the breakdown of unit types will be very important for determining how many students need to be accounted for the development. It is important to note that all of the units consist of a mixed income population as opposed to all being public housing units.

HIDOE has opportunities for finance mechanisms in this area but not land due to limitations of availability, but they like the idea of renovating this area because they hope it will fit more with what the community would like to see. New legislation allows DOE to use land fees for buildings and additions rather than just new school development. While impact fees are not currently law, it may be coming up in the next couple years so the development team should be aware of this potential obligation.

Heidi Meeker, a Land Use Planner for HIDOE, alerted the team to work closely with HIDOE to project in advance the status of student population increases. There will be impact fees due to HIDOE as a result of the project.

Kelly Bart, Principal of Likelike Elementary School, has staff that lives in MWH as well as a number of students. In the past few years they have revamped their parent outreach and now have an average of 30-40 parents that regularly attend school meetings. This is a significant number and a primary resource for organizing around a social transition plan. Kelly suggested that someone attend the Literacy Night held on September 16 as a recruiting and organizing opportunity. There are also new opportunities for involvement in STEM and Science night, and more students for after-school programs in education and enrichment.

Kelly asks parents to come for "coffee hours" where he tries to get translators (Vietnamese, Chinese, Marshallese & Chuukese).

During his time as principal, he has also redone the vision and mission of the school, which has created a more open and inviting approach, resulting in a change in attitude for the better. And while he's always had good participation compared to other schools, they have increased parent participation.

The other two elementary school principals, middle school and two high schools, may also be an organizing source and important partners in the redevelopment.

PALAMA SETTLEMENT

Earl Fusato, Director of the Palama Settlement, responded to an idea that came up in the conversations about the development of a new "Community Services Shuttle Bus" to improve access for all residents to the available services that currently exist the neighborhood. Palama Settlement already has two eight-passenger vans that were recently donated and they sit idle in the parking lot for most of the day. With diligence, these and similar assets could be coordinated for maximum utility.

MAYOR WRIGHT HOMES RESIDENTS

Below are only a few examples of many possible resident led enterprises that could be developed using already existing physical resources, and perhaps some modest financial support from local Non-Government Organizations (NGO) and philanthropic organizations. Or if none of these ideas turn out to be feasible, there might be others that can be identified through some creative one on one interchanges with local residents, with support from local resource providers.

Two residents we spoke with are currently unemployed. However, they said they would be excited to take on work related to their mutual passion for childcare and early childhood development. A niece of one of these residents, who is currently a part time employee in a local bakery, was forthright in adding that her ideal job and personal passion could be met by caring for disabled children.

Another conversation took place with a longstanding, 40-year Mayor Wright Homes resident who has a passion for flowers. She does flower arranging occasionally during holidays at a local department store, where she earns a meager income. In a place where land could be immediately made available for cultivation, we can only wonder whether, with some help, this passionate local resident might be trained to operate a small flower shop and produce an income that is at least equal to, and perhaps even more than her current occasional flower arranging work.

Some people suggested that the site could also serve as a community services hub. This concept could eventually grow into a physical "one stop" hub for on-site community services in the final plan.

Could there be an opportunity to develop a new and, based on our charrette experience, needed community resource related to early childcare development, while at the same time providing meaningful employment for current Mayor Wright Homes residents?

Once initiated, these kinds of programs are free to grow and expand during the ongoing design, construction and post occupancy phases of the project's development. For example, construction job training implemented in the concept or design phase could result in construction jobs in the construction phase. The same could be true for programs in community support services.

Can any or all of these ideas actually make it to the finish line? Through a carefully orchestrated process, with procedures that foster these kinds of initiatives and supporting programs over time, with tangible benefits for the current and future residents of the MWH community, and measurable outcomes for funders, these and many other things might be possible.

ADDITIONAL OBSERVATIONS

Having been on site of the Mayor Wright Homes for a week during the charrette, the team had numerous informal conversations with residents. Follow through with these recommendations can go a long way towards building trust and supporting residents through a successful transition. The following notes captured these important observations.

1. Residents are very picky about losing their homes because it's the only thing they've ever "owned", "what happens to me…?"

2. What will be done for the properties outside the site, because "it's always been slums." This project can become the catalyst for creating new demand for goods and services supported by 1900 units that can't be supported by 364 units.

3. How to represent all nationalities that live there? Be sure to "practice what you preach". How can we use the project to generate and manifest hope, establish trust, and ultimately to fulfill and sustain this trust?

4. Make the project relevant to those that live here. Understand the context in which the project is operating. Make sure that connections are established with residents, and deliver real estate that has adequate utilities, is relevant to the people who will live there, and enhances human capital and economic development.

5. Get to know residents as a whole (treat them all the same).

6. Establish a "Liaison" through which residents can submit questions –create an active "feedback loop", make residents understand they're a part of the project and its future. Listen and respond to what they have to say. Try doing some Potluck meals. Establish some street cred with cross-cultural communities

7. Help residents find jobs where they can demonstrate responsibilities to their community. This will do more to build pride than anything else you can give them. The Choice Neighborhoods program has an Apprenticeship Programs Initiative. It may be a Section 3 requirement.

8. Look to the construction industries as revenue sources. Work with the nearby trade unions.

9. Provide flexible spaces where residents can professionalize their businesses (business incubator). Work with residents to identify organizations and programs that would be good to have on site.

10. Provide day care or parent relief watching (Palama settlement – HS, pre, K, and 1) and an Early Learning Center

11. Get rid of the current stigma of the Mayor Wright Homes. It needs to be viewed as more safe than it is now.

12. Make it more comfortable to walk in the neighborhood. Business owners are looking forward to the project because of the current stigma of the area. Many businesses aren't currently open at night because people don't walk around at night. Palama market is packed into the night now (outside neighborhood, but with no Kalihi people).

13. Design spaces that are flexible enough to transform to multiple uses

14. Education is going to be key for the whole community, not just people on site. The redevelopment should accommodate families and minimize disruptions by minimizing removal and rebuilding. It should get ahead in unit count to reduce displacement with 2nd phase.

15. Nearby property owners don't want their property taxes to go up.

ADDITIONAL OUTSIDE RESEARCH

To illustrate the value of researching and applying lessons learned from other mixed income housing case studies, we have gathered some general information on the Harbor Point development in Boston, MA, which has 1,283 units with modest commercial space on the ground floor. Interestingly, the affordable housing residents are much more stable in staying in the development while market renters see a close to 100% turnover every year.

Harbor Point has a Tenant-at-Risk Committee composed of resident leaders. This committee meets with subsidized households to ensure that the resident is fully aware of the possibility of eviction. In this particular development, evictions in this population are very low. In 1995, approximately 50 households were evicted – most of them market rate renters. The community of former public housing residents and other subsidized renters continue to have a commitment to the project as a place to live and to neighbor. They have much more in common with one another – including children – than they do with the market-rate renters.

This illustrates the importance of supporting a reorganization of a resident's council and community association. As described earlier by the current Mayor Wright Homes property director, their resident organization used to be strong. This group was the communications conduit between management and residents. They developed and implemented a variety of programs and events. The master planning and design phase of this project provides time to organize residents to prepare for relocation and rejuvenation of a similar, but more robust and sustainable neighborhood association.

PRIORITIZED NEXT STEPS

Hunt to create Relocation Plan
- Determine requirements from HPHA
- Identify off site properties for relocation
- Create resident survey

Conduct resident survey
- Establish core team of resident leaders to assist with survey
- Create schedule/timeline for survey
- Analyze and document survey results

Revive Resident Neighborhood Association
- Utilize resident survey as opportunity to invite residents to re-establish association
- Work with core resident leaders to create agenda for a meeting
- Assist residents in the best way possible with goal of a strong association prior to moving into new homes

Strengthen Social Safety Net
- Convene service providers regularly, who have attended meetings
- Address plans for off site and on site services before and after development is completed
- Explore collaborative opportunities for providers to support resident transition into new development

Hunt to create Relocation Plan
- Determine requirements from HPHA
- Identify off site properties for relocation
- Create resident survey

Conduct resident survey
- Establish core team of resident leaders to assist with survey
- Create schedule/timeline for survey
- Analyze and document survey results

Revive Resident Neighborhood Association
- Utilize resident survey as opportunity to invite residents to re-establish association
- Work with core resident leaders to create agenda for a meeting
- Assist residents in the best way possible with goal of a strong association prior to moving into new homes

Strengthen Social Safety Net
- Convene service providers regularly, who have attended meetings
- Address plans for off site and on site services before and after development is completed
- Explore collaborative opportunities for providers to support resident transition into new development

HUMAN CAPITAL MASTER PLANNING RECOMMENDATIONS

The Mayor Wright Homes redevelopment is currently in the Concept Design Phase. One outcome of this phase will be a Physical Master Plan. Concurrent with the development of this physical plan, there should also be a "Human Capital Master Plan" (HCMP) to address the human component of the work.

Upon review of attendees to earlier resident, stakeholder, and CAC meetings in May, and stakeholder meetings during the charrette, the organizations listed in the attached list (See Addendum 2: Human Capital Planning Partners), along with others, should be convened in various ways to participate with Hunt and its consultants in creating the plan that will assist residents with a successful transition to the new Mayor Wright Homes development.

PADDLING TOGETHER

The design of an effective Human Capital Master Plan will require short and long term funding and implementation strategies so that the costs associated with the human capital development effort can be spread across a full range of community development stakeholders. Following is a possible list of players and roles:

• HUNT DEVELOPMENT: MAYOR WRIGHT HUMAN CAPITAL PLAN (HCMP)
At this point there does not appear to be a clear plan for the robust delivery of community support services in tandem with the residents of Mayor Wright Homes. Hunt should consider providing funding and critical leadership for developing this plan, in collaboration with all community support organizations.

• PHILANTHROPY: FUNDING TO NGO ORGANIZATIONS.
Private philanthropy should be invited to participate as co-designers of the HCMP, with the understanding that they will also designate certain financial resources to support the delivery of both existing and new programs and services included in the plan.

• NON GOVERNMENT ORGANIZATIONS: PROGRAMS AND SERVICES
Non-Governmental Organizations (NGOs) should be invited to engage as co-designers of the HCMP, with the understanding that they will also assume responsibility for grant writing, managing and implementing the programs and services outlined in the plan.

• GOVERNMENT: FUNDING AND DELIVERY OF PROGRAMS AND SERVICES
Certain governmental entities should be invited to engage as co-designers of the HCMP, with the understanding that they will assume responsibility for funding, and in some cases implementing certain programs and services outlined in the plan.

• SOCIAL CAPITAL MARKETS: FUNDING FOR PHYSICAL INFRASTRUCTURE
Social Capital Market (SoCap) investors should be invited to engage as co-designers of the HCMP, with the understanding that they will assume responsibility for certain components of the physical infrastructure required to implement the programs and services outlined in the plan.

• RESIDENT PARTICIPATION: RESIDENT "IN KIND" PARTICIPATION
Mayor Wright Homes residents should be invited to engage as co-designers of the HCMP, with the understanding that they will assume responsibility for participating in the implementation of most of the programs and services outlined in the plan.

CONCLUSION

The proposed Mayor Wright Homes Human Capital Master Plan, will be most effectively implemented and funded through a co-design process involving a full spectrum of community support organizations. The goal of the plan will be the creation of an effective, and economical mix of community service programs and services that support the physical, cultural, social, educational, organizational and economic well being of the Mayor Wright Homes community.

This framework for a Human Capital Master Plan for the Mayor Wright Homes was developed for Hunt Development Hawaii by Concordia: Community Centered Planning and Design (Steven Bingler, Bobbie Hill) as part of a team effort with PBR HAWAII and Associates, Inc. (Grant Murakami, Kimi Yuen, Nathalie Razo, Ramsay Taum); Design Partners Inc. (Mike Muromoto, Lena Tamasiro); and Torti Gallas Partners (Neil Payton, Michael Leitner).

ADDENDA

PAGE 19-20 Addendum 1: "WISH LIST" for future Family Literacy Library/ Community Learning Center at Mayor Wright Homes

21 Addendum 2: Human Capital Planning Partners

LAULIMA

"a' o h e hana nui ke alu ' la "
"no work is too big when shared by all".

Hawaii Literacy

United Way
Aloha United Way
Agency #96240

Mayor Wright Homes Family Literacy Library

"WISH LIST" for future Family Literacy Library/ Community Learning Center at Mayor Wright Homes

Highest priority

- Dedicated and lockable Center (not shared community space)
- Floor plan with 1 larger space for group activities (30-40 kids) and several smaller spaces for homework, computers, adult use, classes or quiet reading
- Entire library on one floor, with design to allow for adult, keiki and toddler sections
- Section for 6-8 computers
- Section for small office or 2 staff desks- can be in main area
- A/C and ventilation
- Bathroom
- Furnished kitchen (sink and refrigerator needed) with counter space and cabinets
- Numerous power outlets
- WiFi or access to service

Great to have

- Large Built-in bookshelves
- Locked Storage for supplies
- Enough wall space for large whiteboard/smartboard
- Rubbish container nearby
- Counter space near entrance for sign-in/book checkout/advertising purposes
- Shaded outdoor area for activities, reading and community events

Board of Directors
R. Scott Simon, *President* • Brandon Kurisu, *Vice President*
Aaron K. Masuoka, *Co-Treasurer* • Gayle S. Tasaka, *Co-Treasurer* • Suzanne Skjold, *Secretary*
Jason Fujita • Mitchell Ka'aiali'i • Sean K. Knox • Jason Masaki • Ashlee Matsui • Shaun Salvador • G. Todd Withy • James A. Wong

Hawaii Literacy • 245 N. Kukui Street, Suite 202 • Honolulu, HI 96817
Phone: (808) 537-6706 • Fax: (808) 537-3072 • Web: www.hawaiiliteracy.org

Notes from adult residents collected by Hawaii Literacy

August 7, 2016

Community services they or their families need are:

1) Child care: both Head or Early Start, Tutu and Me program for grandparents and toddlers
2) School age after-school activities: homework, school help, sports and cultural (HL has 1st two onsite)
3) ELL classes and GED classes (Hawaii Literacy has ELL on site)
4) Education and job training classes and programs
5) Elder care or elder support
6) Food distribution (on site now)
7) Summer meals (Hawaii Literacy ran this in 2016 because of need)
8) Health services, including WIC and substance abuse (KPHC has both)
9) Usable indoor and outdoor community spaces and someone to help coordinate and plan
10) A strong tenant's association that includes everyone and listens to even the poor residents
11) Services in close walking distance

Concerns residents shared about current MWH:

1) Poor supervision of very young children
2) Ethnic divisions (blaming Micronesians for all issues)
3) Parking problems
4) Need to care or shelter family members even if they are not on lease
5) Eviction policies should get rid of serious problems but not add up to evict good people on small issues.
6) Do not want high rises (do not want to be like KPT)
7) Want better security—want everyone to know each other and help each other
8) Do not want to live behind fences—more like "real" neighborhood
9) Want parks and more trees (shade)
10) Afraid they will be pushed out (especially elderly on fixed income)

Concerns about Redevelopment:

1) Not enough information about what will happen
2) Want to know dates and where they will go?
3) Feel the decisions are already made (they will not have a voice)

ADDENDUM TWO:
HUMAN CAPITAL PLANNING PARTNERS

KALIHI PALAMA HEALTH CENTER
- Emanual Kintu – CEO. Executive Director *
- Marilyn Boutain
- Marian Bernardino
- Millie Phillip

SALVATION ARMY
- Sarah Codero
- Angela Morrow
- Anna Stone *
- John Chamness *

HAWAII LITERACY (HAS SPACE ON SITE AT MWH)
Suzanne Skjold

PALAMA SETTLEMENT
Earl Fusato, Executive Director
Donna Taniguchi *
Pauni Nagaseu *
Dee Okahara *

YMCA NU'UANU
Diane (don't have last name)

KALIHI YMCA
Tony Pfaltzgraf – Executive Director *

LIKELIKE ELEMENTARY SCHOOL
Kelly Bart – Principal

KA'LULIANI ELEMENTARY SCHOOL
Jill Puletasi – Principal *

LINAPUNI ELEMENTARY SCHOOL
Cindy Sunahara – Principal *
Jodi Tom – Counselor *
Melanie Sagawa – Student Services Coordinator *

CENTRAL MIDDLE SCHOOL
Cindy Yun-Kin – Principal *

MCKINLEY HIGH SCHOOL
Ron Okamura – Principal *

FARRINGTON HIGH SCHOOL
Al Carganila – Principal *

PARENTS AND CHILDREN TOGETHER (PACT)
Ryan Kusumoto – President and CEO *

INSTITUTE FOR HUMAN SERVICES
Connie Mitchell – Executive Director *

WEED AND SEED
Denise Pierson – Program Administrator *
Lori Kanno *

PACIFIC GATEWAY CENTER
Dr. Tin Myaing Thein – Executive Director *

FAITH ACTION FOR COMMUNITY EQUITY (FACE)
Rev. Bob Nakata *
Patrick Zukemura – Lead coordinator *

KALIHI-PALAMA HAWAIIAN CIVIC CLUB
Leimomi Khan – President *

Notes: * Designates names from stakeholder meeting in May included in database. Others attended charrette stakeholder meetings on site.

Additionally, the database from the May meeting includes numerous churches in the neighborhood. These church representatives that attended an initial meeting could be organized to support some component of a transition plan.

EXHIBIT 25

DEPARTMENT OF PLANNING AND PERMITTING

CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET * HONOLULU, HAWAII 96813
Phone: (808) 768-8209 * Fax: (808) 768-4210

SEWER CONNECTION APPLICATION

APPLICATION NO.: **2017/SCA-0438** STATUS: **Approved**

DATE RECEIVED: **03/06/2017** IWDP APP. NO.:

PROJECT NAME: **2017/SCA-0438 MAYOR WRIGHTS HOMES PHASE 1**

$2,769,457.60
Estimated Wastewater System Facility Charge*

LOCATION:

Zone	Section	Plat	Parcel
1	7	029	003

1102 DESHA LN Honolulu / Kapalar **646,654** Sq. Ft.

SPECIFIC LOCATION: **521 NORTH KUKUI STREET**

APPLICANT: **R.M. Towill Corporation**
ATTN: KEVIN MENDES
2024 North King Street Suite 200
Honolulu, HI 96819

DEVELOPMENT TYPE: **Dwelling, Multi-family** SEWER CONNECTION WORK DESIRED:

OTHER USES: **Commercial Grocery, 65,000 SF**
Commercial Outreach Medical, 15,000 SF

NON-RESIDENTIAL AREA: s.f. APPROXIMATE DATE OF CONNECTION:

PROPOSED UNITS	EXISTING UNITS	UNITS TO BE DEMOLISHED
No. of New Units: **650**	No. of Existing Units: **72**	No. of Units to be Demolished: **72**
Studios: **106**	Studios:	Studios:
1-Bedroom: **159**	1-Bedroom:	1-Bedroom:
2-Bedroom: **219**	2-Bedroom:	2-Bedroom:
3-Bedroom: **166**	3-Bedroom:	3-Bedroom:
4-Bedroom:	4-Bedroom:	4-Bedroom:
5-Bedroom:	5-Bedroom:	5-Bedroom:
6-Bedroom:	6-Bedroom:	6-Bedroom:

REMARKS

APPROVAL DATE: **12/18/2017**

EXPIRATION DATE: **12/18/2019**

Valid 2-years after approval date. Construction plans shall be completed and approved within this 2-year period. Construction shall commence within 1-year after approval of plans.
** Applicable WSFC shall be collected at the prevailing rate in accordance with ROH 1990, Chapter 14, Sections 14-10.3, 14-10.4, 14-10.5 and Appendix 14-D.*

REVIEWED BY: ***Keith Miyashiro***

Site Development Division, Wastewater Branch

ExternalID: **059495396-001** JobId: **59495396**

Initial Print Date: Monday December 18, 2017 3:07 pi

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU
630 SOUTH BERETANIA STREET
HONOLULU, HI 96843
www.boardofwatersupply.com

November 9, 2016

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FORD N. FUCHIGAMI, Ex-Officio

ERNEST Y. W. LAU, P.E.
Manager and Chief Engineer

ELLEN E. KITAMURA, P.E.
Deputy Manager and Chief Engineer

Mr. Kevin Mendes
R.M. Towill Corporation
2024 North King Street, Suite 200
Honolulu, Hawaii 96819

Dear Mr. Mendes:

Subject: Your Letter Dated October 18, 2016 Regarding Availability of Water for 2500-Unit Mayor Wright Homes Redevelopment - Tax Map Key: 1-7-029: 003

Thank you for your letter regarding the proposed 2500 unit residential and commercial Mayor Wright Homes redevelopment.

The existing water system is adequate to accommodate the proposed residential and commercial redevelopment. However, please be advised that this information is based upon current data, and therefore, the Board of Water Supply reserves the right to change any position or information stated herein up until the final approval of the building permit application. The final decision on the availability of water will be confirmed when the building permit application is submitted for approval.

Water conservation measures are recommended for all proposed projects. These measures include utilization of nonpotable water for irrigation, using rain catchment, drought tolerant plants, xeriscape landscaping, efficient irrigation systems, such as a drip system and moisture sensors, and the use of Water Sense labeled ultra-low flow water fixtures and toilets.

When water is made available, the applicant will be required to pay our Water System Facilities Charges for resource development, transmission and daily storage.

The on-site fire protection requirements should be coordinated with the Fire Prevention Bureau of the Honolulu Fire Department.

If you have any questions, please contact Robert Chun, Project Review Branch of our Water Resources Division at 748-5443.

Very truly yours,

ERNEST Y. W. LAU, P.E.
Manager and Chief Engineer

2024 N. King Street
Suite 200
Honolulu, Hawaii 96819-3494
Telephone 808 842 1133
Fax 808 842 1937
eMail: rmtowill@rmtowill.com

R. M. TOWILL CORPORATION
SINCE 1930

Planning
Engineering
Environmental Services
Photogrammetry
Surveying
Construction Management

October 17, 2016

Mr. Ernest Y. W. Lau
Manager and Chief Engineer
Board of Water Supply
City and County of Honolulu
630 South Beretania Street
Honolulu, Hawaii 96843

Dear Mr. Lau:

Request for Water Availability
Due Diligence Study for Redevelopment of Mayor Wright Homes
Tax Map Key: (1) 1-7-029: 003

On behalf of our client and the land owner, State of Hawaii, we request a determination of water availability for the subject project for due diligence purposes.

The redevelopment project includes demolition of the existing multi-family units, and construction of new multi-family units and commercial/retail areas. An existing location plan and unit count summary are attached for your reference.

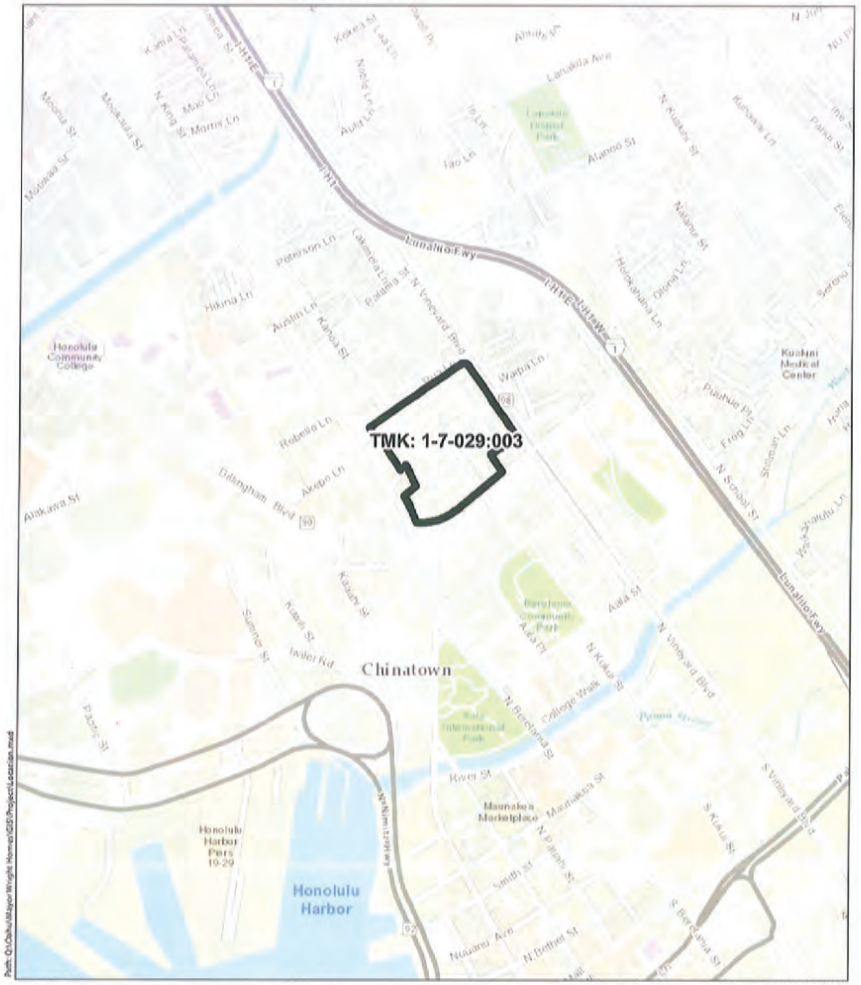
Thank you in advance for your assistance. Please contact me at 748-7479 or by email, kevinm@rmtowill.com if you have any questions or need additional information.

Very truly yours,

Kevin Mendes, P.E.
Project Manager

KM:mn
k:\civil\027127-mayor wright homes dd\doc\water\water availability\wwwwater availability.doc

Attachments



DATE: 5/6/2016

LEGEND
Project Site

Regional Location Map
Mayor Wright Homes

Source: ESRI World Street Map, 2016.
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.

Request for Water Availability				
Due Diligence Study for Redevelopment of Mayor Wright Homes				
Tax Map Key: (1) 1-7-029: 003				
	October 17, 2016			
			Unit Average	
		Total Units	Daily Demand	Total Area
		(ea)	(gpd/unit)	(sf)
EXISTING TO BE DEMOLISHED				
	Multi-Family Low Rise	(364)	400	
PROPOSED				
	Multi-Family Low Rise	1,015	400	
	Multi-Family High Rise	1,485	300	
		2,500		
	Commercial/Retail			75,000
	TOTAL PROPOSED			
NET INCREASE		**2,136**		**75,000**

Preliminary Engineering Report

for

Mayor Wright Homes Redevelopment
Honolulu, Oahu, Hawaii
TMK: (1) 1-7-029: 003

Prepared For:

PBR Hawaii
1001 Bishop Street, Suite 650
Honolulu, Hawaii 97813

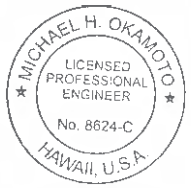
Prepared By:

R. M. Towill Corporation
2024 N. King St., Suite 200
Honolulu, Hawaii 96819

January 5, 2018

Preliminary Engineering Report

Project Name:	Mayor Wright Homes Redevelopment
Location:	Honolulu, Oahu, Hawaii
Tax Map Key:	(1) 1-7-029: 003
Zone:	A-2, Apartment Medium Density
Project Area:	14.85 Acres
Owner:	Hawaii Public Housing Authority
Engineering Consultant:	R. M. Towill Corporation 2024 N. King Street, Suite 200 Honolulu, Hawaii 96819-3470 Phone: (808) 842-1133
Date:	January 5, 2018



This work was prepared by me
or under my supervision.

Michael H. Okamoto 4/30/18
Signature Exp. Date

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I. Project Description

A. Overview

The proposed Mayor Wright Homes Redevelopment project is a public housing project that will redevelop the existing 364 housing units into approximately 2,500 units on 14.8 acres of land. In addition to the 2,500 residential units, 80,000 square feet of retail and commercial area and parking spaces will also be incorporated into the redevelopment plan. The project is being developed by Hunt Companies for the State of Hawaii, Hawaii Public Housing Authority.

B. Location

The project site is located in Honolulu, Island of Oahu, Hawaii, Tax Map Key (TMK) 1-7-029:003. The project is bounded by North Vineyard Boulevard, Liliha Street, N. King Street and Pua Lane. See Figure 1 for Location Map.

C. Study Purpose and Scope

This report will present and summarize the infrastructure requirements for the project. The report will include information on existing and proposed conditions, identify potential impacts and mitigation measures to accommodate the proposed development.

II. Existing Site Conditions

A. General

Mayor Wright Homes is currently comprised of 35 two and three-story barracks style buildings arranged in a grid pattern. The 35 buildings total up to 364 residential units.

B. Topography

The topography in this region is flat to moderately sloped in a north to south direction. The approximate ground elevations range from ~9 ft. to ~27 ft. above mean sea level based on a topographic map prepared by Hawaii Engineering Group, dated August 26, 2016. See Figure 3 for Existing Topography Map.

C. Geology and Soils

Based on the *U.S. Soil Conservation Service Soil Survey (1972)*, the majority of existing soils within the project site are classified as Ewa Silty Clay Loam (EmA). Ewa Silty Clay Loam has slopes that range from 0%-2%. This type of soil generally has a surface layer, about 29-inches thick, of silty clay loam. The lower 29-39 inches consist of bedrock. Runoff is very slow, and erosion hazard is no more than slight.

The eastern corner of the site is classified as Kaena Clay (KaB). Slopes range from 2%-6%, with a surface layer, about 10-inches thick, of clay. The lower 10 to 54 inches consists of stony clay. Runoff is slow, and erosion hazard is slight.

See Figure 5 for Soils Map.

D. Climate

The project site is located in metro Honolulu, and receives a moderate amount of rainfall each year with an average annual rainfall of approximately 29 inches. The wettest month is December, with an average monthly total of approximately 4.2 inches. The driest month is August, with an average total of 1.1 inches. The average annual air temperature is approximately 78 degrees F.

E. Land Use

The zoning designation of project site is A-2 (Apartment, Medium Density).

F. Flood Hazard Determination

Based on the Federal Emergency Management Agency, Flood Insurance Rate Map (FIRM), Panel 354 of 395 dated January 19, 2011, the project site is located in the Zone X, areas determined to be outside of the 0.2% annual chance floodplain. See Figure 4 for FIRM Map.

III. Site and Roadways

A. Existing Conditions

Existing roadways along the boundary of the project include N. Vineyard Boulevard (State) to the north, N. King St. (City) to the south, Pua Lane (City) to the west, and Liliha Street (State) to the east. Existing open spaces on site include courtyards and parking lots. N. Kukui Street (Private) connects to Pua Lane and Liliha Street and is the main vehicular access to the site. Several lanes within the site provide access to existing buildings and terminate as dead ends.

N. Vineyard Blvd. is a six-lane, divided urban arterial highway. It serves as a significant local thoroughfare, as well as a freeway bypass to carry some overflow traffic from the H-1 freeway.

N. King Street is a four lane, undivided urban arterial highway with separate turn and auxiliary lanes. It is an important street for accessing downtown Honolulu, and holds historical value as what was once the main connector from the harbor to Honolulu. Presently, few remaining retail shops and deteriorating buildings give N. King Street an ancient character.

Pua Lane is a two lane, undivided local street. It serves as a connecter between N. Vineyard Blvd. and N. King Street, as well as providing direct access to Mayor Wright Homes. Access to additional residential and commercial areas in abutting properties are also provided by Pua Lane.

Liliha Street is a four-lane, undivided urban arterial highway. It is a heavily trafficked connection beginning at the Dillingham Blvd./N. King Street intersection, passing under the H-1 Freeway, and leading to Nuuanu. A driveway connection to N. Kukui Street off of Liliha Street provides direct access to the project site. On-street parking is located on the west side of the street.

Traffic signals are located at the N. King Street/Liliha Street, N. King Street/Pua Lane, Liliha Street/N. Vineyard Blvd., Liliha Street/N. Kukui Street, and N. Vineyard Blvd./Pua Lane intersections.

See Figure 2 for Existing Site Plan.

B. Proposed Conditions

The proposed development includes a mix of podium and tower style buildings totaling approximately 2,500 residential units. The project is estimated to be developed in five increments identified as "blocks" in this preliminary engineering report (PER). Up to 80,000 square feet of retail/commercial area is proposed for the project. Parking accommodations for the proposed development will meet City requirements for a (transit oriented development (TOD). For the purpose of this PER, approximately 3,200 stalls were estimated. A community park and community gardens will be located within the development.

Interior, private roads will facilitate multi-modal circulation through the development. New driveway connections will be provided at N. Vineyard Blvd. (1), N. King St. (1) and Pua Lane (2). The proposed development aims to connect all the blocks by utilizing pedestrian friendly streets that converge at a community park.

See Figure 6 for Proposed Site Plan.

C. Transportation Assessment

Existing Conditions:

A preliminary transportation impact analysis report for the redevelopment of the Mayor Wright Homes was prepared by Fehr & Peers. It was determined that most of the signalized intersections in the vicinity of the site are operating at close to the City and County of Honolulu's Desirable operating threshold [Level of Service (LOS) D or better]; and at two locations, undesirably at LOS E or F during peak times.

The two intersections that are currently operating poorly are Liliha St./Dillingham Blvd./N. King St. and Liliha St./N. Vineyard Blvd. These two intersections would

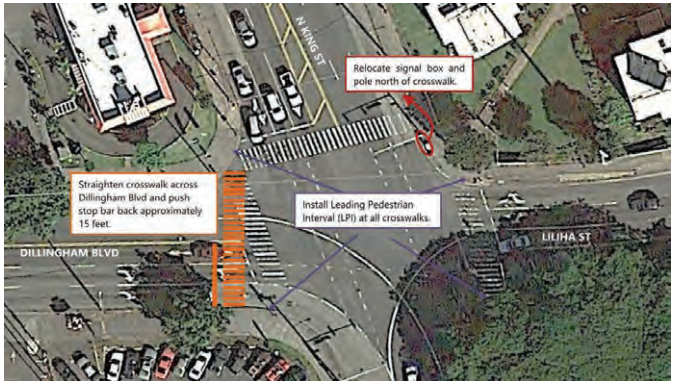
be impacted with the first phase of construction (Block B2) and several improvements would be needed to mitigate the project's impact.

Proposed Mitigations:

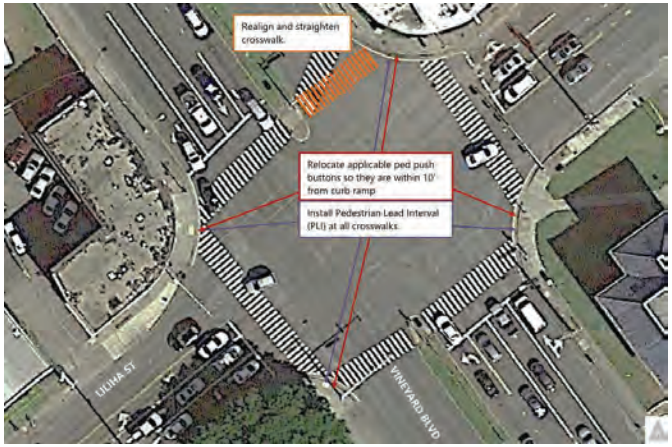
At the Liliha St./Dillingham Blvd./N. King St. intersection, there are no feasible roadway capacity enhancements that can be implemented without significant right-of-way acquisitions on other properties. The State of Hawaii Department of Transportation (HDOT) stated that in lieu of increasing vehicle capacity to mitigate the project's impact, HDOT is a proponent for implementing safety enhancements for pedestrians and bicycles at the intersection.

At the Liliha St./N. Vineyard Blvd. intersection, an additional turn lane could be achieved by narrowing the existing through lanes to 11 feet, narrowing the two left turn lanes to 10 feet, maintaining the through/right lanes at 13 feet, and taking approximately 4 feet of the existing median. The remaining median would still satisfy the Americans with Disabilities Act (ADA) guidelines of being an area of refuge with minimum width of 6 feet. Similarly to the Liliha St./Dillingham Blvd./N. King St. intersection, HDOT is supportive of pedestrian enhancements at this intersection.

Proposed pedestrian enhancements for both intersections can be seen in the figures below.



Liliha Street/Dillingham Blvd./N. King Street Intersection



Liliha Street/N. Vineyard Blvd. Intersection

IV. Grading and Drainage

A. Existing Runoff

The existing on-site runoff generally flows towards the southern corner of the site in a north to south direction and is conveyed to the City's storm drainage system through inlets, catch basins and culverts. Off-site runoff from adjacent streets are conveyed to the City's drainage system via concrete curb and gutter and catch basins and does not enter into the project site.

Onsite drainage was analyzed in three drainage areas. Drainage area 1 is delineated by the area between N. Vineyard Blvd. and N. Kukui Street and consists of a drainage area of approximately 7.2 acres. Drainage area 2 is delineated by the area between N. Kukui Street and N. King Street and has a drainage area of approximately 4.8 acres. Drainage area 3 (Phase 1 of the development) is approximately 2.8 acres. Runoff quantities were calculated for the 10-year 1-hour and a 50-year 1 hour storm events for each of the drainage areas. The results of the analysis are summarized in the table below.

EXISTING RUNOFF QUANTITIES

Storm Event	Drainage Area	Description	Q (cfs)	C	I (in./hr.)	Corr. Factor	A (ac.)
10-yr, 1-hr	1	Roofs, Pavement, Sidewalk	24.39	0.90	2.34	2.80	4.14
		Green Areas	5.98	0.30	2.34	2.80	3.04
		Subtotal	**30.4**				
	2	Roofs, Pavement, Sidewalk	14.55	0.90	2.34	2.80	2.47
		Green Areas	4.64	0.30	2.34	2.80	2.36
		Subtotal	**19.2**				
	3 (Phase 1)	Roofs, Pavement, Sidewalk	10.99	0.90	2.34	2.80	1.86
		Green Areas	1.95	0.30	2.34	2.80	0.99
		Subtotal	**12.9**				
		Total	**62.5**				
50-yr, 1-hr	1	Roofs, Pavement, Sidewalk	35.24	0.90	3.38	2.80	4.14
		Green Areas	8.64	0.30	3.38	2.80	3.04
		Subtotal	**43.9**				
	2	Roofs, Pavement, Sidewalk	21.02	0.90	3.38	2.80	2.47
		Green Areas	6.71	0.30	3.38	2.80	2.36
		Subtotal	**27.7**				
	3 (Phase 1)	Roofs, Pavement, Sidewalk	15.88	0.90	3.38	2.80	1.86
		Green Areas	2.82	0.30	3.38	2.80	0.99
		Subtotal	**18.7**				
		Total	**90.3**				

B. Existing Drainage System

Runoff from the site discharges to 2 (two) separate drainage systems. The drainage system in drainage area 1 consists of inlets and catch basins and culverts ranging in size from 8-inches to 24-inches in diameter. Runoff from the drainage area discharges a 10-year peak flow 30.4 cfs to an existing 28" x 14" box culvert which crosses under Liliha Street. Runoff is conveyed around Beretania Community Park and ultimately discharges into Nuuanu Stream which is located south-east of the project site.

The drainage system in drainage area 2 consists of inlets and catch basins and culverts ranging in size from 12-inches to 24-inches in diameter and discharges a 10-yr peak flow of 32.1 cfs to an existing 24-inch culvert located in N. King Street. The City Drainage System connects to the private Castle and Cooke drainage system that includes a drainage pumping station near Best Buy, Iwilei. Runoff ultimately discharges into Kapalama Canal via a grassed open channel located west of the project site.

See Figures 7 and 8 for Existing Drainage System.

C. Proposed Runoff

The proposed project will be designed to direct storm water runoff away from the buildings and structures toward open grassed or paved areas. The project will be designed to maintain existing drainage flow patterns, to the maximum extent practicable to minimize adverse impacts to downstream improvements. Storm water runoff from the open grassed and paved areas will be captured via surface catch basins and inlets and conveyed through an underground drainage system. Storm water runoff from the project will discharge to the existing Liliha Street and N. King Street drainage systems but will be limited to pre-development runoff quantities.

Any increase in runoff generated from the proposed improvements which adversely impacts downstream improvements will be mitigated by retaining the runoff on-site in accordance with the City and County of Honolulu's *Storm Drainage Standards (2000)*. Runoff quantities for proposed conditions were calculated for the 10-year and a 50-year 1 hour storm events and compared to existing runoff quantities to determine the increase in runoff generated from the project. The results of the analysis are summarized in the tables below. Based on the results, approximately 26,235 cubic feet of runoff would need to be retained on-site for the overall development plan and approximately 7,870 cubic feet would need to be retained for phase 1.

PROPOSED RUNOFF QUANTITIES

Storm Event	Drainage Area	Description	Q (cfs)	C	I (in./hr.)	Corr. Factor	A (ac.)
10-yr, 1-hr	Phase 1	Roofs, Pavement, Sidewalk	16.85	0.90	2.34	2.80	2.86
		Green Areas	0.47	0.30	2.34	2.80	0.24
		Subtotal	**17.3**				
	Balance of overall development	Roofs, Pavement, Sidewalk	55.01	0.90	2.34	2.80	9.33
		Green Areas	4.76	0.30	2.34	2.80	2.42
		Subtotal	**59.8**				
		Total	**77.1**				
50-yr, 1-hr	Phase 1	Roofs, Pavement, Sidewalk	24.34	0.90	3.38	2.80	2.86
		Green Areas	2.03	0.90	3.38	2.80	0.24
		Subtotal	**26.4**				
	Balance of overall development	Roofs, Pavement, Sidewalk	79.47	0.90	3.38	2.80	9.33
		Green Areas	6.87	0.30	3.38	2.80	2.42
		Subtotal	**86.3**				
		Total	**112.7**				

NET INCREASE IN RUNOFF

Storm Event	Storm Event	Exist. Q (cfs)	Prop. Q (cfs)	Net Increase (cfs)	Required Volume (cf)
10-yr, 1-hr	Phase 1	12.9	17.3	4.4	7,872
	Balance of overall development	49.6	59.8	10.2	18,364
	Total			**14.6**	**26,235**
50-yr, 1-hr	Phase 1	18.7	26.4	7.7	13,807
	Balance of overall development	71.6	86.3	14.7	26,525
	Total			**22.4**	**40,332**

D. Proposed Drainage System

The drainage system for the proposed development will consist of roof downspouts, grassed swales, concrete curb and gutter, inlets and catch basins and underground pipes to capture and convey runoff to the existing drainage systems on Liliha Street and N. King Street and to on-site retention systems.

Retention of increased runoff due to the proposed improvements will be accomplished by on-site retention basins, underground storage units or infiltration methods. Opportunities to reuse rainwater captured in catchment basins will also be explored in the detailed design phase.

V. Water Quality

The City & County of Honolulu recently adopted new guidelines related to storm water quality. The Rules Relating to Water Quality (2016) apply to all development and land disturbing activities within the City and County of Honolulu and establish minimum requirements for the selection, design, implementation and maintenance of Best Management Practices (BMPs). The new guidelines go into effect on August 16, 2017.

A. Erosion and Sediment Control

The proposed development is classified as a Category 5 project and will adhere to all requirements set forth in the applicable section for that classification. The requirements for Category 5 projects include:

- An Erosion and Sediment Control Plan (ESCP) must be prepared by an Engineer licensed in the State of Hawaii;
- An ESCP Coordinator must be designated and shall be responsible for implementing the ESCP at the project site;
- A National Pollutant Discharge Elimination System (NPDES) General/Individual Permit Authorizing Discharges of Storm Water Associated with Construction shall be obtained from the Department of Health (DOH);
- Erosion Control BMPs;
- Sediment Control BMPs;
- Good Housekeeping BMPs;
- Dewatering non-storm water
- Hydrotesting water;
- BMP inspections and form completion, pre-construction and once every seven days, conducted by the ESCP Coordinator.

B. Post Construction

The proposed development is classified as a Priority A project and will adhere to all requirements set forth in the applicable section for that classification. The requirements for Priority A projects include:

- Retain on-site as much of the Water Quality Volume (WQV) as feasible;
- Biofilter the remaining portion of the WQV that is not retained on-site as feasible;
- If infeasible to retain and/or biofilter the WQV, one of the following alternative compliance measures is required:
    - Treat and discharge any portion of the WQV that is not retained on-site or biofiltered;
    - Retain or biofilter at an off-site location the equivalent volume of the WQV that is not retained on-site or biofiltered.
- Incorporate appropriate LID Site Design Strategies to the MEP;

- Incorporate Source Control BMPs to the MEP;
- A Storm Water Quality Strategic Plan shall be submitted with or as a part of the Master Development Plan for Department review;
- A Storm Water Quality Report shall be prepared by a Certified Water Pollution Preparer (CWPPP) and must be reviewed and approved prior to issuance of permits for development.

C. Low Impact Development

An important aspect in modern day design is Low Impact Development or Low Impact Design (LID). LID is an approach sought out by planners, engineers and regulatory boards to reduce the environmental impacts from new development or redevelopment. LID aims at reducing the environmental footprint while maintaining or enhancing the owner/developer's purpose and vision of the site. On the subject of water quality, there are two types of BMPs – Source Control and Treatment Control.

Source Control is the practice of preventing storm water from contacting work areas, and preventing pollutants from contacting surfaces that come into contact with storm water. Source controls for this project may include the following:

- Landscape areas – all areas that do not consist of concrete or asphalt will consist of grass and trees.
- Automatic Irrigation Systems – landscape areas will have an automatic irrigation system
- Storm drain inlets – signs and/or stencils will be placed directly adjacent to all inlets.
- Loading Docks – loading areas will be paved with concrete and if necessary, an engineered infiltration system will be installed.
- Outdoor Trash Storage – Outdoor trash bins will be covered, on paved surfaces, and will not be located near storm drains.
- Parking Areas – pavement runoff will be directed towards vegetated/landscaped areas if possible.

Treatment Control BMPs are engineered techniques designed to remove pollutants from storm water runoff prior to discharge to the storm drain system or receiving waters. Treatment Control BMPs may include methods such as retention, biofiltration and alternative compliance BMPs.

Retention:
Where applicable, runoff from rooftops or impervious surfaces will be conveyed to rain gardens and catchment basins. The proposed open space/park and underground storage units may be used to serve as an infiltration basin for

stormwater to be stored and filtered into the soil matrix. Runoff captured in catchment basins will be filtered and reused wherever possible.

D. Treatment Control BMPs Numeric Sizing Criteria

Treatment Control BMPs are sized for either volume, flow, or demand, depending on the BMP. Preliminary calculations were performed to determine water quality volume and flow quantities. The results of the analysis are summarized in the table below.

WATER QUALITY VOLUME SUMMARY

Drainage Area	Required V (cf)	P	% Impervious	C	A (ac.)
Phase 1	**14,847**	1.50	92%	0.88	3.10
Balance of overall development	**48,918**	1.50	79%	0.76	11.75

WATER QUALITY FLOW SUMMARY

Drainage Area	Description	Required Q (cfs)	Factor	C	I (in./hr.)	A (ac.)
Phase 1	Roofs, Pavement, Sidewalk	1.37	1.50	0.80	0.40	2.86
	Green Areas	0.01	1.50	0.10	0.40	0.24
Balance of overall development	Roofs, Pavement, Sidewalk	4.48	1.50	0.80	0.40	9.33
	Green Areas	0.15	1.50	0.10	0.40	2.42
	Total	**4.6**				

VI. Water System

A. Existing Conditions

The potable and fire protection water service is provided by the City and County of Honolulu, Board of Water Supply's Metro 180 system which provides service from Pearl City to East Honolulu. A maximum water pressure (static) of 67 psi is anticipated at the site. The Honolulu Board of Water Supply (BWS) no longer does flow tests on the existing City system, but the available residual peak flow pressure at the site can be determined by their computer model. The private system can be flow tested to verify the results of the model.

Existing water systems adjacent to the project site include 24-inch and 42-inch transmission mains on N. King Street, N. Vineyard Blvd., and Pua Lane. 12-inch mains are located in Liliha Street and N. Kukui Street. Existing fire hydrants are

located around the perimeter of the project boundary and along N. Kukui Street, within the project site.

See Figure 12 for Existing Water System.

B. Criteria and Methodology

A potable water system will be designed in accordance with the Board of Water Supply (BWS) *Water System Standards (2002)*. The design criteria for domestic water consumption are summarized in the table below.

DIVISION 100 - PLANNING

Table 100-18 - DOMESTIC CONSUMPTION GUIDELINES

AVERAGE DAILY DEMAND*

ZONING DESIGNATION	HAWAII	KAUAI	MAUI	OAHU
RESIDENTIAL:				
Single Family or Duplex	400 gals/unit	500 gals/unit	600 gals/unit or 3000 gals/acre	500 gals/unit or 2500 gals/acre
Multi-Family Low Rise	400 gals/unit	350 gals/unit	560 gals/unit or 5000 gals/acre	400 gals/unit or 4000 gals/acre
Multi-Family High Rise	400 gals/unit	350 gals/unit	560 gals/unit	300 gals/unit
COMMERCIAL:				
Commercial Only	3000 gals/acre	3000 gals/acre	6000 gals/acre	3000 gals/acre
Commercial/Industrial Mix	--	5000 gals/acre	140 gals/1000 sq. ft.	100 gals/1000 sq. ft.
Commercial/Residential Mix	--	3000 gals/acre	140 gals/1000 sq. ft.	120 gals/1000 sq. ft.
RESORT (To include hotel for Maui only)	400 gals/unit (1)	350 gals/unit	350 gals/unit or 17000 gals/acre	350 gals/unit or 4000 gals/acre
LIGHT INDUSTRY:	4000 gals/acre	4000 gals/acre	6000 gals/acre	4000 gals/acre
SCHOOLS, PARKS:	4000 gals/acre or 60 gals/student	4000 gals/acre or 60 gals/student	1700 gals/acre or 60 gals/student	4000 gals/acre or 60 gals/student
AGRICULTURE:		2,500 gals/acre	5000 gals/acre	4000 gals/acre

* - Where two or more figures are listed for the same zoning, the daily demand resulting in higher consumption use shall govern the design unless specified otherwise.
(1) - Subject to special review and control by the Manager.

The BWS has been discussing with the Department of Planning and Permitting (DPP) a modified design criteria for Transit Oriented Development (TOD). Water demands will be adjusted for the modified design criteria once the criteria is finalized.

C. Projected Water Demands

Phase 1 of the Mayor Wright Homes Redevelopment project includes 650 residential units and up to 80,000 square feet of retail and commercial space to be conservative. The first phase is estimated to generate a net increase in total average daily potable water demand of approximately 0.23 million gallons per day (mgd), a maximum daily demand of 0.34 mgd, and a peak hour demand of 0.69 mgd. The projected potable water demands from the Phase 1 development are listed in the table below.

The overall development plan includes up to 2,500 residential units and up to 80,000 square feet of retail and commercial space. The project is estimated to generate a net increase in total average daily potable water demand of approximately 0.87 million gallons per day (mgd), a maximum daily demand of 1.31 mgd, and a peak hour demand of 2.62 mgd. The projected potable water demands from the development are listed in the tables below.

PHASE 1 WATER DEMAND SUMMARY

	Desc.	Area (SF)	Units	Usage (gal. per unit)	Unit Average Daily Demand (gpd/1000 sf)	Unit Average Daily Demand (gpd/1 ac)	Avg. Daily Demand (gpd)	Max. Daily Demand (gpd)	Peak Hour (gpd)	Fire Flow (gpm)
Existing	Demolish exist. buildings		(102)	400			(40,800)	(61,200)	(122,400)	
Proposed	Retail/Community Space	80,000			120		9,600	14,400	28,800	2,000
	Residential		650	400			260,000	390,000	780,000	2,000
	Park	10,400				4,000	954	1,431	2,861	1,000
		Net Increase	**548**				**229,754**	**344,631**	**689,261**	

OVERALL DEVELOPMENT WATER DEMAND SUMMARY

	Desc.	Area (SF)	Units	Usage (gal. per unit)	Unit Average Daily Demand (gpd/1000 sf)	Unit Average Daily Demand (gpd/1 ac)	Avg. Daily Demand (gpd)	Max. Daily Demand (gpd)	Peak Hour (gpd)	Fire Flow (gpm)
Existing	Demolish exist. buildings		(364)	400			(145,600)	(218,400)	(436,800)	
Proposed	Retail/Community Space	80,000			120		9,600	14,400	28,800	2,000
	Residential		2,500	400			1,000,000	1,500,000	3,000,000	2,000
	Park	115,800				4,000	10,632	15,948	31,895	1,000
		Net Increase	**2,136**				**874,632**	**1,311,948**	**2,623,895**	

D. Proposed Water System

The necessary water system facilities will be installed to serve the development and are anticipated to include water mains, laterals and fire hydrants for domestic and fire protection services. In addition, booster pumps will be required to provide fire protection to the proposed building structures.

New 12-inch and 8-inch waterlines are proposed within the site and and will connect to the existing 12-inch main in Liliha Street.

See Figure 13 for Proposed Water System Plan.

E. Impacts and Mitigation

Based on a water availability request for 2,500 residential units and 75,000 sf of retail and commercial development, BWS responded with a letter dated November 9, 2016 confirming that the existing water systems are adequate to accommodate the proposed demand. Additional coordination with BWS is required to confirm water availability for the increase in retail and commercial development from 75,000 sf to 80,000 sf. The final decision on the availability of water will be confirmed when the building permit application permit is submitted for approval and Water System Facilities Charges are paid for by the applicant.

VII. Sewer System

A. Existing Conditions

Existing sewer mains, varying in size from 8-inch to 16-inches in diameter, are located in Pua Lane, Liliha Street, and N. King Street. Existing 6-inch and 8-inch diameter sewer mains are located within the project site and connect to an 8-inch sewer line in N. King Street (via Desha Lane) and to an 8-inch sewer line in Liliha Street.

An existing 10-inch sewer main along Pua Lane connects to a 16-inch main in N. King Street. An 8-inch sewer main in Liliha Street splits into 8-inch and 12-inch mains and connects to a 12-inch sewer main in N. King Street. Sewer flows from the project site are conveyed to the Awa Street pump station from sewer lines in Dillingham Blvd. and N. King Street. The Awa Street pump station lifts sewer flow to the 54-inch sewer main located in Nimitz Hwy. which conveys sewer to the existing Hart pump station, to be pumped to the Sand Island Wastewater Treatment Plant.

See Figure 10 for Existing Sewer System.

B. Criteria and Methodology

The sewer system will be designed in accordance with the City and County of Honolulu's *Design Standards of the Department of Wastewater Management (1993)*, and is proposed to be dedicated to the City.

C. Projected Wastewater Contributions

The Phase 1 design is estimated to include 650 residential units and 80,000 square feet of retail and commercial space. The project will have an estimated net increase in average daily wastewater contribution of approximately 0.14 million gallons per day (mgd), a max design contribution of 0.56 mgd and a peak design contribution of 0.56 mgd over existing flows. The projected contributions from the Phase 1 development are listed in the table below.

The ultimate design includes up to 2,500 residential units and up to 80,000 square feet of retail and commercial space. The project will have an estimated net increase in average daily wastewater contribution of approximately 0.52 million gallons per day (mgd), a max design contribution of 1.54 mgd and a peak design contribution of 1.54 mgd. The projected contributions from the development are listed in the tables below.

PHASE 1 SEWER DEMAND SUMMARY

	Desc.	Units	Acres	Capita	Gal/Capita/Day	Design Avg. Flow (mgd)	Design Max Flow (mgd)	Design Peak Flow (mgd)
Existing	Demolish exist. buildings	(102)	2.99	286	80	(0.024)	(0.116)	(0.120)
Proposed	Retail/Community Space	-	1.84	74	80	0.161	0.676	0.680
	Residential	650	1.16	1820	80			
	Net Increase	**548**				**0.137**	**0.560**	**0.560**

OVERALL DEVELOPMENT SEWER DEMAND SUMMARY

	Desc.	Units	Acres	Capita	Gal/Capita/Day	Design Avg. Flow (mgd)	Design Max Flow (mgd)	Design Peak Flow (mgd)
Existing	Demolish exist. buildings	(364)	14.86	1020	80	(0.087)	(0.411)	(0.430)
Proposed	Retail/Community Space	-	1.84	74	80	0.601	1.949	1.967
	Residential	2500	13.03	7000	80			
	Net Increase	**2,136**				**0.515**	**1.537**	**1.537**

D. Proposed Wastewater System

The necessary sewer system facilities will be installed to serve the development and are anticipated to include gravity sewers and related appurtenances. Facilities will be designed to meet the standards of the City and County of Honolulu. All sewer facilities within public roads will be dedicated to the City.

New sewer connections to existing manholes will be provided along Pua Lane and connections to an existing 8-inch stubout and manhole will be provided along Liliha Street. A sewer connection to an existing 8-inch stubout will be provided at the Makai boundary of the project at Desha Lane.

See Figure 11 for Proposed Sewer System.

E. Impacts and Mitigation

A sewer connection application was approved by the City on 12/18/17 for 650 residential units and 80,000 square feet of commercial space.

A Global Consent Decree (GCD), entered between the City and County of Honolulu, Department of Environmental Services (ENV), U.S. Environmental Protection agency and the State of Hawaii Department of Health outlined improvements to be implemented to the CCH waste water collection and treatment systems. The CCH has identified deficiencies at the Awa Street waste water pump station (WWPS) and School Street, College Walk and Iwilei area sewer lines.

The Awa relief sewer project will be constructed in two separate phases: Phase 1 – Install a new gravity sewer line from School Street to Nimitz Highway along Houghtailing Street and Waiakamilo Road to relieve downstream deficiencies by diverting flow from School Street and; Phase 2 – Was to relieve the Awa Street WWPS with a new trunk sewer along Dillingham Boulevard and Alakawa Street. The City is in the process of revising Phase 2 to upgrade the Awa Street WWPS.

Phase 1 of the Awa relief sewer project will be implemented to correct some of the identified deficiencies and must be completed by June 30, 2020 in order to comply with GCD Paragraph 18.f requirements. Phase 2 upgrades to the Awa Street WWPS is not part of the consent decree requirement and has yet to be scheduled by the City

Implementation of the GCD Paragraph 18.f improvements are not currently required for full buildout of the MWH project. However, should additional projects within the Awa Street WWPS development area (including major developments such as Kapālama-Iwilei TOD improvements) occur prior to full buildout, completion of both Phase 1 and Phase 2 of the Awa Relief Sewer Project could be required to provide adequate sewer capacity for the City waste water collection system.

VIII. Electrical System

A. Existing Conditions

The sole electric utility serving the island of Oahu is Hawaiian Electric Company which operates and is regulated under its tariff approved by the State Public Utilities Commission (PUC). Similarly, Hawaiian Telecom (HTCO) operates and is regulated under a tariff approved by the PUC and was the sole provider of telecommunications services until the advent of cable television. Subsequently, Oceanic Time Warner Cable (OTWC), which is not regulated by the State PUC but is a franchisee of the Department of Commerce and Consumer Affairs (DCCA), has become a competitor to HTCO and, similar to HTCO, can offer broadband, cable television and telephone signals.

Under rights initiated during the Kingdom of Hawaii, in HECO's case, and during the government of the Territory of Hawaii, in HTCO's case, the infrastructure of both these companies may occupy public rights-of-ways. It has come to be generally accepted that the term "infrastructure" includes both overhead and underground facilities. Hawaii Revised Statute Article 440, established the ability for cable franchisees to occupy, subject to the rules and regulations imposed on the PUC-regulated utilities, to occupy public rights-of-ways. Roadway/Highway improvements projects initiated by the City and County of Honolulu and/or the State Department of Transportation which impact existing utility infrastructure usually have some formula under which the governmental agency, the utility and, in some cases, the landowners of property adjacent to the public right-of-way contribute to the cost of relocating the conflicting utility.

Hawaiian Electric Co.'s (HECO) existing generation system, on the Island of Oahu, is currently capable of providing approximately 1,215 Megawatts (Mw) of power with independent power producers capable of providing an additional 456 Mw of power for a total generating capacity of 1,671 Mw (based on 30 January 2015 Availability of Supply letter). Current peak demand on the Island of Oahu, as of December 2014, was 1,170 Mw.

HECO's, HTCO's, and OTWC's existing facilities serving this area consist of aerial cables attached to joint overhead pole lines on the northern sides of N. Vineyard Boulevard, N. King Street and the western side of Pua Lane. In addition, along the Liliha Street property frontage, HECO has an overhead pole line supporting its School-Iwilei 138 kV circuit. The latter HECO facility is utilized by HECO's Oahu Island grid and would not likely be used to serve the project site.

It should be noted that OTWC is not a member of the joint pole committee whose function is to oversee the placement and maintenance of utility poles throughout

Oahu and whose members consist of HECO, HTCO, the City (for City rights-of-ways) and the State (for State rights-of-ways). To obtain approval to attach to existing joint pole lines, OTWC must lease space from HTCO, if HTCO has joint ownership of the poles, or apply to HECO for permission to attach to poles where HTCO does not have joint ownership.

B. Criteria and Methodology

The off-site and on-site electrical and telecommunications utility lines will be placed underground, therefore the design of the duct system will be in accordance with the specifications and standard practices of the respective utility companies who will be utilizing the underground duct system and will, after inspection and acceptance by the respective utility company inspectors, be dedicated for use by the respective companies.

During the design phase a determination must be made, in consultation with the utility companies whether the electrical and telecommunications duct systems will be owned and maintained by the State and the State's lessee or whether these duct systems may be dedicated to the respective utility companies.

C. Projected Electrical Power and Telecommunications Demands

The total anticipated electrical demand load is 9,688 kVA (9.688 MW or approximately 9.7 MW) and is based on a peak, coincidental load of 3.5 kVA per residential unit and 14 VA per square foot for the proposed grocery store.

Based on current technologies, both HTCO and OTWC would likely provide service to the project via fiber optic cable pairs which would be terminated at hub equipment which would, in turn, provide the bundled telecommunications services to the individual residents and businesses.

D. Impacts and Mitigation

HECO has preliminarily indicated their existing 12 kV distribution lines currently providing service to the existing Mayor Wright Homes buildings have inadequate capacity to provide service to the proposed re-development. The probable point of service connection to the 25 kV source that has adequate capacity to serve the re-development is the Iwilei Transmission Substation located near the intersection of Dillingham Boulevard and Ka`a`ahi Street.

As a non-preferred alternative, HECO could elect to provide power to the site by deploying a dedicated 46 -12 kV substation on a site provided within the property. A 46 kV overhead line would need to be extended from the Iwilei Transmission Substation to energize the transformer. Based on HRS 269, if this alternative were selected, State Public Utilities Commission approval would need to be sought. Pending enactment of the Iwilei Special Design District TOD legislation, this 46 kV line might be required to be placed underground.

Both HTCO and OTWC have indicated that they would be able to provide service to the proposed re-development by reinforcing their existing aerial facilities with additional fiber optic strands. Pending enactment of the Iwilei Special Design District TOD legislation, a determination would need to be sought from the Department of Planning and Permitting whether the supplementary fiber optic lines could be added to the existing aerial joint poles or would be required to be placed underground.

E. Proposed Electrical and Telecommunications System

Off-site Electrical:
HECO's existing 25 kV duct system exits Iwilei Transmission Substation onto Kuwili Street. From this point, a new duct system containing 6-6" conduits and 6' x 14' manholes would be constructed by the project along: Kuwili Street; Iwilei Road; through the parcel (TMK No. 1-5-007:001) designated for the future Ka`a`ahi Street extension; Ka`a`ahi Street; Dillingham Boulevard; and Liliha Street to the mid-block entrance to the Mayor Wright Homes parcel. Pending further clarification from HECO, they have indicated that this 25 kV infrastructure would be required to be in service to energize the Phase 1 development. Temporary power for construction purposes would likely be available from their 12 kV overhead lines.

As this proposed off-site ductline would facilitate the overall TOD development of the Iwilei Area as envisioned by the City, there should probably be negotiations between the State and the City for cost sharing of the duct system construction costs.

On-site Electrical and Telecommunications:
The on-site electric and telecommunications systems would consist of concrete encased, PVC conduits, typically installed within a common trench and located, where feasible, under the roadway sidewalk between the curb and the edge of the road shoulder. Manholes and handholes would be placed periodically to serve as pulling points for the utilities and as parcel/building service points. The anticipated duct complement for the main infrastructure would consist of 3-6" and 2-4" conduits for HECO, 2-4" conduits for HTCO and 2-4" conduit for OTWC. The number and size of conduits would vary based on the adjacent building demands with the typical minimum conduit complement for building service connections being 2-4" conduits for HECO, 1-4" conduit for HTCO and 1-4" conduit for OTWC.

In addition to transformer pads for each of the buildings, HECO will require several switchgear pads throughout the property. The HECO switchgear acts as a protective device and sectionalizer that is used by HECO to minimize outages to the affected building as well as protect their main circuits. Both HTCO and OTWC will request hub equipment sites which are approximately 8' x 8' in size.

Area Lighting:
Illumination for at-grade roadways and parking spaces will be designed to meet Illuminating Engineering Society (IES) RP-8 criteria. Luminaires selected will be specified with conformance with Act 287 and be designed to minimize glare and provide illumination levels in conformance with the above stated criteria.

See Figure 14 for the Existing Electrical and Telecommunications System and Figure 15 for the Proposed Electrical and Telecommunications System.

IX. References

Soil Survey of the Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii. U.S. Dept. of Agriculture, Soil Conservation Service, Aug. 1972.

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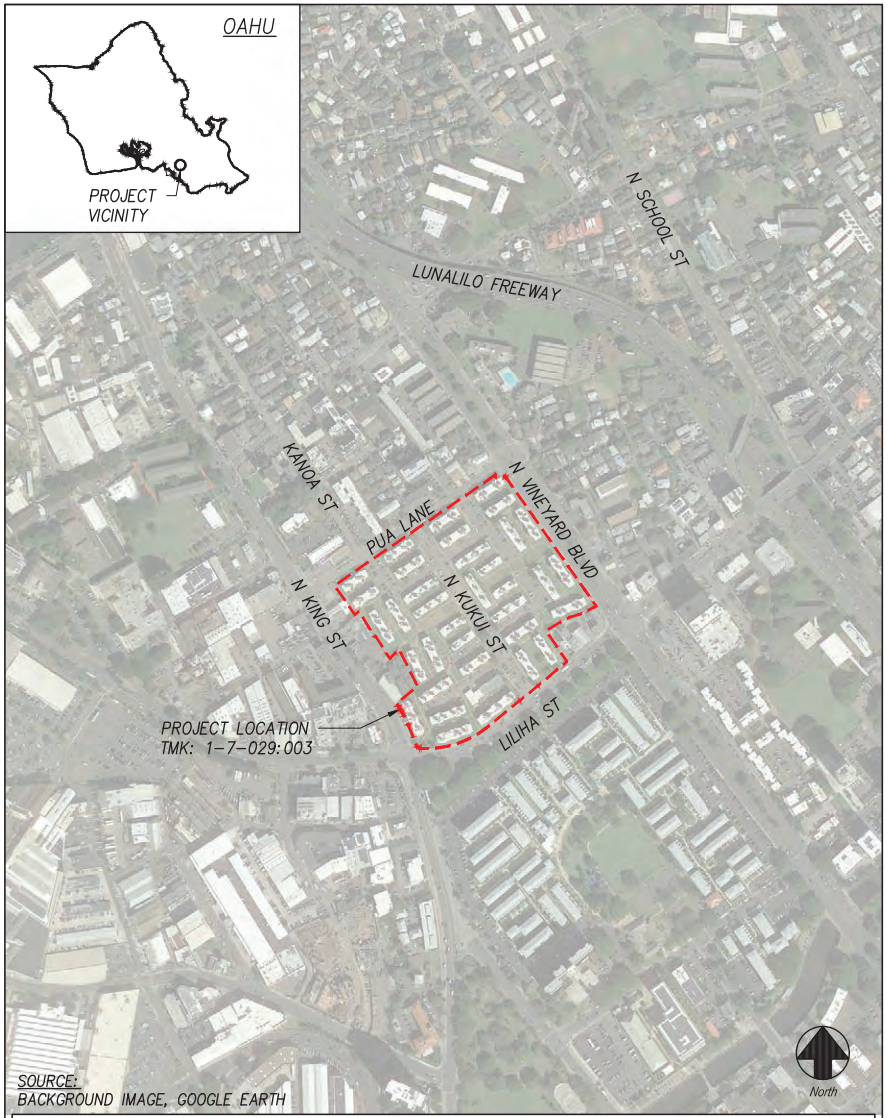

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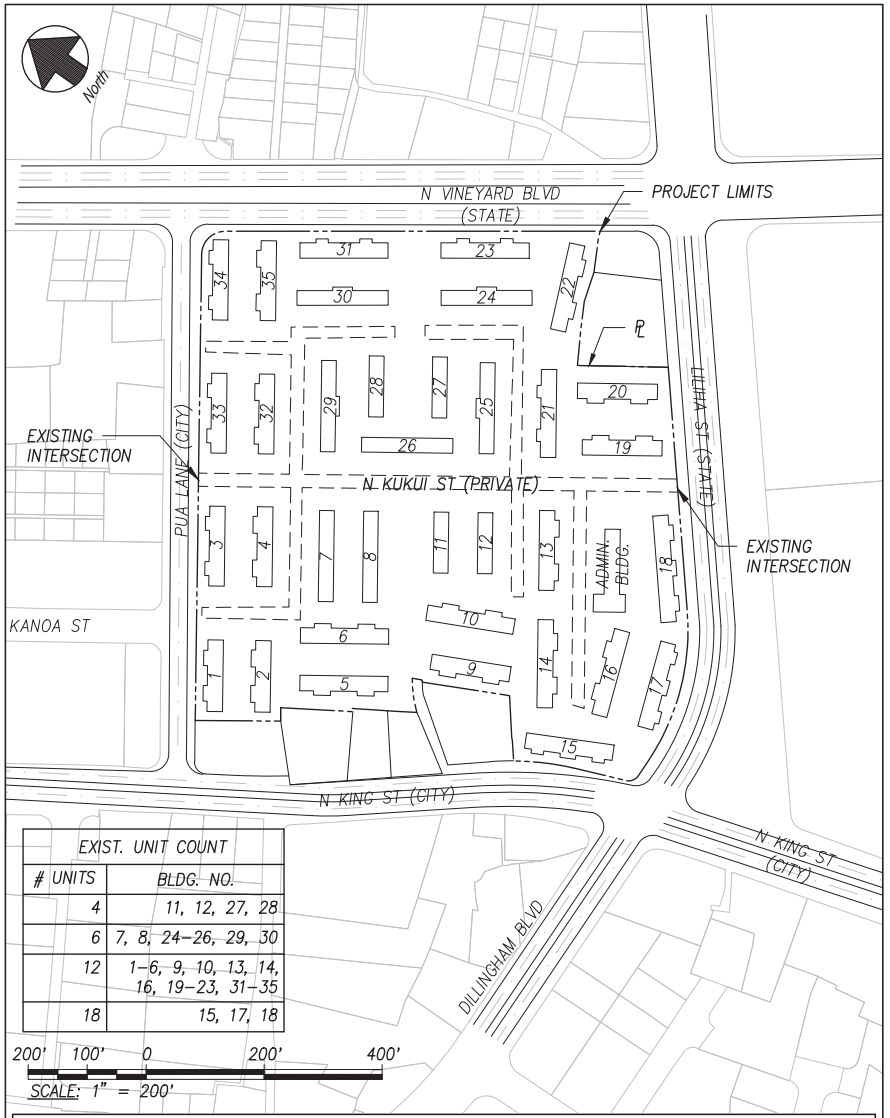
LOCATION MAP

Figure 1



EXIST. UNIT COUNT	
# UNITS	BLDG. NO.
4	11, 12, 27, 28
6	7, 8, 24–26, 29, 30
12	1–6, 9, 10, 13, 14, 16, 19–23, 31–35
18	15, 17, 18

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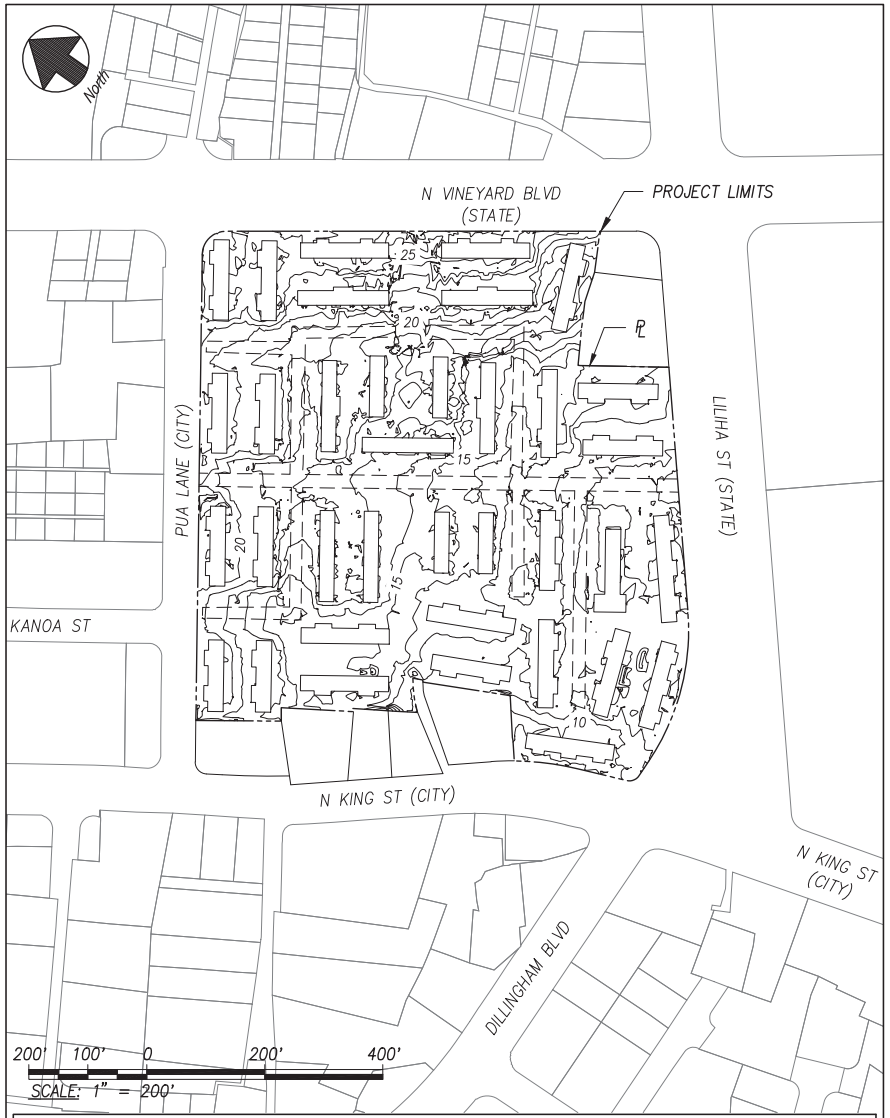
EXISTING SITE

Figure 2



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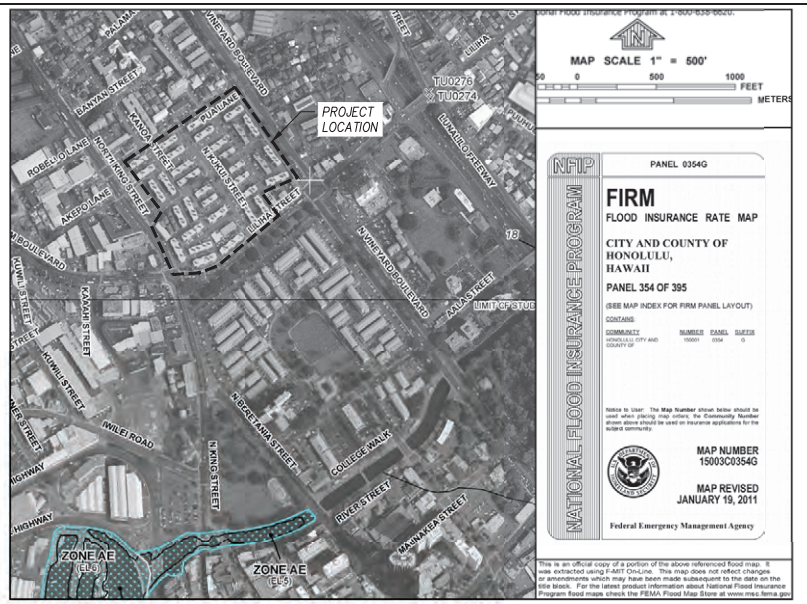
EXISTING TOPOGRAPHY

Figure 3



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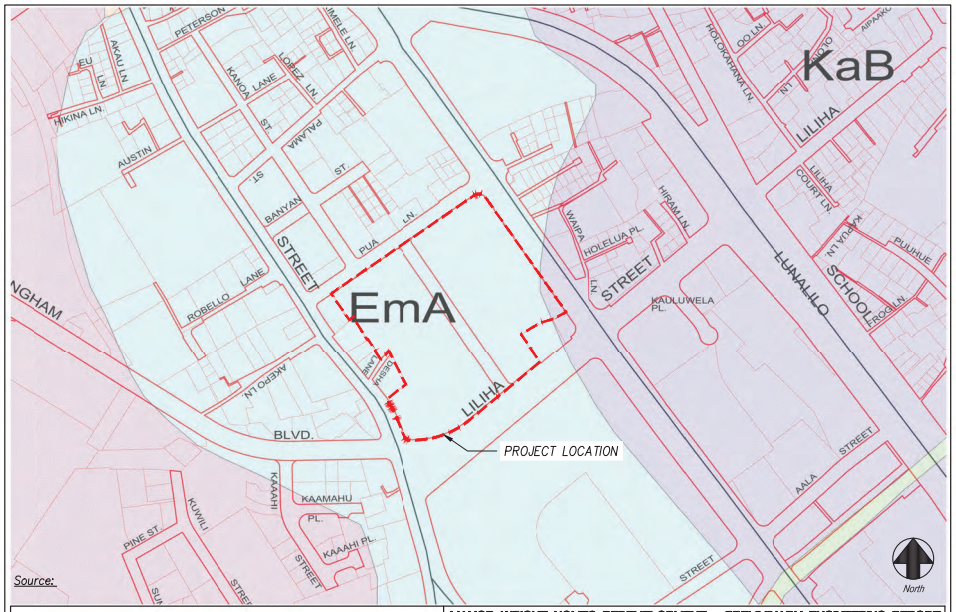
FIRM MAP

Figure 4



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MAYOR WRIGHT HOMES REDEVELOPMENT - PRELIMINARY ENGINEERING REPORT

SOILS MAP

Figure 5

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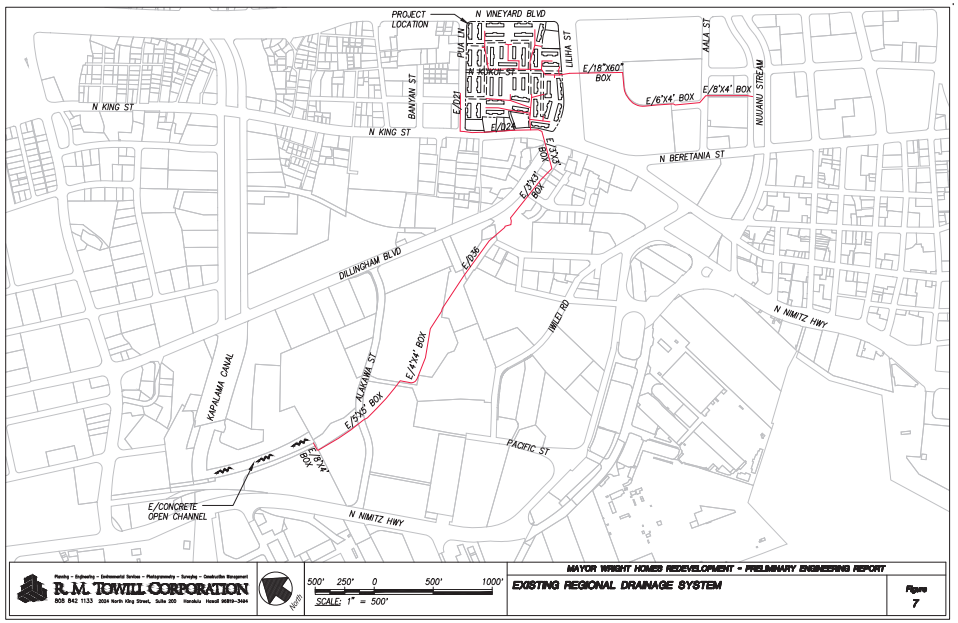
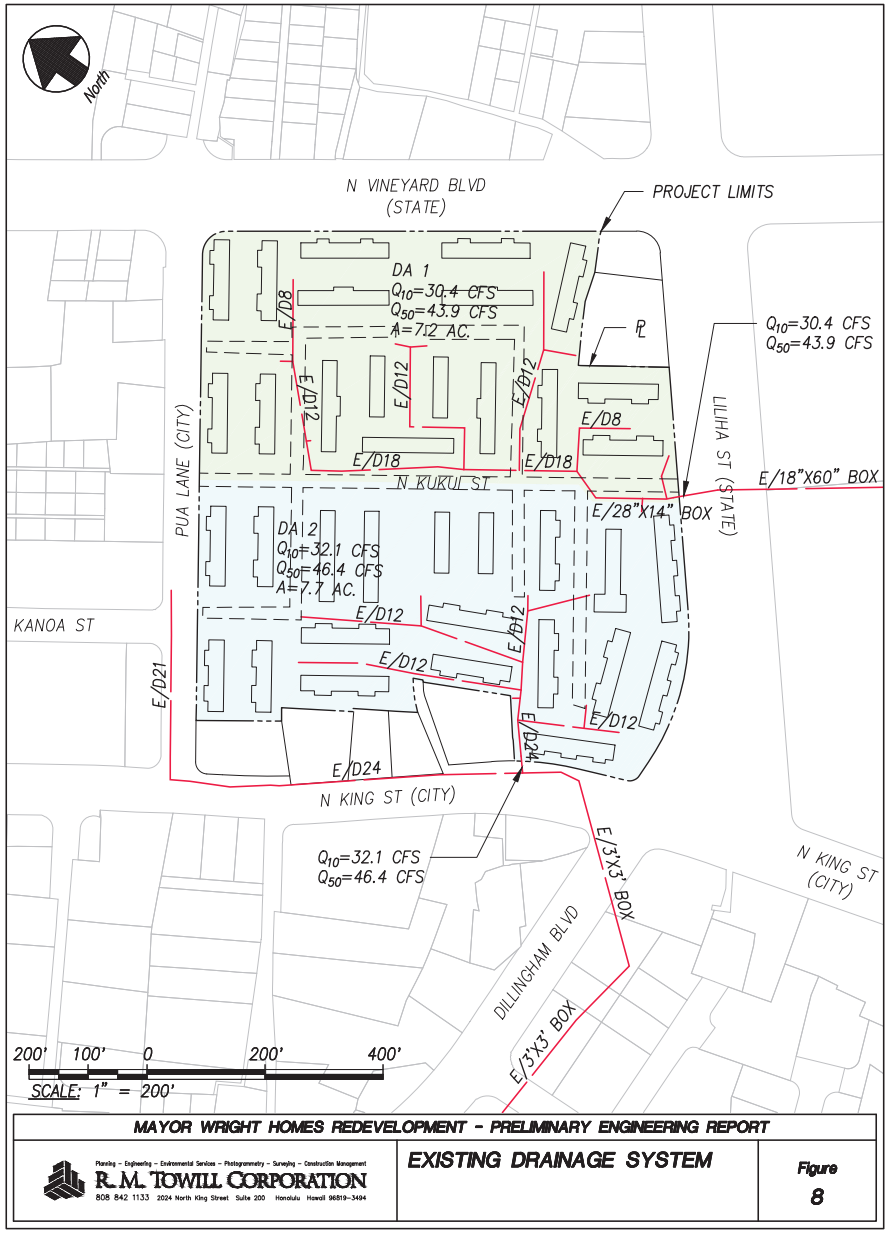
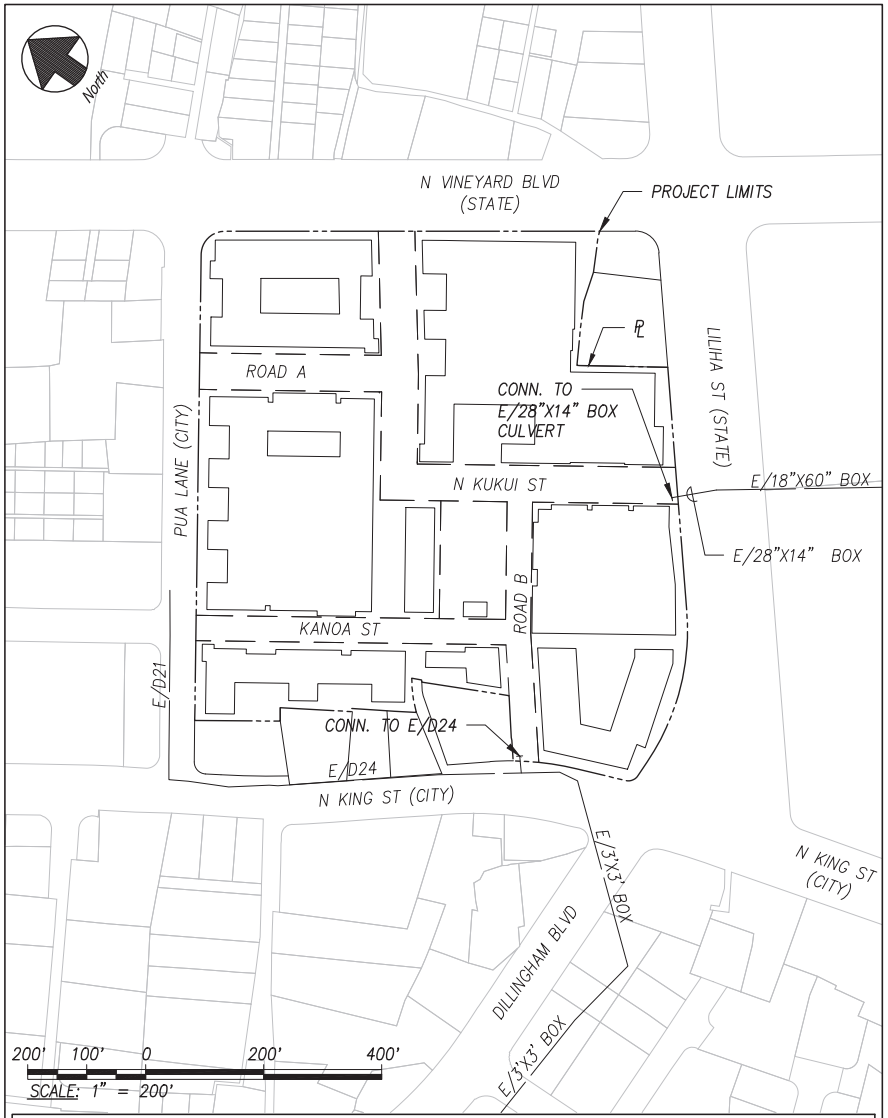
PROPOSED SITE PLAN

Figure 6


PROJECT LOCATION
N VINEYARD BLVD
PUA LN
LILIHA ST
AALA ST
E/18"X60" BOX
E/6'X4' BOX
E/8'X4' BOX
NUUANU STREAM
N KING ST
BANYAN ST
E/D20
E/D24
E/D36
N BERETANIA ST
E/3'X3' BOX
DILLINGHAM BLVD
E/D36
IWILEI RD
N NIMITZ HWY
KAPALAMA CANAL
ALAKAWA ST
E/4'X4' BOX
E/3'X3' BOX
E/8'X4' BOX
PACIFIC ST
E/CONCRETE OPEN CHANNEL
N NIMITZ HWY
R. M. TOWILL CORPORATION
808 842 1133 2024 North King Street, Suite 200 Honolulu Hawaii 96819-3494
North
500' 250' 0 500' 1000'
SCALE: 1" = 500'
MAYOR WRIGHT HOMES REDEVELOPMENT - PRELIMINARY ENGINEERING REPORT
EXISTING REGIONAL DRAINAGE SYSTEM
Figure 7


North
N VINEYARD BLVD (STATE)
PROJECT LIMITS
DA 1
Q_{10}=30.4 CFS
Q_{50}=43.9 CFS
A=7.2 AC.
E/D8
E/D12
E/D18
P
Q_{10}=30.4 CFS
Q_{50}=43.9 CFS
LILIHA ST (STATE)
E/18"X60" BOX
N KUKUI ST
E/28"X14" BOX
PUA LANE (CITY)
DA 2
Q_{10}=32.1 CFS
Q_{50}=46.4 CFS
A=7.7 AC.
KANOA ST
E/D21
E/D24
N KING ST (CITY)
Q_{10}=32.1 CFS
Q_{50}=46.4 CFS
E/3'X3' BOX
N KING ST (CITY)
DILLINGHAM BLVD
E/3'X3' BOX
200' 100' 0 200' 400'
SCALE: 1" = 200'
MAYOR WRIGHT HOMES REDEVELOPMENT - PRELIMINARY ENGINEERING REPORT
R. M. TOWILL CORPORATION
808 842 1133 2024 North King Street Suite 200 Honolulu Hawaii 96819-3494
EXISTING DRAINAGE SYSTEM
Figure 8



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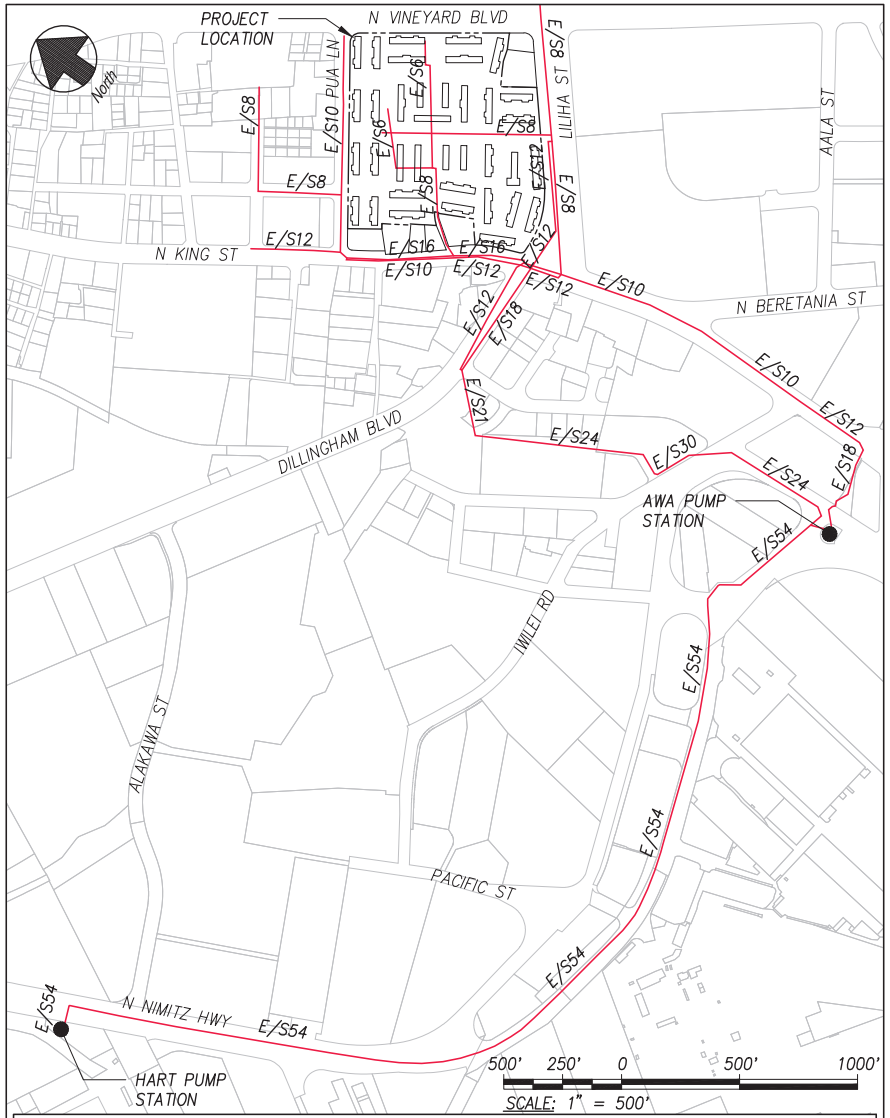
PROPOSED DRAINAGE SYSTEM

Figure 9



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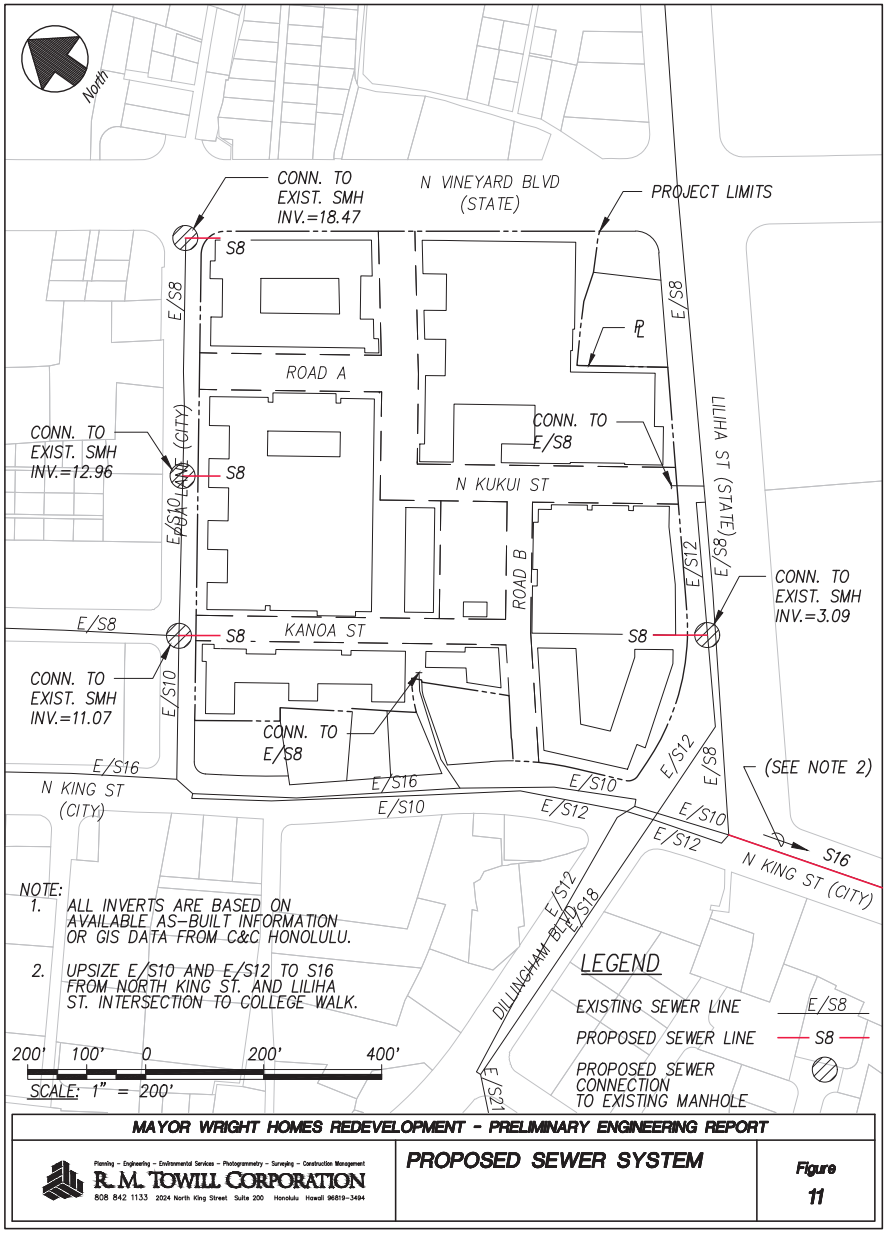
EXISTING SEWER SYSTEM

Figure 10



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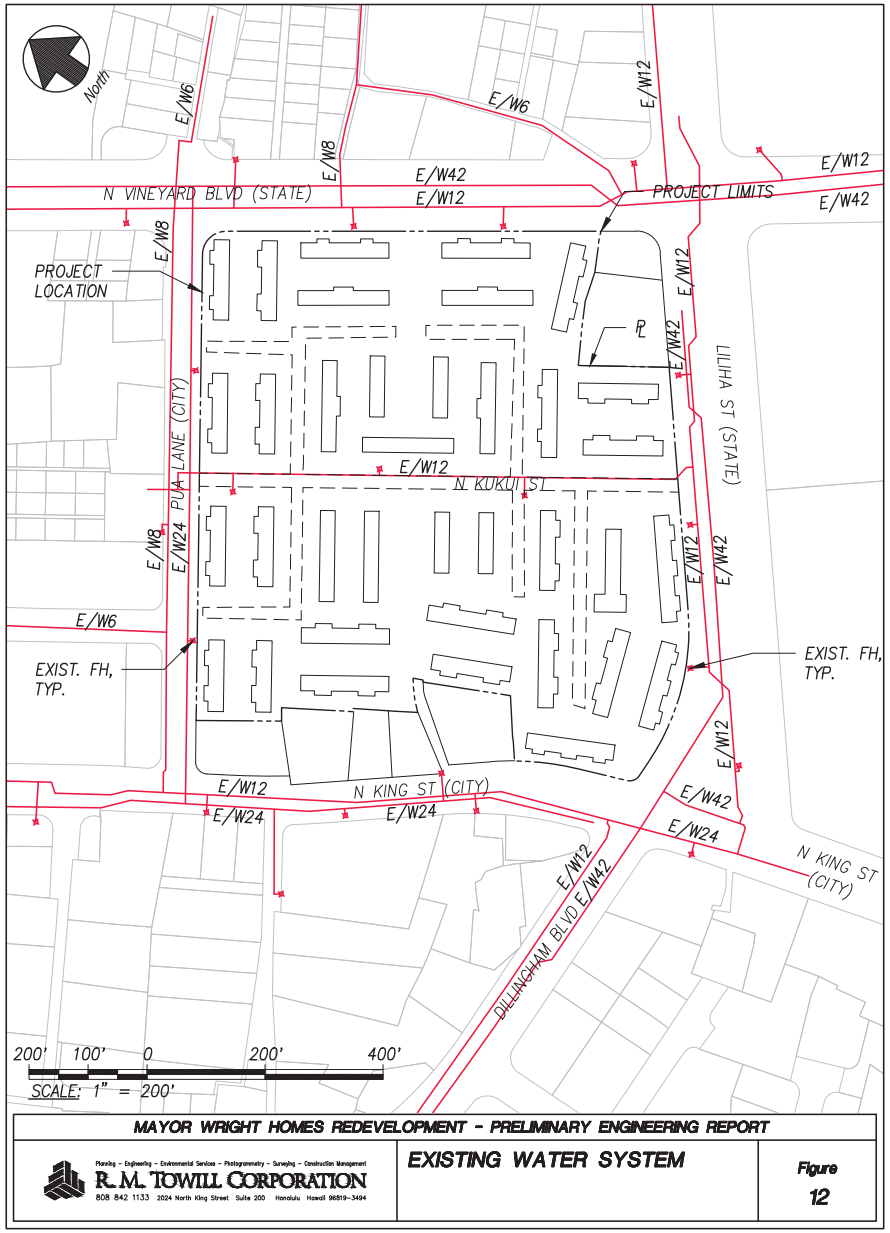
PROPOSED SEWER SYSTEM — Figure 11



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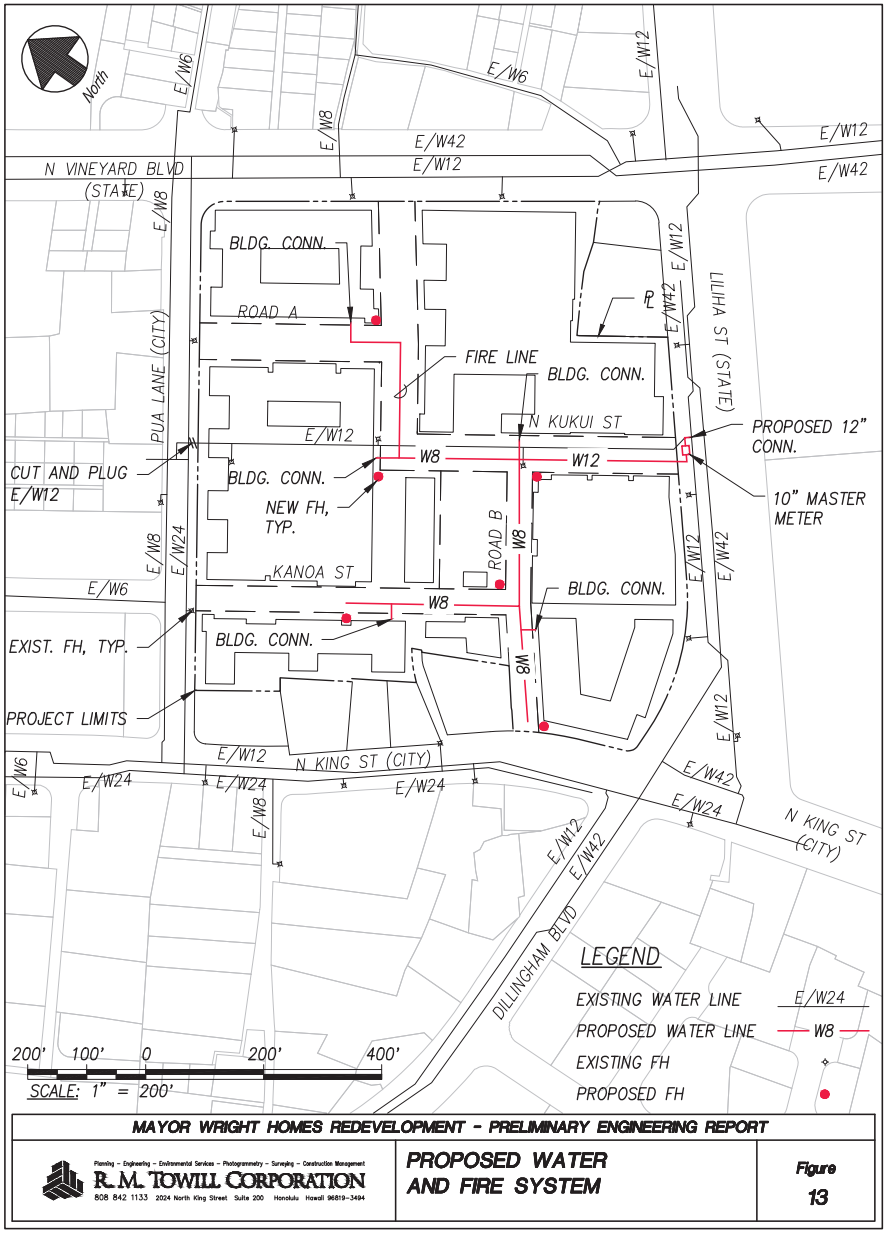
EXISTING WATER SYSTEM — Figure 12



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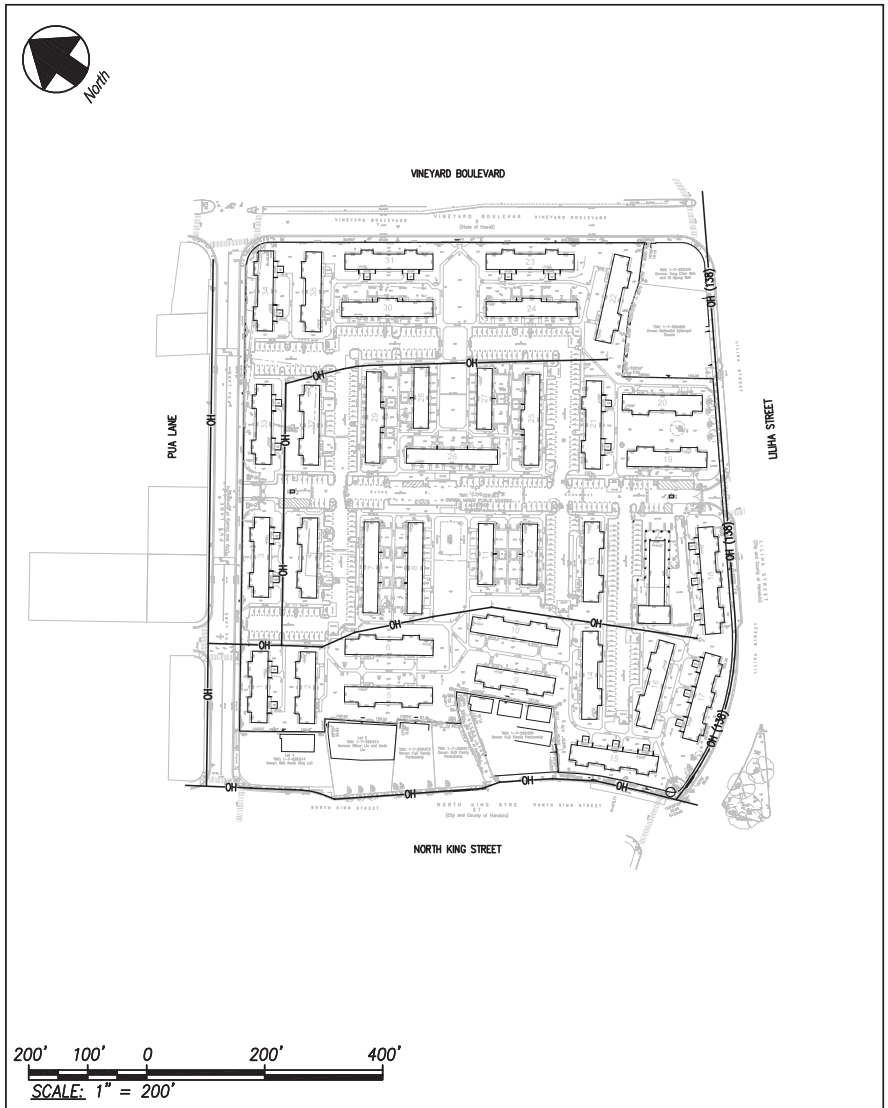
PROPOSED WATER AND FIRE SYSTEM

Figure 13



MAYOR WRIGHT HOUSING - PRELIMINARY ENGINEERING REPORT

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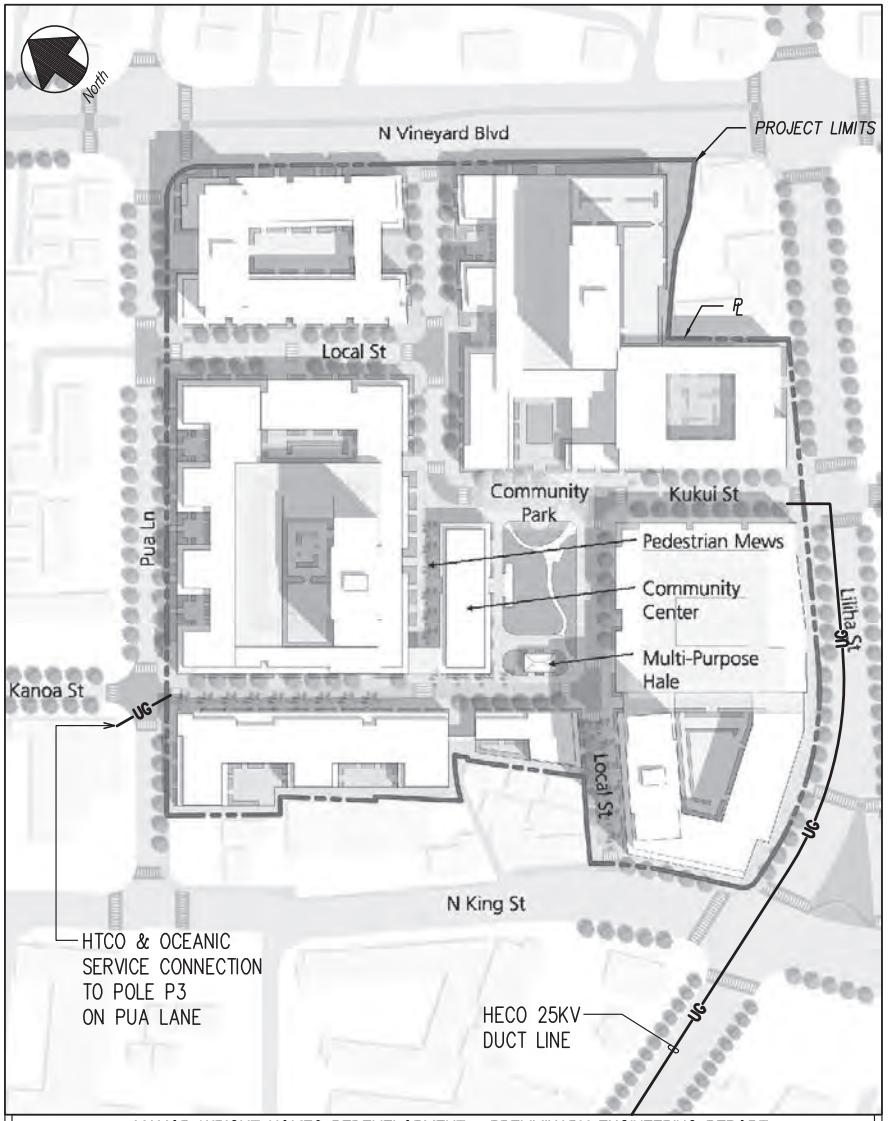
EXISTING ELECTRICAL & COMM. SYSTEM

Figure 14



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PROPOSED ELECTRICAL AND COMMUNICATIONS PLAN

Figure 15

EXHIBIT 26

NEPA Scoping Meeting Distribution List
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Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here *Postmark with Date of Receipt.*
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	USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Insurance Fee	Special Handling / Restricted Delivery	Airlift
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MR. HAKIM OUANSAFI, EXECUTIVE DIRECTOR
STATE OF HAWAI'I
HAWAI'I PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
HONOLULU HI 96817

MR. RYAN OKAHARA, FIELD OFFICE DIRECTOR
HONOLULU FIELD OFFICE
1132 BISHOP STREET SUITE 1400
HONOLULU HI 96813

MS. KATHLEEN MCNULTY, ENVIRONMENTAL PROTECTION SPECIALIST
U.S. HUD REGION 9, OFFICE OF ENVIRONMENT AND ENERGY
ONE SANSOME STREET SUITE 1200
SAN FRANCISCO CA 94104

MR. STEPHEN ANTHONY, CENTER DIRECTOR
DOI, US GEOLOGICAL SURVEY
PACIFIC ISLANDS WATER SCIENCE CENTER
1845 WASP BLVD BUILDING 176
HONOLULU HI 96818

MR. BRUCE PETERSEN, DIRECTOR
NATIONAL RESOURCES CONSERVATION SERVICE
PACIFIC ISLANDS AREA OFFICE
P O BOX 50004
HONOLULU HI 96850

MS. LACEY SPRIGGS, ACTING AIRPORTS DISTRICT MANAGER
FEDERAL AVIATION ADMINISTRATION
HONOLULU AIRPORTS DISTRICT OFFICE
P O BOX 50244
HONOLULU HI 96850

RADM VINCENT ATKINS, DISTRICT COMMANDER
DEPARTMENT OF HOMELAND SECURITY - U.S. COAST GUARD
COMMANDER, 14TH COAST GUARD DIST.
300 ALA MOANA BLVD RM 9-204
HONOLULU HI 96850

MS. DENISE ISER-MATSUBARA, SENIOR SPECIAL ASSISTANT
STATE OF HAWAI'I, OFFICE OF THE GOVERNOR
STATE CAPITOL EXECUTIVE CHAMBERS
415 SOUTH BERETANIA STREET
HONOLULU HI 96813

MR. SCOTT GLENN, DIRECTOR
STATE OF HAWAI'I
OFFICE OF ENVIRONMENTAL QUALITY CONTROL
235 S. BERETANIA STREET SUITE 702
HONOLULU HI 96813

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U.S. HUD REGION 9, COMMUNITY PLANNING AND DEVELOPMENT
1132 BISHOP STREET SUITE 1400
HONOLULU HI 96813

MR. JESSE WU, DIRECTOR
U.S. HUD, OFFICE OF PUBLIC HOUSING
1132 BISHOP STREET SUITE 1400
HONOLULU HI 96813

MR. MICHAEL TOSATTO, REGIONAL ADMINISTRATOR
NATIONAL MARINE FISHERIES SERVICE
PACIFIC ISLANDS REGIONAL OFFICE
1845 WASP BLVD BUILDING 176
HONOLULU HI 96818

MS. KATE BLISS, REGULATORY & ENVIRONMENTAL PROG. MANAGER
COMMANDER, PACIFIC OCEAN DIVISON
ATTN: CEPOD-PDC
573 BONNEY LOOP
FORT SHAFTER HI 96858

MR. LESLIE ROGERS, REGIONAL ADMINISTRATOR
FEDERAL TRANSIT ADMINISTRATION
REGION 9 OFFICE
90 7TH STREET SUITE 15-300
SAN FRANCISCO CA 94103

MR. DEAN HIGUCHI, PUBLIC AFFAIRS SPECIALIST
ENVIRONMENTAL PROTECTION AGENCY
REGION 9, PACIFIC ISLANDS CONTACT OFFICE
P O BOX 50003
HONOLULU HI 96850

MR. KEVIN AUGER,
STATE OF HAWAI'I
HAWAI'I PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
HONOLULU HI 96817

MR. RODERICK BECKER, COMPTROLLER
STATE OF HAWAI'I
DEPT. OF ACCOUNTING & GENERAL SERVICES
P O BOX 119
HONOLULU HI 96810

THE HONORABLE DAVID IGE
GOVERNOR
STATE CAPITOL EXECUTIVE CHAMBERS
415 SOUTH BERETANIA STREET
HONOLULU HI 96813

MR. WAYNE SAUSEDA, DEPUTY REGIONAL ADMINISTRATOR
HUD REGION IX OFFICE
ONE SANSOME STREET, SUITE 1200
SAN FRANCISCO CA 94104

MR. LARRY WUERSTLE, CPD PROGRAM MANAGER
U.S. HUD REGION 9, COMMUNITY PLANNING AND DEVELOPMENT
ONE SANSOME STREET SUITE 1200
SAN FRANCISCO CA 94104

MS. ROBYN THORSON, REGIONAL DIRECTOR
U.S. FISH AND WILDLIFE SERVICE
300 ALA MOANA BLVD ROOM BOX 50088
HONOLULU HI 96850

MS. MELIA LANE-KAMAHELE, MANAGER
NATIONAL PARKS SERVICE
PACIFIC ISLANDS SUPPORT OFFICE
300 ALA MOANA BLVD SUITE 6-226
HONOLULU HI 96850

CAPT RICHARD HAYES, III, COMMANDING OFFICER, CIVIL ENGINEER CORPS
DEPARTMENT OF THE NAVY, PACIFIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
258 MAKALAPA DR SUITE 100
PEARL HARBOR HI 96860

MR. RALPH RIZZO, DIVISION ADMINISTRATOR
FEDERAL HIGHWAYS ADMINISTRATION
HAWAII DIVISION, BOX 50206
300 ALA MOANA BLVD RM 3-306
HONOLULU HI 96850

MR. ROBERT FENTON, JR., REGIONAL ADMINISTRATOR
FEMA, REGION 9
1111 BROADWAY SUITE 1200
OAKLAND CA 94607

MR. SCOTT JEPSEN, PARTNER
EJP CONSULTING GROUP, LLC
PO BOX 336
MANCHESTER WA 98353

MR. ADAM JANSEN, STATE ARCHIVIST
STATE OF HAWAI'I
DEPT. OF ACCOUNTING & GENERAL SERVICES
ARCHIVES DIVISION RECORDS CENTER
P O BOX 119
HONOLULU HI 96810

MR. SCOTT ENRIGHT, CHAIRPERSON
STATE OF HAWAI'I
DEPARTMENT OF AGRICULTURE
1428 S KING STREET
HONOLULU HI 96814

MR. RODNEY FUNAKOSHI, PLANNING PROGRAM ADMINISTRATOR
STATE OF HAWAI'I, OFFICE OF PLANNING
DBEDT, LAND USE DIVISION
P O BOX 2359
HONOLULU HI 96804

DR. CHRISTINA KISHIMOTO, SUPERINTENDENT
STATE OF HAWAI'I
DEPARTMENT OF EDUCATION
P O BOX 2360
HONOLULU HI 96804

MS. SUZANNE CASE, CHAIRPERSON
STATE OF HAWAI'I, DEPARTMENT OF LAND AND NATURAL RESOURCES
KALANIMOKU BUILDING
1151 PUNCHBOWL STREET
HONOLULU HI 96813

MR. CRAIG HIRAI, EXECUTIVE DIRECTOR
STATE OF HAWAI'I
HAWAI'I HOUSING FINANCE AND DEVELOPMENT CORPORATION
677 QUEEN STREET, SUITE 300
HONOLULU HI 96813

DR. KAMANA'OPONO CRABBE, KA POUHANA, CHIEF EXECUTIVE OFFICER
STATE OF HAWAI'I
OFFICE OF HAWAIIAN AFFAIRS
560 N NIMITZ HIGHWAY SUITE 200
HONOLULU HI 96817

MS. PAMELA WITTY-OAKLAND, DIRECTOR DESIGNATE
CITY AND COUNTY OF HONOLULU
DEPARTMENT OF COMMUNITY SERVICES
925 DILLINGHAM BLVD SUITE 200
HONOLULU HI 96817

MR. ROSS SASAMURA, DIRECTOR
CITY AND COUNTY OF HONOLULU
DEPARTMENT OF FACILITY MAINTENANCE
KAPOLEI HALE
1000 'ULU'OHI'A ST SUITE 215
KAPOLEI HI 96707

MR. ERNEST LAU, MANAGER & CHIEF ENGINEER
CITY AND COUNTY OF HONOLULU
BOARD OF WATER SUPPLY
630 S BERETANIA STREET
HONOLULU HI 96843

CHIEF SUSAN BALLARD, CHIEF OF POLICE
CITY AND COUNTY OF HONOLULU
POLICE DEPARTMENT
801 S BERETANIA STREET
HONOLULU HI 96813

MR. LUIS SALAVERIA, DIRECTOR
STATE OF HAWAI'I
DBEDT
P O BOX 2359
HONOLULU HI 96804

MS. CARILYN SHON, ADMINISTRATOR
STATE OF HAWAI'I
HAWAI'I STATE ENERGY OFFICE
DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM
P O BOX 2359
HONOLULU HI 96804

MS. JOBIE MASAGATANI, CHAIRPERSON
STATE OF HAWAI'I
DEPARTMENT OF HAWAIIAN HOME LANDS
P O BOX 1879
HONOLULU HI 96805

DR. ALAN DOWNER, ADMINISTRATOR
STATE OF HAWAI'I
DLNR - HISTORIC PRESERVATION DIVISION
KAKUHIHEWA BUILDING
601 KAMOKILA BOULEVARD RM 555
KAPOLEI HI 96707

MS. JANICE TAKAHASHI, CHIEF PLANNER
STATE OF HAWAI'I
HAWAI'I HOUSING FINANCE AND DEVELOPMENT CORPORATION
677 QUEEN STREET SUITE 300
HONOLULU HI 96813

MR. NELSON KOYANAGI, JR., DIRECTOR
CITY AND COUNTY OF HONOLULU
DEPARTMENT OF BUDGET AND FISCAL SERVICES
530 S KING STREET ROOM 208
HONOLULU HI 96813

MS. LORI KAHIKINA, DIRECTOR
CITY AND COUNTY OF HONOLULU
DEPARTMENT OF ENVIRONMENTAL SERVICES
ATTN: MS. MARISOL OLAES
1000 'ULU'OHI'A ST SUITE 308
KAPOLEI HI 96707

MS. SANDRA PFUND, DIRECTOR
CITY AND COUNTY OF HONOLULU
DEPARTMENT OF LAND MANAGEMENT
530 S KING STREET #306
HONOLULU HI 96813

CHIEF MANUEL NEVES, FIRE CHIEF
CITY AND COUNTY OF HONOLULU
FIRE DEPARTMENT
636 SOUTH STREET
HONOLULU HI 96813

MR. WES FRYSZTACKI, DIRECTOR
CITY AND COUNTY OF HONOLULU
DEPARTMENT OF TRANSPORTATION SERVICES
FRANK F. FASI MUNICIPAL BUILDING
650 S KING ST 3RD FLOOR
HONOLULU HI 96813

MR. LEO ASUNCION, DIRECTOR
STATE OF HAWAI'I, OFFICE OF PLANNING
DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM
P O BOX 2359
HONOLULU HI 96804

COL NEAL MITSUYOSHI, CHIEF ENGINEERING OFFICER
STATE OF HAWAI'I
DEPARTMENT OF DEFENSE
3949 DIAMOND HEAD ROAD
HONOLULU HI 96816

MR. KEITH KAWAOTA, DEPUTY DIRECTOR
STATE OF HAWAI'I
DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH ADMINISTRATION
P O BOX 3378
HONOLULU HI 96801

MS. JADE BUTAY, INTERIM DIRECTOR
STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION
ALI'IAIMOKU BUILDING
869 PUNCHBOWL STREET
HONOLULU HI 96813

MR. DEEPAK NEUPANE, DIRECTOR OF PLANNING
STATE OF HAWAI'I, HAWAI'I COMMUNITY DEVELOPMENT AUTHORITY
421 COOKE STREET
HONOLULU HI 96813

MS. HOLLY KAWANO, FEDERAL GRANTS COORDINATOR
CITY AND COUNTY OF HONOLULU
DEPARTMENT OF BUDGET AND FISCAL SERVICES
530 S KING STREET ROOM 208
HONOLULU HI 96813

MR. ROBERT KRONING, DIRECTOR
CITY AND COUNTY OF HONOLULU
DEPARTMENT OF DESIGN AND CONSTRUCTION
650 S KING ST 11TH FLOOR
HONOLULU HI 96813

MS. MICHELE NEKOTA, DIRECTOR
CITY AND COUNTY OF HONOLULU
DEPARTMENT OF PARKS AND RECREATION
1000 'ULU'OHI'A ST., SUITE 309
KAPOLEI HI 96707

MS. KATHY SOKUGAWA, ACTING DIRECTOR
CITY AND COUNTY OF HONOLULU
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DR. DARREN LERNER, INTERIM DIRECTOR
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HOLMES HALL 283
2540 DOLE STREET
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HAWAI'I DELEGATION
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P O BOX 789
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MS. ANITA HOFSCHNEIDER, REPORTER
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3465 WAIALAE AVENUE, SUITE 200
HONOLULU HI 96816

MS. GINA UYEMA, SENIOR MANAGER - NETWORK DEVELOPMENT
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HONOLULU HI 96807

MR. BRIAN KANIELA NAE'OLE NAAUAO
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2149 LAUWILIWILI ST STE. 200
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KAWAIHAE HI 96743

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FRIENDS OF MOKU'ULA, INC.
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HILO HI 96720

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KAUWAHI 'ANAINA HAWAI'I HAWAIIAN CIVIC CLUB
P O BOX 50808
PROVO UT 84605

MS. MAHEALANI CYPHER, SECRETARY
KO'OLAU FOUNDATION
P O BOX 4749
KANEOHE HI 96744

MS. ADRIENNE DILLARD, EXECUTIVE DIRECTOR
KULA NO NA PO'E HAWAII
P O BOX 23268
HONOLULU HI 96823

MR. KALEO KEENO, PRESIDENT
LAHUI KAKA'IKAHI
41-210 HIHIMANU STREET
WAIMANALO HI 96795

MS. LANI MA'A LAPILIO
MA'A 'OHANA
C/O AUKAHI
P O BOX 6087
KANEOHE HI 96744

MS. CHARLENE LUI, PRESIDENT
MAINLAND COUNCIL ASSOCIATION OF
HAWAIIAN CIVIC CLUBS
766 NORTH 900 WEST
OREM UT 84057

MR. GLEN KILA, PROGRAM DIRECTOR
MARAE HA'A KOA
89-530 MOKIAWE STREET
WAIANAE HI 96792

MS. MILILANI TRASK, CONVENOR
NA KOA IKAIKA KA LAHUI HAWAII
P O BOX 6377
HILO HI 96720

MS. ROXANNE HANAWAHINE,
REPRESENTATIVE
NA OHANA O PUAOI A ME HANAWAHINE
41-153 NALU STREET
WAIMANALO HI 96795

MR. KALEO PATTERSON, PRESIDENT
NATIVE HAWAIIAN CHURCH
1127 BETHEL STREET SUITE 16
HONOLULU HI 96813

MS. POHAI RYAN, EXECUTIVE DIRECTOR
NATIVE HAWAIIAN HOSPITALITY
ASSOCIATION
310 PAOAKALANI AVENUE #201A
HONOLULU HI 96815

MR. KALEO PATTERSON, PRESIDENT
PACIFIC JUSTICE & RECONCILIATION
CENTER
1127 BETHEL STREET SUITE 16
HONOLULU HI 96813

MR. JAN E. HANOHANO DILL, PRESIDENT
AND COB
PARTNERS IN DEVELOPMENT
FOUNDATION
2040 BACHELOT STREET
HONOLULU HI 96817

MR. RONALD KODANI, PRESIDENT
PIIHONUA HAWAIIAN HOMESTEAD
COMMUNITY ASSOCIATION
37 WAIEA PLACE
HILO HI 96720

MS. BRENDA LUANA MACHADO LEE, LOEA
MACHADO-AKANA-AONA-NAMAKAEHA
OHANA
P O BOX 133
CAPTAIN COOK HI 96704

MS. PAULA K. KEKAHUNA, PRESIDENT
MAKU'U FARMERS ASSOCIATION
15-2131 KEAAU PAHOA HIGHWAY
PAHOA HI 96778

MS. JADE ALOHALANI SMITH,
REPRESENTATIVE
MOKU O KAUPO
P O BOX 1269
KULA HI 96790

MS. H. KANOEOKALANI CHEEK, VICE
PRESIDENT
NA KU'AUHAU 'O KAHIWAKANEIKOPOLEI
P O BOX 5411
KANE'OHE HI 96744

MS. PAIGE KAPIOLANI BARBER,
EXECUTIVE DIRECTOR
NANAKULI HOUSING CORPORATION
P O BOX 17489
HONOLULU HI 96817

MR. NAPALI WOODE, DIRECTOR
NATIVE HAWAIIAN ECONOMIC
ALLIANCE
2149 LAUWILIWILI ST STE 200
KAPOLEI HI 96707

MS. MARAEA K. NEKAIFES
NEKAIFES OHANA
212 HIIPALI LOOP
KULA HI 96790

MS. SHERI DANIELS, EXECUTIVE
DIRECTOR
PAPA OLA LOKAHI
894 QUEEN STREET
HONOLULU HI 96813

MS. OLINDA AIWOHI, PRESIDENT
PAUKUKALO HAWAIIAN HOMES
COMMUNITY ASSOCIATION
781 KAWANANAKOA STREET
WAILUKU HI 96793

MR. L. LAAKEA SUGANUMA, PRESIDENT
ROYAL HAWAIIAN ACADEMY OF
TRADITIONAL ARTS
835 AHUWALE STREET
HONOLULU HI 96821

MS. KEONA MARK
MAHU OHANA
P O BOX 2
HALEIWA HI 96712

MS. HOMELANI SCHAEDEL, PRESIDENT
MALU'ŌHAI RESIDENTS ASSOCIATION
P O BOX 700911
KAPOLEI HI 96709

MS. UILANI KAPU, TREASURER
NA AIKANE O MAUI
562A FRONT STREET
LAHAINA HI 96761

MS. DONNA KALIKO SANTOS,
NĀ KULEANA O KĀNAKA 'ŌIWI
P O BOX 1541
LĪHU'E HI 96766

MR. RICHARD FERNANDEZ, PRESIDENT
NATIVE HAWAIIAN CHAMBER OF
COMMERCE
P O BOX 597
HONOLULU HI 96809

MS. SYLVIA M. HUSSEY
EXECUTIVE DIRECTOR
NATIVE HAWAIIAN EDUCATION COUNCIL
735 BISHOP STREET SUITE 224
HONOLULU HI 96813

MR. WILLIAM W. MOEKAHI STEINER
MEMBER
PACIFIC AGRICULTURAL LAND
MANAGEMENT SYSTEMS
P O BOX 4565
HILO HI 96720

MS. LILIA KAPUNIAI, EXECUTIVE DIRECTOR
PAPAKŌLEA COMMUNITY DEVELOPMENT
CORPORATION
2150 TANTALUS DRIVE
HONOLULU HI 96813

MR. APELA PEAHI, REPRESENTATIVE
PEAHI OHANA
41-205 LUPE STREET
WAIMANALO HI 96795

MS. ROBIN PUANANI DANNER, CHAIRMAN
SOVEREIGN COUNCILS OF THE HAWAIIAN
HOMELANDS ASSEMBLY
2149 LAUWILIWILI STREET SUITE 200
KAPOLEI HI 96707

MR. WILLIAM K. RICHARDS, JR.,
PRESIDENT
THE FRIENDS OF HOKULE'A AND
HAWAI'ILOA
P O BOX 696
KAILUA HI 96734

MR. ROY OLIVEIRA, PRESIDENT
WAIEHU KOU PHASE 3 ASSOCIATION
49 KAULANA NA PUA CIRCLE
WAILUKU HI 96793

MR. MELVIN SOONG, PRESIDENT
THE I MUA GROUP
422 ILIAINA STREET
KAILUA HI 96734

MR. KAMAKANA M. AQUINO, PRESIDENT
WAIMĀNALO HAWAIIAN HOMES
ASSOCIATION
P O BOX 353
WAIMĀNALO HI 96795

MS. MELE WORTHINGTON, PRESIDENT
WAI'ANAE HAWAIIAN CIVIC CLUB
P O BOX 687
WAI'ANAE HI 96792

17032060
1416 A PUA LANE LLC
645 ULUMALU STREET
KAILUA HI 96734

15006036
AALA PROPERTIES LLC
2153 N KING STREET #321-B
HONOLULU HI 96819

16001059
ABAD, PAULINO A
1306 PALAMA STREET
HONOLULU HI 96817

15007042
ALOHA FENDER WORKS INC
C/O B.Y. REALTY
P O BOX 22220
HONOLULU HI 96823

15006031
ALPAC CORP
815 WAIAKAMILO ROAD
HONOLULU HI 96817

17032065
AOKI, ARTHUR
233 NAMILIMILI STREET
HONOLULU HI 96813

17031007
ARIOS, ROBERT R
98-777 NAALII STREET
AIEA HI 96701

15005007
B P BISHOP TRUST ESTATE
P O BOX 3466
HONOLULU HI 96801

17032083 / 17032091
BALBAS, IMELETA S
609 WAIPA LANE
HONOLULU HI 96817

17032055
BAUTISTA, NARCISO M
624 B N VINEYARD BLVD
HONOLULU HI 96817

17032019
515 & 529 MALANAI PLACE
CONDO MASTER
529 MALANAI PLACE
HONOLULU HI 96817

15006007
AALA PROPERTIES LLC
869 N NIMITZ HWY
HONOLULU HI 96817

17031008 / 17031011
ALBANO, ROBERT K O
1115 BANYAN STREET
HONOLULU HI 96817

15006009
ALOHA TOFU FACTORY INC
961 AKEPO LANE
HONOLULU HI 96817

17023025
ALVAREZ, ELENITA V TR
321 N KUAKINI STREET #510
HONOLULU HI 96817

16001117 / 16001055
APRIL, JANETTE
824 LOPEZ LANE
HONOLULU HI 96817

17031004
AU, KERWIN M T TRUST
5250 OIO DRIVE
HONOLULU HI 96821

17032076 / 17032091
BAGWAN, MARY ANN
621 A WAIPA LANE
HONOLULU HI 96817

17031029
BANYAN HOUSING LP
1700 7TH AVE STE 200
SEATTLE WA 98101

17031023 / 17031020
BOIRUM, EMILY J
1127 BANYAN STREET
HONOLULU HI 96817

17029014
682 NORTH KING LLC
201 ONEAWA KAI PLACE
KAILUA HI 96734

17031033
ABABA, RENATO A
1213 PALAMA STREET
HONOLULU HI 96817

15005022
ALII FIRE PROTECTION
P O BOX 29057
HONOLULU HI 96820

17023034
ALOHA UNITED WAY INC
C/O COLLIER INTERNATIONAL
220 S KING STREET #1800
HONOLULU HI 96813

17026004 / 17026016
AMERICAN SAVINGS BANK FSB
P O BOX 2300
HONOLULU HI 96804

16001060
ARDIENTE, BERNARDITA R
828 B LAKIMELA LANE
HONOLULU HI 96817

16001056
AVERA, EUGENIA B
850 LOPEZ LANE
HONOLULU HI 96817

16001019
BAKKE, LOWELL V
5259 PAPAI STREET
HONOLULU HI 96821

16001040 / 16001100
BARTOLOME, DENNIS G
823 A LAKIMELA LANE
HONOLULU HI 96817

16001053
BONILLA, ALIPIO D/EUSEBIA TR
1202 PALAMA STREET
HONOLULU HI 96817

15006025
BRANNER, JOHN M
940 AKEPO LANE
HONOLULU HI 96817

16001099
CABANSAGAN, PAZ
124 NORTHGATE AVE
DALY CITY CA 94015

17032043 / 17032086
CADIENTE, CLEMENTE/ANASTACIA
622 A N VINEYARD BLVD
HONOLULU HI 96817

17031010 / 17031011
CAMBIA, HONIE D
1115 BANYAN STREET
HONOLULU HI 96817

16001047 / 16001100
CARILLO, MARCELINO C
817 LAKIMELA LN
HONOLULU HI 96817

17031043 / 17031045
CHAR, STELLA O K
717 N VINEYARD BLVD
HONOLULU HI 96817

17033049
CHING, CHRISTOPHER K F
521 KIAPU PLACE
HONOLULU HI 96825

17031018 / 17031019
CHUA, WILLIAM A
538 N JUDD STREET
HONOLULU HI 96817

16001046 / 16001100
CHUN, TAI MOY TR
817 A LAKIMELA LANE
HONOLULU HI 96817

17032063
CHUNG, LILLIAN L Y
1422 A PUA LANE
HONOLULU HI 96817

17032025
BUCK TOY CLUB
572 N VINEYARD BLVD
HONOLULU HI 96817

16001049 / 16001100
CABUSLAY, CHERRYLIN
811 A LAKIMELA LANE
HONOLULU HI 96817

16001121 / 16001055
CALDERON, ALFREDO B
816 LOPEZ LANE
HONOLULU HI 96817

17032059
CANDELARIO, JOINT TRUST
1416 PUA LANE
HONOLULU HI 96817

17032017
CEDAR ASSEMBLY OF GOD
P O BOX 201429
HONOLULU HI 96820

17031002
CHEN, DENNIS L
1230 PUA LANE #1
HONOLULU HI 96817

17031062
CHIYOKO TOGUCHI INC
1155 KAUMAILUNA PL
HONOLULU HI 96817

17032049
CHUN, PRESCOTT D M TR
98-138 KALIKE PLACE
AIEA HI 96701

17033044
CHUN, TONY Y F
4834 KAHALA AVENUE
HONOLULU HI 96816

17032064
CHUNG, PEARL L G
1428 PUA LANE
HONOLULU HI 96817

17031021 / 17031020
BUTAY, JUANITO/PATRICIA TR
1127 BANYAN STREET
HONOLULU HI 96817

16001044 / 16001100
CABUSLAY/ADORACION TRUST
811 LAKIMELA LANE
HONOLULU HI 96817

16001054 / 16001055
CALDERON, REGINA A TRUST
816 LOPEZ LANE
HONOLULU HI 96817

16001008
CAO, XIU YING
809 KANOA STREET
HONOLULU HI 96817

16001005
CHAN, DORIS Y TRUSTEE
P O BOX 1568
AIEA HI 96701

17031016 / 17031020
CHING, CHECK HUNG
1121 BANYAN STREET
HONOLULU HI 96817

16001051
CHOY, WALTER W F TR
C/O EDMUND CHOY
3030 PUIWA LANE
HONOLULU HI 96817

17031044 / 17031045
CHUN, RICHARD N T TRUST
646 WYLLIE STREET
HONOLULU HI 96817

17032062
CHUNG, FRED W C
1938 PALA STREET
HONOLULU HI 96817

17026008
CITY AND COUNTY OF HONOLULU
BERETANIA COMMUNITY PARK
1290 AALA STREET
HONOLULU HI 96817

15006022 / 15006030 / 16008001 / 17023033 / 17023042 / 17026017
CITY AND COUNTY OF HONOLULU
SANDRA PFUND, DIRECTOR
DEPARTMENT OF LAND MANAGEMENT
530 S KING STREET ROOM 306
HONOLULU HI 96813

15007049
COCKETT, RUDOLPH C TR EST
205 HALEMAUMAU STREET
HONOLULU HI 96821

17031005
DAN DUDDEN INC.
122 KAAPUNI STREET
KAILUA HI 96734

15006033
DHARMA REALM BUDDHIST ASSN
1777 MURCHISON DR
BURLINGAME CA 94010

17033041
DOMINGO, MIRIAM P
513 KIAPU PLACE
HONOLULU HI 96817

17031050
DUTTA, SUMITA
950 PAULSBORO DRIVE
ROCKVILLE MD 20850

17031014 / 17031011
FANG, CARDY J H C
P O BOX 235693
HONOLULU HI 96823

17032023
FHB PROPERTIES INC
C/O BANK PROPERTIES DEPT
P O BOX 3200
HONOLULU HI 96847

15007055
FOODMAKER INC
C/O EPROPERTY TAX DEPT 401
P O BOX 4900
SCOTTSDALE AZ 85261

15006006 / 17029006 / 17029011 / 17029012
FUJII FAMILY PARTNERSHIP
P O BOX 30607
HONOLULU HI 96820

17023040 / 17026008 / 17027002
CITY AND COUNTY OF HONOLULU
MICHELE NEKOTA, DIRECTOR
DEPARTMENT OF PARKS AND RECREATION
1000 ULUOHIA STREET SUITE 309
KAPOLEI HI 96707

17032034
CORPUZ, REMEDIOS S TR
634 E N VINEYARD BLVD
HONOLULU HI 96817

17032051 / 17032087
DE VERA, BENITA T
642 F N VINEYARD BLVD
HONOLULU HI 96817

16001002
DINIEGA, ORLANDO V TR
3528 ALIAMANU STREET
HONOLULU HI 96818

17026013 / 17026054
DOUGLAS EMMETT RESIDENTIAL 2014 LLC
ATTN: JOHN MEEHAN
808 WILSHIRE BLVD STE 200
SANTA MONICA CA 90401

17033002
ESPERAS, ALICE M TR
C/O MR. & MRS. CHARLES ESPERAS
94-345 KAUKALIA STREET
MILILANI HI 96789

15006023
FELCOR 1 LLC
1419 TAMARISK DRIVE
SAINT GEORGE UT 84790

15007043
FIRST HAWAIIAN BANK
C/O BANK PROPERTIES DEPT
P O BOX 3200
HONOLULU HI 96847

17032041 / 17032086
FORONDA, FEDERICO T
601 WAIPA LANE
HONOLULU HI 96817

15007041
G VON HAMM TEXTILES INC
916 KAAAHI PLACE
HONOLULU HI 96817

17023035 / 17026015
CITY AND COUNTY OF HONOLULU
WES FRYSZTACKI, DIRECTOR
DEPT OF TRANSPORTATION SERVICES
650 S KING STREET, 3RD FLOOR
HONOLULU HI 96813

15007003
CUPBOARD LLC
1616 LILIHA STREET 3RD FLOOR
HONOLULU HI 96817

17031034
DEVICTORIA, CARLOTA P
1108 HULAKUI DRIVE
HONOLULU HI 96818

16001045 / 16001100
DOLOR, FAUSTO A TRUST
811 LAKIMELA LANE
HONOLULU HI 96817

15008019
DOWNTOWN AFFORDABLES LLC
215 N KING STREET #1000
HONOLULU HI 96817

15007054
ETERNAL LIGHT LLC
700 BISHOP STREET #1104
HONOLULU HI 96813

15006020
FELCOR 2 LLC
1419 TAMARISK DRIVE
SAINT GEORGE UT 84790

17032050
FONG, SUZANNE S QUALIF DOMESTIC TR
1200 14TH AVENUE
HONOLULU HI 96816

16001050
FORONDA, LYNDON P
1240 PALAMA STREET
HONOLULU HI 96817

16001089
GANSIT, FERNANDO C TR
1137 AUSTIN LANE
HONOLULU HI 96817

16001022
GANSIT, FERNANDO C TRUST
P O BOX 19052
HONOLULU HI 96817

17031012 / 17031011
GUEVARRA, ALFREDO B
1119 BANYAN STREET
HONOLULU HI 96817

17031064
HAWAII CONFERENCE FOUNDATION
1848 NUUANU AVENUE
HONOLULU HI 96817

17026010
HAWAIIUSA FCU
1226 COLLEGE WALK
HONOLULU HI 96817

17032054 / 17032087
HEALING, EUGENE H
642 C N VINEYARD BLVD
HONOLULU HI 96817

17032048 / 17032087
HO, KIM CHI THI
642 N VINEYARD BLVD
HONOLULU HI 96817

16001041 / 16001100
HUANG, AIMING
823 B LAKIMELA LANE
HONOLULU HI 96817

15007050
INSTITUTE FOR HUMAN SERVICES
546 KAAAHI STREET
HONOLULU HI 96817

17032042 / 17032086
IWANAGA, CAROL ANN Y
622 B N VINEYARD BLVD
HONOLULU HI 96817

16001006
JAVIER, MARLON
819 KANOA STREET
HONOLULU HI 96817

16001052
GAO, JI KANG
722 PANUI STREET
HONOLULU HI 96817

17032030
GUZMAN, DOLORES D
634 A N VINEYARD BLVD
HONOLULU HI 96817

17026053
HAWAII HOUSING FINANCE AND DEV. CORP.
677 QUEEN STREET #300
HONOLULU HI 96813

17031057 / 17031063
HAWN ASSN 7TH DAY ADVENTIST
2728 PALI HWY
HONOLULU HI 96817

17031015 / 17031011
HEE, HENRY T K
P O BOX 17116
HONOLULU HI 96817

15008001
HO, PRIYA K
215 N KING STREET #1007
HONOLULU HI 96817

17032026
HUSAIN, SANTIAGO T JR
608 N VINEYARD BLVD 202
HONOLULU HI 96817

17032094
ISHIHARA, KAREN C
623 B WAIPA LANE
HONOLULU HI 96817

15006019
IZAWA INVESTMENT LLC
P O BOX 19164
HONOLULU HI 96817

17033046 / 17033047
JKA TRUST
C/O JOYCE K ALMEIDA
41-020 MANANA ST #A
WAIMANALO HI 96795

17032056 / 17032087
GROANING, JOSEPH E
642 A N VINEYARD BLVD
HONOLULU HI 96817

17031028
HALE O KANOA
CONDO MASTER
1110 BANYAN STREET
HONOLULU HI 96817

17026006 / 17029003
HAWAII PUBLIC HOUSING AUTHORITY
1002 N SCHOOL STREET
HONOLULU HI 96817

16001012
HAWN DIV TENSHO-KOTAI JINGU
888 KING STREET
HONOLULU HI 96817

15007006
HIGGINS PROPERTIES LLC
255 WASHINGTON STREET #230
NEWTON MA 02458

17032099
HPL CO LLC
ATTN: ILC & SWELL REALTY LLC
1441 KAPIOLANI BLVD #1915
HONOLULU HI 96814

15005017 / 15005018 / 15005023
IES RETAIL LLC
ATTN: TIM PARKER
91-480 MALAKOLE ST
EWA BEACH HI 96706

15006008 / 15006010
ISLAND-WEST INVESTMENT CORP
P O BOX 905
TERRY MT 59349

17026012
IZUMO TAISHAKYO MISS OF HAW
215 N KUKUI STREET
HONOLULU HI 96817

15006024
JOSE, JOSEPHINE TR
938 C AKEPO LANE
HONOLULU HI 96817

15005019
K SUMIYOSHI INC
918 HAO STREET
HONOLULU HI 96821

17023039
KAULUWELA 1
C/O HAWAIIANA MANAGEMENT CO
711 KAPIOLANI BLVD STE 700
HONOLULU HI 96813

17023036
KEOLA HOONANEA
C/O HAWAIIANA MGMT CO, LTD
711 KAPIOLANI BLVD #700
HONOLULU HI 96813

15006005
KO, KALVIN Y D
2711 PALI HWY
HONOLULU HI 96817

17032012
KWA, NATALIE A
1430 HOLELUA PLACE
HONOLULU HI 96817

17031046 / 17031045
LAM, TAT CHUEN/SERLIN P C TRUST
717 N VINEYARD BLVD
HONOLULU HI 96817

17032038
LAU, PING HUNG
634 I N VINEYARD BLVD
HONOLULU HI 96817

16001096
LEE, DANNY W K
814 LAKIMELA LANE
HONOLULU HI 96817

17033004
LEE, MING WAI TRUST
59 WINDCREST LANCE
SOUTH SAN FRANCISCO CA 94080

16001026
LI, DE XING
2114 KAHAHA STREET
HONOLULU HI 96819

15007037
KAAAHI DEVELOPMENT
921 KAAMAHU PLACE
HONOLULU HI 96817

17023001
KAULUWELA 2
C/O HAWAIIANA MGMT CO LTD
711 KAPIOLANI BLVD STE 700
HONOLULU HI 96813

17033006
KIKUKAWA, DAVID A
631 WAIPA LANE #3
HONOLULU HI 96817

17033007
KOREAN CHRISTIAN CHURCH
1832 LILIHA STREET
HONOLULU HI 96817

17032066 / 17032067 / 17032068
LAM, LAMBERT K Y
17 KEPOLA PLACE
HONOLULU HI 96817

17032057
LAM, TRAM T
704 N VINEYARD BLVD
HONOLULU HI 96817

17031013 / 17031011
LEE, AH FEI
1119 BANYAN STREET
HONOLULU HI 96817

17032078 / 17032087
LEE, DORIS Y M TR
642 J N VINEYARD BLVD
HONOLULU HI 96817

17032079 / 17032087
LEE, RICHARD K W TR
642 J N VINEYARD BLVD
HONOLULU HI 96817

17032035
LI, RI R TR
2521 PUAENA PLACE
HONOLULU HI 96822

17032032
KAGEYAMA, SY S
634 C N VINEYARD BLVD
HONOLULU HI 96817

16001090
KAYA, THOMAS T TRUST
1118 PALAMA STREET
HONOLULU HI 96817

15006001 / 15006003 / 15006012 / 15006013 / 15006014
KINGSGATE PLAZA CO
C/O LAU, MERTON
2920 S KING ST # 1001
HONOLULU HI 96826

17026011
KUKUI CHILDRENS FOUNDATION
245 N KUKUI STREET
HONOLULU HI 96817

16001020
LAM, LAMBERT K Y TR
17 KEPOLA PLACE
HONOLULU HI 96817

17032096
LANIO PROPERTIES CORP
C/O WARREN HO/LANI PROPERTIES
50 S BERETANIA ST C209
HONOLULU HI 96813

17032039
LEE, ALAN K C/JANIE Y Y TR
622 WAIPA LANE
HONOLULU HI 96817

17032085
LEE, FREDERICK C T
1624 KANUNU STREET #508
HONOLULU HI 96814

17031017 / 17031020
LEE, YUE HUNG L
1121 B BANYAN STREET
HONOLULU HI 96817

17033052
LIANG, JOE
507 KIAPU PLACE
HONOLULU HI 96817

17032018
LIANG, SIO C
624 WAIPA LANE #4
HONOLULU HI 96817

17032040 / 17032091
LIN, JIAN WEN
607 WAIPA LANE
HONOLULU HI 96817

17032089 / 17032080 / 17032091
LLAMAS, REMY C
627 WAIPA LANE
HONOLULU HI 96817

17032016
LU, XIAO JIE LIANG
1430 A HOLELUA PLACE
HONOLULU HI 96817

17032013 / 17032014
LUM, RITA L
23 KAUILA STREET #4
HONOLULU HI 96813

15005021
M & S PROPERTIES LLC
4563 WAIKUI STREET
HONOLULU HI 96821

17029001
MAH, YONG CHUN
1380 LILIHA ST
HONOLULU HI 96817

17031054 / 17031045
MATSUBARA, HERBERT H TRUST
709 N VINEYARD BLVD
HONOLULU HI 96817

16001023
MENOR, NICANOR G
815 LOPEZ LANE
HONOLULU HI 96817

15006015
MOLINA, TIMMY C TR
675 N KING ST # 200
HONOLULU HI 96817

17032005
LIANG, XU MING
532 WAIPA LANE
HONOLULU HI 96817

17032011
LIN, LEO
2101 ROUND TOP DR
HONOLULU HI 96822

17033001
LO, RENEE
99-904 LALAWAI DRIVE
AIEA HI 96701

16001092
LUIS, ROBERT G
820 LAKIMELA LANE
HONOLULU HI 96817

17032061
LUM, WING YEE LAU
1416 B PUA LANE
HONOLULU HI 96817

17032036
MA, NGAI
C/O ERIC MA
1217 OLINO STREET
HONOLULU HI 96818

17031032 / 17031035
MARIPOSA PROPERTIES LTD PTN
2117 MAUNA PLACE
HONOLULU HI 96822

17032033
MCDONALD, MARTIN L
634 D N VINEYARD BLVD
HONOLULU HI 96817

17029002
METHODIST EPISCOPAL CHURCH
1352 LILIHA STREET
HONOLULU HI 96817

17031006
NAKAHARA, JUNE H
1118 PUA LANE # 310
HONOLULU HI 96817

17033005
LILIHA PROFESSIONAL BUILDING LLC
1200 QUAIL STREET #235
NEWPORT BEACH CA 92660

17029013
LIU, WILSON
1638 OO LANE
HONOLULU HI 96817

17031030
LOO, WILLIAM W M
1203 PALAMA STREET
HONOLULU HI 96817

16001021
LUM, EULALIA W M TR
P O BOX 11480
HONOLULU HI 96828

17032022
LUNG KONG KUNG SHAW SOCIETY
1432 LILIHA STREET
HONOLULU HI 96817

17032053 / 17032087
MADDELA, FLORENTINO G JR
642 N VINEYARD BLVD
HONOLULU HI 96817

17032052
MATEO, IRIS A
2860 WAIALAE AVENUE #209
HONOLULU HI 96826

17032097
MCNALL, CHONG SON
1412 PUA LANE
HONOLULU HI 96817

17031001
MIKAMI, MARIKO TR
703 N VINEYARD BLVD
HONOLULU HI 96817

15006032
NAKAMURA, DAVID M
1001 DILLINGHAM BLVD APT 208
HONOLULU HI 96817

15007048
NAKAOKA INVESTMENTS INC
515 MAUI STREET
HONOLULU HI 96817

15007046 / 15007019
NUUANU CHINESE BAPTIST CHURCH
477 N KING STREET
HONOLULU HI 96817

16001039 / 16001100
PAGADUAN, HERMIE M
823 LAKIMELA LANE
HONOLULU HI 96817

17032010
PASCUA, CATALINO M
1440 HOLELUA PLACE
HONOLULU HI 96817

16001048 / 16001100
POBRE, ORNELIO S JR
811 LAKIMELA LANE
HONOLULU HI 96817

17031003
PUALANI MANOR CORP
C/O HAWAIIAN PROPERTIES LTD
P O BOX 38078
HONOLULU HI 96837

15006040
ROBELLO GROUP LLC
350 WARD AVENUE #27
HONOLULU HI 96814

16001024
SANCHEZ, JACINTO
811 LOPEZ LANE
HONOLULU HI 96817

17032075 / 17032091
SERENO, SILVERIO C JR
621 WAIPA LANE
HONOLULU HI 96819

17032090
SHIGAKI, ROBERT S TR EST
1051 KIKEKE AVENUE
HONOLULU HI 96816

17031026
NG, LARRY/PAZ TR
95-1005 HALEKUA STREET
MILILANI HI 96789

17032082
ON TONG TUNG HEONG SOCIETY
544 N VINEYARD BLVD
HONOLULU HI 96817

15005036 / 15005038
PALAMA PROPERTY LIMITED
1633 ANAPUNI ST
HONOLULU HI 96822

16001010
PASCUA, VILLAMOR S
1012 PALAMA STREET
HONOLULU HI 96817

15007047
PRECISION INDUSTRIES LTD
928 KAAMAHU PLACE
HONOLULU HI 96817

17032004
QIN, WEI-JIAN
530 WAIPA LANE
HONOLULU HI 96817

17031024 / 17031020
SALAZAR, PAUL D S
334 LEWIS ROAD
NEW BRITAIN CT 06053

17032072 / 17032074 / 17032095
SEBASTIAN, FLORANTE S LLC
2008 PUUKAPU STREET
HONOLULU HI 96819

15006004
SETO, FULTON L TRUST
C/O GOODWIN SETO TR
3730 SIERRA DR
HONOLULU HI 96816

17032020
SHIRAI GROUP LLC
1448 LILIHA STREET
HONOLULU HI 96817

17031027
NGUYEN, SAMSON
1131 B BANYAN STREET
HONOLULU HI 96817

17032031
PADAYAO, DIEGO R
634 B N VINEYARD BLVD
HONOLULU HI 96817

17031040 / 17045001
PALAMA SETTLEMENT
810 N VINEYARD BLVD
HONOLULU HI 96817

17031042 / 17031045
PATRICIO, ANTONIO L
717 VINEYARD BLVD
HONOLULU HI 96817

15007033
PROPERTY INVESTMENTS LLC
C/O T.J. MAHONEY & ASSOCIATES, INC
8068 W. SAHARA AVE, STE E
LAS VEGAS NV 89117

16001003
R & D CONTRACTORS
2227 ALA MAHAMOE STREET
HONOLULU HI 96819

17023038
SALVATION ARMY THE
P O BOX 620
HONOLULU HI 96809

17031053 / 17031045
SEDYANA, PADMA
709 N VINEYARD BLVD
HONOLULU HI 96817

17031009 / 17031011
SHEN, LIANNE
1115 A BANYAN STREET
HONOLULU HI 96817

17031025 / 17031020
SIRISUMPHANT, APIWAT
1127 BANYAN STREET
HONOLULU HI 96817

17031052 / 17031048
ST ELIZABETH'S EPISCOPAL CHURCH
720 N KING STREET
HONOLULU HI 96817

15007001
STATE OF HAWAII
DEPARTMENT OF HUMAN SERVICES
333 N KING STREET
HONOLULU HI 96817

15017001
STATE OF HAWAII
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES
1151 PUNCHBOWL STREET
HONOLULU HI 96817

17023043
STATE OF HAWAII
LILIHA PUBLIC LIBRARY
1515 LILIHA STREET
HONOLULU HI 96817

17032088
TABIOS, AURORA T TRUST
P O BOX 1254
KANEOHE HI 96744

15005015
TANAKA, SACHIKO TR
1633 ANAPUNI STREET
HONOLULU HI 96822

17031037
TOGUCHI CHIYOKO INC
1155 KAUMAILUNA PL
HONOLULU HI 96817

15006016 / 15006042 / 15006043 / 15006044
TRAN, CUONG HOANG TRUST
125 MOKAUEA STREET
HONOLULU HI 96819

17033003
TSANG, NGAR SEUNG
515 HIRAM LANE
HONOLULU HI 96817

17032047
TUPPIL, MARCELINO P
1411 PUA LANE
HONOLULU HI 96817

17023041 / 15005016
STATE OF HAWAII
DR. CHRISTINA KISHIMOTO
DEPARTMENT OF EDUCATION
P O BOX 2360
HONOLULU HI 96804

15005014 / 17027001
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
1151 PUNCHBOWL STREET
HONOLULU HI 96817

15005016
STATE OF HAWAII
KAIULANI ELEMENTARY SCHOOL
783 N KING STREET
HONOLULU HI 96817

15006018
SUH, YONG BUM
1090 KEOLU DRIVE #101
KAILUA HI 96734

17032069
TAM, MICHAEL K W
P O BOX 29389
HONOLULU HI 96820

16001027
TANG, DENNIS
1110 PALAMA STREET
HONOLULU HI 96817

15006021
TOMITA, VIVIAN T TRUST
P O BOX 1858
AIEA HI 96701

16001009
TRAN, HOANG T
801 KANOA STREET
HONOLULU HI 96817

15007032
TSR PARTNERS
P O BOX 10242
HONOLULU HI 96816

17023008
UEHARA, SEIJI
1425 LILIHA STREET 6E
HONOLULU HI 96817

15007001
STATE OF HAWAII
PANKAJ BHANOT, DIRECTOR
DEPARTMENT OF HUMAN SERVICES
1390 MILLER STREET SUITE 209
HONOLULU HI 96813

17023037 / 17033040 / 17032044 / 17032046
STATE OF HAWAII
JADE BUTAY, INTERIM DIRECTOR
DEPARTMENT OF TRANSPORTATION
869 PUNCHBOWL STREET ROOM 509
HONOLULU HI 96813

17023041
STATE OF HAWAII
KAULUWELA ELEMENTARY SCHOOL
1486 AALA STREET
HONOLULU HI 96817

17032007 / 17032021
SUNRISE DRAGON LLC
C/O TOM SHINSATO REALTY, INC
1744 LILIHA STREET #306
HONOLULU HI 96817

16001001
TAMASHIRO, WALTER H TRUSTEE
C/O TAMASHIRO, CYRUS TRUSTEE
802 N KING STREET
HONOLULU HI 96817

15007031
THOM, BUCK K FAMILY PRTNSP
C/O LOWELL THOM
P O BOX 23380
HONOLULU HI 96823

15006034
TOYAMA, IVAN K/FAY K TR
1565 ST LOUIS DRIVE
HONOLULU HI 96816

16001004
TRANG, GEORGE G N TR
930 N KING STREET
HONOLULU HI 96817

17032037
TSURUDA, RICHARD M/TOKUKO GEN TRF TR
C/O FRANKLIN TSURUDA
6220 S 153RD ST #2
SEATTLE WA 98188

15005003 / 15006026 / 15006027 / 15006028 / 15005039 / 15017004 / 15017005 / 15017006 / 15018003
UNIVERSITY OF HAWAII
HONOLULU COMMUNITY COLLEGE
874 DILLINGHAM BLVD
HONOLULU HI 96817

15006017
UYENO, JEANNIE
958 AKEPO LANE
HONOLULU HI 96817

17032081 / 17032080 / 17032091
VIDAD, CEASAR R V
627 B WAIPA LANE
HONOLULU HI 96817

16001116 / 16001055
WHITING, SANYBOY S
824 LOPEZ LANE
HONOLULU HI 96817

17032009
WONG, RANDAL S/YVONNE M TR
1443 HOLELUA PLACE
HONOLULU HI 96817

17032015
XIAO, GUO Y
556 WAIPA LANE
HONOLULU HI 96817

17031022 / 17031020
YOUNG, CLIFFORD M G
1127 BANYAN STREET
HONOLULU HI 96817

17032093
VALENZUELA, CELIA G TR
1416 C PUA LANE
HONOLULU HI 96817

16001028
VIETNAMESE BUDDHIST ASSN
HONOLULU PROPERTY MANAGEMENT LLC
1003 BISHOP ST STE 2250
HONOLULU HI 96813

16001007
WONG, ALTON S TR
PALACE REALTY
1314 S KING ST #1463
HONOLULU HI 96814

16001119 / 16001055
WU, XIUFANG
824 LOPEZ LANE
HONOLULU HI 96817

16001043 / 16001100
YAGYAGAN, ELISA I TRUST
811 D LAKIMELA LANE
HONOLULU HI 96817

17032098
ZHANG, HENRY Y
1408 PUA LANE
HONOLULU HI 96817

17033045
VASS LLC
1222A ALANI STREET
HONOLULU HI 96817

16001118 / 16001055
WALLACE, TO-NU LU
1260 RICHARD LANE #B604
HONOLULU HI 96819

17032084 / 17032091
WONG, PHILIP Y F
615 WAIPA LANE
HONOLULU HI 96817

16001127
XI, ZHANG NIAN
1310 PALAMA STREET
HONOLULU HI 96817

15007052
YI, DOLE K S
87-1059 D PAPAYA RD
WAIANAE HI 96792

16001042 / 16001100
ZHU, TENG HAN
811 E LAKIMELA LANE
HONOLULU HI 96817

EXHIBIT C

Direct Mail Advertising Since 1947

creative direct mail advertising ★ database management
laser printing ★ inkjet addressing ★ inserting
daily automated presorting

Cardinal Services Ltd.

October 31, 2017

To Whom It May Concern:

I, Tonya Ponsiano, Vice President of Sales for Cardinal Services Ltd., do hereby certify we intend to process and deliver the Mayor Wright Housing notice consisting of 3,673 mail pieces to the post office for mailing by end of day on November 1, 2017.

Regards,

Tonya Ponsiano
Vice President of Sales

CARDINAL SERVICES LTD.
197 Sand Island Access Rd. #211 ★ HONOLULU HAWAII 96819
✆ (808) 538 3884 🖷 (808) 521 1419

EXHIBIT C

OCCUPANT	Address	City	State	Zip
BUSINESS OCCUPANT	935 DILLINGHAM BLVD	HONOLULU	HI	96817-4506
BUSINESS OCCUPANT	874 DILLINGHAM BLVD	HONOLULU	HI	96817-4505
BUSINESS OCCUPANT	925 DILLINGHAM BLVD	HONOLULU	HI	96817-4506
BUSINESS OCCUPANT	909 DILLINGHAM BLVD	HONOLULU	HI	96817-4540
BUSINESS OCCUPANT	801 DILLINGHAM BLVD STE 101	HONOLULU	HI	96817-4529
BUSINESS OCCUPANT	801 DILLINGHAM BLVD STE 103	HONOLULU	HI	96817-4529
BUSINESS OCCUPANT	801 DILLINGHAM BLVD STE 105	HONOLULU	HI	96817-4529
BUSINESS OCCUPANT	801 DILLINGHAM BLVD STE 106	HONOLULU	HI	96817-4529
BUSINESS OCCUPANT	801 DILLINGHAM BLVD STE 108	HONOLULU	HI	96817-4529
BUSINESS OCCUPANT	801 DILLINGHAM BLVD STE 200	HONOLULU	HI	96817-4529
BUSINESS OCCUPANT	801 DILLINGHAM BLVD STE 300	HONOLULU	HI	96817-4529
RESIDENT	1238 PUA LN	HONOLULU	HI	96817-3815
RESIDENT	1232 PUA LN	HONOLULU	HI	96817-3815
RESIDENT	1230 PUA LN APT 1	HONOLULU	HI	96817-3815
RESIDENT	1230 PUA LN APT 2	HONOLULU	HI	96817-3815
RESIDENT	1230 PUA LN APT 2	HONOLULU	HI	96817-3815
RESIDENT	1216 PUA LN APT 101	HONOLULU	HI	96817-3821
RESIDENT	1216 PUA LN APT 102	HONOLULU	HI	96817-3821
RESIDENT	1216 PUA LN APT 103	HONOLULU	HI	96817-3821
RESIDENT	1216 PUA LN APT 104	HONOLULU	HI	96817-3821
RESIDENT	1216 PUA LN APT 105	HONOLULU	HI	96817-3821
RESIDENT	1216 PUA LN APT 106	HONOLULU	HI	96817-3821
RESIDENT	1216 PUA LN APT 107	HONOLULU	HI	96817-3821
RESIDENT	1216 PUA LN APT 201	HONOLULU	HI	96817-3821
RESIDENT	1216 PUA LN APT 202	HONOLULU	HI	96817-3823
RESIDENT	1216 PUA LN APT 203	HONOLULU	HI	96817-3823
RESIDENT	1216 PUA LN APT 204	HONOLULU	HI	96817-3823
RESIDENT	1216 PUA LN APT 205	HONOLULU	HI	96817-3823
RESIDENT	1216 PUA LN APT 206	HONOLULU	HI	96817-3823
RESIDENT	1216 PUA LN APT 207	HONOLULU	HI	96817-3823
RESIDENT	1216 PUA LN APT 208	HONOLULU	HI	96817-3823
RESIDENT	1216 PUA LN APT 301	HONOLULU	HI	96817-3823
RESIDENT	1216 PUA LN APT 302	HONOLULU	HI	96817-3283
RESIDENT	1216 PUA LN APT 303	HONOLULU	HI	96817-3824
RESIDENT	1216 PUA LN APT 304	HONOLULU	HI	96817-3824
RESIDENT	1216 PUA LN APT 305	HONOLULU	HI	96817-3824
RESIDENT	1216 PUA LN APT 306	HONOLULU	HI	96817-3824
RESIDENT	1216 PUA LN APT 307	HONOLULU	HI	96817-3824
RESIDENT	1216 PUA LN APT 308	HONOLULU	HI	96817-3824
RESIDENT	1216 PUA LN APT 401	HONOLULU	HI	96817-3824
RESIDENT	1216 PUA LN APT 402	HONOLULU	HI	96817-3825
RESIDENT	1216 PUA LN APT 403	HONOLULU	HI	96817-3825
RESIDENT	1216 PUA LN APT 404	HONOLULU	HI	96817-3825
RESIDENT	1216 PUA LN APT 405	HONOLULU	HI	96817-3825
RESIDENT	1216 PUA LN APT 406	HONOLULU	HI	96817-3825
RESIDENT	1216 PUA LN APT 407	HONOLULU	HI	96817-3825
RESIDENT	1216 PUA LN APT 408	HONOLULU	HI	96817-3825
RESIDENT	1216 PUA LN APT 501	HONOLULU	HI	96817-3285

RESIDENT	1216 PUA LN APT 502	HONOLULU	HI	96817-3285
RESIDENT	1216 PUA LN APT 503	HONOLULU	HI	96817-3285
RESIDENT	1216 PUA LN APT 504	HONOLULU	HI	96817-3826
RESIDENT	1216 PUA LN APT 505	HONOLULU	HI	96817-3826
RESIDENT	1216 PUA LN APT 506	HONOLULU	HI	96817-3826
RESIDENT	1216 PUA LN APT 507	HONOLULU	HI	96817-3826
RESIDENT	1216 PUA LN APT 508	HONOLULU	HI	96817-3826
RESIDENT	1216 PUA LN APT 601	HONOLULU	HI	96817-3826
RESIDENT	1216 PUA LN APT 602	HONOLULU	HI	96817-3827
RESIDENT	1216 PUA LN APT 603	HONOLULU	HI	96817-3827
RESIDENT	1216 PUA LN APT 604	HONOLULU	HI	96817-3827
RESIDENT	1216 PUA LN APT 605	HONOLULU	HI	96817-3827
RESIDENT	1216 PUA LN APT 606	HONOLULU	HI	96817-3827
RESIDENT	1216 PUA LN APT 607	HONOLULU	HI	96817-3827
RESIDENT	1216 PUA LN APT 608	HONOLULU	HI	96817-3827
RESIDENT	1216 PUA LN APT 701	HONOLULU	HI	96817-3827
RESIDENT	1216 PUA LN APT 702	HONOLULU	HI	96817-3827
RESIDENT	1216 PUA LN APT 703	HONOLULU	HI	96817-3827
RESIDENT	1216 PUA LN APT 704	HONOLULU	HI	96817-3827
RESIDENT	1216 PUA LN APT 705	HONOLULU	HI	96817-3828
RESIDENT	1216 PUA LN APT 706	HONOLULU	HI	96817-3828
RESIDENT	1216 PUA LN APT 707	HONOLULU	HI	96817-3828
RESIDENT	1216 PUA LN APT 708	HONOLULU	HI	96817-3828
RESIDENT	1216 PUA LN APT 801	HONOLULU	HI	96817-3828
RESIDENT	1216 PUA LN APT 802	HONOLULU	HI	96817-3829
RESIDENT	1216 PUA LN APT 803	HONOLULU	HI	96817-3829
RESIDENT	1216 PUA LN APT 804	HONOLULU	HI	96817-3829
RESIDENT	1216 PUA LN APT 805	HONOLULU	HI	96817-3829
RESIDENT	1216 PUA LN APT 806	HONOLULU	HI	96817-3829
RESIDENT	1216 PUA LN APT 807	HONOLULU	HI	96817-3829
RESIDENT	1216 PUA LN APT 808	HONOLULU	HI	96817-3829
BUSINESS OCCUPANT	1216 PUA LN OFC 901	HONOLULU	HI	96817-3829
RESIDENT	1202 PUA LN APT 9	HONOLULU	HI	96817-3818
RESIDENT	1202 PUA LN APT 10	HONOLULU	HI	96817-3818
RESIDENT	1202 PUA LN APT 11	HONOLULU	HI	96817-3818
RESIDENT	1202 PUA LN APT 12	HONOLULU	HI	96817-3818
RESIDENT	1202 PUA LN APT 14	HONOLULU	HI	96817-3818
RESIDENT	1202 PUA LN APT 15	HONOLULU	HI	96817-3818
RESIDENT	1202 PUA LN APT 16	HONOLULU	HI	96817-3818
RESIDENT	1202 PUA LN APT 1	HONOLULU	HI	96817-3817
RESIDENT	1202 PUA LN APT 2	HONOLULU	HI	96817-3817
RESIDENT	1202 PUA LN APT 3	HONOLULU	HI	96817-3817
RESIDENT	1202 PUA LN APT 4	HONOLULU	HI	96817-3817
RESIDENT	1202 PUA LN APT 5	HONOLULU	HI	96817-3817
RESIDENT	1202 PUA LN APT 6	HONOLULU	HI	96817-3817
RESIDENT	1202 PUA LN APT 7	HONOLULU	HI	96817-3817
RESIDENT	1202 PUA LN APT 8	HONOLULU	HI	96817-3817
RESIDENT	1120 PUA LN APT 101	HONOLULU	HI	96817-3803
RESIDENT	1120 PUA LN APT 102	HONOLULU	HI	96817-3803

RESIDENT	1120 PUA LN APT 103	HONOLULU	HI	96817-3803
RESIDENT	1120 PUA LN APT 201	HONOLULU	HI	96817-3803
RESIDENT	1120 PUA LN APT 202	HONOLULU	HI	96817-3805
RESIDENT	1120 PUA LN APT 203	HONOLULU	HI	96817-3805
RESIDENT	1120 PUA LN APT 301	HONOLULU	HI	96817-3805
RESIDENT	1120 PUA LN APT 303	HONOLULU	HI	96817-3805
RESIDENT	1118 PUA LN APT 101	HONOLULU	HI	96817-3808
RESIDENT	1118 PUA LN APT 102	HONOLULU	HI	96817-3808
RESIDENT	1118 PUA LN APT 103	HONOLULU	HI	96817-3808
RESIDENT	1118 PUA LN APT 104	HONOLULU	HI	96817-3808
RESIDENT	1118 PUA LN APT 105	HONOLULU	HI	96817-3808
RESIDENT	1118 PUA LN APT 106	HONOLULU	HI	96817-3808
RESIDENT	1118 PUA LN APT 107	HONOLULU	HI	96817-3808
RESIDENT	1118 PUA LN APT 108	HONOLULU	HI	96817-3808
RESIDENT	1118 PUA LN APT 109	HONOLULU	HI	96817-3808
RESIDENT	1118 PUA LN APT 110	HONOLULU	HI	96817-3808
RESIDENT	1118 PUA LN APT 213	HONOLULU	HI	96817-3811
RESIDENT	1118 PUA LN APT 214	HONOLULU	HI	96817-3811
RESIDENT	1118 PUA LN APT 215	HONOLULU	HI	96817-3811
RESIDENT	1118 PUA LN APT 216	HONOLULU	HI	96817-3811
RESIDENT	1118 PUA LN APT 301	HONOLULU	HI	96817-3811
RESIDENT	1118 PUA LN APT 302	HONOLULU	HI	96817-3811
RESIDENT	1118 PUA LN APT 303	HONOLULU	HI	96817-3811
RESIDENT	1118 PUA LN APT 304	HONOLULU	HI	96817-3811
RESIDENT	1118 PUA LN APT 305	HONOLULU	HI	96817-3811
RESIDENT	1118 PUA LN APT 306	HONOLULU	HI	96817-3811
RESIDENT	1118 PUA LN APT 111	HONOLULU	HI	96817-3809
RESIDENT	1118 PUA LN APT 112	HONOLULU	HI	96817-3809
RESIDENT	1118 PUA LN APT 113	HONOLULU	HI	96817-3809
RESIDENT	1118 PUA LN APT 114	HONOLULU	HI	96817-3809
RESIDENT	1118 PUA LN APT 115	HONOLULU	HI	96817-3809
RESIDENT	1118 PUA LN APT 116	HONOLULU	HI	96817-3809
RESIDENT	1118 PUA LN APT 201	HONOLULU	HI	96817-3809
RESIDENT	1118 PUA LN APT 202	HONOLULU	HI	96817-3809
RESIDENT	1118 PUA LN APT 203	HONOLULU	HI	96817-3809
RESIDENT	1118 PUA LN APT 204	HONOLULU	HI	96817-3809
RESIDENT	1118 PUA LN APT 307	HONOLULU	HI	96817-3812
RESIDENT	1118 PUA LN APT 308	HONOLULU	HI	96817-3812
RESIDENT	1118 PUA LN APT 309	HONOLULU	HI	96817-3812
RESIDENT	1118 PUA LN APT 310	HONOLULU	HI	96817-3812
RESIDENT	1118 PUA LN APT 311	HONOLULU	HI	96817-3812
RESIDENT	1118 PUA LN APT 312	HONOLULU	HI	96817-3812
RESIDENT	1118 PUA LN APT 313	HONOLULU	HI	96817-3812
RESIDENT	1118 PUA LN APT 314	HONOLULU	HI	96817-3812
RESIDENT	1118 PUA LN APT 315	HONOLULU	HI	96817-3812
RESIDENT	1118 PUA LN APT 316	HONOLULU	HI	96817-3812
RESIDENT	1118 PUA LN APT 205	HONOLULU	HI	96817-3810
RESIDENT	1118 PUA LN APT 206	HONOLULU	HI	96817-3810
RESIDENT	1118 PUA LN APT 207	HONOLULU	HI	96817-3810

RESIDENT	1118 PUA LN APT 208	HONOLULU	HI	96817-3810
RESIDENT	1118 PUA LN APT 209	HONOLULU	HI	96817-3810
RESIDENT	1118 PUA LN APT 210	HONOLULU	HI	96817-3810
RESIDENT	1118 PUA LN APT 211	HONOLULU	HI	96817-3810
RESIDENT	1118 PUA LN APT 212	HONOLULU	HI	96817-3810
RESIDENT	1220 AALA ST APT 100	HONOLULU	HI	96817-3904
RESIDENT	1220 AALA ST APT 101	HONOLULU	HI	96817-3904
RESIDENT	1220 AALA ST APT 102	HONOLULU	HI	96817-3904
RESIDENT	1220 AALA ST APT 103	HONOLULU	HI	96817-3904
RESIDENT	1220 AALA ST APT 104	HONOLULU	HI	96817-3904
RESIDENT	1220 AALA ST APT 105	HONOLULU	HI	96817-3904
RESIDENT	1220 AALA ST APT 106	HONOLULU	HI	96817-3904
RESIDENT	1220 AALA ST APT 107	HONOLULU	HI	96817-3904
RESIDENT	1220 AALA ST APT 108	HONOLULU	HI	96817-3904
RESIDENT	1220 AALA ST APT 408	HONOLULU	HI	96817-3916
RESIDENT	1220 AALA ST APT 409	HONOLULU	HI	96817-3916
RESIDENT	1220 AALA ST APT 410	HONOLULU	HI	96817-3916
RESIDENT	1220 AALA ST APT 501	HONOLULU	HI	96817-3916
RESIDENT	1220 AALA ST APT 502	HONOLULU	HI	96817-3916
RESIDENT	1220 AALA ST APT 503	HONOLULU	HI	96817-3916
RESIDENT	1220 AALA ST APT 504	HONOLULU	HI	96817-3916
RESIDENT	1220 AALA ST APT 505	HONOLULU	HI	96817-3916
RESIDENT	1220 AALA ST APT 506	HONOLULU	HI	96817-3916
RESIDENT	1220 AALA ST APT 109	HONOLULU	HI	96817-3948
RESIDENT	1220 AALA ST APT 201	HONOLULU	HI	96817-3948
RESIDENT	1220 AALA ST APT 202	HONOLULU	HI	96817-3948
RESIDENT	1220 AALA ST APT 203	HONOLULU	HI	96817-3948
RESIDENT	1220 AALA ST APT 204	HONOLULU	HI	96817-3948
RESIDENT	1220 AALA ST APT 205	HONOLULU	HI	96817-3948
RESIDENT	1220 AALA ST APT 206	HONOLULU	HI	96817-3948
RESIDENT	1220 AALA ST APT 207	HONOLULU	HI	96817-3948
RESIDENT	1220 AALA ST APT 208	HONOLULU	HI	96817-3948
RESIDENT	1220 AALA ST APT 507	HONOLULU	HI	96817-3906
RESIDENT	1220 AALA ST APT 508	HONOLULU	HI	96817-3906
RESIDENT	1220 AALA ST APT 509	HONOLULU	HI	96817-3906
RESIDENT	1220 AALA ST APT 510	HONOLULU	HI	96817-3906
RESIDENT	1220 AALA ST APT 601	HONOLULU	HI	96817-3906
RESIDENT	1220 AALA ST APT 602	HONOLULU	HI	96817-3906
RESIDENT	1220 AALA ST APT 603	HONOLULU	HI	96817-3906
RESIDENT	1220 AALA ST APT 604	HONOLULU	HI	96817-3906
RESIDENT	1220 AALA ST APT 605	HONOLULU	HI	96817-3906
RESIDENT	1220 AALA ST APT 606	HONOLULU	HI	96817-3906
RESIDENT	1220 AALA ST APT 209	HONOLULU	HI	96817-3905
RESIDENT	1220 AALA ST APT 210	HONOLULU	HI	96817-3905
RESIDENT	1220 AALA ST APT 301	HONOLULU	HI	96817-3905
RESIDENT	1220 AALA ST APT 302	HONOLULU	HI	96817-3905
RESIDENT	1220 AALA ST APT 303	HONOLULU	HI	96817-3905
RESIDENT	1220 AALA ST APT 304	HONOLULU	HI	96817-3905
RESIDENT	1220 AALA ST APT 305	HONOLULU	HI	96817-3905

RESIDENT	1220 AALA ST APT 306	HONOLULU	HI	96817-3905
RESIDENT	1220 AALA ST APT 307	HONOLULU	HI	96817-3905
RESIDENT	1220 AALA ST APT 308	HONOLULU	HI	96817-3905
RESIDENT	1220 AALA ST APT 607	HONOLULU	HI	96817-3907
RESIDENT	1220 AALA ST APT 608	HONOLULU	HI	96817-3907
RESIDENT	1220 AALA ST APT 609	HONOLULU	HI	96817-3907
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RESIDENT	1220 AALA ST APT 701	HONOLULU	HI	96817-3907
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RESIDENT	1220 AALA ST APT 704	HONOLULU	HI	96817-3907
RESIDENT	1220 AALA ST APT 705	HONOLULU	HI	96817-3907
RESIDENT	1220 AALA ST APT 706	HONOLULU	HI	96817-3907
RESIDENT	1220 AALA ST APT 309	HONOLULU	HI	96817-3901
RESIDENT	1220 AALA ST APT 310	HONOLULU	HI	96817-3901
RESIDENT	1220 AALA ST APT 401	HONOLULU	HI	96817-3901
RESIDENT	1220 AALA ST APT 402	HONOLULU	HI	96817-3901
RESIDENT	1220 AALA ST APT 403	HONOLULU	HI	96817-3901
RESIDENT	1220 AALA ST APT 404	HONOLULU	HI	96817-3901
RESIDENT	1220 AALA ST APT 405	HONOLULU	HI	96817-3901
RESIDENT	1220 AALA ST APT 406	HONOLULU	HI	96817-3901
RESIDENT	1220 AALA ST APT 407	HONOLULU	HI	96817-3901
RESIDENT	1220 AALA ST APT 707	HONOLULU	HI	96817-3908
RESIDENT	1220 AALA ST APT 708	HONOLULU	HI	96817-3908
RESIDENT	1220 AALA ST APT 709	HONOLULU	HI	96817-3908
RESIDENT	1220 AALA ST APT 710	HONOLULU	HI	96817-3908
RESIDENT	1220 AALA ST APT 801	HONOLULU	HI	96817-3908
RESIDENT	1220 AALA ST APT 802	HONOLULU	HI	96817-3908
RESIDENT	1220 AALA ST APT 803	HONOLULU	HI	96817-3908
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RESIDENT	1220 AALA ST APT 808	HONOLULU	HI	96817-3909
RESIDENT	1220 AALA ST APT 809	HONOLULU	HI	96817-3909
RESIDENT	1220 AALA ST APT 810	HONOLULU	HI	96817-3909
RESIDENT	1220 AALA ST APT 901	HONOLULU	HI	96817-3909
RESIDENT	1220 AALA ST APT 902	HONOLULU	HI	96817-3909
RESIDENT	1220 AALA ST APT 903	HONOLULU	HI	96817-3909
RESIDENT	1220 AALA ST APT 904	HONOLULU	HI	96817-3909
RESIDENT	1220 AALA ST APT 1204	HONOLULU	HI	96817-3913
RESIDENT	1220 AALA ST APT 1205	HONOLULU	HI	96817-3913
RESIDENT	1220 AALA ST APT 1206	HONOLULU	HI	96817-3913
RESIDENT	1220 AALA ST APT 1207	HONOLULU	HI	96817-3913
RESIDENT	1220 AALA ST APT 1208	HONOLULU	HI	96817-3913
RESIDENT	1220 AALA ST APT 1209	HONOLULU	HI	96817-3913
RESIDENT	1220 AALA ST APT 1210	HONOLULU	HI	96817-3913
RESIDENT	1220 AALA ST APT 1401	HONOLULU	HI	96817-3913
RESIDENT	1220 AALA ST APT 1402	HONOLULU	HI	96817-3913

RESIDENT	1220 AALA ST APT 905	HONOLULU	HI	96817-3910
RESIDENT	1220 AALA ST APT 906	HONOLULU	HI	96817-3910
RESIDENT	1220 AALA ST APT 907	HONOLULU	HI	96817-3910
RESIDENT	1220 AALA ST APT 908	HONOLULU	HI	96817-3910
RESIDENT	1220 AALA ST APT 909	HONOLULU	HI	96817-3910
RESIDENT	1220 AALA ST APT 910	HONOLULU	HI	96817-3910
RESIDENT	1220 AALA ST APT 1001	HONOLULU	HI	96817-3910
RESIDENT	1220 AALA ST APT 1002	HONOLULU	HI	96817-3910
RESIDENT	1220 AALA ST APT 1003	HONOLULU	HI	96817-3910
RESIDENT	1220 AALA ST APT 1004	HONOLULU	HI	96817-3910
RESIDENT	1220 AALA ST APT 1403	HONOLULU	HI	96817-3914
RESIDENT	1220 AALA ST APT 1404	HONOLULU	HI	96817-3914
RESIDENT	1220 AALA ST APT 1405	HONOLULU	HI	96817-3914
RESIDENT	1220 AALA ST APT 1406	HONOLULU	HI	96817-3914
RESIDENT	1220 AALA ST APT 1407	HONOLULU	HI	96817-3914
RESIDENT	1220 AALA ST APT 1408	HONOLULU	HI	96817-3914
RESIDENT	1220 AALA ST APT 1409	HONOLULU	HI	96817-3914
RESIDENT	1220 AALA ST APT 1410	HONOLULU	HI	96817-3914
RESIDENT	1220 AALA ST APT 1501	HONOLULU	HI	96817-3914
RESIDENT	1220 AALA ST APT 1502	HONOLULU	HI	96817-3914
RESIDENT	1220 AALA ST APT 1005	HONOLULU	HI	96817-3911
RESIDENT	1220 AALA ST APT 1006	HONOLULU	HI	96817-3911
RESIDENT	1220 AALA ST APT 1007	HONOLULU	HI	96817-3911
RESIDENT	1220 AALA ST APT 1008	HONOLULU	HI	96817-3911
RESIDENT	1220 AALA ST APT 1009	HONOLULU	HI	96817-3911
RESIDENT	1220 AALA ST APT 1010	HONOLULU	HI	96817-3911
RESIDENT	1220 AALA ST APT 1101	HONOLULU	HI	96817-3911
RESIDENT	1220 AALA ST APT 1102	HONOLULU	HI	96817-3911
RESIDENT	1220 AALA ST APT 1103	HONOLULU	HI	96817-3911
RESIDENT	1220 AALA ST APT 1104	HONOLULU	HI	96817-3911
RESIDENT	1220 AALA ST APT 1503	HONOLULU	HI	96817-3915
RESIDENT	1220 AALA ST APT 1504	HONOLULU	HI	96817-3915
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RESIDENT	1220 AALA ST APT 1506	HONOLULU	HI	96817-3915
RESIDENT	1220 AALA ST APT 1507	HONOLULU	HI	96817-3915
RESIDENT	1220 AALA ST APT 1508	HONOLULU	HI	96817-3915
RESIDENT	1220 AALA ST APT 1509	HONOLULU	HI	96817-3915
RESIDENT	1220 AALA ST APT 1510	HONOLULU	HI	96817-3915
RESIDENT	1220 AALA ST APT 1601	HONOLULU	HI	96817-3915
RESIDENT	1220 AALA ST APT 1602	HONOLULU	HI	96817-3915
RESIDENT	1220 AALA ST APT 1105	HONOLULU	HI	96817-3912
RESIDENT	1220 AALA ST APT 1106	HONOLULU	HI	96817-3912
RESIDENT	1220 AALA ST APT 1107	HONOLULU	HI	96817-3912
RESIDENT	1220 AALA ST APT 1108	HONOLULU	HI	96817-3912
RESIDENT	1220 AALA ST APT 1109	HONOLULU	HI	96817-3912
RESIDENT	1220 AALA ST APT 1110	HONOLULU	HI	96817-3912
RESIDENT	1220 AALA ST APT 1201	HONOLULU	HI	96817-3912
RESIDENT	1220 AALA ST APT 1202	HONOLULU	HI	96817-3912
RESIDENT	1220 AALA ST APT 1203	HONOLULU	HI	96817-3912

RESIDENT	1220 AALA ST APT 1603	HONOLULU	HI	96817-3960
RESIDENT	1220 AALA ST APT 1604	HONOLULU	HI	96817-3960
RESIDENT	1220 AALA ST APT 1605	HONOLULU	HI	96817-3960
RESIDENT	1220 AALA ST APT 1606	HONOLULU	HI	96817-3960
RESIDENT	1220 AALA ST APT 1607	HONOLULU	HI	96817-3960
RESIDENT	1220 AALA ST APT 1608	HONOLULU	HI	96817-3960
RESIDENT	1220 AALA ST APT 1609	HONOLULU	HI	96817-3960
RESIDENT	1220 AALA ST APT 1610	HONOLULU	HI	96817-3960
BUSINESS OCCUPANT	1220 AALA ST OFC	HONOLULU	HI	96817-3960
BUSINESS OCCUPANT	1259 AALA ST STE 201	HONOLULU	HI	96817-3962
BUSINESS OCCUPANT	1259 AALA ST STE 201	HONOLULU	HI	96817-3962
BUSINESS OCCUPANT	1259 AALA ST STE 202	HONOLULU	HI	96817-3962
BUSINESS OCCUPANT	1259 AALA ST STE 204	HONOLULU	HI	96817-3962
BUSINESS OCCUPANT	1259 AALA ST STE 205	HONOLULU	HI	96817-3962
BUSINESS OCCUPANT	1259 AALA ST STE 206	HONOLULU	HI	96817-3962
BUSINESS OCCUPANT	1259 AALA ST STE 300	HONOLULU	HI	96817-3962
BUSINESS OCCUPANT	1259 AALA ST STE 400	HONOLULU	HI	96817-3962
BUSINESS OCCUPANT	1259 AALA ST STE 402	HONOLULU	HI	96817-3962
BUSINESS OCCUPANT	1290 AALA ST	HONOLULU	HI	96817-3902
RESIDENT	1317 AALA ST APT 101	HONOLULU	HI	96817-3920
RESIDENT	1317 AALA ST APT 102	HONOLULU	HI	96817-3920
RESIDENT	1317 AALA ST APT 103	HONOLULU	HI	96817-3920
RESIDENT	1317 AALA ST APT 201	HONOLULU	HI	96817-3920
RESIDENT	1317 AALA ST APT 202	HONOLULU	HI	96817-3920
RESIDENT	1317 AALA ST APT 204	HONOLULU	HI	96817-3920
RESIDENT	1317 AALA ST APT 205	HONOLULU	HI	96817-3920
RESIDENT	1317 AALA ST APT 206	HONOLULU	HI	96817-3920
RESIDENT	1321 AALA ST APT 101	HONOLULU	HI	96817-3926
RESIDENT	1321 AALA ST APT 103	HONOLULU	HI	96817-3926
RESIDENT	1321 AALA ST APT 104	HONOLULU	HI	96817-3926
RESIDENT	1321 AALA ST APT 105	HONOLULU	HI	96817-3926
RESIDENT	1321 AALA ST APT 106	HONOLULU	HI	96817-3926
RESIDENT	1321 AALA ST APT 107	HONOLULU	HI	96817-3926
RESIDENT	1321 AALA ST APT 108	HONOLULU	HI	96817-3923
RESIDENT	1321 AALA ST APT 109	HONOLULU	HI	96817-3923
RESIDENT	1321 AALA ST APT 110	HONOLULU	HI	96817-3923
RESIDENT	1321 AALA ST APT 111	HONOLULU	HI	96817-3923
RESIDENT	1321 AALA ST APT 112	HONOLULU	HI	96817-3923
RESIDENT	1321 AALA ST APT 202	HONOLULU	HI	96817-3923
RESIDENT	1321 AALA ST APT 203	HONOLULU	HI	96817-3923
RESIDENT	1321 AALA ST APT 204	HONOLULU	HI	96817-3923
RESIDENT	1321 AALA ST APT 205	HONOLULU	HI	96817-3923
RESIDENT	1321 AALA ST APT 206	HONOLULU	HI	96817-3923
RESIDENT	1321 AALA ST APT 207	HONOLULU	HI	96817-3923
RESIDENT	1321 AALA ST APT 208	HONOLULU	HI	96817-3923
RESIDENT	1321 AALA ST APT 209	HONOLULU	HI	96817-3923
RESIDENT	1321 AALA ST APT 210	HONOLULU	HI	96817-3923
RESIDENT	1321 AALA ST APT 211	HONOLULU	HI	96817-3923
RESIDENT	1321 AALA ST APT 301	HONOLULU	HI	96817-3961

RESIDENT	1321 AALA ST APT 302	HONOLULU	HI	96817-3961
RESIDENT	1321 AALA ST APT 303	HONOLULU	HI	96817-3961
RESIDENT	1321 AALA ST APT 304	HONOLULU	HI	96817-3961
RESIDENT	1321 AALA ST APT 305	HONOLULU	HI	96817-3961
RESIDENT	1321 AALA ST APT 306	HONOLULU	HI	96817-3961
RESIDENT	1321 AALA ST APT 308	HONOLULU	HI	96817-3961
RESIDENT	1321 AALA ST APT 309	HONOLULU	HI	96817-3961
RESIDENT	1321 AALA ST APT 310	HONOLULU	HI	96817-3961
RESIDENT	1321 AALA ST APT 312	HONOLULU	HI	96817-3961
RESIDENT	1325 AALA ST APT 102	HONOLULU	HI	96817-3932
RESIDENT	1325 AALA ST APT 103	HONOLULU	HI	96817-3932
RESIDENT	1325 AALA ST APT 104	HONOLULU	HI	96817-3955
RESIDENT	1325 AALA ST APT 105	HONOLULU	HI	96817-3955
RESIDENT	1325 AALA ST APT 106	HONOLULU	HI	96817-3955
RESIDENT	1325 AALA ST APT 201	HONOLULU	HI	96817-3933
RESIDENT	1325 AALA ST APT 202	HONOLULU	HI	96817-3933
RESIDENT	1325 AALA ST APT 203	HONOLULU	HI	96817-3933
RESIDENT	1325 AALA ST APT 204	HONOLULU	HI	96817-3933
RESIDENT	1325 AALA ST APT 205	HONOLULU	HI	96817-3933
RESIDENT	1325 AALA ST APT 206	HONOLULU	HI	96817-3933
RESIDENT	1349 AALA ST APT 101	HONOLULU	HI	96817-3934
RESIDENT	1349 AALA ST APT 102	HONOLULU	HI	96817-3934
RESIDENT	1349 AALA ST APT 104	HONOLULU	HI	96817-3934
RESIDENT	1349 AALA ST APT 105	HONOLULU	HI	96817-3934
RESIDENT	1349 AALA ST APT 106	HONOLULU	HI	96817-3934
RESIDENT	1349 AALA ST APT 201	HONOLULU	HI	96817-3931
RESIDENT	1349 AALA ST APT 202	HONOLULU	HI	96817-3931
RESIDENT	1349 AALA ST APT 203	HONOLULU	HI	96817-3931
RESIDENT	1349 AALA ST APT 204	HONOLULU	HI	96817-3931
RESIDENT	1349 AALA ST APT 205	HONOLULU	HI	96817-3931
RESIDENT	1349 AALA ST APT 206	HONOLULU	HI	96817-3931
RESIDENT	1349 AALA ST APT 301	HONOLULU	HI	96817-3931
RESIDENT	1349 AALA ST APT 302	HONOLULU	HI	96817-3931
RESIDENT	1349 AALA ST APT 303	HONOLULU	HI	96817-3931
RESIDENT	1349 AALA ST APT 304	HONOLULU	HI	96817-3931
RESIDENT	1349 AALA ST APT 305	HONOLULU	HI	96817-3931
RESIDENT	1349 AALA ST APT 306	HONOLULU	HI	96817-3931
RESIDENT	1351 AALA ST APT 101	HONOLULU	HI	96817-3936
RESIDENT	1351 AALA ST APT 102	HONOLULU	HI	96817-3936
RESIDENT	1351 AALA ST APT 103	HONOLULU	HI	96817-3936
RESIDENT	1351 AALA ST APT 104	HONOLULU	HI	96817-3935
RESIDENT	1351 AALA ST APT 105	HONOLULU	HI	96817-3935
RESIDENT	1351 AALA ST APT 106	HONOLULU	HI	96817-3935
RESIDENT	1351 AALA ST APT 107	HONOLULU	HI	96817-3935
RESIDENT	1351 AALA ST APT 108	HONOLULU	HI	96817-3935
RESIDENT	1351 AALA ST APT 109	HONOLULU	HI	96817-3935
RESIDENT	1351 AALA ST APT 201	HONOLULU	HI	96817-3935
RESIDENT	1351 AALA ST APT 202	HONOLULU	HI	96817-3935
RESIDENT	1351 AALA ST APT 203	HONOLULU	HI	96817-3935

RESIDENT	1351 AALA ST APT 204	HONOLULU	HI	96817-3935
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RESIDENT	1351 AALA ST APT 206	HONOLULU	HI	96817-3935
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RESIDENT	1351 AALA ST APT 209	HONOLULU	HI	96817-3935
RESIDENT	1351 AALA ST APT 210	HONOLULU	HI	96817-3935
RESIDENT	1351 AALA ST APT 301	HONOLULU	HI	96817-3963
RESIDENT	1351 AALA ST APT 302	HONOLULU	HI	96817-3963
RESIDENT	1351 AALA ST APT 304	HONOLULU	HI	96817-3963
RESIDENT	1351 AALA ST APT 305	HONOLULU	HI	96817-3963
RESIDENT	1351 AALA ST APT 306	HONOLULU	HI	96817-3963
RESIDENT	1351 AALA ST APT 307	HONOLULU	HI	96817-3963
RESIDENT	1301 LILIHA ST APT 101	HONOLULU	HI	96817-4655
RESIDENT	1301 LILIHA ST APT 102	HONOLULU	HI	96817-4655
RESIDENT	1301 LILIHA ST APT 103	HONOLULU	HI	96817-4655
RESIDENT	1301 LILIHA ST APT 104	HONOLULU	HI	96817-4655
RESIDENT	1301 LILIHA ST APT 105	HONOLULU	HI	96817-4655
RESIDENT	1301 LILIHA ST APT 106	HONOLULU	HI	96817-4655
RESIDENT	1301 LILIHA ST APT 107	HONOLULU	HI	96817-4655
RESIDENT	1301 LILIHA ST APT 108	HONOLULU	HI	96817-4655
RESIDENT	1301 LILIHA ST APT 109	HONOLULU	HI	96817-4655
RESIDENT	1301 LILIHA ST APT 110	HONOLULU	HI	96817-4655
RESIDENT	1301 LILIHA ST APT 111	HONOLULU	HI	96817-4655
RESIDENT	1301 LILIHA ST APT 112	HONOLULU	HI	96817-4655
RESIDENT	1301 LILIHA ST APT 201	HONOLULU	HI	96817-4655
RESIDENT	1301 LILIHA ST APT 202	HONOLULU	HI	96817-4655
RESIDENT	1301 LILIHA ST APT 203	HONOLULU	HI	96817-4655
RESIDENT	1301 LILIHA ST APT 204	HONOLULU	HI	96817-4655
RESIDENT	1301 LILIHA ST APT 205	HONOLULU	HI	96817-4656
RESIDENT	1301 LILIHA ST APT 206	HONOLULU	HI	96817-4656
RESIDENT	1301 LILIHA ST APT 207	HONOLULU	HI	96817-4656
RESIDENT	1301 LILIHA ST APT 208	HONOLULU	HI	96817-4656
RESIDENT	1301 LILIHA ST APT 209	HONOLULU	HI	96817-4656
RESIDENT	1301 LILIHA ST APT 210	HONOLULU	HI	96817-4656
RESIDENT	1301 LILIHA ST APT 211	HONOLULU	HI	96817-4656
RESIDENT	1301 LILIHA ST APT 212	HONOLULU	HI	96817-4656
RESIDENT	1301 LILIHA ST APT 301	HONOLULU	HI	96817-4656
RESIDENT	1301 LILIHA ST APT 302	HONOLULU	HI	96817-4656
RESIDENT	1301 LILIHA ST APT 303	HONOLULU	HI	96817-4656
RESIDENT	1301 LILIHA ST APT 304	HONOLULU	HI	96817-4656
RESIDENT	1301 LILIHA ST APT 305	HONOLULU	HI	96817-4656
RESIDENT	1301 LILIHA ST APT 306	HONOLULU	HI	96817-4656
RESIDENT	1301 LILIHA ST APT 307	HONOLULU	HI	96817-4656
RESIDENT	1301 LILIHA ST APT 308	HONOLULU	HI	96817-4656
RESIDENT	1301 LILIHA ST APT 309	HONOLULU	HI	96817-4673
RESIDENT	1301 LILIHA ST APT 310	HONOLULU	HI	96817-4673
RESIDENT	1301 LILIHA ST APT 311	HONOLULU	HI	96817-4673
RESIDENT	1301 LILIHA ST APT 312	HONOLULU	HI	96817-4673

RESIDENT	1303 LILIHA ST APT 101	HONOLULU	HI	96817-4659
RESIDENT	1303 LILIHA ST APT 102	HONOLULU	HI	96817-4659
RESIDENT	1303 LILIHA ST APT 103	HONOLULU	HI	96817-4659
RESIDENT	1303 LILIHA ST APT 104	HONOLULU	HI	96817-4659
RESIDENT	1303 LILIHA ST APT 105	HONOLULU	HI	96817-4659
RESIDENT	1303 LILIHA ST APT 106	HONOLULU	HI	96817-4659
RESIDENT	1303 LILIHA ST APT 201	HONOLULU	HI	96817-4659
RESIDENT	1303 LILIHA ST APT 202	HONOLULU	HI	96817-4659
RESIDENT	1303 LILIHA ST APT 203	HONOLULU	HI	96817-4659
RESIDENT	1303 LILIHA ST APT 204	HONOLULU	HI	96817-4659
RESIDENT	1303 LILIHA ST APT 205	HONOLULU	HI	96817-4659
RESIDENT	1303 LILIHA ST APT 206	HONOLULU	HI	96817-4659
RESIDENT	1303 LILIHA ST APT 207	HONOLULU	HI	96817-4693
RESIDENT	1303 LILIHA ST APT 208	HONOLULU	HI	96817-4693
BUSINESS OCCUPANT	1305 LILIHA ST	HONOLULU	HI	96817-4657
RESIDENT	1307 LILIHA ST APT 101	HONOLULU	HI	96817-4660
RESIDENT	1307 LILIHA ST APT 102	HONOLULU	HI	96817-4660
RESIDENT	1307 LILIHA ST APT 103	HONOLULU	HI	96817-4660
RESIDENT	1307 LILIHA ST APT 104	HONOLULU	HI	96817-4660
RESIDENT	1307 LILIHA ST APT 105	HONOLULU	HI	96817-4660
RESIDENT	1307 LILIHA ST APT 106	HONOLULU	HI	96817-4660
RESIDENT	1307 LILIHA ST APT 201	HONOLULU	HI	96817-4660
RESIDENT	1307 LILIHA ST APT 202	HONOLULU	HI	96817-4660
RESIDENT	1307 LILIHA ST APT 203	HONOLULU	HI	96817-4660
RESIDENT	1307 LILIHA ST APT 204	HONOLULU	HI	96817-4660
RESIDENT	1307 LILIHA ST APT 205	HONOLULU	HI	96817-4660
RESIDENT	1307 LILIHA ST APT 206	HONOLULU	HI	96817-4660
RESIDENT	1307 LILIHA ST APT 207	HONOLULU	HI	96817-4660
RESIDENT	1307 LILIHA ST APT 208	HONOLULU	HI	96817-4674
RESIDENT	1307 LILIHA ST APT 209	HONOLULU	HI	96817-4674
RESIDENT	1307 LILIHA ST APT 210	HONOLULU	HI	96817-4674
RESIDENT	1307 LILIHA ST APT 211	HONOLULU	HI	96817-4674
RESIDENT	1307 LILIHA ST APT 212	HONOLULU	HI	96817-4674
RESIDENT	1339 LILIHA ST APT 101	HONOLULU	HI	96817-4672
RESIDENT	1339 LILIHA ST APT 102	HONOLULU	HI	96817-4672
RESIDENT	1339 LILIHA ST APT 103	HONOLULU	HI	96817-4672
RESIDENT	1339 LILIHA ST APT 104	HONOLULU	HI	96817-4672
RESIDENT	1339 LILIHA ST APT 105	HONOLULU	HI	96817-4672
RESIDENT	1339 LILIHA ST APT 106	HONOLULU	HI	96817-4672
RESIDENT	1339 LILIHA ST APT 107	HONOLULU	HI	96817-4672
RESIDENT	1339 LILIHA ST APT 108	HONOLULU	HI	96817-4672
RESIDENT	1339 LILIHA ST APT 109	HONOLULU	HI	96817-4672
RESIDENT	1339 LILIHA ST APT 110	HONOLULU	HI	96817-4672
RESIDENT	1339 LILIHA ST APT 202	HONOLULU	HI	96817-4670
RESIDENT	1339 LILIHA ST APT 203	HONOLULU	HI	96817-4670
RESIDENT	1339 LILIHA ST APT 204	HONOLULU	HI	96817-4670
RESIDENT	1339 LILIHA ST APT 205	HONOLULU	HI	96817-4670
RESIDENT	1339 LILIHA ST APT 206	HONOLULU	HI	96817-4670
RESIDENT	1339 LILIHA ST APT 207	HONOLULU	HI	96817-4670

RESIDENT	1339 LILIHA ST APT 208	HONOLULU	HI	96817-4670
RESIDENT	1339 LILIHA ST APT 209	HONOLULU	HI	96817-4670
RESIDENT	1339 LILIHA ST APT 210	HONOLULU	HI	96817-4670
RESIDENT	1339 LILIHA ST APT 211	HONOLULU	HI	96817-4670
RESIDENT	1339 LILIHA ST APT 212	HONOLULU	HI	96817-4670
RESIDENT	1339 LILIHA ST APT 213	HONOLULU	HI	96817-4670
RESIDENT	1339 LILIHA ST APT 215	HONOLULU	HI	96817-4670
RESIDENT	1339 LILIHA ST APT 216	HONOLULU	HI	96817-4670
RESIDENT	1339 LILIHA ST APT 217	HONOLULU	HI	96817-4670
RESIDENT	1339 LILIHA ST APT 218	HONOLULU	HI	96817-4695
RESIDENT	1339 LILIHA ST APT 219	HONOLULU	HI	96817-4695
RESIDENT	1339 LILIHA ST APT 220	HONOLULU	HI	96817-4695
RESIDENT	357 N VINEYARD BLVD APT 101	HONOLULU	HI	96817-3647
RESIDENT	357 N VINEYARD BLVD APT 102	HONOLULU	HI	96817-3647
RESIDENT	357 N VINEYARD BLVD APT 104	HONOLULU	HI	96817-3647
RESIDENT	357 N VINEYARD BLVD APT 105	HONOLULU	HI	96817-3647
RESIDENT	357 N VINEYARD BLVD APT 201	HONOLULU	HI	96817-3658
RESIDENT	357 N VINEYARD BLVD APT 202	HONOLULU	HI	96817-3658
RESIDENT	357 N VINEYARD BLVD APT 203	HONOLULU	HI	96817-3658
RESIDENT	357 N VINEYARD BLVD APT 204	HONOLULU	HI	96817-3658
RESIDENT	357 N VINEYARD BLVD APT 205	HONOLULU	HI	96817-3658
RESIDENT	357 N VINEYARD BLVD APT 206	HONOLULU	HI	96817-3658
RESIDENT	357 N VINEYARD BLVD APT 207	HONOLULU	HI	96817-3658
RESIDENT	357 N VINEYARD BLVD APT 208	HONOLULU	HI	96817-3658
RESIDENT	357 N VINEYARD BLVD APT 209	HONOLULU	HI	96817-3658
RESIDENT	357 N VINEYARD BLVD APT 210	HONOLULU	HI	96817-3658
RESIDENT	369 N VINEYARD BLVD APT 101	HONOLULU	HI	96817-3663
RESIDENT	369 N VINEYARD BLVD APT 102	HONOLULU	HI	96817-3663
RESIDENT	369 N VINEYARD BLVD APT 103	HONOLULU	HI	96817-3663
RESIDENT	369 N VINEYARD BLVD APT 104	HONOLULU	HI	96817-3663
RESIDENT	369 N VINEYARD BLVD APT 105	HONOLULU	HI	96817-3663
RESIDENT	369 N VINEYARD BLVD APT 106	HONOLULU	HI	96817-3663
RESIDENT	369 N VINEYARD BLVD APT 107	HONOLULU	HI	96817-3663
RESIDENT	369 N VINEYARD BLVD APT 108	HONOLULU	HI	96817-3663
RESIDENT	369 N VINEYARD BLVD APT 201	HONOLULU	HI	96817-3663
RESIDENT	369 N VINEYARD BLVD APT 202	HONOLULU	HI	96817-3663
RESIDENT	369 N VINEYARD BLVD APT 203	HONOLULU	HI	96817-3663
RESIDENT	369 N VINEYARD BLVD APT 204	HONOLULU	HI	96817-3663
RESIDENT	369 N VINEYARD BLVD APT 205	HONOLULU	HI	96817-3663
RESIDENT	369 N VINEYARD BLVD APT 206	HONOLULU	HI	96817-3663
RESIDENT	369 N VINEYARD BLVD APT 207	HONOLULU	HI	96817-3663
RESIDENT	369 N VINEYARD BLVD APT 208	HONOLULU	HI	96817-3663
RESIDENT	369 N VINEYARD BLVD APT 209	HONOLULU	HI	96817-3657
RESIDENT	369 N VINEYARD BLVD APT 210	HONOLULU	HI	96817-3657
RESIDENT	369 N VINEYARD BLVD APT 211	HONOLULU	HI	96817-3657
RESIDENT	369 N VINEYARD BLVD APT 212	HONOLULU	HI	96817-3657
RESIDENT	369 N VINEYARD BLVD APT 213	HONOLULU	HI	96817-3657
RESIDENT	369 N VINEYARD BLVD APT 214	HONOLULU	HI	96817-3657
RESIDENT	369 N VINEYARD BLVD APT 215	HONOLULU	HI	96817-3657

RESIDENT	369 N VINEYARD BLVD APT 216	HONOLULU	HI	96817-3657
RESIDENT	401 N VINEYARD BLVD APT 101	HONOLULU	HI	96817-3622
RESIDENT	401 N VINEYARD BLVD APT 102	HONOLULU	HI	96817-3622
RESIDENT	401 N VINEYARD BLVD APT 103	HONOLULU	HI	96817-3622
RESIDENT	401 N VINEYARD BLVD APT 104	HONOLULU	HI	96817-3622
RESIDENT	401 N VINEYARD BLVD APT 105	HONOLULU	HI	96817-3622
RESIDENT	401 N VINEYARD BLVD APT 106	HONOLULU	HI	96817-3622
RESIDENT	401 N VINEYARD BLVD APT 107	HONOLULU	HI	96817-3622
RESIDENT	401 N VINEYARD BLVD APT 108	HONOLULU	HI	96817-3622
RESIDENT	401 N VINEYARD BLVD APT 109	HONOLULU	HI	96817-3622
RESIDENT	401 N VINEYARD BLVD APT 110	HONOLULU	HI	96817-3622
RESIDENT	401 N VINEYARD BLVD APT 201	HONOLULU	HI	96817-3622
RESIDENT	401 N VINEYARD BLVD APT 202	HONOLULU	HI	96817-3622
RESIDENT	401 N VINEYARD BLVD APT 204	HONOLULU	HI	96817-3622
RESIDENT	401 N VINEYARD BLVD APT 205	HONOLULU	HI	96817-3622
RESIDENT	401 N VINEYARD BLVD APT 207	HONOLULU	HI	96817-3621
RESIDENT	401 N VINEYARD BLVD APT 208	HONOLULU	HI	96817-3621
RESIDENT	401 N VINEYARD BLVD APT 209	HONOLULU	HI	96817-3621
RESIDENT	401 N VINEYARD BLVD APT 210	HONOLULU	HI	96817-3621
RESIDENT	401 N VINEYARD BLVD APT 211	HONOLULU	HI	96817-3621
RESIDENT	401 N VINEYARD BLVD APT 212	HONOLULU	HI	96817-3621
RESIDENT	401 N VINEYARD BLVD APT 213	HONOLULU	HI	96817-3621
RESIDENT	401 N VINEYARD BLVD APT 214	HONOLULU	HI	96817-3621
RESIDENT	401 N VINEYARD BLVD APT 215	HONOLULU	HI	96817-3621
RESIDENT	401 N VINEYARD BLVD APT 216	HONOLULU	HI	96817-3621
RESIDENT	401 N VINEYARD BLVD APT 217	HONOLULU	HI	96817-3621
RESIDENT	401 N VINEYARD BLVD APT 218	HONOLULU	HI	96817-3621
RESIDENT	401 N VINEYARD BLVD APT 219	HONOLULU	HI	96817-3621
RESIDENT	401 N VINEYARD BLVD APT 220	HONOLULU	HI	96817-3621
RESIDENT	359 N VINEYARD BLVD APT 101	HONOLULU	HI	96817-3659
RESIDENT	359 N VINEYARD BLVD APT 102	HONOLULU	HI	96817-3659
RESIDENT	359 N VINEYARD BLVD APT 103	HONOLULU	HI	96817-3659
RESIDENT	359 N VINEYARD BLVD APT 104	HONOLULU	HI	96817-3659
RESIDENT	359 N VINEYARD BLVD APT 105	HONOLULU	HI	96817-3659
RESIDENT	359 N VINEYARD BLVD APT 106	HONOLULU	HI	96817-3659
RESIDENT	359 N VINEYARD BLVD APT 107	HONOLULU	HI	96817-3659
RESIDENT	359 N VINEYARD BLVD APT 108	HONOLULU	HI	96817-3659
RESIDENT	359 N VINEYARD BLVD APT 201	HONOLULU	HI	96817-3659
RESIDENT	359 N VINEYARD BLVD APT 202	HONOLULU	HI	96817-3659
RESIDENT	359 N VINEYARD BLVD APT 203	HONOLULU	HI	96817-3659
RESIDENT	359 N VINEYARD BLVD APT 204	HONOLULU	HI	96817-3659
RESIDENT	359 N VINEYARD BLVD APT 205	HONOLULU	HI	96817-3659
RESIDENT	359 N VINEYARD BLVD APT 206	HONOLULU	HI	96817-3659
RESIDENT	359 N VINEYARD BLVD APT 207	HONOLULU	HI	96817-3659
RESIDENT	359 N VINEYARD BLVD APT 208	HONOLULU	HI	96817-3659
RESIDENT	359 N VINEYARD BLVD APT 209	HONOLULU	HI	96817-3655
RESIDENT	359 N VINEYARD BLVD APT 210	HONOLULU	HI	96817-3655
RESIDENT	359 N VINEYARD BLVD APT 211	HONOLULU	HI	96817-3655
RESIDENT	359 N VINEYARD BLVD APT 212	HONOLULU	HI	96817-3655

RESIDENT	359 N VINEYARD BLVD APT 213	HONOLULU	HI	96817-3655
RESIDENT	359 N VINEYARD BLVD APT 214	HONOLULU	HI	96817-3655
RESIDENT	359 N VINEYARD BLVD APT 215	HONOLULU	HI	96817-3655
RESIDENT	359 N VINEYARD BLVD APT 216	HONOLULU	HI	96817-3655
RESIDENT	339 N VINEYARD BLVD APT 101	HONOLULU	HI	96817-3650
RESIDENT	339 N VINEYARD BLVD APT 102	HONOLULU	HI	96817-3650
RESIDENT	339 N VINEYARD BLVD APT 103	HONOLULU	HI	96817-3650
RESIDENT	339 N VINEYARD BLVD APT 104	HONOLULU	HI	96817-3650
RESIDENT	339 N VINEYARD BLVD APT 105	HONOLULU	HI	96817-3650
RESIDENT	339 N VINEYARD BLVD APT 106	HONOLULU	HI	96817-3650
RESIDENT	339 N VINEYARD BLVD APT 201	HONOLULU	HI	96817-3650
RESIDENT	339 N VINEYARD BLVD APT 202	HONOLULU	HI	96817-3650
RESIDENT	339 N VINEYARD BLVD APT 203	HONOLULU	HI	96817-3654
RESIDENT	339 N VINEYARD BLVD APT 204	HONOLULU	HI	96817-3654
RESIDENT	339 N VINEYARD BLVD APT 206	HONOLULU	HI	96817-3654
RESIDENT	339 N VINEYARD BLVD APT 207	HONOLULU	HI	96817-3654
RESIDENT	339 N VINEYARD BLVD APT 208	HONOLULU	HI	96817-3654
RESIDENT	333 N VINEYARD BLVD APT 101	HONOLULU	HI	96817-3653
RESIDENT	333 N VINEYARD BLVD APT 102	HONOLULU	HI	96817-3653
RESIDENT	333 N VINEYARD BLVD APT 103	HONOLULU	HI	96817-3653
RESIDENT	333 N VINEYARD BLVD APT 104	HONOLULU	HI	96817-3653
RESIDENT	333 N VINEYARD BLVD APT 105	HONOLULU	HI	96817-3653
RESIDENT	333 N VINEYARD BLVD APT 106	HONOLULU	HI	96817-3653
RESIDENT	333 N VINEYARD BLVD APT 201	HONOLULU	HI	96817-3653
RESIDENT	333 N VINEYARD BLVD APT 202	HONOLULU	HI	96817-3653
RESIDENT	333 N VINEYARD BLVD APT 203	HONOLULU	HI	96817-3660
RESIDENT	333 N VINEYARD BLVD APT 204	HONOLULU	HI	96817-3660
RESIDENT	333 N VINEYARD BLVD APT 205	HONOLULU	HI	96817-3660
RESIDENT	333 N VINEYARD BLVD APT 206	HONOLULU	HI	96817-3660
RESIDENT	333 N VINEYARD BLVD APT 207	HONOLULU	HI	96817-3660
RESIDENT	331 N VINEYARD BLVD APT 101	HONOLULU	HI	96817-3651
RESIDENT	331 N VINEYARD BLVD APT 102	HONOLULU	HI	96817-3651
RESIDENT	331 N VINEYARD BLVD APT 103	HONOLULU	HI	96817-3651
RESIDENT	331 N VINEYARD BLVD APT 104	HONOLULU	HI	96817-3651
RESIDENT	331 N VINEYARD BLVD APT 105	HONOLULU	HI	96817-3651
RESIDENT	331 N VINEYARD BLVD APT 107	HONOLULU	HI	96817-3651
RESIDENT	331 N VINEYARD BLVD APT 108	HONOLULU	HI	96817-3651
RESIDENT	331 N VINEYARD BLVD APT 109	HONOLULU	HI	96817-3651
RESIDENT	331 N VINEYARD BLVD APT 110	HONOLULU	HI	96817-3651
RESIDENT	331 N VINEYARD BLVD APT 111	HONOLULU	HI	96817-3651
RESIDENT	331 N VINEYARD BLVD APT 112	HONOLULU	HI	96817-3652
RESIDENT	331 N VINEYARD BLVD APT 201	HONOLULU	HI	96817-3652
RESIDENT	331 N VINEYARD BLVD APT 202	HONOLULU	HI	96817-3652
RESIDENT	331 N VINEYARD BLVD APT 203	HONOLULU	HI	96817-3652
RESIDENT	331 N VINEYARD BLVD APT 204	HONOLULU	HI	96817-3652
RESIDENT	331 N VINEYARD BLVD APT 205	HONOLULU	HI	96817-3652
RESIDENT	331 N VINEYARD BLVD APT 206	HONOLULU	HI	96817-3652
RESIDENT	331 N VINEYARD BLVD APT 207	HONOLULU	HI	96817-3652
RESIDENT	331 N VINEYARD BLVD APT 208	HONOLULU	HI	96817-3652

RESIDENT	331 N VINEYARD BLVD APT 209	HONOLULU	HI	96817-3652
RESIDENT	331 N VINEYARD BLVD APT 210	HONOLULU	HI	96817-3652
RESIDENT	331 N VINEYARD BLVD APT 211	HONOLULU	HI	96817-3652
RESIDENT	331 N VINEYARD BLVD APT 212	HONOLULU	HI	96817-3652
RESIDENT	331 N VINEYARD BLVD APT 302	HONOLULU	HI	96817-3652
RESIDENT	331 N VINEYARD BLVD APT 303	HONOLULU	HI	96817-3656
RESIDENT	331 N VINEYARD BLVD APT 304	HONOLULU	HI	96817-3656
RESIDENT	331 N VINEYARD BLVD APT 305	HONOLULU	HI	96817-3656
RESIDENT	331 N VINEYARD BLVD APT 307	HONOLULU	HI	96817-3656
RESIDENT	331 N VINEYARD BLVD APT 308	HONOLULU	HI	96817-3656
RESIDENT	331 N VINEYARD BLVD APT 309	HONOLULU	HI	96817-3656
RESIDENT	331 N VINEYARD BLVD APT 310	HONOLULU	HI	96817-3656
RESIDENT	331 N VINEYARD BLVD APT 312	HONOLULU	HI	96817-3656
RESIDENT	301 N VINEYARD BLVD APT 101	HONOLULU	HI	96817-3646
RESIDENT	301 N VINEYARD BLVD APT 102	HONOLULU	HI	96817-3646
RESIDENT	301 N VINEYARD BLVD APT 103	HONOLULU	HI	96817-3646
RESIDENT	301 N VINEYARD BLVD APT 104	HONOLULU	HI	96817-3646
RESIDENT	301 N VINEYARD BLVD APT 105	HONOLULU	HI	96817-3646
RESIDENT	301 N VINEYARD BLVD APT 106	HONOLULU	HI	96817-3646
RESIDENT	301 N VINEYARD BLVD APT 107	HONOLULU	HI	96817-3629
RESIDENT	301 N VINEYARD BLVD APT 201	HONOLULU	HI	96817-3629
RESIDENT	301 N VINEYARD BLVD APT 202	HONOLULU	HI	96817-3629
RESIDENT	301 N VINEYARD BLVD APT 203	HONOLULU	HI	96817-3629
RESIDENT	301 N VINEYARD BLVD APT 204	HONOLULU	HI	96817-3629
RESIDENT	301 N VINEYARD BLVD APT 205	HONOLULU	HI	96817-3629
RESIDENT	301 N VINEYARD BLVD APT 206	HONOLULU	HI	96817-3629
RESIDENT	301 N VINEYARD BLVD APT 207	HONOLULU	HI	96817-3629
RESIDENT	301 N VINEYARD BLVD APT 208	HONOLULU	HI	96817-3629
RESIDENT	301 N VINEYARD BLVD APT 209	HONOLULU	HI	96817-3629
RESIDENT	301 N VINEYARD BLVD APT 210	HONOLULU	HI	96817-3629
RESIDENT	301 N VINEYARD BLVD APT 211	HONOLULU	HI	96817-3629
RESIDENT	301 N VINEYARD BLVD APT 212	HONOLULU	HI	96817-3629
RESIDENT	301 N VINEYARD BLVD APT 213	HONOLULU	HI	96817-3629
RESIDENT	301 N VINEYARD BLVD APT 214	HONOLULU	HI	96817-3629
RESIDENT	1332 AALA ST APT 101	HONOLULU	HI	96817-3927
RESIDENT	1332 AALA ST APT 102	HONOLULU	HI	96817-3927
RESIDENT	1332 AALA ST APT 103	HONOLULU	HI	96817-3927
RESIDENT	1332 AALA ST APT 201	HONOLULU	HI	96817-3927
RESIDENT	1332 AALA ST APT 203	HONOLULU	HI	96817-3927
RESIDENT	1332 AALA ST APT 204	HONOLULU	HI	96817-3927
RESIDENT	1332 AALA ST APT 205	HONOLULU	HI	96817-3927
RESIDENT	1332 AALA ST APT 206	HONOLULU	HI	96817-3927
RESIDENT	1342 AALA ST APT 101	HONOLULU	HI	96817-3929
RESIDENT	1342 AALA ST APT 102	HONOLULU	HI	96817-3929
RESIDENT	1342 AALA ST APT 103	HONOLULU	HI	96817-3929
RESIDENT	1342 AALA ST APT 104	HONOLULU	HI	96817-3929
RESIDENT	1342 AALA ST APT 201	HONOLULU	HI	96817-3929
RESIDENT	1342 AALA ST APT 203	HONOLULU	HI	96817-3929
RESIDENT	1342 AALA ST APT 204	HONOLULU	HI	96817-3964

RESIDENT	1342 AALA ST APT 205	HONOLULU	HI	96817-3964
RESIDENT	1342 AALA ST APT 206	HONOLULU	HI	96817-3964
RESIDENT	1342 AALA ST APT 207	HONOLULU	HI	96817-3964
RESIDENT	1342 AALA ST APT 208	HONOLULU	HI	96817-3964
RESIDENT	271 N VINEYARD BLVD APT 101	HONOLULU	HI	96817-3941
RESIDENT	271 N VINEYARD BLVD APT 102	HONOLULU	HI	96817-3941
RESIDENT	271 N VINEYARD BLVD APT 103	HONOLULU	HI	96817-3941
RESIDENT	271 N VINEYARD BLVD APT 201	HONOLULU	HI	96817-3941
RESIDENT	271 N VINEYARD BLVD APT 202	HONOLULU	HI	96817-3941
RESIDENT	271 N VINEYARD BLVD APT 203	HONOLULU	HI	96817-3941
RESIDENT	271 N VINEYARD BLVD APT 204	HONOLULU	HI	96817-3941
RESIDENT	271 N VINEYARD BLVD APT 205	HONOLULU	HI	96817-3941
RESIDENT	271 N VINEYARD BLVD APT 206	HONOLULU	HI	96817-3941
RESIDENT	271 N VINEYARD BLVD APT 207	HONOLULU	HI	96817-3965
RESIDENT	271 N VINEYARD BLVD APT 208	HONOLULU	HI	96817-3965
RESIDENT	273 N VINEYARD BLVD APT 101	HONOLULU	HI	96817-3942
RESIDENT	273 N VINEYARD BLVD APT 102	HONOLULU	HI	96817-3942
RESIDENT	273 N VINEYARD BLVD APT 103	HONOLULU	HI	96817-3942
RESIDENT	273 N VINEYARD BLVD APT 201	HONOLULU	HI	96817-3942
RESIDENT	273 N VINEYARD BLVD APT 202	HONOLULU	HI	96817-3942
RESIDENT	273 N VINEYARD BLVD APT 203	HONOLULU	HI	96817-3942
RESIDENT	273 N VINEYARD BLVD APT 204	HONOLULU	HI	96817-3942
RESIDENT	273 N VINEYARD BLVD APT 205	HONOLULU	HI	96817-3942
RESIDENT	273 N VINEYARD BLVD APT 206	HONOLULU	HI	96817-3942
RESIDENT	275 N VINEYARD BLVD APT 101	HONOLULU	HI	96817-3966
RESIDENT	275 N VINEYARD BLVD APT 102	HONOLULU	HI	96817-3966
RESIDENT	275 N VINEYARD BLVD APT 103	HONOLULU	HI	96817-3966
RESIDENT	275 N VINEYARD BLVD APT 104	HONOLULU	HI	96817-3966
RESIDENT	275 N VINEYARD BLVD APT 201	HONOLULU	HI	96817-3943
RESIDENT	275 N VINEYARD BLVD APT 202	HONOLULU	HI	96817-3943
RESIDENT	275 N VINEYARD BLVD APT 203	HONOLULU	HI	96817-3943
RESIDENT	275 N VINEYARD BLVD APT 204	HONOLULU	HI	96817-3943
RESIDENT	275 N VINEYARD BLVD APT 205	HONOLULU	HI	96817-3943
RESIDENT	275 N VINEYARD BLVD APT 206	HONOLULU	HI	96817-3943
RESIDENT	275 N VINEYARD BLVD APT 207	HONOLULU	HI	96817-3943
RESIDENT	275 N VINEYARD BLVD APT 208	HONOLULU	HI	96817-3943
RESIDENT	277 N VINEYARD BLVD APT 101	HONOLULU	HI	96817-3944
RESIDENT	277 N VINEYARD BLVD APT 102	HONOLULU	HI	96817-3944
RESIDENT	277 N VINEYARD BLVD APT 103	HONOLULU	HI	96817-3944
RESIDENT	277 N VINEYARD BLVD APT 104	HONOLULU	HI	96817-3944
RESIDENT	277 N VINEYARD BLVD APT 105	HONOLULU	HI	96817-3944
RESIDENT	277 N VINEYARD BLVD APT 201	HONOLULU	HI	96817-3944
RESIDENT	277 N VINEYARD BLVD APT 202	HONOLULU	HI	96817-3944
RESIDENT	277 N VINEYARD BLVD APT 203	HONOLULU	HI	96817-3944
RESIDENT	277 N VINEYARD BLVD APT 204	HONOLULU	HI	96817-3924
RESIDENT	277 N VINEYARD BLVD APT 205	HONOLULU	HI	96817-3924
RESIDENT	277 N VINEYARD BLVD APT 206	HONOLULU	HI	96817-3924
RESIDENT	277 N VINEYARD BLVD APT 207	HONOLULU	HI	96817-3924
RESIDENT	277 N VINEYARD BLVD APT 208	HONOLULU	HI	96817-3924

RESIDENT	277 N VINEYARD BLVD APT 209	HONOLULU	HI	96817-3924
RESIDENT	277 N VINEYARD BLVD APT 210	HONOLULU	HI	96817-3924
RESIDENT	281 N VINEYARD BLVD APT 101	HONOLULU	HI	96817-3945
RESIDENT	281 N VINEYARD BLVD APT 102	HONOLULU	HI	96817-3945
RESIDENT	281 N VINEYARD BLVD APT 103	HONOLULU	HI	96817-3945
RESIDENT	281 N VINEYARD BLVD APT 105	HONOLULU	HI	96817-3945
RESIDENT	281 N VINEYARD BLVD APT 106	HONOLULU	HI	96817-3945
RESIDENT	281 N VINEYARD BLVD APT 107	HONOLULU	HI	96817-3945
RESIDENT	281 N VINEYARD BLVD APT 201	HONOLULU	HI	96817-3930
RESIDENT	281 N VINEYARD BLVD APT 202	HONOLULU	HI	96817-3930
RESIDENT	281 N VINEYARD BLVD APT 203	HONOLULU	HI	96817-3930
RESIDENT	281 N VINEYARD BLVD APT 204	HONOLULU	HI	96817-3930
RESIDENT	281 N VINEYARD BLVD APT 205	HONOLULU	HI	96817-3930
RESIDENT	281 N VINEYARD BLVD APT 206	HONOLULU	HI	96817-3930
RESIDENT	281 N VINEYARD BLVD APT 208	HONOLULU	HI	96817-3930
RESIDENT	281 N VINEYARD BLVD APT 209	HONOLULU	HI	96817-3930
RESIDENT	281 N VINEYARD BLVD APT 210	HONOLULU	HI	96817-3930
RESIDENT	281 N VINEYARD BLVD APT 211	HONOLULU	HI	96817-3930
RESIDENT	281 N VINEYARD BLVD APT 212	HONOLULU	HI	96817-3930
RESIDENT	281 N VINEYARD BLVD APT 213	HONOLULU	HI	96817-3930
BUSINESS OCCUPANT	1320 AALA ST	HONOLULU	HI	96817-3918
RESIDENT	1507 LILIHA ST APT 1	HONOLULU	HI	96817-3552
RESIDENT	1507 LILIHA ST APT 2	HONOLULU	HI	96817-3552
RESIDENT	1507 LILIHA ST APT 3	HONOLULU	HI	96817-3552
RESIDENT	1507 LILIHA ST APT 4	HONOLULU	HI	96817-3552
RESIDENT	1507 LILIHA ST APT 5	HONOLULU	HI	96817-3552
RESIDENT	1507 LILIHA ST APT 6	HONOLULU	HI	96817-3552
RESIDENT	1507 LILIHA ST APT 7	HONOLULU	HI	96817-3552
RESIDENT	1507 LILIHA ST APT 8	HONOLULU	HI	96817-3553
RESIDENT	1507 LILIHA ST APT 9	HONOLULU	HI	96817-3553
RESIDENT	1507 LILIHA ST APT 10	HONOLULU	HI	96817-3553
RESIDENT	1507 LILIHA ST APT 11	HONOLULU	HI	96817-3553
RESIDENT	1507 LILIHA ST APT 12	HONOLULU	HI	96817-3553
RESIDENT	1507 LILIHA ST APT 14	HONOLULU	HI	96817-3553
RESIDENT	1507 LILIHA ST APT 15	HONOLULU	HI	96817-3553
RESIDENT	1507 LILIHA ST APT 16	HONOLULU	HI	96817-3554
RESIDENT	1507 LILIHA ST APT 17	HONOLULU	HI	96817-3554
RESIDENT	1507 LILIHA ST APT 18	HONOLULU	HI	96817-3554
BUSINESS OCCUPANT	1515 LILIHA ST	HONOLULU	HI	96817-3526
BUSINESS OCCUPANT	525 KIAPU PL	HONOLULU	HI	96817-3531
RESIDENT	521 KIAPU PL	HONOLULU	HI	96817-3531
RESIDENT	519 KIAPU PL	HONOLULU	HI	96817-3531
RESIDENT	513 KIAPU PL	HONOLULU	HI	96817-3531
RESIDENT	511 KIAPU PL	HONOLULU	HI	96817-3531
RESIDENT	509 KIAPU PL	HONOLULU	HI	96817-3531
RESIDENT	507 KIAPU PL	HONOLULU	HI	96817-3531
RESIDENT	507 KIAPU PL APT A	HONOLULU	HI	96817-3531
BUSINESS OCCUPANT	1520 LILIHA ST STE 101	HONOLULU	HI	96817-3588
BUSINESS OCCUPANT	1520 LILIHA ST STE 201	HONOLULU	HI	96817-3563

BUSINESS OCCUPANT	1520 LILIHA ST STE 203	HONOLULU	HI	96817-3563
BUSINESS OCCUPANT	1520 LILIHA ST STE 204	HONOLULU	HI	96817-3563
BUSINESS OCCUPANT	1520 LILIHA ST STE 205	HONOLULU	HI	96817-3563
BUSINESS OCCUPANT	1520 LILIHA ST STE 301	HONOLULU	HI	96817-3563
BUSINESS OCCUPANT	1520 LILIHA ST STE 303	HONOLULU	HI	96817-3563
BUSINESS OCCUPANT	1520 LILIHA ST STE 401	HONOLULU	HI	96817-3563
BUSINESS OCCUPANT	1520 LILIHA ST STE 403	HONOLULU	HI	96817-3563
BUSINESS OCCUPANT	1520 LILIHA ST STE 404	HONOLULU	HI	96817-3563
BUSINESS OCCUPANT	1520 LILIHA ST STE 405	HONOLULU	HI	96817-3563
BUSINESS OCCUPANT	1520 LILIHA ST STE 502	HONOLULU	HI	96817-3564
BUSINESS OCCUPANT	1520 LILIHA ST STE 503	HONOLULU	HI	96817-3564
BUSINESS OCCUPANT	1520 LILIHA ST STE 601	HONOLULU	HI	96817-3564
BUSINESS OCCUPANT	1520 LILIHA ST STE 606	HONOLULU	HI	96817-3564
BUSINESS OCCUPANT	1520 LILIHA ST STE 607	HONOLULU	HI	96817-3564
BUSINESS OCCUPANT	1520 LILIHA ST STE 701	HONOLULU	HI	96817-3564
BUSINESS OCCUPANT	1520 LILIHA ST STE 703	HONOLULU	HI	96817-3564
BUSINESS OCCUPANT	1520 LILIHA ST STE 705	HONOLULU	HI	96817-3564
BUSINESS OCCUPANT	1520 LILIHA ST STE 711	HONOLULU	HI	96817-3564
BUSINESS OCCUPANT	1520 LILIHA ST STE 707	HONOLULU	HI	96817-3564
RESIDENT	519 HIRAM LN	HONOLULU	HI	96817-3501
RESIDENT	519 HIRAM LN APT A	HONOLULU	HI	96817-3501
RESIDENT	519 HIRAM LN APT B	HONOLULU	HI	96817-3501
RESIDENT	515 HIRAM LN	HONOLULU	HI	96817-3501
RESIDENT	511 HIRAM LN	HONOLULU	HI	96817-3501
BUSINESS OCCUPANT	1502 LILIHA ST	HONOLULU	HI	96817-3525
BUSINESS OCCUPANT	1502 LILIHA ST STE 2	HONOLULU	HI	96817-3525
BUSINESS OCCUPANT	961 AKEPO LN	HONOLULU	HI	96817-4503
BUSINESS OCCUPANT	958 AKEPO LN STE 1	HONOLULU	HI	96817-6502
RESIDENT	955 AKEPO LN APT 100	HONOLULU	HI	96817-5710
RESIDENT	955 AKEPO LN APT 101	HONOLULU	HI	96817-5710
RESIDENT	955 AKEPO LN APT 102	HONOLULU	HI	96817-5710
RESIDENT	955 AKEPO LN APT 103	HONOLULU	HI	96817-5710
RESIDENT	955 AKEPO LN APT 104	HONOLULU	HI	96817-5710
RESIDENT	955 AKEPO LN APT 105	HONOLULU	HI	96817-5710
RESIDENT	955 AKEPO LN APT 106	HONOLULU	HI	96817-5710
RESIDENT	955 AKEPO LN APT 107	HONOLULU	HI	96817-5710
RESIDENT	955 AKEPO LN APT 108	HONOLULU	HI	96817-5710
RESIDENT	955 AKEPO LN APT 109	HONOLULU	HI	96817-5710
RESIDENT	955 AKEPO LN APT 110	HONOLULU	HI	96817-5710
RESIDENT	955 AKEPO LN APT 111	HONOLULU	HI	96817-5717
RESIDENT	955 AKEPO LN APT 112	HONOLULU	HI	96817-5717
RESIDENT	955 AKEPO LN APT 113	HONOLULU	HI	96817-5717
RESIDENT	955 AKEPO LN APT 114	HONOLULU	HI	96817-5717
RESIDENT	955 AKEPO LN APT 115	HONOLULU	HI	96817-5717
RESIDENT	955 AKEPO LN APT 116	HONOLULU	HI	96817-5717
RESIDENT	955 AKEPO LN APT 117	HONOLULU	HI	96817-5717
RESIDENT	955 AKEPO LN APT 118	HONOLULU	HI	96817-5717
RESIDENT	955 AKEPO LN APT 119	HONOLULU	HI	96817-5717
RESIDENT	955 AKEPO LN APT 120	HONOLULU	HI	96817-5717

RESIDENT	955 AKEPO LN APT 201	HONOLULU	HI	96817-5716
RESIDENT	955 AKEPO LN APT 202	HONOLULU	HI	96817-5716
RESIDENT	955 AKEPO LN APT 203	HONOLULU	HI	96817-5716
RESIDENT	955 AKEPO LN APT 204	HONOLULU	HI	96817-5716
RESIDENT	955 AKEPO LN APT 205	HONOLULU	HI	96817-5716
RESIDENT	955 AKEPO LN APT 206	HONOLULU	HI	96817-5716
RESIDENT	955 AKEPO LN APT 207	HONOLULU	HI	96817-5716
RESIDENT	955 AKEPO LN APT 208	HONOLULU	HI	96817-5716
RESIDENT	955 AKEPO LN APT 209	HONOLULU	HI	96817-5716
RESIDENT	955 AKEPO LN APT 211	HONOLULU	HI	96817-5711
RESIDENT	955 AKEPO LN APT 212	HONOLULU	HI	96817-5711
RESIDENT	955 AKEPO LN APT 213	HONOLULU	HI	96817-5711
RESIDENT	955 AKEPO LN APT 214	HONOLULU	HI	96817-5711
RESIDENT	955 AKEPO LN APT 215	HONOLULU	HI	96817-5711
RESIDENT	955 AKEPO LN APT 216	HONOLULU	HI	96817-5711
RESIDENT	955 AKEPO LN APT 217	HONOLULU	HI	96817-5711
RESIDENT	955 AKEPO LN APT 218	HONOLULU	HI	96817-5711
RESIDENT	955 AKEPO LN APT 219	HONOLULU	HI	96817-5711
RESIDENT	955 AKEPO LN APT 220	HONOLULU	HI	96817-5729
RESIDENT	955 AKEPO LN APT 221	HONOLULU	HI	96817-5729
RESIDENT	955 AKEPO LN APT 222	HONOLULU	HI	96817-5729
RESIDENT	955 AKEPO LN APT 223	HONOLULU	HI	96817-5729
RESIDENT	955 AKEPO LN APT 224	HONOLULU	HI	96817-5729
RESIDENT	955 AKEPO LN APT 225	HONOLULU	HI	96817-5729
RESIDENT	955 AKEPO LN APT 226	HONOLULU	HI	96817-5729
RESIDENT	955 AKEPO LN APT 227	HONOLULU	HI	96817-5729
RESIDENT	955 AKEPO LN APT 228	HONOLULU	HI	96817-5729
RESIDENT	955 AKEPO LN APT 301	HONOLULU	HI	96817-5728
RESIDENT	955 AKEPO LN APT 302	HONOLULU	HI	96817-5728
RESIDENT	955 AKEPO LN APT 303	HONOLULU	HI	96817-5728
RESIDENT	955 AKEPO LN APT 304	HONOLULU	HI	96817-5728
RESIDENT	955 AKEPO LN APT 305	HONOLULU	HI	96817-5728
RESIDENT	955 AKEPO LN APT 306	HONOLULU	HI	96817-5728
RESIDENT	955 AKEPO LN APT 307	HONOLULU	HI	96817-5728
RESIDENT	955 AKEPO LN APT 308	HONOLULU	HI	96817-5728
RESIDENT	955 AKEPO LN APT 309	HONOLULU	HI	96817-5728
RESIDENT	955 AKEPO LN APT 310	HONOLULU	HI	96817-5728
RESIDENT	955 AKEPO LN APT 311	HONOLULU	HI	96817-5712
RESIDENT	955 AKEPO LN APT 312	HONOLULU	HI	96817-5712
RESIDENT	955 AKEPO LN APT 313	HONOLULU	HI	96817-5712
RESIDENT	955 AKEPO LN APT 314	HONOLULU	HI	96817-5712
RESIDENT	955 AKEPO LN APT 315	HONOLULU	HI	96817-5712
RESIDENT	955 AKEPO LN APT 316	HONOLULU	HI	96817-5712
RESIDENT	955 AKEPO LN APT 317	HONOLULU	HI	96817-5712
RESIDENT	955 AKEPO LN APT 318	HONOLULU	HI	96817-5712
RESIDENT	955 AKEPO LN APT 319	HONOLULU	HI	96817-5712
RESIDENT	955 AKEPO LN APT 320	HONOLULU	HI	96817-5712
RESIDENT	955 AKEPO LN APT 321	HONOLULU	HI	96817-5732
RESIDENT	955 AKEPO LN APT 322	HONOLULU	HI	96817-5732

RESIDENT	955 AKEPO LN APT 323	HONOLULU	HI	96817-5731
RESIDENT	955 AKEPO LN APT 324	HONOLULU	HI	96817-5731
RESIDENT	955 AKEPO LN APT 325	HONOLULU	HI	96817-5731
RESIDENT	955 AKEPO LN APT 326	HONOLULU	HI	96817-5731
RESIDENT	955 AKEPO LN APT 327	HONOLULU	HI	96817-5731
RESIDENT	955 AKEPO LN APT 328	HONOLULU	HI	96817-5731
RESIDENT	955 AKEPO LN APT 401	HONOLULU	HI	96817-5731
RESIDENT	955 AKEPO LN APT 402	HONOLULU	HI	96817-5731
RESIDENT	955 AKEPO LN APT 403	HONOLULU	HI	96817-5730
RESIDENT	955 AKEPO LN APT 404	HONOLULU	HI	96817-5730
RESIDENT	955 AKEPO LN APT 405	HONOLULU	HI	96817-5730
RESIDENT	955 AKEPO LN APT 406	HONOLULU	HI	96817-5730
RESIDENT	955 AKEPO LN APT 407	HONOLULU	HI	96817-5730
RESIDENT	955 AKEPO LN APT 409	HONOLULU	HI	96817-5730
RESIDENT	955 AKEPO LN APT 410	HONOLULU	HI	96817-5730
RESIDENT	955 AKEPO LN APT 411	HONOLULU	HI	96817-5730
RESIDENT	955 AKEPO LN APT 412	HONOLULU	HI	96817-5730
RESIDENT	955 AKEPO LN APT 413	HONOLULU	HI	96817-5713
RESIDENT	955 AKEPO LN APT 415	HONOLULU	HI	96817-5713
RESIDENT	955 AKEPO LN APT 416	HONOLULU	HI	96817-5713
RESIDENT	955 AKEPO LN APT 417	HONOLULU	HI	96817-5713
RESIDENT	955 AKEPO LN APT 418	HONOLULU	HI	96817-5713
RESIDENT	955 AKEPO LN APT 419	HONOLULU	HI	96817-5713
RESIDENT	955 AKEPO LN APT 420	HONOLULU	HI	96817-5713
RESIDENT	955 AKEPO LN APT 421	HONOLULU	HI	96817-5713
RESIDENT	955 AKEPO LN APT 422	HONOLULU	HI	96817-5713
RESIDENT	955 AKEPO LN APT 423	HONOLULU	HI	96817-5733
RESIDENT	955 AKEPO LN APT 424	HONOLULU	HI	96817-5733
RESIDENT	955 AKEPO LN APT 425	HONOLULU	HI	96817-5733
RESIDENT	955 AKEPO LN APT 426	HONOLULU	HI	96817-5733
RESIDENT	955 AKEPO LN APT 427	HONOLULU	HI	96817-5733
RESIDENT	955 AKEPO LN APT 428	HONOLULU	HI	96817-5733
BUSINESS OCCUPANT	949 AKEPO LN STE 1	HONOLULU	HI	96817-4503
RESIDENT	954 AKEPO LN APT 1	HONOLULU	HI	96817-4562
RESIDENT	954 AKEPO LN APT 2	HONOLULU	HI	96817-4562
RESIDENT	954 AKEPO LN APT 3	HONOLULU	HI	96817-4562
RESIDENT	954 AKEPO LN APT 4	HONOLULU	HI	96817-4562
RESIDENT	954 AKEPO LN APT 5	HONOLULU	HI	96817-4562
RESIDENT	954 AKEPO LN APT 6	HONOLULU	HI	96817-4563
RESIDENT	954 AKEPO LN APT 7	HONOLULU	HI	96817-4563
RESIDENT	954 AKEPO LN APT 8	HONOLULU	HI	96817-4563
RESIDENT	954 AKEPO LN APT 9	HONOLULU	HI	96817-4563
RESIDENT	954 AKEPO LN APT 10	HONOLULU	HI	96817-4563
RESIDENT	954 AKEPO LN APT 11	HONOLULU	HI	96817-4564
RESIDENT	954 AKEPO LN APT 12	HONOLULU	HI	96817-4564
RESIDENT	954 AKEPO LN APT 13	HONOLULU	HI	96817-4564
RESIDENT	954 AKEPO LN APT 14	HONOLULU	HI	96817-4564
RESIDENT	954 AKEPO LN APT 15	HONOLULU	HI	96817-4564
BUSINESS OCCUPANT	944 AKEPO LN STE 1	HONOLULU	HI	96817-4588

BUSINESS OCCUPANT	944 AKEPO LN STE 2	HONOLULU	HI	96817-4588
BUSINESS OCCUPANT	944 AKEPO LN STE 3	HONOLULU	HI	96817-4588
RESIDENT	938 AKEPO LN	HONOLULU	HI	96817-4501
RESIDENT	942 AKEPO LN	HONOLULU	HI	96817-4501
RESIDENT	942 AKEPO LN	HONOLULU	HI	96817-4501
RESIDENT	942 AKEPO LN	HONOLULU	HI	96817-4501
RESIDENT	942 AKEPO LN	HONOLULU	HI	96817-4501
RESIDENT	942 AKEPO LN APT C	HONOLULU	HI	96817-4501
RESIDENT	938 AKEPO LN APT A	HONOLULU	HI	96817-5704
RESIDENT	938 AKEPO LN APT B	HONOLULU	HI	96817-5704
RESIDENT	940 AKEPO LN	HONOLULU	HI	96817-4501
RESIDENT	940 AKEPO LN	HONOLULU	HI	96817-4501
RESIDENT	940 AKEPO LN	HONOLULU	HI	96817-4501
RESIDENT	940 AKEPO LN	HONOLULU	HI	96817-4501
RESIDENT	938 AKEPO LN APT C	HONOLULU	HI	96817-5704
RESIDENT	938 AKEPO LN APT D	HONOLULU	HI	96817-5704
BUSINESS OCCUPANT	935 AKEPO LN	HONOLULU	HI	96817-4503
BUSINESS OCCUPANT	939 AKEPO LN	HONOLULU	HI	96817-4503
BUSINESS OCCUPANT	935 AKEPO LN STE B1	HONOLULU	HI	96817-5770
RESIDENT	410 N BERETANIA ST APT 101	HONOLULU	HI	96817-4734
RESIDENT	410 N BERETANIA ST APT 102	HONOLULU	HI	96817-4734
RESIDENT	410 N BERETANIA ST APT 103	HONOLULU	HI	96817-4734
RESIDENT	410 N BERETANIA ST APT 104	HONOLULU	HI	96817-4734
RESIDENT	410 N BERETANIA ST APT 105	HONOLULU	HI	96817-4734
RESIDENT	410 N BERETANIA ST APT 201	HONOLULU	HI	96817-4734
RESIDENT	410 N BERETANIA ST APT 202	HONOLULU	HI	96817-4734
RESIDENT	410 N BERETANIA ST APT 203	HONOLULU	HI	96817-4734
RESIDENT	410 N BERETANIA ST APT 204	HONOLULU	HI	96817-4734
RESIDENT	410 N BERETANIA ST APT 205	HONOLULU	HI	96817-4734
RESIDENT	410 N BERETANIA ST APT 206	HONOLULU	HI	96817-4734
RESIDENT	410 N BERETANIA ST APT 207	HONOLULU	HI	96817-4734
RESIDENT	410 N BERETANIA ST APT 208	HONOLULU	HI	96817-4734
RESIDENT	410 N BERETANIA ST APT 209	HONOLULU	HI	96817-4734
RESIDENT	410 N BERETANIA ST APT 210	HONOLULU	HI	96817-4734
RESIDENT	412 N BERETANIA ST APT 101	HONOLULU	HI	96817-4733
RESIDENT	412 N BERETANIA ST APT 102	HONOLULU	HI	96817-4735
RESIDENT	412 N BERETANIA ST APT 103	HONOLULU	HI	96817-4735
RESIDENT	412 N BERETANIA ST APT 104	HONOLULU	HI	96817-4735
RESIDENT	412 N BERETANIA ST APT 105	HONOLULU	HI	96817-4735
RESIDENT	412 N BERETANIA ST APT 106	HONOLULU	HI	96817-4735
RESIDENT	412 N BERETANIA ST APT 107	HONOLULU	HI	96817-4735
RESIDENT	412 N BERETANIA ST APT 201	HONOLULU	HI	96817-4735
RESIDENT	412 N BERETANIA ST APT 202	HONOLULU	HI	96817-4735
RESIDENT	412 N BERETANIA ST APT 203	HONOLULU	HI	96817-4735
RESIDENT	412 N BERETANIA ST APT 204	HONOLULU	HI	96817-4735
RESIDENT	412 N BERETANIA ST APT 205	HONOLULU	HI	96817-4735
RESIDENT	412 N BERETANIA ST APT 206	HONOLULU	HI	96817-4735
RESIDENT	412 N BERETANIA ST APT 207	HONOLULU	HI	96817-4735
RESIDENT	412 N BERETANIA ST APT 208	HONOLULU	HI	96817-4735

RESIDENT	412 N BERETANIA ST APT 209	HONOLULU	HI	96817-4735
RESIDENT	412 N BERETANIA ST APT 210	HONOLULU	HI	96817-4735
RESIDENT	420 N KING ST APT 101	HONOLULU	HI	96817-4705
RESIDENT	420 N KING ST APT 102	HONOLULU	HI	96817-4705
RESIDENT	420 N KING ST APT 103	HONOLULU	HI	96817-4705
RESIDENT	420 N KING ST APT 104	HONOLULU	HI	96817-4705
RESIDENT	420 N KING ST APT 105	HONOLULU	HI	96817-4705
RESIDENT	420 N KING ST APT 106	HONOLULU	HI	96817-4705
RESIDENT	420 N KING ST APT 107	HONOLULU	HI	96817-4705
RESIDENT	420 N KING ST APT 108	HONOLULU	HI	96817-4705
RESIDENT	420 N KING ST APT 201	HONOLULU	HI	96817-4705
RESIDENT	420 N KING ST APT 202	HONOLULU	HI	96817-4705
RESIDENT	420 N KING ST APT 203	HONOLULU	HI	96817-4705
RESIDENT	420 N KING ST APT 204	HONOLULU	HI	96817-4705
RESIDENT	420 N KING ST APT 205	HONOLULU	HI	96817-4705
RESIDENT	420 N KING ST APT 206	HONOLULU	HI	96817-4705
RESIDENT	420 N KING ST APT 207	HONOLULU	HI	96817-4705
RESIDENT	420 N KING ST APT 208	HONOLULU	HI	96817-4705
RESIDENT	420 N KING ST APT 209	HONOLULU	HI	96817-4739
RESIDENT	420 N KING ST APT 210	HONOLULU	HI	96817-4739
RESIDENT	420 N KING ST APT 211	HONOLULU	HI	96817-4739
RESIDENT	420 N KING ST APT 212	HONOLULU	HI	96817-4739
RESIDENT	420 N KING ST APT 213	HONOLULU	HI	96817-4739
RESIDENT	420 N KING ST APT 214	HONOLULU	HI	96817-4739
RESIDENT	420 N KING ST APT 215	HONOLULU	HI	96817-4739
RESIDENT	420 N KING ST APT 216	HONOLULU	HI	96817-4739
RESIDENT	430 N KING ST APT 101	HONOLULU	HI	96817-4722
RESIDENT	430 N KING ST APT 102	HONOLULU	HI	96817-4722
RESIDENT	430 N KING ST APT 103	HONOLULU	HI	96817-4722
RESIDENT	430 N KING ST APT 104	HONOLULU	HI	96817-4722
RESIDENT	430 N KING ST APT 105	HONOLULU	HI	96817-4722
RESIDENT	430 N KING ST APT 106	HONOLULU	HI	96817-4722
RESIDENT	430 N KING ST APT 201	HONOLULU	HI	96817-4722
RESIDENT	430 N KING ST APT 202	HONOLULU	HI	96817-4722
RESIDENT	430 N KING ST APT 203	HONOLULU	HI	96817-4706
RESIDENT	430 N KING ST APT 204	HONOLULU	HI	96817-4706
RESIDENT	430 N KING ST APT 205	HONOLULU	HI	96817-4706
RESIDENT	430 N KING ST APT 206	HONOLULU	HI	96817-4706
RESIDENT	430 N KING ST APT 301	HONOLULU	HI	96817-4706
RESIDENT	430 N KING ST APT 302	HONOLULU	HI	96817-4706
RESIDENT	430 N KING ST APT 303	HONOLULU	HI	96817-4706
RESIDENT	430 N KING ST APT 304	HONOLULU	HI	96817-4706
RESIDENT	430 N KING ST APT 305	HONOLULU	HI	96817-4706
RESIDENT	430 N KING ST APT 306	HONOLULU	HI	96817-4706
RESIDENT	440 N KING ST APT 101	HONOLULU	HI	96817-4718
RESIDENT	440 N KING ST APT 102	HONOLULU	HI	96817-4718
RESIDENT	440 N KING ST APT 103	HONOLULU	HI	96817-4718
RESIDENT	440 N KING ST APT 104	HONOLULU	HI	96817-4718
RESIDENT	440 N KING ST APT 105	HONOLULU	HI	96817-4718

RESIDENT	440 N KING ST APT 106	HONOLULU	HI	96817-4718
RESIDENT	440 N KING ST APT 107	HONOLULU	HI	96817-4740
RESIDENT	440 N KING ST APT 201	HONOLULU	HI	96817-4740
RESIDENT	440 N KING ST APT 202	HONOLULU	HI	96817-4740
RESIDENT	440 N KING ST APT 203	HONOLULU	HI	96817-4740
RESIDENT	440 N KING ST APT 204	HONOLULU	HI	96817-4740
RESIDENT	440 N KING ST APT 205	HONOLULU	HI	96817-4740
RESIDENT	440 N KING ST APT 206	HONOLULU	HI	96817-4740
RESIDENT	440 N KING ST APT 207	HONOLULU	HI	96817-4740
RESIDENT	440 N KING ST APT 208	HONOLULU	HI	96817-4740
RESIDENT	440 N KING ST APT 209	HONOLULU	HI	96817-4740
RESIDENT	440 N KING ST APT 210	HONOLULU	HI	96817-4740
RESIDENT	440 N KING ST APT 212	HONOLULU	HI	96817-4740
RESIDENT	440 N KING ST APT 213	HONOLULU	HI	96817-4740
RESIDENT	440 N KING ST APT 214	HONOLULU	HI	96817-4740
RESIDENT	1001 LILIHA ST APT 101	HONOLULU	HI	96817-4622
RESIDENT	1001 LILIHA ST APT 102	HONOLULU	HI	96817-4622
RESIDENT	1001 LILIHA ST APT 103	HONOLULU	HI	96817-4622
RESIDENT	1001 LILIHA ST APT 104	HONOLULU	HI	96817-4622
RESIDENT	1001 LILIHA ST APT 105	HONOLULU	HI	96817-4622
RESIDENT	1001 LILIHA ST APT 106	HONOLULU	HI	96817-4622
RESIDENT	1001 LILIHA ST APT 107	HONOLULU	HI	96817-4622
RESIDENT	1001 LILIHA ST APT 108	HONOLULU	HI	96817-4622
RESIDENT	1001 LILIHA ST APT 109	HONOLULU	HI	96817-4622
RESIDENT	1001 LILIHA ST APT 110	HONOLULU	HI	96817-4622
RESIDENT	1001 LILIHA ST APT 111	HONOLULU	HI	96817-4622
RESIDENT	1001 LILIHA ST APT 112	HONOLULU	HI	96817-4622
RESIDENT	1001 LILIHA ST APT 113	HONOLULU	HI	96817-4622
RESIDENT	1001 LILIHA ST APT 114	HONOLULU	HI	96817-4622
RESIDENT	1001 LILIHA ST APT 201	HONOLULU	HI	96817-4622
RESIDENT	1001 LILIHA ST APT 202	HONOLULU	HI	96817-4622
RESIDENT	1001 LILIHA ST APT 203	HONOLULU	HI	96817-4623
RESIDENT	1001 LILIHA ST APT 204	HONOLULU	HI	96817-4623
RESIDENT	1001 LILIHA ST APT 205	HONOLULU	HI	96817-4623
RESIDENT	1001 LILIHA ST APT 206	HONOLULU	HI	96817-4623
RESIDENT	1001 LILIHA ST APT 207	HONOLULU	HI	96817-4623
RESIDENT	1001 LILIHA ST APT 208	HONOLULU	HI	96817-4623
RESIDENT	1001 LILIHA ST APT 209	HONOLULU	HI	96817-4623
RESIDENT	1001 LILIHA ST APT 210	HONOLULU	HI	96817-4623
RESIDENT	1001 LILIHA ST APT 211	HONOLULU	HI	96817-4623
RESIDENT	1001 LILIHA ST APT 212	HONOLULU	HI	96817-4623
RESIDENT	1001 LILIHA ST APT 213	HONOLULU	HI	96817-4623
RESIDENT	1001 LILIHA ST APT 214	HONOLULU	HI	96817-4623
RESIDENT	1001 LILIHA ST APT 301	HONOLULU	HI	96817-4623
RESIDENT	1001 LILIHA ST APT 302	HONOLULU	HI	96817-4623
RESIDENT	1001 LILIHA ST APT 303	HONOLULU	HI	96817-4623
RESIDENT	1001 LILIHA ST APT 304	HONOLULU	HI	96817-4623
RESIDENT	1001 LILIHA ST APT 305	HONOLULU	HI	96817-4624
RESIDENT	1001 LILIHA ST APT 306	HONOLULU	HI	96817-4624

RESIDENT	1001 LILIHA ST APT 307	HONOLULU	HI	96817-4624
RESIDENT	1001 LILIHA ST APT 308	HONOLULU	HI	96817-4624
RESIDENT	1001 LILIHA ST APT 309	HONOLULU	HI	96817-4624
RESIDENT	1001 LILIHA ST APT 310	HONOLULU	HI	96817-4624
RESIDENT	1001 LILIHA ST APT 311	HONOLULU	HI	96817-4624
RESIDENT	1001 LILIHA ST APT 312	HONOLULU	HI	96817-4624
RESIDENT	1001 LILIHA ST APT 313	HONOLULU	HI	96817-4624
RESIDENT	1001 LILIHA ST APT 314	HONOLULU	HI	96817-4624
RESIDENT	1101 LILIHA ST APT 101	HONOLULU	HI	96817-4694
BUSINESS OCCUPANT	1101 LILIHA ST APT 102	HONOLULU	HI	96817-4694
RESIDENT	1101 LILIHA ST APT 103	HONOLULU	HI	96817-4694
RESIDENT	1101 LILIHA ST APT 104	HONOLULU	HI	96817-4694
RESIDENT	1101 LILIHA ST APT 105	HONOLULU	HI	96817-4694
RESIDENT	1101 LILIHA ST APT 106	HONOLULU	HI	96817-4694
RESIDENT	1101 LILIHA ST APT 107	HONOLULU	HI	96817-4629
RESIDENT	1101 LILIHA ST APT 108	HONOLULU	HI	96817-4629
RESIDENT	1101 LILIHA ST APT 109	HONOLULU	HI	96817-4629
RESIDENT	1101 LILIHA ST APT 110	HONOLULU	HI	96817-4629
RESIDENT	1101 LILIHA ST APT 111	HONOLULU	HI	96817-4629
RESIDENT	1101 LILIHA ST APT 201	HONOLULU	HI	96817-4629
RESIDENT	1101 LILIHA ST APT 202	HONOLULU	HI	96817-4629
RESIDENT	1101 LILIHA ST APT 203	HONOLULU	HI	96817-4629
RESIDENT	1101 LILIHA ST APT 204	HONOLULU	HI	96817-4629
RESIDENT	1101 LILIHA ST APT 205	HONOLULU	HI	96817-4629
RESIDENT	1101 LILIHA ST APT 206	HONOLULU	HI	96817-4629
RESIDENT	1101 LILIHA ST APT 207	HONOLULU	HI	96817-4629
RESIDENT	1101 LILIHA ST APT 209	HONOLULU	HI	96817-4629
RESIDENT	1101 LILIHA ST APT 210	HONOLULU	HI	96817-4629
RESIDENT	1101 LILIHA ST APT 211	HONOLULU	HI	96817-4629
RESIDENT	1101 LILIHA ST APT 212	HONOLULU	HI	96817-4661
RESIDENT	1101 LILIHA ST APT 213	HONOLULU	HI	96817-4661
RESIDENT	1101 LILIHA ST APT 214	HONOLULU	HI	96817-4661
RESIDENT	1103 LILIHA ST APT 101	HONOLULU	HI	96817-4632
BUSINESS OCCUPANT	1103 LILIHA ST APT 102	HONOLULU	HI	96817-4632
RESIDENT	1103 LILIHA ST APT 103	HONOLULU	HI	96817-4632
RESIDENT	1103 LILIHA ST APT 201	HONOLULU	HI	96817-4632
RESIDENT	1103 LILIHA ST APT 202	HONOLULU	HI	96817-4632
RESIDENT	1103 LILIHA ST APT 203	HONOLULU	HI	96817-4632
RESIDENT	1103 LILIHA ST APT 204	HONOLULU	HI	96817-4632
RESIDENT	1103 LILIHA ST APT 205	HONOLULU	HI	96817-4632
RESIDENT	1103 LILIHA ST APT 206	HONOLULU	HI	96817-4632
BUSINESS OCCUPANT	408 N BERETANIA ST	HONOLULU	HI	96817-4728
RESIDENT	1105 LILIHA ST APT 101	HONOLULU	HI	96817-4636
RESIDENT	1105 LILIHA ST APT 102	HONOLULU	HI	96817-4636
RESIDENT	1105 LILIHA ST APT 201	HONOLULU	HI	96817-4636
RESIDENT	1105 LILIHA ST APT 202	HONOLULU	HI	96817-4636
RESIDENT	1105 LILIHA ST APT 203	HONOLULU	HI	96817-4636
RESIDENT	1105 LILIHA ST APT 204	HONOLULU	HI	96817-4636
RESIDENT	1107 LILIHA ST APT 101	HONOLULU	HI	96817-4664

RESIDENT	1107 LILIHA ST APT 102	HONOLULU	HI	96817-4664
RESIDENT	1107 LILIHA ST APT 103	HONOLULU	HI	96817-4664
RESIDENT	1107 LILIHA ST APT 104	HONOLULU	HI	96817-4664
RESIDENT	1107 LILIHA ST APT 105	HONOLULU	HI	96817-4664
RESIDENT	1107 LILIHA ST APT 106	HONOLULU	HI	96817-4664
RESIDENT	1107 LILIHA ST APT 107	HONOLULU	HI	96817-4664
RESIDENT	1107 LILIHA ST APT 108	HONOLULU	HI	96817-4664
RESIDENT	1107 LILIHA ST APT 109	HONOLULU	HI	96817-4664
RESIDENT	1107 LILIHA ST APT 201	HONOLULU	HI	96817-4664
RESIDENT	1107 LILIHA ST APT 202	HONOLULU	HI	96817-4638
RESIDENT	1107 LILIHA ST APT 203	HONOLULU	HI	96817-4638
RESIDENT	1107 LILIHA ST APT 204	HONOLULU	HI	96817-4638
RESIDENT	1107 LILIHA ST APT 205	HONOLULU	HI	96817-4638
RESIDENT	1107 LILIHA ST APT 206	HONOLULU	HI	96817-4638
RESIDENT	1107 LILIHA ST APT 207	HONOLULU	HI	96817-4638
RESIDENT	1107 LILIHA ST APT 208	HONOLULU	HI	96817-4638
RESIDENT	1107 LILIHA ST APT 209	HONOLULU	HI	96817-4638
RESIDENT	1107 LILIHA ST APT 210	HONOLULU	HI	96817-4638
RESIDENT	1107 LILIHA ST APT 211	HONOLULU	HI	96817-4638
RESIDENT	1107 LILIHA ST APT 212	HONOLULU	HI	96817-4638
RESIDENT	1107 LILIHA ST APT 213	HONOLULU	HI	96817-4638
RESIDENT	1107 LILIHA ST APT 214	HONOLULU	HI	96817-4638
RESIDENT	1201 LILIHA ST APT 101	HONOLULU	HI	96817-4696
RESIDENT	1201 LILIHA ST APT 102	HONOLULU	HI	96817-4696
RESIDENT	1201 LILIHA ST APT 103	HONOLULU	HI	96817-4696
RESIDENT	1201 LILIHA ST APT 104	HONOLULU	HI	96817-4642
RESIDENT	1201 LILIHA ST APT 105	HONOLULU	HI	96817-4642
RESIDENT	1201 LILIHA ST APT 201	HONOLULU	HI	96817-4642
RESIDENT	1201 LILIHA ST APT 202	HONOLULU	HI	96817-4642
RESIDENT	1201 LILIHA ST APT 203	HONOLULU	HI	96817-4642
RESIDENT	1201 LILIHA ST APT 204	HONOLULU	HI	96817-4642
RESIDENT	1201 LILIHA ST APT 205	HONOLULU	HI	96817-4642
RESIDENT	1201 LILIHA ST APT 206	HONOLULU	HI	96817-4642
RESIDENT	1201 LILIHA ST APT 207	HONOLULU	HI	96817-4642
RESIDENT	1201 LILIHA ST APT 208	HONOLULU	HI	96817-4642
RESIDENT	1201 LILIHA ST APT 209	HONOLULU	HI	96817-4642
RESIDENT	1201 LILIHA ST APT 210	HONOLULU	HI	96817-4642
RESIDENT	1203 LILIHA ST APT 101	HONOLULU	HI	96817-4677
RESIDENT	1203 LILIHA ST APT 102	HONOLULU	HI	96817-4677
RESIDENT	1203 LILIHA ST APT 103	HONOLULU	HI	96817-4677
RESIDENT	1203 LILIHA ST APT 104	HONOLULU	HI	96817-4677
RESIDENT	1203 LILIHA ST APT 201	HONOLULU	HI	96817-4668
RESIDENT	1203 LILIHA ST APT 202	HONOLULU	HI	96817-4668
RESIDENT	1203 LILIHA ST APT 203	HONOLULU	HI	96817-4668
RESIDENT	1203 LILIHA ST APT 204	HONOLULU	HI	96817-4668
RESIDENT	1205 LILIHA ST APT 101	HONOLULU	HI	96817-4645
RESIDENT	1205 LILIHA ST APT 102	HONOLULU	HI	96817-4645
RESIDENT	1205 LILIHA ST APT 103	HONOLULU	HI	96817-4645
RESIDENT	1205 LILIHA ST APT 104	HONOLULU	HI	96817-4645

RESIDENT	1205 LILIHA ST APT 105	HONOLULU	HI	96817-4645
RESIDENT	1205 LILIHA ST APT 106	HONOLULU	HI	96817-4645
RESIDENT	1205 LILIHA ST APT 202	HONOLULU	HI	96817-4645
RESIDENT	1205 LILIHA ST APT 203	HONOLULU	HI	96817-4645
RESIDENT	1205 LILIHA ST APT 204	HONOLULU	HI	96817-4645
RESIDENT	1205 LILIHA ST APT 205	HONOLULU	HI	96817-4645
RESIDENT	1205 LILIHA ST APT 206	HONOLULU	HI	96817-4645
RESIDENT	1205 LILIHA ST APT 207	HONOLULU	HI	96817-4669
RESIDENT	1205 LILIHA ST APT 208	HONOLULU	HI	96817-4669
RESIDENT	1207 LILIHA ST APT 101	HONOLULU	HI	96817-4646
RESIDENT	1207 LILIHA ST APT 102	HONOLULU	HI	96817-4646
RESIDENT	1207 LILIHA ST APT 103	HONOLULU	HI	96817-4646
RESIDENT	1207 LILIHA ST APT 104	HONOLULU	HI	96817-4646
RESIDENT	1207 LILIHA ST APT 105	HONOLULU	HI	96817-4646
RESIDENT	1207 LILIHA ST APT 106	HONOLULU	HI	96817-4646
RESIDENT	1207 LILIHA ST APT 107	HONOLULU	HI	96817-4646
RESIDENT	1207 LILIHA ST APT 108	HONOLULU	HI	96817-4646
RESIDENT	1207 LILIHA ST APT 201	HONOLULU	HI	96817-4646
RESIDENT	1207 LILIHA ST APT 202	HONOLULU	HI	96817-4646
RESIDENT	1207 LILIHA ST APT 203	HONOLULU	HI	96817-4646
RESIDENT	1207 LILIHA ST APT 204	HONOLULU	HI	96817-4646
RESIDENT	1207 LILIHA ST APT 205	HONOLULU	HI	96817-4646
RESIDENT	1207 LILIHA ST APT 206	HONOLULU	HI	96817-4646
RESIDENT	1207 LILIHA ST APT 207	HONOLULU	HI	96817-4679
RESIDENT	1207 LILIHA ST APT 208	HONOLULU	HI	96817-4679
RESIDENT	1207 LILIHA ST APT 209	HONOLULU	HI	96817-4679
RESIDENT	1207 LILIHA ST APT 210	HONOLULU	HI	96817-4679
BUSINESS OCCUPANT	1226 COLLEGE WALK	HONOLULU	HI	96817-3946
RESIDENT	1012 AULD LN	HONOLULU	HI	96817-3415
RESIDENT	1018 AULD LN	HONOLULU	HI	96817-3415
RESIDENT	1017 AULD LN	HONOLULU	HI	96817-3416
RESIDENT	1102 AULD LN	HONOLULU	HI	96817-3417
RESIDENT	1103 AULD LN	HONOLULU	HI	96817-3418
RESIDENT	1114 AULD LN	HONOLULU	HI	96817-3417
RESIDENT	1106 AULD LN APT A	HONOLULU	HI	96817-3497
RESIDENT	1106 AULD LN APT B	HONOLULU	HI	96817-3497
RESIDENT	1106 AULD LN APT C	HONOLULU	HI	96817-3497
RESIDENT	1106 AULD LN APT D	HONOLULU	HI	96817-3497
RESIDENT	1009 RAWLINS LN	HONOLULU	HI	96817-3457
RESIDENT	1008 RAWLINS LN	HONOLULU	HI	96817-3457
RESIDENT	1008 RAWLINS LN	HONOLULU	HI	96817-3457
RESIDENT	1010 RAWLINS LN APT A	HONOLULU	HI	96817-3499
RESIDENT	1010 RAWLINS LN APT B	HONOLULU	HI	96817-3499
RESIDENT	1010 RAWLINS LN APT C	HONOLULU	HI	96817-3499
RESIDENT	1010 RAWLINS LN APT D	HONOLULU	HI	96817-3499
RESIDENT	1010 RAWLINS LN APT G	HONOLULU	HI	96817-3499
RESIDENT	1010 RAWLINS LN APT H	HONOLULU	HI	96817-3499
RESIDENT	1010 RAWLINS LN APT N	HONOLULU	HI	96817-3499
RESIDENT	1010 RAWLINS LN APT O	HONOLULU	HI	96817-3499

RESIDENT	1010 RAWLINS LN APT P	HONOLULU	HI	96817-3499
RESIDENT	1010 RAWLINS LN APT Q	HONOLULU	HI	96817-3499
RESIDENT	1010 RAWLINS LN APT R	HONOLULU	HI	96817-3499
RESIDENT	1010 RAWLINS LN APT S	HONOLULU	HI	96817-3499
RESIDENT	1010 RAWLINS LN APT T	HONOLULU	HI	96817-3447
RESIDENT	1010 RAWLINS LN APT U	HONOLULU	HI	96817-3499
RESIDENT	1123 AULD LN	HONOLULU	HI	96817-3418
RESIDENT	1124 AULD LN	HONOLULU	HI	96817-3417
RESIDENT	1128 AULD LN	HONOLULU	HI	96817-3417
RESIDENT	1128 AULD LN	HONOLULU	HI	96817-3417
RESIDENT	1128 AULD LN	HONOLULU	HI	96817-3417
RESIDENT	1202 AULD LN	HONOLULU	HI	96817-3419
RESIDENT	1202 AULD LN	HONOLULU	HI	96817-3419
RESIDENT	1202 AULD LN	HONOLULU	HI	96817-3419
RESIDENT	1203 AULD LN	HONOLULU	HI	96817-3420
RESIDENT	1207 AULD LN	HONOLULU	HI	96817-3420
RESIDENT	1240 AULD LN APT H	HONOLULU	HI	96817-6425
RESIDENT	1214 AULD LN APT B	HONOLULU	HI	96817-3419
RESIDENT	1240 AULD LN APT E	HONOLULU	HI	96817-6425
RESIDENT	1210 AULD LN APT D	HONOLULU	HI	96817-6426
RESIDENT	1210 AULD LN APT D1	HONOLULU	HI	96817-6426
RESIDENT	1240 AULD LN APT C	HONOLULU	HI	96817-6425
RESIDENT	1210 AULD LN APT A	HONOLULU	HI	96817-6426
RESIDENT	1209 AULD LN	HONOLULU	HI	96817-3420
RESIDENT	1211 AULD LN	HONOLULU	HI	96817-3420
RESIDENT	1221 AULD LN	HONOLULU	HI	96817-3420
RESIDENT	1226 AULD LN	HONOLULU	HI	96817-3419
RESIDENT	1222 AULD LN	HONOLULU	HI	96817-3419
RESIDENT	1217 IAO LN	HONOLULU	HI	96817-5509
RESIDENT	1225 IAO LN	HONOLULU	HI	96817-5509
RESIDENT	927 OLOMEA ST	HONOLULU	HI	96817-3458
RESIDENT	913 OLOMEA ST	HONOLULU	HI	96817-3458
RESIDENT	1310 PALAMA ST	HONOLULU	HI	96817-3451
RESIDENT	1306 PALAMA ST	HONOLULU	HI	96817-3451
BUSINESS OCCUPANT	1311 PALAMA ST	HONOLULU	HI	96817-3400
BUSINESS OCCUPANT	1420 PALAMA ST	HONOLULU	HI	96817-3491
RESIDENT	934 HALONA ST	HONOLULU	HI	96817-2933
RESIDENT	934 HALONA ST	HONOLULU	HI	96817-2933
RESIDENT	938 HALONA ST APT D	HONOLULU	HI	96817-2957
RESIDENT	938 HALONA ST APT C	HONOLULU	HI	96817-2957
RESIDENT	938 HALONA ST APT B	HONOLULU	HI	96817-2957
RESIDENT	938 HALONA ST APT A	HONOLULU	HI	96817-2957
RESIDENT	946 HALONA ST	HONOLULU	HI	96817-2933
RESIDENT	950 HALONA ST	HONOLULU	HI	96817-2933
RESIDENT	960 HALONA ST	HONOLULU	HI	96817-2933
RESIDENT	1465 AALA ST APT 101	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 102	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 103	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 104	HONOLULU	HI	96817-3607

RESIDENT	1465 AALA ST APT 105	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 106	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 107	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 201	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 202	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 203	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 204	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 205	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 206	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 207	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 208	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 301	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 302	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 303	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 304	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 305	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 306	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 307	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 308	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 401	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 402	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 403	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 404	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 405	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 406	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 407	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 408	HONOLULU	HI	96817-3607
RESIDENT	1465 AALA ST APT 501	HONOLULU	HI	96817-3628
RESIDENT	1465 AALA ST APT 502	HONOLULU	HI	96817-3628
RESIDENT	1465 AALA ST APT 503	HONOLULU	HI	96817-3628
RESIDENT	1465 AALA ST APT 504	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 505	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 506	HONOLULU	HI	96817-3600
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RESIDENT	1465 AALA ST APT 508	HONOLULU	HI	96817-3600
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RESIDENT	1465 AALA ST APT 602	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 603	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 604	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 605	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 606	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 607	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 608	HONOLULU	HI	96817-3600
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RESIDENT	1465 AALA ST APT 702	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 703	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 704	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 705	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 706	HONOLULU	HI	96817-3600

RESIDENT	1465 AALA ST APT 707	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 708	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 801	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 802	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 803	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 804	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 805	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 806	HONOLULU	HI	96817-3600
RESIDENT	1465 AALA ST APT 807	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 808	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 901	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 902	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 903	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 904	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 2203	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 906	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 907	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 908	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 1001	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 1002	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 1003	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 1004	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 1005	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 1006	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 1007	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 1008	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 1101	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 1102	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 1103	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 1104	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 1105	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 1106	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 1107	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 1108	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 1201	HONOLULU	HI	96817-3608
RESIDENT	1465 AALA ST APT 1202	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1203	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1204	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1205	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1206	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1207	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1208	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1401	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1402	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1403	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1404	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1405	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1406	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1407	HONOLULU	HI	96817-3609

RESIDENT	1465 AALA ST APT 1408	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1501	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1502	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1503	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1504	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1505	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1506	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1507	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1508	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1601	HONOLULU	HI	96817-3609
RESIDENT	1465 AALA ST APT 1602	HONOLULU	HI	96817-3640
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RESIDENT	1465 AALA ST APT 1604	HONOLULU	HI	96817-3640
RESIDENT	1465 AALA ST APT 1605	HONOLULU	HI	96817-3620
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RESIDENT	1465 AALA ST APT 1607	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1608	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1701	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1702	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1704	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1705	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1706	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1707	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1708	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1801	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1802	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1803	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1804	HONOLULU	HI	96817-3620
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RESIDENT	1465 AALA ST APT 1806	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1807	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1808	HONOLULU	HI	96817-3620
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RESIDENT	1465 AALA ST APT 1902	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1903	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1904	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1905	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1906	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1907	HONOLULU	HI	96817-3620
RESIDENT	1465 AALA ST APT 1908	HONOLULU	HI	96817-3641
RESIDENT	1465 AALA ST APT 2001	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2002	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2003	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2004	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2005	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2006	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2007	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2008	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2101	HONOLULU	HI	96817-3610

RESIDENT	1465 AALA ST APT 2102	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2103	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2104	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2105	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2106	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2107	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2108	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2201	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2202	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2204	HONOLULU	HI	96817-3610
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RESIDENT	1465 AALA ST APT 2301	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2302	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2303	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2304	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2305	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2306	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2307	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 2308	HONOLULU	HI	96817-3610
RESIDENT	1465 AALA ST APT 1703	HONOLULU	HI	96817-3643
RESIDENT	1465 AALA ST APT 905	HONOLULU	HI	96817-3608
BUSINESS OCCUPANT	1486 AALA ST	HONOLULU	HI	96817-3601
RESIDENT	1450 AALA ST APT 201	HONOLULU	HI	96817-3603
RESIDENT	1450 AALA ST APT 202	HONOLULU	HI	96817-3603
RESIDENT	1450 AALA ST APT 203	HONOLULU	HI	96817-3603
RESIDENT	1450 AALA ST APT 204	HONOLULU	HI	96817-3603
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RESIDENT	1450 AALA ST APT 303	HONOLULU	HI	96817-3603
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RESIDENT	1450 AALA ST APT 505	HONOLULU	HI	96817-3603
RESIDENT	1450 AALA ST APT 506	HONOLULU	HI	96817-3603
RESIDENT	1450 AALA ST APT 601	HONOLULU	HI	96817-3625

RESIDENT	1450 AALA ST APT 602	HONOLULU	HI	96817-3625
RESIDENT	1450 AALA ST APT 603	HONOLULU	HI	96817-3625
RESIDENT	1450 AALA ST APT 604	HONOLULU	HI	96817-3625
RESIDENT	1450 AALA ST APT 605	HONOLULU	HI	96817-3625
RESIDENT	1450 AALA ST APT 606	HONOLULU	HI	96817-3625
RESIDENT	1450 AALA ST APT 701	HONOLULU	HI	96817-3625
RESIDENT	1450 AALA ST APT 702	HONOLULU	HI	96817-3625
RESIDENT	1450 AALA ST APT 703	HONOLULU	HI	96817-3625
RESIDENT	1450 AALA ST APT 704	HONOLULU	HI	96817-3625
RESIDENT	1450 AALA ST APT 705	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 706	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 801	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 802	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 803	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 804	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 805	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 806	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 901	HONOLULU	HI	96817-3630
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RESIDENT	1450 AALA ST APT 904	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 905	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 906	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 1001	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 1002	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 1003	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 1004	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 1005	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 1006	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 1101	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 1102	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 1103	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 1104	HONOLULU	HI	96817-3630
RESIDENT	1450 AALA ST APT 1105	HONOLULU	HI	96817-3626
RESIDENT	1450 AALA ST APT 1106	HONOLULU	HI	96817-3626
RESIDENT	1450 AALA ST APT 1201	HONOLULU	HI	96817-3626
RESIDENT	1450 AALA ST APT 1202	HONOLULU	HI	96817-3626
RESIDENT	1450 AALA ST APT 1203	HONOLULU	HI	96817-3626
RESIDENT	1450 AALA ST APT 1204	HONOLULU	HI	96817-3626
RESIDENT	1450 AALA ST APT 1205	HONOLULU	HI	96817-3626
RESIDENT	1450 AALA ST APT 1206	HONOLULU	HI	96817-3626
RESIDENT	1450 AALA ST APT 1401	HONOLULU	HI	96817-3626
RESIDENT	1450 AALA ST APT 1402	HONOLULU	HI	96817-3626
RESIDENT	1450 AALA ST APT 1403	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1404	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1405	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1406	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1501	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1502	HONOLULU	HI	96817-3631

RESIDENT	1450 AALA ST APT 1503	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1504	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1505	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1506	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1601	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1602	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1603	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1604	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1605	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1606	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1701	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1702	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1703	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1704	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1705	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1706	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1801	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1802	HONOLULU	HI	96817-3631
RESIDENT	1450 AALA ST APT 1803	HONOLULU	HI	96817-3627
RESIDENT	1450 AALA ST APT 1804	HONOLULU	HI	96817-3627
RESIDENT	1450 AALA ST APT 1805	HONOLULU	HI	96817-3627
RESIDENT	1450 AALA ST APT 1806	HONOLULU	HI	96817-3627
RESIDENT	1450 AALA ST APT 1901	HONOLULU	HI	96817-3627
RESIDENT	1450 AALA ST APT 1902	HONOLULU	HI	96817-3627
RESIDENT	1450 AALA ST APT 1903	HONOLULU	HI	96817-3627
RESIDENT	1450 AALA ST APT 1904	HONOLULU	HI	96817-3627
RESIDENT	1450 AALA ST APT 1905	HONOLULU	HI	96817-3627
RESIDENT	1450 AALA ST APT 2001	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2002	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2003	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2004	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2005	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2006	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2101	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2102	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2103	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2104	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2105	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2106	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2201	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2202	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2203	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2204	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2205	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2206	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2301	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2302	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2303	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2304	HONOLULU	HI	96817-3606

RESIDENT	1450 AALA ST APT 2305	HONOLULU	HI	96817-3606
RESIDENT	1450 AALA ST APT 2306	HONOLULU	HI	96817-3606
BUSINESS OCCUPANT	1450 AALA ST STE 100	HONOLULU	HI	96817-3606
BUSINESS OCCUPANT	675 N KING ST STE 200	HONOLULU	HI	96817-4526
RESIDENT	675 N KING ST APT 300	HONOLULU	HI	96817-4526
BUSINESS OCCUPANT	663 N KING ST	HONOLULU	HI	96817-4510
BUSINESS OCCUPANT	580 N KING ST	HONOLULU	HI	96817-4603
BUSINESS OCCUPANT	582 N KING ST	HONOLULU	HI	96817-4603
BUSINESS OCCUPANT	590 N KING ST	HONOLULU	HI	96817-4603
BUSINESS OCCUPANT	594 N KING ST	HONOLULU	HI	96817-4603
BUSINESS OCCUPANT	594 N KING ST	HONOLULU	HI	96817-4603
RESIDENT	607 N KING ST APT 100	HONOLULU	HI	96817-5718
RESIDENT	607 N KING ST APT 102	HONOLULU	HI	96817-5718
RESIDENT	607 N KING ST APT 103	HONOLULU	HI	96817-5718
RESIDENT	607 N KING ST APT 104	HONOLULU	HI	96817-5718
RESIDENT	607 N KING ST APT 105	HONOLULU	HI	96817-5718
RESIDENT	607 N KING ST APT 107	HONOLULU	HI	96817-5718
RESIDENT	607 N KING ST APT 108	HONOLULU	HI	96817-5718
RESIDENT	607 N KING ST APT 109	HONOLULU	HI	96817-5718
RESIDENT	607 N KING ST APT 110	HONOLULU	HI	96817-5734
RESIDENT	607 N KING ST APT 111	HONOLULU	HI	96817-5734
RESIDENT	607 N KING ST APT 112	HONOLULU	HI	96817-5734
RESIDENT	607 N KING ST APT 113	HONOLULU	HI	96817-5705
RESIDENT	607 N KING ST APT 114	HONOLULU	HI	96817-5734
RESIDENT	607 N KING ST APT 115	HONOLULU	HI	96817-5734
RESIDENT	607 N KING ST APT 116	HONOLULU	HI	96817-5734
RESIDENT	607 N KING ST APT 117	HONOLULU	HI	96817-5734
RESIDENT	607 N KING ST APT 118	HONOLULU	HI	96817-5734
RESIDENT	607 N KING ST APT 119	HONOLULU	HI	96817-5734
RESIDENT	607 N KING ST APT 120	HONOLULU	HI	96817-5735
RESIDENT	607 N KING ST APT 121	HONOLULU	HI	96817-5735
RESIDENT	607 N KING ST APT 122	HONOLULU	HI	96817-5735
RESIDENT	607 N KING ST APT 124	HONOLULU	HI	96817-5735
RESIDENT	607 N KING ST APT 125	HONOLULU	HI	96817-5735
RESIDENT	607 N KING ST APT 126	HONOLULU	HI	96817-5735
RESIDENT	607 N KING ST APT 127	HONOLULU	HI	96817-5735
RESIDENT	607 N KING ST APT 128	HONOLULU	HI	96817-5735
RESIDENT	607 N KING ST APT 129	HONOLULU	HI	96817-5735
RESIDENT	607 N KING ST APT 130	HONOLULU	HI	96817-5736
RESIDENT	607 N KING ST APT 131	HONOLULU	HI	96817-5719
RESIDENT	607 N KING ST APT 132	HONOLULU	HI	96817-5719
RESIDENT	607 N KING ST APT 133	HONOLULU	HI	96817-5719
RESIDENT	607 N KING ST APT 134	HONOLULU	HI	96817-5719
RESIDENT	607 N KING ST APT 135	HONOLULU	HI	96817-5719
RESIDENT	607 N KING ST APT 136	HONOLULU	HI	96817-5719
RESIDENT	607 N KING ST APT 137	HONOLULU	HI	96817-5719
RESIDENT	607 N KING ST APT 138	HONOLULU	HI	96817-5719
RESIDENT	607 N KING ST APT 141	HONOLULU	HI	96817-5739
RESIDENT	607 N KING ST APT 200	HONOLULU	HI	96817-5738

RESIDENT	607 N KING ST APT 201	HONOLULU	HI	96817-5738
RESIDENT	607 N KING ST APT 202	HONOLULU	HI	96817-5738
RESIDENT	607 N KING ST APT 203	HONOLULU	HI	96817-5738
RESIDENT	607 N KING ST APT 204	HONOLULU	HI	96817-5738
RESIDENT	607 N KING ST APT 205	HONOLULU	HI	96817-5738
RESIDENT	607 N KING ST APT 206	HONOLULU	HI	96817-5738
RESIDENT	607 N KING ST APT 208	HONOLULU	HI	96817-5738
RESIDENT	607 N KING ST APT 209	HONOLULU	HI	96817-5738
RESIDENT	607 N KING ST APT 210	HONOLULU	HI	96817-5737
RESIDENT	607 N KING ST APT 211	HONOLULU	HI	96817-5737
RESIDENT	607 N KING ST APT 212	HONOLULU	HI	96817-5737
RESIDENT	607 N KING ST APT 213	HONOLULU	HI	96817-5737
RESIDENT	607 N KING ST APT 214	HONOLULU	HI	96817-5737
RESIDENT	607 N KING ST APT 215	HONOLULU	HI	96817-5737
RESIDENT	607 N KING ST APT 216	HONOLULU	HI	96817-5737
RESIDENT	607 N KING ST APT 217	HONOLULU	HI	96817-5737
RESIDENT	607 N KING ST APT 218	HONOLULU	HI	96817-5737
RESIDENT	607 N KING ST APT 219	HONOLULU	HI	96817-5737
RESIDENT	607 N KING ST APT 220	HONOLULU	HI	96817-5720
RESIDENT	607 N KING ST APT 221	HONOLULU	HI	96817-5720
RESIDENT	607 N KING ST APT 222	HONOLULU	HI	96817-5720
RESIDENT	607 N KING ST APT 223	HONOLULU	HI	96817-5720
RESIDENT	607 N KING ST APT 224	HONOLULU	HI	96817-5720
RESIDENT	607 N KING ST APT 225	HONOLULU	HI	96817-5720
RESIDENT	607 N KING ST APT 226	HONOLULU	HI	96817-5720
RESIDENT	607 N KING ST APT 227	HONOLULU	HI	96817-5720
RESIDENT	607 N KING ST APT 228	HONOLULU	HI	96817-5720
RESIDENT	607 N KING ST APT 229	HONOLULU	HI	96817-5720
RESIDENT	607 N KING ST APT 230	HONOLULU	HI	96817-5740
RESIDENT	607 N KING ST APT 231	HONOLULU	HI	96817-5740
RESIDENT	607 N KING ST APT 232	HONOLULU	HI	96817-5740
RESIDENT	607 N KING ST APT 233	HONOLULU	HI	96817-5740
RESIDENT	607 N KING ST APT 234	HONOLULU	HI	96817-5740
RESIDENT	607 N KING ST APT 235	HONOLULU	HI	96817-5740
RESIDENT	607 N KING ST APT 236	HONOLULU	HI	96817-5740
RESIDENT	607 N KING ST APT 237	HONOLULU	HI	96817-5740
RESIDENT	607 N KING ST APT 238	HONOLULU	HI	96817-5740
RESIDENT	607 N KING ST APT 239	HONOLULU	HI	96817-5740
RESIDENT	607 N KING ST APT 240	HONOLULU	HI	96817-5741
RESIDENT	607 N KING ST APT 241	HONOLULU	HI	96817-5741
RESIDENT	607 N KING ST APT 242	HONOLULU	HI	96817-5741
RESIDENT	607 N KING ST APT 243	HONOLULU	HI	96817-5741
RESIDENT	607 N KING ST APT 244	HONOLULU	HI	96817-5741
RESIDENT	607 N KING ST APT 245	HONOLULU	HI	96817-5741
RESIDENT	607 N KING ST APT 246	HONOLULU	HI	96817-5741
RESIDENT	607 N KING ST APT 247	HONOLULU	HI	96817-5741
RESIDENT	607 N KING ST APT 248	HONOLULU	HI	96817-5741
RESIDENT	607 N KING ST APT 249	HONOLULU	HI	96817-5721
RESIDENT	607 N KING ST APT 250	HONOLULU	HI	96817-5721

RESIDENT	607 N KING ST APT 251	HONOLULU	HI	96817-5721
RESIDENT	607 N KING ST APT 252	HONOLULU	HI	96817-5721
RESIDENT	607 N KING ST APT 253	HONOLULU	HI	96817-5721
RESIDENT	607 N KING ST APT 254	HONOLULU	HI	96817-5721
RESIDENT	607 N KING ST APT 255	HONOLULU	HI	96817-5721
RESIDENT	607 N KING ST APT 256	HONOLULU	HI	96817-5721
RESIDENT	607 N KING ST APT 257	HONOLULU	HI	96817-5721
RESIDENT	607 N KING ST APT 258	HONOLULU	HI	96817-5721
RESIDENT	607 N KING ST APT 259	HONOLULU	HI	96817-5707
RESIDENT	607 N KING ST APT 260	HONOLULU	HI	96817-5746
RESIDENT	607 N KING ST APT 261	HONOLULU	HI	96817-5746
RESIDENT	607 N KING ST APT 262	HONOLULU	HI	96817-5746
RESIDENT	607 N KING ST APT 263	HONOLULU	HI	96817-5746
RESIDENT	607 N KING ST APT 264	HONOLULU	HI	96817-5746
RESIDENT	607 N KING ST APT 265	HONOLULU	HI	96817-5746
RESIDENT	607 N KING ST APT 266	HONOLULU	HI	96817-5746
RESIDENT	607 N KING ST APT 267	HONOLULU	HI	96817-5746
RESIDENT	607 N KING ST APT 268	HONOLULU	HI	96817-5746
RESIDENT	607 N KING ST APT 269	HONOLULU	HI	96817-5746
RESIDENT	607 N KING ST APT 271	HONOLULU	HI	96817-5745
RESIDENT	607 N KING ST APT 272	HONOLULU	HI	96817-5745
RESIDENT	607 N KING ST APT 273	HONOLULU	HI	96817-5745
RESIDENT	607 N KING ST APT 275	HONOLULU	HI	96817-5745
RESIDENT	607 N KING ST APT 277	HONOLULU	HI	96817-5745
RESIDENT	607 N KING ST APT 279	HONOLULU	HI	96817-5745
RESIDENT	607 N KING ST APT 281	HONOLULU	HI	96817-5744
RESIDENT	607 N KING ST APT 283	HONOLULU	HI	96817-5762
RESIDENT	607 N KING ST APT 285	HONOLULU	HI	96817-5762
RESIDENT	607 N KING ST APT 287	HONOLULU	HI	96817-5762
RESIDENT	607 N KING ST APT 289	HONOLULU	HI	96817-5762
RESIDENT	607 N KING ST APT 300	HONOLULU	HI	96817-5722
RESIDENT	607 N KING ST APT 301	HONOLULU	HI	96817-5722
RESIDENT	607 N KING ST APT 302	HONOLULU	HI	96817-5722
RESIDENT	607 N KING ST APT 303	HONOLULU	HI	96817-5722
RESIDENT	607 N KING ST APT 304	HONOLULU	HI	96817-5722
RESIDENT	607 N KING ST APT 305	HONOLULU	HI	96817-5722
RESIDENT	607 N KING ST APT 306	HONOLULU	HI	96817-5722
RESIDENT	607 N KING ST APT 307	HONOLULU	HI	96817-5722
RESIDENT	607 N KING ST APT 308	HONOLULU	HI	96817-5722
RESIDENT	607 N KING ST APT 309	HONOLULU	HI	96817-5722
RESIDENT	607 N KING ST APT 310	HONOLULU	HI	96817-5743
RESIDENT	607 N KING ST APT 311	HONOLULU	HI	96817-5743
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RESIDENT	607 N KING ST APT 313	HONOLULU	HI	96817-5743
RESIDENT	607 N KING ST APT 314	HONOLULU	HI	96817-5743
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RESIDENT	607 N KING ST APT 316	HONOLULU	HI	96817-5743
RESIDENT	607 N KING ST APT 317	HONOLULU	HI	96817-5743
RESIDENT	607 N KING ST APT 318	HONOLULU	HI	96817-5743

RESIDENT	607 N KING ST APT 319	HONOLULU	HI	96817-5743
RESIDENT	607 N KING ST APT 320	HONOLULU	HI	96817-5742
RESIDENT	607 N KING ST APT 321	HONOLULU	HI	96817-5742
RESIDENT	607 N KING ST APT 322	HONOLULU	HI	96817-5742
RESIDENT	607 N KING ST APT 323	HONOLULU	HI	96817-5742
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RESIDENT	607 N KING ST APT 325	HONOLULU	HI	96817-5761
RESIDENT	607 N KING ST APT 326	HONOLULU	HI	96817-5761
RESIDENT	607 N KING ST APT 327	HONOLULU	HI	96817-5761
RESIDENT	607 N KING ST APT 328	HONOLULU	HI	96817-5761
RESIDENT	607 N KING ST APT 329	HONOLULU	HI	96817-5761
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RESIDENT	607 N KING ST APT 331	HONOLULU	HI	96817-5723
RESIDENT	607 N KING ST APT 332	HONOLULU	HI	96817-5723
RESIDENT	607 N KING ST APT 333	HONOLULU	HI	96817-5723
RESIDENT	607 N KING ST APT 334	HONOLULU	HI	96817-5723
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RESIDENT	607 N KING ST APT 336	HONOLULU	HI	96817-5723
RESIDENT	607 N KING ST APT 337	HONOLULU	HI	96817-5723
RESIDENT	607 N KING ST APT 338	HONOLULU	HI	96817-5723
RESIDENT	607 N KING ST APT 339	HONOLULU	HI	96817-5723
RESIDENT	607 N KING ST APT 340	HONOLULU	HI	96817-5748
RESIDENT	607 N KING ST APT 341	HONOLULU	HI	96817-5748
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RESIDENT	607 N KING ST APT 348	HONOLULU	HI	96817-5748
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RESIDENT	607 N KING ST APT 350	HONOLULU	HI	96817-5747
RESIDENT	607 N KING ST APT 351	HONOLULU	HI	96817-5747
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RESIDENT	607 N KING ST APT 353	HONOLULU	HI	96817-5747
RESIDENT	607 N KING ST APT 354	HONOLULU	HI	96817-5747
RESIDENT	607 N KING ST APT 355	HONOLULU	HI	96817-5747
RESIDENT	607 N KING ST APT 356	HONOLULU	HI	96817-5752
RESIDENT	607 N KING ST APT 357	HONOLULU	HI	96817-5752
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RESIDENT	607 N KING ST APT 359	HONOLULU	HI	96817-5752
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RESIDENT	607 N KING ST APT 363	HONOLULU	HI	96817-5724
RESIDENT	607 N KING ST APT 364	HONOLULU	HI	96817-5724
RESIDENT	607 N KING ST APT 365	HONOLULU	HI	96817-5724
RESIDENT	607 N KING ST APT 366	HONOLULU	HI	96817-5724
RESIDENT	607 N KING ST APT 367	HONOLULU	HI	96817-5724

RESIDENT	607 N KING ST APT 368	HONOLULU	HI	96817-5724
RESIDENT	607 N KING ST APT 369	HONOLULU	HI	96817-5724
RESIDENT	607 N KING ST APT 370	HONOLULU	HI	96817-5751
RESIDENT	607 N KING ST APT 371	HONOLULU	HI	96817-5751
RESIDENT	607 N KING ST APT 372	HONOLULU	HI	96817-5751
RESIDENT	607 N KING ST APT 373	HONOLULU	HI	96817-5751
RESIDENT	607 N KING ST APT 375	HONOLULU	HI	96817-5751
RESIDENT	607 N KING ST APT 377	HONOLULU	HI	96817-5751
RESIDENT	607 N KING ST APT 379	HONOLULU	HI	96817-5751
RESIDENT	607 N KING ST APT 381	HONOLULU	HI	96817-5750
RESIDENT	607 N KING ST APT 383	HONOLULU	HI	96817-5750
RESIDENT	607 N KING ST APT 385	HONOLULU	HI	96817-5750
RESIDENT	607 N KING ST APT 387	HONOLULU	HI	96817-5750
RESIDENT	607 N KING ST APT 389	HONOLULU	HI	96817-5750
RESIDENT	607 N KING ST APT 400	HONOLULU	HI	96817-5749
RESIDENT	607 N KING ST APT 401	HONOLULU	HI	96817-5749
RESIDENT	607 N KING ST APT 402	HONOLULU	HI	96817-5749
RESIDENT	607 N KING ST APT 403	HONOLULU	HI	96817-5755
RESIDENT	607 N KING ST APT 404	HONOLULU	HI	96817-5755
RESIDENT	607 N KING ST APT 405	HONOLULU	HI	96817-5755
RESIDENT	607 N KING ST APT 407	HONOLULU	HI	96817-5755
RESIDENT	607 N KING ST APT 408	HONOLULU	HI	96817-5755
RESIDENT	607 N KING ST APT 409	HONOLULU	HI	96817-5755
RESIDENT	607 N KING ST APT 410	HONOLULU	HI	96817-5725
RESIDENT	607 N KING ST APT 411	HONOLULU	HI	96817-5725
RESIDENT	607 N KING ST APT 412	HONOLULU	HI	96817-5725
RESIDENT	607 N KING ST APT 413	HONOLULU	HI	96817-5725
RESIDENT	607 N KING ST APT 414	HONOLULU	HI	96817-5725
RESIDENT	607 N KING ST APT 415	HONOLULU	HI	96817-5725
RESIDENT	607 N KING ST APT 416	HONOLULU	HI	96817-5725
RESIDENT	607 N KING ST APT 417	HONOLULU	HI	96817-5725
RESIDENT	607 N KING ST APT 418	HONOLULU	HI	96817-5725
RESIDENT	607 N KING ST APT 419	HONOLULU	HI	96817-5725
RESIDENT	607 N KING ST APT 420	HONOLULU	HI	96817-5754
RESIDENT	607 N KING ST APT 421	HONOLULU	HI	96817-5754
RESIDENT	607 N KING ST APT 422	HONOLULU	HI	96817-5754
RESIDENT	607 N KING ST APT 423	HONOLULU	HI	96817-5754
RESIDENT	607 N KING ST APT 424	HONOLULU	HI	96817-5754
RESIDENT	607 N KING ST APT 425	HONOLULU	HI	96817-5754
RESIDENT	607 N KING ST APT 426	HONOLULU	HI	96817-5754
RESIDENT	607 N KING ST APT 427	HONOLULU	HI	96817-5754
RESIDENT	607 N KING ST APT 428	HONOLULU	HI	96817-5754
RESIDENT	607 N KING ST APT 429	HONOLULU	HI	96817-5754
RESIDENT	607 N KING ST APT 431	HONOLULU	HI	96817-5753
RESIDENT	607 N KING ST APT 432	HONOLULU	HI	96817-5753
RESIDENT	607 N KING ST APT 433	HONOLULU	HI	96817-5767
RESIDENT	607 N KING ST APT 434	HONOLULU	HI	96817-5767
RESIDENT	607 N KING ST APT 435	HONOLULU	HI	96817-5756
RESIDENT	607 N KING ST APT 436	HONOLULU	HI	96817-5756

RESIDENT	607 N KING ST APT 437	HONOLULU	HI	96817-5756
RESIDENT	607 N KING ST APT 438	HONOLULU	HI	96817-5756
RESIDENT	607 N KING ST APT 439	HONOLULU	HI	96817-5756
RESIDENT	607 N KING ST APT 440	HONOLULU	HI	96817-5726
RESIDENT	607 N KING ST APT 441	HONOLULU	HI	96817-5726
RESIDENT	607 N KING ST APT 442	HONOLULU	HI	96817-5726
RESIDENT	607 N KING ST APT 443	HONOLULU	HI	96817-5726
RESIDENT	607 N KING ST APT 444	HONOLULU	HI	96817-5726
RESIDENT	607 N KING ST APT 445	HONOLULU	HI	96817-5708
RESIDENT	607 N KING ST APT 446	HONOLULU	HI	96817-5708
RESIDENT	607 N KING ST APT 447	HONOLULU	HI	96817-5708
RESIDENT	607 N KING ST APT 448	HONOLULU	HI	96817-5708
RESIDENT	607 N KING ST APT 449	HONOLULU	HI	96817-5708
RESIDENT	607 N KING ST APT 450	HONOLULU	HI	96817-5757
RESIDENT	607 N KING ST APT 451	HONOLULU	HI	96817-5757
RESIDENT	607 N KING ST APT 452	HONOLULU	HI	96817-5757
RESIDENT	607 N KING ST APT 453	HONOLULU	HI	96817-5757
RESIDENT	607 N KING ST APT 454	HONOLULU	HI	96817-5757
RESIDENT	607 N KING ST APT 455	HONOLULU	HI	96817-5757
RESIDENT	607 N KING ST APT 456	HONOLULU	HI	96817-5757
RESIDENT	607 N KING ST APT 457	HONOLULU	HI	96817-5757
RESIDENT	607 N KING ST APT 458	HONOLULU	HI	96817-5757
RESIDENT	607 N KING ST APT 459	HONOLULU	HI	96817-5757
RESIDENT	607 N KING ST APT 460	HONOLULU	HI	96817-5758
RESIDENT	607 N KING ST APT 461	HONOLULU	HI	96817-5758
RESIDENT	607 N KING ST APT 462	HONOLULU	HI	96817-5760
RESIDENT	607 N KING ST APT 463	HONOLULU	HI	96817-5760
RESIDENT	607 N KING ST APT 464	HONOLULU	HI	96817-5760
RESIDENT	607 N KING ST APT 465	HONOLULU	HI	96817-5760
RESIDENT	607 N KING ST APT 466	HONOLULU	HI	96817-5760
RESIDENT	607 N KING ST APT 467	HONOLULU	HI	96817-5760
RESIDENT	607 N KING ST APT 468	HONOLULU	HI	96817-5760
RESIDENT	607 N KING ST APT 469	HONOLULU	HI	96817-5760
RESIDENT	607 N KING ST APT 470	HONOLULU	HI	96817-5727
RESIDENT	607 N KING ST APT 471	HONOLULU	HI	96817-5727
RESIDENT	607 N KING ST APT 472	HONOLULU	HI	96817-5727
RESIDENT	607 N KING ST APT 473	HONOLULU	HI	96817-5727
RESIDENT	607 N KING ST APT 475	HONOLULU	HI	96817-5727
RESIDENT	607 N KING ST APT 477	HONOLULU	HI	96817-5727
RESIDENT	607 N KING ST APT 479	HONOLULU	HI	96817-5727
RESIDENT	607 N KING ST APT 481	HONOLULU	HI	96817-5759
RESIDENT	607 N KING ST APT 485	HONOLULU	HI	96817-5759
RESIDENT	607 N KING ST APT 487	HONOLULU	HI	96817-5759
RESIDENT	607 N KING ST APT 489	HONOLULU	HI	96817-5759
RESIDENT	607 N KING ST APT 139	HONOLULU	HI	96817-5759
BUSINESS OCCUPANT	607 N KING ST OFC	HONOLULU	HI	96817-5718
BUSINESS OCCUPANT	609 N KING ST	HONOLULU	HI	96817-4509
BUSINESS OCCUPANT	555 N KING ST STE 102	HONOLULU	HI	96817-4649
BUSINESS OCCUPANT	555 N KING ST STE 103	HONOLULU	HI	96817-4649

BUSINESS OCCUPANT	555 N KING ST STE 104	HONOLULU	HI	96817-4649
BUSINESS OCCUPANT	555 N KING ST STE 105	HONOLULU	HI	96817-4649
BUSINESS OCCUPANT	555 N KING ST STE 106	HONOLULU	HI	96817-4649
BUSINESS OCCUPANT	555 N KING ST STE 107	HONOLULU	HI	96817-4649
BUSINESS OCCUPANT	555 N KING ST STE 108	HONOLULU	HI	96817-4649
RESIDENT	555 N KING ST APT 201	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 202	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 203	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 204	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 205	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 207	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 208	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 209	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 210	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 211	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 212	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 213	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 214	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 215	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 217	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 218	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 219	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 220	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 221	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 222	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 223	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 224	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT 225	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT B11	HONOLULU	HI	96817-4600
RESIDENT	555 N KING ST APT B12	HONOLULU	HI	96817-4600
BUSINESS OCCUPANT	555 N KING ST STE 109	HONOLULU	HI	96817-4649
BUSINESS OCCUPANT	555 N KING ST STE 110	HONOLULU	HI	96817-4649
BUSINESS OCCUPANT	555 N KING ST STE 111	HONOLULU	HI	96817-4649
BUSINESS OCCUPANT	555 N KING ST STE 115	HONOLULU	HI	96817-4649
BUSINESS OCCUPANT	555 N KING ST STE A	HONOLULU	HI	96817-4649
BUSINESS OCCUPANT	555 N KING ST	HONOLULU	HI	96817-4604
BUSINESS OCCUPANT	570 DILLINGHAM BLVD STE 100	HONOLULU	HI	96817-6603
BUSINESS OCCUPANT	580 DILLINGHAM BLVD STE 1	HONOLULU	HI	96817-4601
BUSINESS OCCUPANT	590 DILLINGHAM BLVD STE F	HONOLULU	HI	96817-4692
BUSINESS OCCUPANT	590 DILLINGHAM BLVD STE B	HONOLULU	HI	96817-4692
BUSINESS OCCUPANT	590 DILLINGHAM BLVD STE D	HONOLULU	HI	96817-4692
BUSINESS OCCUPANT	590 DILLINGHAM BLVD STE E	HONOLULU	HI	96817-4692
BUSINESS OCCUPANT	602 DILLINGHAM BLVD	HONOLULU	HI	96817-4504
BUSINESS OCCUPANT	620 DILLINGHAM BLVD	HONOLULU	HI	96817-4504
BUSINESS OCCUPANT	525 KAAAHI ST	HONOLULU	HI	96817-4634
BUSINESS OCCUPANT	519 KAAAHI ST	HONOLULU	HI	96817-4634
BUSINESS OCCUPANT	513 KAAAHI ST	HONOLULU	HI	96817-4634
BUSINESS OCCUPANT	916 KAAAHI PL STE A	HONOLULU	HI	96817-6604
BUSINESS OCCUPANT	916 KAAAHI PL STE A	HONOLULU	HI	96817-6604

BUSINESS OCCUPANT	916 KAAAHI PL STE A	HONOLULU	HI	96817-6604
BUSINESS OCCUPANT	914 KAAAHI PL STE B	HONOLULU	HI	96817-4607
BUSINESS OCCUPANT	914 KAAAHI PL STE B	HONOLULU	HI	96817-4607
BUSINESS OCCUPANT	914 KAAAHI PL STE B	HONOLULU	HI	96817-4607
BUSINESS OCCUPANT	906 KAAAHI PL	HONOLULU	HI	96817-4607
BUSINESS OCCUPANT	581 DILLINGHAM BLVD STE A	HONOLULU	HI	96817-4602
BUSINESS OCCUPANT	581 DILLINGHAM BLVD STE B	HONOLULU	HI	96817-4602
BUSINESS OCCUPANT	551 DILLINGHAM BLVD	HONOLULU	HI	96817-4602
BUSINESS OCCUPANT	535 DILLINGHAM BLVD	HONOLULU	HI	96817-4602
BUSINESS OCCUPANT	525 N KING ST	HONOLULU	HI	96817-4604
BUSINESS OCCUPANT	477 N KING ST	HONOLULU	HI	96817-4704
BUSINESS OCCUPANT	445 N KING ST	HONOLULU	HI	96817-4704
RESIDENT	419 N KING ST APT 2	HONOLULU	HI	96817-4787
RESIDENT	419 N KING ST APT 4	HONOLULU	HI	96817-4787
RESIDENT	419 N KING ST APT 6	HONOLULU	HI	96817-4787
RESIDENT	419 N KING ST APT 8	HONOLULU	HI	96817-4787
RESIDENT	419 N KING ST APT 10	HONOLULU	HI	96817-4787
RESIDENT	419 N KING ST APT 12	HONOLULU	HI	96817-4787
RESIDENT	419 N KING ST APT 1	HONOLULU	HI	96817-4790
RESIDENT	419 N KING ST APT 3	HONOLULU	HI	96817-4790
RESIDENT	419 N KING ST APT 5	HONOLULU	HI	96817-4790
RESIDENT	419 N KING ST APT 7	HONOLULU	HI	96817-4790
RESIDENT	419 N KING ST APT 9	HONOLULU	HI	96817-4790
RESIDENT	419 N KING ST APT 11	HONOLULU	HI	96817-4790
RESIDENT	419 N KING ST APT 13	HONOLULU	HI	96817-4790
RESIDENT	419 N KING ST APT 14	HONOLULU	HI	96817-4766
RESIDENT	419 N KING ST APT 16	HONOLULU	HI	96817-4766
RESIDENT	419 N KING ST APT 18	HONOLULU	HI	96817-4766
RESIDENT	419 N KING ST APT 20	HONOLULU	HI	96817-4766
RESIDENT	419 N KING ST APT 17	HONOLULU	HI	96817-4794
RESIDENT	419 N KING ST APT 19	HONOLULU	HI	96817-4794
BUSINESS OCCUPANT	415 N KING ST	HONOLULU	HI	96817-4704
RESIDENT	407 N KING ST APT F4	HONOLULU	HI	96817-4729
RESIDENT	407 N KING ST APT F1	HONOLULU	HI	96817-4729
RESIDENT	407 N KING ST APT F2	HONOLULU	HI	96817-4729
RESIDENT	407 N KING ST APT F3	HONOLULU	HI	96817-4729
RESIDENT	407 N KING ST APT E4	HONOLULU	HI	96817-4729
RESIDENT	407 N KING ST APT E1	HONOLULU	HI	96817-4729
RESIDENT	407 N KING ST APT E2	HONOLULU	HI	96817-4729
RESIDENT	407 N KING ST APT E3	HONOLULU	HI	96817-4729
RESIDENT	407 N KING ST APT B1	HONOLULU	HI	96817-4729
RESIDENT	407 N KING ST APT B2	HONOLULU	HI	96817-4729
RESIDENT	407 N KING ST APT A3	HONOLULU	HI	96817-4729
RESIDENT	407 N KING ST APT A2	HONOLULU	HI	96817-4729
RESIDENT	407 N KING ST APT A1	HONOLULU	HI	96817-4729
RESIDENT	407 N KING ST APT A4	HONOLULU	HI	96817-4729
RESIDENT	417 N KING ST APT 22	HONOLULU	HI	96817-4796
RESIDENT	417 N KING ST APT 24	HONOLULU	HI	96817-4796
RESIDENT	417 N KING ST APT 21	HONOLULU	HI	96817-4799

RESIDENT	417 N KING ST APT 23	HONOLULU	HI	96817-4799
RESIDENT	417 N KING ST APT 25	HONOLULU	HI	96817-4799
RESIDENT	417 N KING ST APT 27	HONOLULU	HI	96817-4799
RESIDENT	417 N KING ST APT 29	HONOLULU	HI	96817-4799
RESIDENT	417 N KING ST APT 28	HONOLULU	HI	96817-4792
RESIDENT	417 N KING ST APT 30	HONOLULU	HI	96817-4792
RESIDENT	417 N KING ST APT 32	HONOLULU	HI	96817-4792
RESIDENT	417 N KING ST APT 34	HONOLULU	HI	96817-4792
RESIDENT	417 N KING ST APT 36	HONOLULU	HI	96817-4792
RESIDENT	417 N KING ST APT 38	HONOLULU	HI	96817-4792
RESIDENT	417 N KING ST APT 40	HONOLULU	HI	96817-4792
RESIDENT	417 N KING ST APT 31	HONOLULU	HI	96817-4769
RESIDENT	417 N KING ST APT 33	HONOLULU	HI	96817-4769
RESIDENT	417 N KING ST APT 35	HONOLULU	HI	96817-4769
RESIDENT	417 N KING ST APT 37	HONOLULU	HI	96817-4769
RESIDENT	417 N KING ST APT 39	HONOLULU	HI	96817-4769
RESIDENT	417 N KING ST APT 41	HONOLULU	HI	96817-4769
RESIDENT	417 N KING ST APT 42	HONOLULU	HI	96817-4769
BUSINESS OCCUPANT	395 N KING ST	HONOLULU	HI	96817-4702
BUSINESS OCCUPANT	395 N KING ST STE 10	HONOLULU	HI	96817-6712
BUSINESS OCCUPANT	399 N KING ST	HONOLULU	HI	96817-4702
BUSINESS OCCUPANT	403 N KING ST	HONOLULU	HI	96817-4704
BUSINESS OCCUPANT	409 N KING ST	HONOLULU	HI	96817-4704
BUSINESS OCCUPANT	411 N KING ST	HONOLULU	HI	96817-4704
BUSINESS OCCUPANT	421 N KING ST	HONOLULU	HI	96817-4704
BUSINESS OCCUPANT	423 N KING ST	HONOLULU	HI	96817-4704
BUSINESS OCCUPANT	425 N KING ST	HONOLULU	HI	96817-4704
BUSINESS OCCUPANT	355 N KING ST	HONOLULU	HI	96817-4702
BUSINESS OCCUPANT	357 N KING ST	HONOLULU	HI	96817-4702
BUSINESS OCCUPANT	333 N KING ST	HONOLULU	HI	96817-4702
BUSINESS OCCUPANT	333 N KING ST STE 100	HONOLULU	HI	96817-4707
BUSINESS OCCUPANT	333 N KING ST STE 100	HONOLULU	HI	96817-4707
BUSINESS OCCUPANT	333 N KING ST STE 100	HONOLULU	HI	96817-4707
BUSINESS OCCUPANT	333 N KING ST STE 100	HONOLULU	HI	96817-4707
RESIDENT	1023 DESHA LN APT 1	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 6	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 7	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 8	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 9	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 10	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 11	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 12	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 13	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 14	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 15	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 16	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 18	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 19	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 20	HONOLULU	HI	96817-4615

RESIDENT	1023 DESHA LN APT 21	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 22	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 23	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 24	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 26	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 27	HONOLULU	HI	96817-4615
RESIDENT	1023 DESHA LN APT 28	HONOLULU	HI	96817-4615
BUSINESS OCCUPANT	600 N KING ST	HONOLULU	HI	96817-4508
BUSINESS OCCUPANT	624 N KING ST	HONOLULU	HI	96817-4508
BUSINESS OCCUPANT	626 N KING ST	HONOLULU	HI	96817-4508
BUSINESS OCCUPANT	628 N KING ST	HONOLULU	HI	96817-4508
BUSINESS OCCUPANT	638 N KING ST	HONOLULU	HI	96817-4508
BUSINESS OCCUPANT	666 N KING ST	HONOLULU	HI	96817-4508
RESIDENT	350 N BERETANIA ST APT 101	HONOLULU	HI	96817-4719
RESIDENT	350 N BERETANIA ST APT 102	HONOLULU	HI	96817-4719
RESIDENT	350 N BERETANIA ST APT 103	HONOLULU	HI	96817-4719
RESIDENT	350 N BERETANIA ST APT 104	HONOLULU	HI	96817-4719
RESIDENT	350 N BERETANIA ST APT 105	HONOLULU	HI	96817-4719
RESIDENT	350 N BERETANIA ST APT 106	HONOLULU	HI	96817-4719
RESIDENT	350 N BERETANIA ST APT 107	HONOLULU	HI	96817-4719
RESIDENT	350 N BERETANIA ST APT 109	HONOLULU	HI	96817-4719
RESIDENT	350 N BERETANIA ST APT 201	HONOLULU	HI	96817-4719
RESIDENT	350 N BERETANIA ST APT 202	HONOLULU	HI	96817-4719
RESIDENT	350 N BERETANIA ST APT 203	HONOLULU	HI	96817-4719
RESIDENT	350 N BERETANIA ST APT 204	HONOLULU	HI	96817-4719
RESIDENT	350 N BERETANIA ST APT 205	HONOLULU	HI	96817-4719
RESIDENT	350 N BERETANIA ST APT 206	HONOLULU	HI	96817-4719
RESIDENT	350 N BERETANIA ST APT 207	HONOLULU	HI	96817-4719
RESIDENT	350 N BERETANIA ST APT 208	HONOLULU	HI	96817-4720
RESIDENT	350 N BERETANIA ST APT 209	HONOLULU	HI	96817-4720
RESIDENT	350 N BERETANIA ST APT 301	HONOLULU	HI	96817-4720
RESIDENT	350 N BERETANIA ST APT 302	HONOLULU	HI	96817-4720
RESIDENT	350 N BERETANIA ST APT 303	HONOLULU	HI	96817-4720
RESIDENT	350 N BERETANIA ST APT 304	HONOLULU	HI	96817-4720
RESIDENT	350 N BERETANIA ST APT 305	HONOLULU	HI	96817-4720
RESIDENT	350 N BERETANIA ST APT 306	HONOLULU	HI	96817-4720
RESIDENT	350 N BERETANIA ST APT 308	HONOLULU	HI	96817-4720
RESIDENT	350 N BERETANIA ST APT 309	HONOLULU	HI	96817-4720
RESIDENT	360 N BERETANIA ST APT 101	HONOLULU	HI	96817-4721
RESIDENT	360 N BERETANIA ST APT 102	HONOLULU	HI	96817-4721
RESIDENT	360 N BERETANIA ST APT 103	HONOLULU	HI	96817-4721
RESIDENT	360 N BERETANIA ST APT 104	HONOLULU	HI	96817-4721
RESIDENT	360 N BERETANIA ST APT 105	HONOLULU	HI	96817-4721
RESIDENT	360 N BERETANIA ST APT 106	HONOLULU	HI	96817-4725
RESIDENT	360 N BERETANIA ST APT 107	HONOLULU	HI	96817-4725
RESIDENT	360 N BERETANIA ST APT 108	HONOLULU	HI	96817-4725
RESIDENT	360 N BERETANIA ST APT 109	HONOLULU	HI	96817-4725
RESIDENT	360 N BERETANIA ST APT 110	HONOLULU	HI	96817-4725
RESIDENT	360 N BERETANIA ST APT 201	HONOLULU	HI	96817-4725

RESIDENT	360 N BERETANIA ST APT 202	HONOLULU	HI	96817-4725
RESIDENT	360 N BERETANIA ST APT 203	HONOLULU	HI	96817-4725
RESIDENT	360 N BERETANIA ST APT 204	HONOLULU	HI	96817-4725
RESIDENT	360 N BERETANIA ST APT 205	HONOLULU	HI	96817-4725
RESIDENT	360 N BERETANIA ST APT 206	HONOLULU	HI	96817-4725
RESIDENT	360 N BERETANIA ST APT 207	HONOLULU	HI	96817-4725
RESIDENT	360 N BERETANIA ST APT 208	HONOLULU	HI	96817-4725
RESIDENT	360 N BERETANIA ST APT 209	HONOLULU	HI	96817-4725
RESIDENT	360 N BERETANIA ST APT 210	HONOLULU	HI	96817-4725
RESIDENT	360 N BERETANIA ST APT 211	HONOLULU	HI	96817-4725
RESIDENT	360 N BERETANIA ST APT 212	HONOLULU	HI	96817-6700
RESIDENT	370 N BERETANIA ST APT 101	HONOLULU	HI	96817-4732
RESIDENT	370 N BERETANIA ST APT 102	HONOLULU	HI	96817-4732
RESIDENT	370 N BERETANIA ST APT 103	HONOLULU	HI	96817-4732
RESIDENT	370 N BERETANIA ST APT 104	HONOLULU	HI	96817-4723
RESIDENT	370 N BERETANIA ST APT 105	HONOLULU	HI	96817-4723
RESIDENT	370 N BERETANIA ST APT 106	HONOLULU	HI	96817-4723
RESIDENT	370 N BERETANIA ST APT 107	HONOLULU	HI	96817-4723
RESIDENT	370 N BERETANIA ST APT 108	HONOLULU	HI	96817-4723
RESIDENT	370 N BERETANIA ST APT 201	HONOLULU	HI	96817-4723
RESIDENT	370 N BERETANIA ST APT 202	HONOLULU	HI	96817-4723
RESIDENT	370 N BERETANIA ST APT 203	HONOLULU	HI	96817-4723
RESIDENT	370 N BERETANIA ST APT 204	HONOLULU	HI	96817-4723
RESIDENT	370 N BERETANIA ST APT 205	HONOLULU	HI	96817-4723
RESIDENT	370 N BERETANIA ST APT 206	HONOLULU	HI	96817-4723
RESIDENT	370 N BERETANIA ST APT 207	HONOLULU	HI	96817-4723
RESIDENT	370 N BERETANIA ST APT 208	HONOLULU	HI	96817-4726
RESIDENT	370 N BERETANIA ST APT 209	HONOLULU	HI	96817-4726
RESIDENT	370 N BERETANIA ST APT 210	HONOLULU	HI	96817-4726
RESIDENT	370 N BERETANIA ST APT 211	HONOLULU	HI	96817-4726
RESIDENT	370 N BERETANIA ST APT 212	HONOLULU	HI	96817-4726
RESIDENT	380 N BERETANIA ST APT 101	HONOLULU	HI	96817-4743
RESIDENT	380 N BERETANIA ST APT 102	HONOLULU	HI	96817-4743
RESIDENT	380 N BERETANIA ST APT 103	HONOLULU	HI	96817-4743
RESIDENT	380 N BERETANIA ST APT 104	HONOLULU	HI	96817-4743
RESIDENT	380 N BERETANIA ST APT 105	HONOLULU	HI	96817-4743
RESIDENT	380 N BERETANIA ST APT 106	HONOLULU	HI	96817-4743
RESIDENT	380 N BERETANIA ST APT 107	HONOLULU	HI	96817-4743
RESIDENT	380 N BERETANIA ST APT 108	HONOLULU	HI	96817-4743
RESIDENT	380 N BERETANIA ST APT 201	HONOLULU	HI	96817-4743
RESIDENT	380 N BERETANIA ST APT 202	HONOLULU	HI	96817-4743
RESIDENT	380 N BERETANIA ST APT 203	HONOLULU	HI	96817-4743
RESIDENT	380 N BERETANIA ST APT 204	HONOLULU	HI	96817-4727
RESIDENT	380 N BERETANIA ST APT 205	HONOLULU	HI	96817-4727
RESIDENT	380 N BERETANIA ST APT 206	HONOLULU	HI	96817-4727
RESIDENT	380 N BERETANIA ST APT 207	HONOLULU	HI	96817-4727
RESIDENT	380 N BERETANIA ST APT 208	HONOLULU	HI	96817-4727
RESIDENT	380 N BERETANIA ST APT 209	HONOLULU	HI	96817-4727
RESIDENT	380 N BERETANIA ST APT 210	HONOLULU	HI	96817-4727

RESIDENT	380 N BERETANIA ST APT 301	HONOLULU	HI	96817-4727
RESIDENT	380 N BERETANIA ST APT 302	HONOLULU	HI	96817-4727
RESIDENT	380 N BERETANIA ST APT 303	HONOLULU	HI	96817-4727
RESIDENT	380 N BERETANIA ST APT 304	HONOLULU	HI	96817-4727
RESIDENT	380 N BERETANIA ST APT 305	HONOLULU	HI	96817-4727
RESIDENT	380 N BERETANIA ST APT 306	HONOLULU	HI	96817-4727
RESIDENT	402 N BERETANIA ST APT 101	HONOLULU	HI	96817-4736
RESIDENT	402 N BERETANIA ST APT 102	HONOLULU	HI	96817-4736
RESIDENT	402 N BERETANIA ST APT 103	HONOLULU	HI	96817-4736
RESIDENT	402 N BERETANIA ST APT 104	HONOLULU	HI	96817-4730
RESIDENT	402 N BERETANIA ST APT 105	HONOLULU	HI	96817-4730
RESIDENT	402 N BERETANIA ST APT 106	HONOLULU	HI	96817-4730
RESIDENT	402 N BERETANIA ST APT 107	HONOLULU	HI	96817-4730
RESIDENT	402 N BERETANIA ST APT 108	HONOLULU	HI	96817-4730
RESIDENT	402 N BERETANIA ST APT 201	HONOLULU	HI	96817-4730
RESIDENT	402 N BERETANIA ST APT 202	HONOLULU	HI	96817-4730
RESIDENT	402 N BERETANIA ST APT 203	HONOLULU	HI	96817-4730
RESIDENT	402 N BERETANIA ST APT 204	HONOLULU	HI	96817-4730
RESIDENT	402 N BERETANIA ST APT 205	HONOLULU	HI	96817-4730
RESIDENT	402 N BERETANIA ST APT 206	HONOLULU	HI	96817-4730
RESIDENT	402 N BERETANIA ST APT 207	HONOLULU	HI	96817-4730
RESIDENT	402 N BERETANIA ST APT 208	HONOLULU	HI	96817-4730
RESIDENT	402 N BERETANIA ST APT 209	HONOLULU	HI	96817-4730
RESIDENT	402 N BERETANIA ST APT 210	HONOLULU	HI	96817-4730
RESIDENT	402 N BERETANIA ST APT 211	HONOLULU	HI	96817-4730
RESIDENT	402 N BERETANIA ST APT 212	HONOLULU	HI	96817-4737
RESIDENT	404 N BERETANIA ST APT 101	HONOLULU	HI	96817-4731
RESIDENT	404 N BERETANIA ST APT 102	HONOLULU	HI	96817-4731
RESIDENT	404 N BERETANIA ST APT 103	HONOLULU	HI	96817-4731
RESIDENT	404 N BERETANIA ST APT 104	HONOLULU	HI	96817-4731
RESIDENT	404 N BERETANIA ST APT 105	HONOLULU	HI	96817-4731
RESIDENT	404 N BERETANIA ST APT 106	HONOLULU	HI	96817-4731
RESIDENT	404 N BERETANIA ST APT 108	HONOLULU	HI	96817-4731
RESIDENT	404 N BERETANIA ST APT 109	HONOLULU	HI	96817-4731
RESIDENT	404 N BERETANIA ST APT 201	HONOLULU	HI	96817-4731
RESIDENT	404 N BERETANIA ST APT 202	HONOLULU	HI	96817-4731
RESIDENT	404 N BERETANIA ST APT 203	HONOLULU	HI	96817-4731
RESIDENT	404 N BERETANIA ST APT 204	HONOLULU	HI	96817-4731
RESIDENT	404 N BERETANIA ST APT 205	HONOLULU	HI	96817-4731
RESIDENT	404 N BERETANIA ST APT 206	HONOLULU	HI	96817-4731
RESIDENT	404 N BERETANIA ST APT 207	HONOLULU	HI	96817-4741
RESIDENT	404 N BERETANIA ST APT 208	HONOLULU	HI	96817-4741
RESIDENT	404 N BERETANIA ST APT 209	HONOLULU	HI	96817-4741
RESIDENT	404 N BERETANIA ST APT 210	HONOLULU	HI	96817-4741
RESIDENT	404 N BERETANIA ST APT 211	HONOLULU	HI	96817-4741
RESIDENT	404 N BERETANIA ST APT 212	HONOLULU	HI	96817-4741
BUSINESS OCCUPANT	1023 N KING ST	HONOLULU	HI	96817-4516
RESIDENT	1023 N KING ST APT B	HONOLULU	HI	96817-4524
BUSINESS OCCUPANT	1017 N KING ST	HONOLULU	HI	96817-4516

BUSINESS OCCUPANT	1013 N KING ST STE B	HONOLULU	HI	96817-4550
BUSINESS OCCUPANT	1013 N KING ST STE A	HONOLULU	HI	96817-4550
BUSINESS OCCUPANT	1001 N KING ST STE A	HONOLULU	HI	96817-5793
BUSINESS OCCUPANT	1001 N KING ST STE B	HONOLULU	HI	96817-5793
BUSINESS OCCUPANT	951 N KING ST	HONOLULU	HI	96817-4552
BUSINESS OCCUPANT	933 N KING ST	HONOLULU	HI	96817-4552
BUSINESS OCCUPANT	931 N KING ST	HONOLULU	HI	96817-4552
BUSINESS OCCUPANT	927 N KING ST	HONOLULU	HI	96817-4552
BUSINESS OCCUPANT	925 N KING ST STE 2	HONOLULU	HI	96817-5792
BUSINESS OCCUPANT	881 N KING ST	HONOLULU	HI	96817-4554
RESIDENT	940 HIKINA LN APT A	HONOLULU	HI	96817-4542
RESIDENT	940 HIKINA LN APT B	HONOLULU	HI	96817-4542
RESIDENT	940 HIKINA LN APT C	HONOLULU	HI	96817-4542
RESIDENT	940 HIKINA LN APT D	HONOLULU	HI	96817-4542
RESIDENT	940 HIKINA LN APT E	HONOLULU	HI	96817-4542
RESIDENT	940 HIKINA LN APT F	HONOLULU	HI	96817-4542
RESIDENT	940 HIKINA LN APT G	HONOLULU	HI	96817-4542
RESIDENT	940 HIKINA LN APT H	HONOLULU	HI	96817-4542
RESIDENT	940 HIKINA LN APT I	HONOLULU	HI	96817-4542
RESIDENT	905 AKAU LN APT B	HONOLULU	HI	96817-4531
RESIDENT	905 AKAU LN	HONOLULU	HI	96817-4531
RESIDENT	909 AKAU LN	HONOLULU	HI	96817-4531
RESIDENT	915 AKAU LN	HONOLULU	HI	96817-4531
RESIDENT	915 AKAU LN	HONOLULU	HI	96817-4531
RESIDENT	915 AKAU LN	HONOLULU	HI	96817-4531
RESIDENT	915 AKAU LN	HONOLULU	HI	96817-4531
RESIDENT	915 AKAU LN	HONOLULU	HI	96817-4531
RESIDENT	915 AKAU LN	HONOLULU	HI	96817-4531
RESIDENT	915 AKAU LN	HONOLULU	HI	96817-4531
RESIDENT	915 AKAU LN	HONOLULU	HI	96817-4531
RESIDENT	915 AKAU LN	HONOLULU	HI	96817-4531
RESIDENT	919 AKAU LN	HONOLULU	HI	96817-4531
RESIDENT	921 AKAU LN	HONOLULU	HI	96817-4531
RESIDENT	931 HIKINA LN APT 1	HONOLULU	HI	96817-4541
RESIDENT	931 HIKINA LN APT 2	HONOLULU	HI	96817-4541
RESIDENT	931 HIKINA LN APT 3	HONOLULU	HI	96817-4541
RESIDENT	931 HIKINA LN APT 4	HONOLULU	HI	96817-4541
RESIDENT	931 HIKINA LN APT 5	HONOLULU	HI	96817-4541
RESIDENT	931 HIKINA LN APT 6	HONOLULU	HI	96817-4541
RESIDENT	931 HIKINA LN APT 7	HONOLULU	HI	96817-4541
RESIDENT	931 HIKINA LN APT 8	HONOLULU	HI	96817-4541
RESIDENT	931 HIKINA LN APT 9	HONOLULU	HI	96817-4541
RESIDENT	931 HIKINA LN APT 10	HONOLULU	HI	96817-4541
RESIDENT	905 EU LN	HONOLULU	HI	96817-4535
RESIDENT	909 EU LN	HONOLULU	HI	96817-4535
RESIDENT	911 EU LN	HONOLULU	HI	96817-4535
RESIDENT	915 EU LN	HONOLULU	HI	96817-4535
RESIDENT	915C EU LN	HONOLULU	HI	96817-4535

RESIDENT	916D EU LN	HONOLULU	HI	96817-4534
RESIDENT	916E EU LN	HONOLULU	HI	96817-4534
RESIDENT	916A EU LN APT A	HONOLULU	HI	96817-5796
RESIDENT	916A EU LN APT B	HONOLULU	HI	96817-5796
BUSINESS OCCUPANT	923 HIKINA LN	HONOLULU	HI	96817-4537
BUSINESS OCCUPANT	924 HIKINA LN	HONOLULU	HI	96817-4536
BUSINESS OCCUPANT	923 HIKINA LN STE A	HONOLULU	HI	96817-4537
RESIDENT	918 HIKINA LN APT 1	HONOLULU	HI	96817-4538
RESIDENT	918 HIKINA LN APT 2	HONOLULU	HI	96817-4538
RESIDENT	918 HIKINA LN APT 3	HONOLULU	HI	96817-4538
RESIDENT	918 HIKINA LN APT 4	HONOLULU	HI	96817-4538
RESIDENT	918 HIKINA LN APT A	HONOLULU	HI	96817-4538
RESIDENT	918 HIKINA LN APT B	HONOLULU	HI	96817-4538
RESIDENT	918 HIKINA LN APT C	HONOLULU	HI	96817-4538
RESIDENT	918 HIKINA LN APT D	HONOLULU	HI	96817-4538
RESIDENT	918 HIKINA LN APT E	HONOLULU	HI	96817-4538
RESIDENT	918 HIKINA LN APT F	HONOLULU	HI	96817-4538
RESIDENT	915 HIKINA LN APT 1	HONOLULU	HI	96817-4568
RESIDENT	915 HIKINA LN APT 2	HONOLULU	HI	96817-4568
RESIDENT	915 HIKINA LN APT 3	HONOLULU	HI	96817-4568
RESIDENT	915 HIKINA LN APT 4	HONOLULU	HI	96817-4568
RESIDENT	915 HIKINA LN APT 5	HONOLULU	HI	96817-4568
RESIDENT	915 HIKINA LN APT 6	HONOLULU	HI	96817-4568
RESIDENT	915 HIKINA LN APT 7	HONOLULU	HI	96817-4568
RESIDENT	915 HIKINA LN APT 8	HONOLULU	HI	96817-4568
BUSINESS OCCUPANT	912 HIKINA LN STE A	HONOLULU	HI	96817-5775
BUSINESS OCCUPANT	912 HIKINA LN STE B	HONOLULU	HI	96817-5775
BUSINESS OCCUPANT	912 HIKINA LN	HONOLULU	HI	96817-4536
BUSINESS OCCUPANT	904 HIKINA LN	HONOLULU	HI	96817-4536
BUSINESS OCCUPANT	905 HIKINA LN STE 1	HONOLULU	HI	96817-4537
BUSINESS OCCUPANT	905 HIKINA LN	HONOLULU	HI	96817-4537
BUSINESS OCCUPANT	879 N KING ST	HONOLULU	HI	96817-4514
BUSINESS OCCUPANT	938 AUSTIN LN STE I	HONOLULU	HI	96817-4594
RESIDENT	938 AUSTIN LN APT G1	HONOLULU	HI	96817-4574
RESIDENT	938 AUSTIN LN APT G2	HONOLULU	HI	96817-4574
RESIDENT	938 AUSTIN LN APT G3	HONOLULU	HI	96817-4574
RESIDENT	938 AUSTIN LN APT G4	HONOLULU	HI	96817-4574
RESIDENT	938 AUSTIN LN APT G5	HONOLULU	HI	96817-4574
RESIDENT	938 AUSTIN LN APT G6	HONOLULU	HI	96817-4574
BUSINESS OCCUPANT	938 AUSTIN LN STE E	HONOLULU	HI	96817-4594
BUSINESS OCCUPANT	938 AUSTIN LN	HONOLULU	HI	96817-4532
BUSINESS OCCUPANT	938 AUSTIN LN STE 200	HONOLULU	HI	96817-4574
BUSINESS OCCUPANT	930 AUSTIN LN	HONOLULU	HI	96817-4532
BUSINESS OCCUPANT	938 AUSTIN LN STE 201	HONOLULU	HI	96817-4574
BUSINESS OCCUPANT	930 AUSTIN LN STE D	HONOLULU	HI	96817-4500
BUSINESS OCCUPANT	930 AUSTIN LN STE C	HONOLULU	HI	96817-4500
BUSINESS OCCUPANT	930 AUSTIN LN STE A	HONOLULU	HI	96817-4500
BUSINESS OCCUPANT	922 AUSTIN LN STE B1	HONOLULU	HI	96817-4591
BUSINESS OCCUPANT	922 AUSTIN LN STE A1	HONOLULU	HI	96817-4591

BUSINESS OCCUPANT	922 AUSTIN LN STE C1	HONOLULU	HI	96817-4591
BUSINESS OCCUPANT	922 AUSTIN LN STE C2	HONOLULU	HI	96817-4591
BUSINESS OCCUPANT	922 AUSTIN LN STE H	HONOLULU	HI	96817-4591
BUSINESS OCCUPANT	922 AUSTIN LN STE D	HONOLULU	HI	96817-4591
BUSINESS OCCUPANT	783 N KING ST	HONOLULU	HI	96817-4512
BUSINESS OCCUPANT	743 N KING ST	HONOLULU	HI	96817-4512
RESIDENT	980 ROBELLO LN APT A1	HONOLULU	HI	96817-4547
RESIDENT	980 ROBELLO LN APT A2	HONOLULU	HI	96817-4547
RESIDENT	980 ROBELLO LN APT A3	HONOLULU	HI	96817-4547
RESIDENT	980 ROBELLO LN APT A4	HONOLULU	HI	96817-4547
RESIDENT	980 ROBELLO LN APT A5	HONOLULU	HI	96817-4547
RESIDENT	980 ROBELLO LN APT B1	HONOLULU	HI	96817-4549
RESIDENT	980 ROBELLO LN APT B2	HONOLULU	HI	96817-4549
RESIDENT	980 ROBELLO LN APT B3	HONOLULU	HI	96817-4549
RESIDENT	980 ROBELLO LN APT B4	HONOLULU	HI	96817-4549
RESIDENT	980 ROBELLO LN APT B5	HONOLULU	HI	96817-4549
RESIDENT	980 ROBELLO LN APT C1	HONOLULU	HI	96817-4569
RESIDENT	980 ROBELLO LN APT C2	HONOLULU	HI	96817-4569
RESIDENT	980 ROBELLO LN APT C3	HONOLULU	HI	96817-4569
RESIDENT	980 ROBELLO LN APT C4	HONOLULU	HI	96817-4569
RESIDENT	980 ROBELLO LN APT C5	HONOLULU	HI	96817-4569
BUSINESS OCCUPANT	966 ROBELLO LN	HONOLULU	HI	96817-4545
BUSINESS OCCUPANT	950 ROBELLO LN	HONOLULU	HI	96817-4545
BUSINESS OCCUPANT	961 ROBELLO LN	HONOLULU	HI	96817-4546

RESIDENT	1115 BANYAN ST APT B	HONOLULU	HI	96817-3429
RESIDENT	1115 BANYAN ST APT A	HONOLULU	HI	96817-3429
RESIDENT	1115 BANYAN ST APT C	HONOLULU	HI	96817-3429
RESIDENT	1119C BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1119B BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1119A BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1119 BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1121 BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1121C BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1121D BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1121A BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1121B BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1127B BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1127C BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1127D BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1127 BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1131A BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1131B BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1131C BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1131D BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1155A BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1155B BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1155C BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1155D BANYAN ST	HONOLULU	HI	96817-3427
RESIDENT	1155 BANYAN ST	HONOLULU	HI	96817-3427
BUSINESS OCCUPANT	1128 BANYAN ST	HONOLULU	HI	96817-3426
RESIDENT	1122 BANYAN ST APT 100	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 200	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 201	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 202	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 203	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 204	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 205	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 206	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 207	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 208	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 209	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 210	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 211	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 212	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 213	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 214	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 215	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 216	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 217	HONOLULU	HI	96817-3402
RESIDENT	1122 BANYAN ST APT 300	HONOLULU	HI	96817-3471
RESIDENT	1122 BANYAN ST APT 301	HONOLULU	HI	96817-3471
RESIDENT	1122 BANYAN ST APT 302	HONOLULU	HI	96817-3471
RESIDENT	1122 BANYAN ST APT 303	HONOLULU	HI	96817-3471

RESIDENT	1122 BANYAN ST APT 304	HONOLULU	HI	96817-3471
RESIDENT	1122 BANYAN ST APT 305	HONOLULU	HI	96817-3471
RESIDENT	1122 BANYAN ST APT 306	HONOLULU	HI	96817-3471
RESIDENT	1122 BANYAN ST APT 307	HONOLULU	HI	96817-3471
RESIDENT	1122 BANYAN ST APT 308	HONOLULU	HI	96817-3471
RESIDENT	1122 BANYAN ST APT 309	HONOLULU	HI	96817-3471
RESIDENT	1122 BANYAN ST APT 310	HONOLULU	HI	96817-3471
RESIDENT	1122 BANYAN ST APT 311	HONOLULU	HI	96817-3471
RESIDENT	1122 BANYAN ST APT 312	HONOLULU	HI	96817-3471
RESIDENT	1122 BANYAN ST APT 313	HONOLULU	HI	96817-3471
RESIDENT	1122 BANYAN ST APT 314	HONOLULU	HI	96817-3471
RESIDENT	1122 BANYAN ST APT 315	HONOLULU	HI	96817-3471
RESIDENT	1122 BANYAN ST APT 316	HONOLULU	HI	96817-3471
RESIDENT	1122 BANYAN ST APT 317	HONOLULU	HI	96817-3471
RESIDENT	1122 BANYAN ST APT 400	HONOLULU	HI	96817-3472
RESIDENT	1122 BANYAN ST APT 401	HONOLULU	HI	96817-3472
RESIDENT	1122 BANYAN ST APT 402	HONOLULU	HI	96817-3472
RESIDENT	1122 BANYAN ST APT 403	HONOLULU	HI	96817-3472
RESIDENT	1122 BANYAN ST APT 404	HONOLULU	HI	96817-3472
RESIDENT	1122 BANYAN ST APT 405	HONOLULU	HI	96817-3472
RESIDENT	1122 BANYAN ST APT 406	HONOLULU	HI	96817-3472
RESIDENT	1122 BANYAN ST APT 407	HONOLULU	HI	96817-3472
RESIDENT	1122 BANYAN ST APT 408	HONOLULU	HI	96817-3472
RESIDENT	1122 BANYAN ST APT 409	HONOLULU	HI	96817-3472
RESIDENT	1122 BANYAN ST APT 410	HONOLULU	HI	96817-3472
RESIDENT	1122 BANYAN ST APT 411	HONOLULU	HI	96817-3472
RESIDENT	1122 BANYAN ST APT 412	HONOLULU	HI	96817-3472
RESIDENT	1122 BANYAN ST APT 413	HONOLULU	HI	96817-3472
RESIDENT	1122 BANYAN ST APT 414	HONOLULU	HI	96817-3472
RESIDENT	1122 BANYAN ST APT 415	HONOLULU	HI	96817-3472
RESIDENT	1122 BANYAN ST APT 416	HONOLULU	HI	96817-3472
RESIDENT	1122 BANYAN ST APT 417	HONOLULU	HI	96817-3472
RESIDENT	1110 BANYAN ST APT 101	HONOLULU	HI	96817-3428
RESIDENT	1110 BANYAN ST APT 102	HONOLULU	HI	96817-3428
RESIDENT	1110 BANYAN ST APT 103	HONOLULU	HI	96817-3428
RESIDENT	1110 BANYAN ST APT 104	HONOLULU	HI	96817-3428
RESIDENT	1110 BANYAN ST APT 105	HONOLULU	HI	96817-3428
RESIDENT	1110 BANYAN ST APT 201	HONOLULU	HI	96817-3428
RESIDENT	1110 BANYAN ST APT 202	HONOLULU	HI	96817-3428
RESIDENT	1110 BANYAN ST APT 203	HONOLULU	HI	96817-3428
RESIDENT	1110 BANYAN ST APT 204	HONOLULU	HI	96817-3428
RESIDENT	1110 BANYAN ST APT 205	HONOLULU	HI	96817-3428
RESIDENT	1110 BANYAN ST APT 301	HONOLULU	HI	96817-3430
RESIDENT	1110 BANYAN ST APT 302	HONOLULU	HI	96817-3430
RESIDENT	1110 BANYAN ST APT 303	HONOLULU	HI	96817-3430
RESIDENT	1110 BANYAN ST APT 304	HONOLULU	HI	96817-3430
RESIDENT	1110 BANYAN ST APT 401	HONOLULU	HI	96817-3430
RESIDENT	1110 BANYAN ST APT 402	HONOLULU	HI	96817-3430
RESIDENT	1110 BANYAN ST APT 403	HONOLULU	HI	96817-3430

RESIDENT	1110 BANYAN ST APT 404	HONOLULU	HI	96817-3430
RESIDENT	1110 BANYAN ST APT 405	HONOLULU	HI	96817-3430
RESIDENT	750 KANOA ST APT 101	HONOLULU	HI	96817-3433
RESIDENT	750 KANOA ST APT 102	HONOLULU	HI	96817-3433
RESIDENT	750 KANOA ST APT 103	HONOLULU	HI	96817-3433
RESIDENT	750 KANOA ST APT 104	HONOLULU	HI	96817-3433
RESIDENT	750 KANOA ST APT 201	HONOLULU	HI	96817-3433
RESIDENT	750 KANOA ST APT 202	HONOLULU	HI	96817-3433
RESIDENT	750 KANOA ST APT 203	HONOLULU	HI	96817-3433
RESIDENT	750 KANOA ST APT 303	HONOLULU	HI	96817-3435
RESIDENT	750 KANOA ST APT 304	HONOLULU	HI	96817-3435
RESIDENT	750 KANOA ST APT 305	HONOLULU	HI	96817-3435
RESIDENT	750 KANOA ST APT 306	HONOLULU	HI	96817-3435
RESIDENT	750 KANOA ST APT 307	HONOLULU	HI	96817-3435
RESIDENT	750 KANOA ST APT 308	HONOLULU	HI	96817-3435
RESIDENT	750 KANOA ST APT 401	HONOLULU	HI	96817-3436
RESIDENT	750 KANOA ST APT 204	HONOLULU	HI	96817-3434
RESIDENT	750 KANOA ST APT 205	HONOLULU	HI	96817-3434
RESIDENT	750 KANOA ST APT 206	HONOLULU	HI	96817-3434
RESIDENT	750 KANOA ST APT 207	HONOLULU	HI	96817-3434
RESIDENT	750 KANOA ST APT 208	HONOLULU	HI	96817-3434
RESIDENT	750 KANOA ST APT 301	HONOLULU	HI	96817-3434
RESIDENT	750 KANOA ST APT 302	HONOLULU	HI	96817-3434
RESIDENT	750 KANOA ST APT 402	HONOLULU	HI	96817-3436
RESIDENT	750 KANOA ST APT 403	HONOLULU	HI	96817-3436
RESIDENT	750 KANOA ST APT 404	HONOLULU	HI	96817-3436
RESIDENT	750 KANOA ST APT 405	HONOLULU	HI	96817-3436
RESIDENT	750 KANOA ST APT 406	HONOLULU	HI	96817-3436
RESIDENT	750 KANOA ST APT 408	HONOLULU	HI	96817-3436
RESIDENT	1203 PALAMA ST APT A	HONOLULU	HI	96817-3450
RESIDENT	1203 PALAMA ST APT A	HONOLULU	HI	96817-3450
RESIDENT	1213 PALAMA ST APT C	HONOLULU	HI	96817-3496
RESIDENT	1207 PALAMA ST	HONOLULU	HI	96817-3450
RESIDENT	1207 PALAMA ST	HONOLULU	HI	96817-3450
RESIDENT	1207 PALAMA ST	HONOLULU	HI	96817-3450
RESIDENT	1207 PALAMA ST	HONOLULU	HI	96817-3450
RESIDENT	1207 PALAMA ST	HONOLULU	HI	96817-3450
RESIDENT	1207 PALAMA ST	HONOLULU	HI	96817-3450
RESIDENT	1207 PALAMA ST	HONOLULU	HI	96817-3450
RESIDENT	1207 PALAMA ST	HONOLULU	HI	96817-3450
RESIDENT	1207 PALAMA ST	HONOLULU	HI	96817-3450
RESIDENT	1213 PALAMA ST	HONOLULU	HI	96817-3450
RESIDENT	1213 PALAMA ST APT A	HONOLULU	HI	96817-3496
RESIDENT	1213 PALAMA ST APT B	HONOLULU	HI	96817-3496
RESIDENT	1240 PALAMA ST	HONOLULU	HI	96817-3449
RESIDENT	1218 PALAMA ST	HONOLULU	HI	96817-3449
RESIDENT	1218 PALAMA ST APT A	HONOLULU	HI	96817-6428
RESIDENT	1214 PALAMA ST	HONOLULU	HI	96817-3449

RESIDENT	1214 PALAMA ST APT A	HONOLULU	HI	96817-6427
RESIDENT	1210 PALAMA ST APT A	HONOLULU	HI	96817-3493
RESIDENT	1210 PALAMA ST APT A	HONOLULU	HI	96817-3493
RESIDENT	1210 PALAMA ST APT C	HONOLULU	HI	96817-3493
RESIDENT	1124 PALAMA ST	HONOLULU	HI	96817-3448
RESIDENT	1120 PALAMA ST	HONOLULU	HI	96817-3448
RESIDENT	1118 PALAMA ST	HONOLULU	HI	96817-3448
RESIDENT	1110 PALAMA ST	HONOLULU	HI	96817-3448
RESIDENT	1012 PALAMA ST	HONOLULU	HI	96817-3469
BUSINESS OCCUPANT	802 N KING ST	HONOLULU	HI	96817-4513
RESIDENT	842 N KING ST	HONOLULU	HI	96817-4513
BUSINESS OCCUPANT	844 N KING ST	HONOLULU	HI	96817-4513
BUSINESS OCCUPANT	850 N KING ST	HONOLULU	HI	96817-4513
RESIDENT	1007 AUSTIN LN	HONOLULU	HI	96817-3423
RESIDENT	1007 AUSTIN LN	HONOLULU	HI	96817-3423
RESIDENT	1007 AUSTIN LN	HONOLULU	HI	96817-3423
RESIDENT	1007 AUSTIN LN	HONOLULU	HI	96817-3423
RESIDENT	1007 AUSTIN LN	HONOLULU	HI	96817-3423
RESIDENT	1007 AUSTIN LN	HONOLULU	HI	96817-3423
RESIDENT	1015 AUSTIN LN	HONOLULU	HI	96817-3423
BUSINESS OCCUPANT	888 N KING ST	HONOLULU	HI	96817-4553
BUSINESS OCCUPANT	930 N KING ST	HONOLULU	HI	96817-4543
BUSINESS OCCUPANT	952 N KING ST	HONOLULU	HI	96817-4556
BUSINESS OCCUPANT	1010 N KING ST	HONOLULU	HI	96817-4515
RESIDENT	1007 PETERSON LN APT 1	HONOLULU	HI	96817-5505
RESIDENT	1007 PETERSON LN APT 4	HONOLULU	HI	96817-5505
RESIDENT	1007 PETERSON LN APT 3	HONOLULU	HI	96817-5505
RESIDENT	1007 PETERSON LN APT 2	HONOLULU	HI	96817-5505
RESIDENT	1017 PETERSON LN	HONOLULU	HI	96817-3453
RESIDENT	857 KANOA ST	HONOLULU	HI	96817-3440
RESIDENT	819 KANOA ST	HONOLULU	HI	96817-3438
RESIDENT	815A KANOA ST	HONOLULU	HI	96817-3438
RESIDENT	815 KANOA ST	HONOLULU	HI	96817-3438
RESIDENT	809 KANOA ST	HONOLULU	HI	96817-3438
RESIDENT	805 KANOA ST	HONOLULU	HI	96817-3438
RESIDENT	801 KANOA ST	HONOLULU	HI	96817-3438
BUSINESS OCCUPANT	1104 PALAMA ST	HONOLULU	HI	96817-3448
RESIDENT	1104 PALAMA ST APT A	HONOLULU	HI	96817-3448
RESIDENT	1104 PALAMA ST APT B	HONOLULU	HI	96817-3448
RESIDENT	1104 PALAMA ST APT B	HONOLULU	HI	96817-3448
RESIDENT	810 KANOA ST	HONOLULU	HI	96817-3437
RESIDENT	810B KANOA ST	HONOLULU	HI	96817-3437
RESIDENT	814 KANOA ST	HONOLULU	HI	96817-3437
RESIDENT	814 KANOA ST APT A1	HONOLULU	HI	96817-3495
RESIDENT	814 KANOA ST APT A2	HONOLULU	HI	96817-3495
RESIDENT	814 KANOA ST APT B1	HONOLULU	HI	96817-3495
RESIDENT	814 KANOA ST APT B2	HONOLULU	HI	96817-3495
RESIDENT	814C KANOA ST	HONOLULU	HI	96817-3437
RESIDENT	1125 AUSTIN LN	HONOLULU	HI	96817-3425

RESIDENT	1127 AUSTIN LN	HONOLULU	HI	96817-3425
RESIDENT	1129 AUSTIN LN	HONOLULU	HI	96817-3425
RESIDENT	1131 AUSTIN LN	HONOLULU	HI	96817-3425
RESIDENT	1137 AUSTIN LN	HONOLULU	HI	96817-3425
RESIDENT	815 LOPEZ LN	HONOLULU	HI	96817-3446
RESIDENT	811 LOPEZ LN	HONOLULU	HI	96817-3446
RESIDENT	808 LOPEZ LN	HONOLULU	HI	96817-3445
RESIDENT	808A LOPEZ LN	HONOLULU	HI	96817-3445
RESIDENT	816 LOPEZ LN	HONOLULU	HI	96817-3445
RESIDENT	816 LOPEZ LN	HONOLULU	HI	96817-3445
RESIDENT	816 LOPEZ LN	HONOLULU	HI	96817-3445
RESIDENT	816 LOPEZ LN	HONOLULU	HI	96817-3445
RESIDENT	824A LOPEZ LN	HONOLULU	HI	96817-3445
RESIDENT	824C LOPEZ LN	HONOLULU	HI	96817-3445
RESIDENT	824 LOPEZ LN	HONOLULU	HI	96817-3445
RESIDENT	850 LOPEZ LN	HONOLULU	HI	96817-3445
RESIDENT	850 LOPEZ LN	HONOLULU	HI	96817-3445
RESIDENT	852 LOPEZ LN	HONOLULU	HI	96817-3445
RESIDENT	815C LOPEZ LN	HONOLULU	HI	96817-3446
RESIDENT	815D LOPEZ LN	HONOLULU	HI	96817-3446
RESIDENT	815E LOPEZ LN	HONOLULU	HI	96817-3446
RESIDENT	815F LOPEZ LN	HONOLULU	HI	96817-3446
RESIDENT	815G LOPEZ LN	HONOLULU	HI	96817-3446
RESIDENT	815H LOPEZ LN	HONOLULU	HI	96817-3446
RESIDENT	815I LOPEZ LN	HONOLULU	HI	96817-3446
RESIDENT	815 LOPEZ LN APT D1	HONOLULU	HI	96817-5504
RESIDENT	815 LOPEZ LN APT E1	HONOLULU	HI	96817-5504
RESIDENT	815 LOPEZ LN APT F1	HONOLULU	HI	96817-5504
RESIDENT	815 LOPEZ LN APT G1	HONOLULU	HI	96817-5504
RESIDENT	815 LOPEZ LN APT H1	HONOLULU	HI	96817-5502
RESIDENT	815 LOPEZ LN APT I1	HONOLULU	HI	96817-5504
RESIDENT	1120 AUSTIN LN	HONOLULU	HI	96817-3424
RESIDENT	1118 AUSTIN LN	HONOLULU	HI	96817-3424
RESIDENT	1114 AUSTIN LN	HONOLULU	HI	96817-3424
RESIDENT	1110 AUSTIN LN	HONOLULU	HI	96817-3424
RESIDENT	1106 AUSTIN LN	HONOLULU	HI	96817-3424
RESIDENT	1104 AUSTIN LN	HONOLULU	HI	96817-3424
RESIDENT	828B KANOA ST	HONOLULU	HI	96817-3439
RESIDENT	828C KANOA ST	HONOLULU	HI	96817-3439
RESIDENT	828D KANOA ST	HONOLULU	HI	96817-3439
RESIDENT	828A KANOA ST	HONOLULU	HI	96817-3439
RESIDENT	836 KANOA ST	HONOLULU	HI	96817-3439
RESIDENT	838 KANOA ST	HONOLULU	HI	96817-3439
RESIDENT	846 KANOA ST APT 1	HONOLULU	HI	96817-3442
RESIDENT	846 KANOA ST APT 3	HONOLULU	HI	96817-3442
RESIDENT	846 KANOA ST APT 4	HONOLULU	HI	96817-3442
RESIDENT	846 KANOA ST APT 5	HONOLULU	HI	96817-3442
RESIDENT	846 KANOA ST APT 6	HONOLULU	HI	96817-3442
RESIDENT	846 KANOA ST APT A	HONOLULU	HI	96817-3442

RESIDENT	846 KANOA ST APT B	HONOLULU	HI	96817-3441
RESIDENT	846 KANOA ST APT C	HONOLULU	HI	96817-3441
RESIDENT	846 KANOA ST APT D	HONOLULU	HI	96817-3441
RESIDENT	846 KANOA ST APT E	HONOLULU	HI	96817-3441
RESIDENT	846 KANOA ST APT F	HONOLULU	HI	96817-3441
RESIDENT	846 KANOA ST APT G	HONOLULU	HI	96817-3441
RESIDENT	846 KANOA ST APT H	HONOLULU	HI	96817-3441
RESIDENT	1112 PETERSON LN	HONOLULU	HI	96817-3454
RESIDENT	1112 PETERSON LN APT A	HONOLULU	HI	96817-3454
RESIDENT	1112 PETERSON LN APT A	HONOLULU	HI	96817-3454
RESIDENT	1114 PETERSON LN	HONOLULU	HI	96817-3454
RESIDENT	1114 PETERSON LN	HONOLULU	HI	96817-3454
RESIDENT	1114 PETERSON LN APT A	HONOLULU	HI	96817-3454
RESIDENT	1118 PETERSON LN	HONOLULU	HI	96817-3454
RESIDENT	1122 PETERSON LN	HONOLULU	HI	96817-3454
RESIDENT	1122 PETERSON LN APT A	HONOLULU	HI	96817-3454
RESIDENT	1203 PETERSON LN	HONOLULU	HI	96817-3456
RESIDENT	1207 PETERSON LN APT A	HONOLULU	HI	96817-3456
RESIDENT	1207 PETERSON LN APT A	HONOLULU	HI	96817-3456
RESIDENT	1207 PETERSON LN APT A	HONOLULU	HI	96817-3456
RESIDENT	1207 PETERSON LN APT A	HONOLULU	HI	96817-3456
RESIDENT	1206 PETERSON LN	HONOLULU	HI	96817-3455
RESIDENT	1208 PETERSON LN	HONOLULU	HI	96817-3455
RESIDENT	1210 PETERSON LN	HONOLULU	HI	96817-3455
RESIDENT	1211 PETERSON LN APT A	HONOLULU	HI	96817-6429
RESIDENT	1211 PETERSON LN APT B	HONOLULU	HI	96817-6429
RESIDENT	1211 PETERSON LN	HONOLULU	HI	96817-3456
RESIDENT	1216 PETERSON LN	HONOLULU	HI	96817-3455
RESIDENT	1216 PETERSON LN	HONOLULU	HI	96817-3455
RESIDENT	1216 PETERSON LN APT A	HONOLULU	HI	96817-3455
RESIDENT	1219 PETERSON LN	HONOLULU	HI	96817-3456
RESIDENT	1220 PETERSON LN	HONOLULU	HI	96817-3455
RESIDENT	1220 PETERSON LN	HONOLULU	HI	96817-3455
RESIDENT	1220 PETERSON LN	HONOLULU	HI	96817-3455
RESIDENT	1225 PETERSON LN	HONOLULU	HI	96817-3456
RESIDENT	1226 PETERSON LN	HONOLULU	HI	96817-3455
RESIDENT	835 LAKIMELA LN APT A	HONOLULU	HI	96817-6430
RESIDENT	835 LAKIMELA LN APT B	HONOLULU	HI	96817-6430
RESIDENT	834 LAKIMELA LN	HONOLULU	HI	96817-3443
RESIDENT	832 LAKIMELA LN	HONOLULU	HI	96817-3443
RESIDENT	829 LAKIMELA LN APT A	HONOLULU	HI	96817-3498
RESIDENT	829 LAKIMELA LN APT B	HONOLULU	HI	96817-3498
RESIDENT	829 LAKIMELA LN APT C	HONOLULU	HI	96817-3498
RESIDENT	829 LAKIMELA LN APT D	HONOLULU	HI	96817-3498
RESIDENT	829 LAKIMELA LN APT E	HONOLULU	HI	96817-3498
RESIDENT	829 LAKIMELA LN APT F	HONOLULU	HI	96817-3498
RESIDENT	829 LAKIMELA LN APT G	HONOLULU	HI	96817-3422
RESIDENT	829 LAKIMELA LN APT H	HONOLULU	HI	96817-3422
RESIDENT	829 LAKIMELA LN APT I	HONOLULU	HI	96817-3422

RESIDENT	829 LAKIMELA LN APT J	HONOLULU	HI	96817-3422
RESIDENT	829 LAKIMELA LN APT K	HONOLULU	HI	96817-3422
RESIDENT	829 LAKIMELA LN APT L	HONOLULU	HI	96817-3422
RESIDENT	828 LAKIMELA LN	HONOLULU	HI	96817-3443
RESIDENT	824 LAKIMELA LN	HONOLULU	HI	96817-3443
RESIDENT	817 LAKIMELA LN	HONOLULU	HI	96817-3444
RESIDENT	823 LAKIMELA LN	HONOLULU	HI	96817-3444
RESIDENT	817 LAKIMELA LN APT A	HONOLULU	HI	96817-3444
RESIDENT	823 LAKIMELA LN APT A	HONOLULU	HI	96817-6431
RESIDENT	823 LAKIMELA LN APT B	HONOLULU	HI	96817-6431
RESIDENT	811 LAKIMELA LN APT E	HONOLULU	HI	96817-5507
RESIDENT	811 LAKIMELA LN APT D	HONOLULU	HI	96817-5507
RESIDENT	811 LAKIMELA LN APT C	HONOLULU	HI	96817-5507
RESIDENT	811 LAKIMELA LN APT B	HONOLULU	HI	96817-5507
RESIDENT	811 LAKIMELA LN APT A	HONOLULU	HI	96817-5507
RESIDENT	814 LAKIMELA LN	HONOLULU	HI	96817-3443
RESIDENT	814 LAKIMELA LN APT A	HONOLULU	HI	96817-3443
RESIDENT	811 LAKIMELA LN	HONOLULU	HI	96817-3444
RESIDENT	820 LAKIMELA LN	HONOLULU	HI	96817-3443
RESIDENT	1102 DESHA LN APT A	HONOLULU	HI	96817-4614
RESIDENT	1102 DESHA LN APT B	HONOLULU	HI	96817-4614
RESIDENT	1102 DESHA LN APT C	HONOLULU	HI	96817-4614
RESIDENT	1102 DESHA LN APT D	HONOLULU	HI	96817-4614
RESIDENT	1102 DESHA LN APT E	HONOLULU	HI	96817-4614
RESIDENT	1102 DESHA LN APT F	HONOLULU	HI	96817-4614
RESIDENT	1102 DESHA LN APT G	HONOLULU	HI	96817-4614
RESIDENT	1102 DESHA LN APT H	HONOLULU	HI	96817-4614
RESIDENT	1102 DESHA LN APT J	HONOLULU	HI	96817-4614
RESIDENT	1102 DESHA LN APT K	HONOLULU	HI	96817-4614
RESIDENT	1102 DESHA LN APT L	HONOLULU	HI	96817-4614
RESIDENT	1102 DESHA LN APT M	HONOLULU	HI	96817-4614
RESIDENT	1105 DESHA LN APT A	HONOLULU	HI	96817-4671
RESIDENT	1105 DESHA LN APT B	HONOLULU	HI	96817-4671
RESIDENT	1105 DESHA LN APT C	HONOLULU	HI	96817-4671
RESIDENT	1105 DESHA LN APT D	HONOLULU	HI	96817-4671
RESIDENT	1105 DESHA LN APT E	HONOLULU	HI	96817-4616
RESIDENT	1105 DESHA LN APT F	HONOLULU	HI	96817-4616
RESIDENT	1105 DESHA LN APT G	HONOLULU	HI	96817-4616
RESIDENT	1105 DESHA LN APT H	HONOLULU	HI	96817-4616
RESIDENT	1105 DESHA LN APT J	HONOLULU	HI	96817-4616
RESIDENT	1105 DESHA LN APT K	HONOLULU	HI	96817-4616
RESIDENT	1105 DESHA LN APT L	HONOLULU	HI	96817-4616
RESIDENT	1105 DESHA LN APT M	HONOLULU	HI	96817-4616
RESIDENT	1120 DESHA LN APT A	HONOLULU	HI	96817-4618
RESIDENT	1120 DESHA LN APT B	HONOLULU	HI	96817-4618
RESIDENT	1120 DESHA LN APT C	HONOLULU	HI	96817-4618
RESIDENT	1120 DESHA LN APT D	HONOLULU	HI	96817-4618
RESIDENT	1120 DESHA LN APT E	HONOLULU	HI	96817-4618
RESIDENT	1120 DESHA LN APT F	HONOLULU	HI	96817-4618

RESIDENT	1120 DESHA LN APT G	HONOLULU	HI	96817-4618
RESIDENT	1120 DESHA LN APT H	HONOLULU	HI	96817-4618
RESIDENT	1120 DESHA LN APT J	HONOLULU	HI	96817-4678
RESIDENT	1120 DESHA LN APT K	HONOLULU	HI	96817-4678
RESIDENT	1120 DESHA LN APT L	HONOLULU	HI	96817-4678
RESIDENT	1120 DESHA LN APT M	HONOLULU	HI	96817-4678
RESIDENT	1123 DESHA LN APT A	HONOLULU	HI	96817-4620
RESIDENT	1123 DESHA LN APT B	HONOLULU	HI	96817-4620
RESIDENT	1123 DESHA LN APT C	HONOLULU	HI	96817-4620
RESIDENT	1123 DESHA LN APT D	HONOLULU	HI	96817-4620
RESIDENT	1123 DESHA LN APT E	HONOLULU	HI	96817-4620
RESIDENT	1123 DESHA LN APT F	HONOLULU	HI	96817-4620
RESIDENT	1123 DESHA LN APT G	HONOLULU	HI	96817-4620
RESIDENT	1123 DESHA LN APT H	HONOLULU	HI	96817-4620
RESIDENT	1123 DESHA LN APT J	HONOLULU	HI	96817-4620
RESIDENT	1123 DESHA LN APT K	HONOLULU	HI	96817-4620
RESIDENT	1123 DESHA LN APT L	HONOLULU	HI	96817-4620
RESIDENT	1123 DESHA LN APT M	HONOLULU	HI	96817-4620
RESIDENT	550 N KING ST APT A	HONOLULU	HI	96817-4650
RESIDENT	550 N KING ST APT B	HONOLULU	HI	96817-4650
RESIDENT	550 N KING ST APT C	HONOLULU	HI	96817-4650
RESIDENT	550 N KING ST APT D	HONOLULU	HI	96817-4650
RESIDENT	550 N KING ST APT E	HONOLULU	HI	96817-4650
RESIDENT	550 N KING ST APT F	HONOLULU	HI	96817-4650
RESIDENT	550 N KING ST APT G	HONOLULU	HI	96817-4605
RESIDENT	550 N KING ST APT H	HONOLULU	HI	96817-4605
RESIDENT	550 N KING ST APT J	HONOLULU	HI	96817-4605
RESIDENT	550 N KING ST APT K	HONOLULU	HI	96817-4605
RESIDENT	550 N KING ST APT M	HONOLULU	HI	96817-4605
RESIDENT	550 N KING ST APT N	HONOLULU	HI	96817-4605
RESIDENT	550 N KING ST APT P	HONOLULU	HI	96817-4605
RESIDENT	550 N KING ST APT Q	HONOLULU	HI	96817-4605
RESIDENT	550 N KING ST APT R	HONOLULU	HI	96817-4605
RESIDENT	550 N KING ST APT S	HONOLULU	HI	96817-6600
RESIDENT	550 N KING ST APT T	HONOLULU	HI	96817-6600
RESIDENT	568 N KING ST APT A	HONOLULU	HI	96817-4606
RESIDENT	568 N KING ST APT B	HONOLULU	HI	96817-4606
RESIDENT	568 N KING ST APT C	HONOLULU	HI	96817-4606
RESIDENT	568 N KING ST APT D	HONOLULU	HI	96817-4606
RESIDENT	568 N KING ST APT E	HONOLULU	HI	96817-4606
RESIDENT	568 N KING ST APT F	HONOLULU	HI	96817-4606
RESIDENT	568 N KING ST APT G	HONOLULU	HI	96817-4606
RESIDENT	568 N KING ST APT H	HONOLULU	HI	96817-4606
RESIDENT	568 N KING ST APT J	HONOLULU	HI	96817-4606
RESIDENT	568 N KING ST APT K	HONOLULU	HI	96817-4606
RESIDENT	568 N KING ST APT L	HONOLULU	HI	96817-4606
RESIDENT	568 N KING ST APT M	HONOLULU	HI	96817-4606
RESIDENT	520 N KUKUI ST APT A	HONOLULU	HI	96817-3847
RESIDENT	520 N KUKUI ST APT B	HONOLULU	HI	96817-3847

RESIDENT	520 N KUKUI ST APT C	HONOLULU	HI	96817-3847
RESIDENT	520 N KUKUI ST APT D	HONOLULU	HI	96817-3847
RESIDENT	520 N KUKUI ST APT E	HONOLULU	HI	96817-3847
RESIDENT	520 N KUKUI ST APT F	HONOLULU	HI	96817-3847
RESIDENT	520 N KUKUI ST APT G	HONOLULU	HI	96817-3847
RESIDENT	520 N KUKUI ST APT H	HONOLULU	HI	96817-3847
RESIDENT	520 N KUKUI ST APT J	HONOLULU	HI	96817-3847
RESIDENT	520 N KUKUI ST APT K	HONOLULU	HI	96817-3847
RESIDENT	520 N KUKUI ST APT L	HONOLULU	HI	96817-3847
RESIDENT	520 N KUKUI ST APT M	HONOLULU	HI	96817-3847
RESIDENT	545 N KUKUI ST APT A	HONOLULU	HI	96817-3861
RESIDENT	545 N KUKUI ST APT B	HONOLULU	HI	96817-3861
RESIDENT	545 N KUKUI ST APT C	HONOLULU	HI	96817-3861
RESIDENT	545 N KUKUI ST APT D	HONOLULU	HI	96817-3861
RESIDENT	545 N KUKUI ST APT E	HONOLULU	HI	96817-3849
RESIDENT	545 N KUKUI ST APT F	HONOLULU	HI	96817-3849
RESIDENT	545 N KUKUI ST APT G	HONOLULU	HI	96817-3849
RESIDENT	545 N KUKUI ST APT H	HONOLULU	HI	96817-3849
RESIDENT	545 N KUKUI ST APT J	HONOLULU	HI	96817-3849
RESIDENT	545 N KUKUI ST APT K	HONOLULU	HI	96817-3849
RESIDENT	545 N KUKUI ST APT L	HONOLULU	HI	96817-3849
RESIDENT	545 N KUKUI ST APT M	HONOLULU	HI	96817-3849
RESIDENT	546 N KUKUI ST APT A	HONOLULU	HI	96817-3850
RESIDENT	546 N KUKUI ST APT B	HONOLULU	HI	96817-3850
RESIDENT	546 N KUKUI ST APT C	HONOLULU	HI	96817-3850
RESIDENT	546 N KUKUI ST APT D	HONOLULU	HI	96817-3850
RESIDENT	546 N KUKUI ST APT E	HONOLULU	HI	96817-3850
RESIDENT	546 N KUKUI ST APT F	HONOLULU	HI	96817-3850
RESIDENT	546 N KUKUI ST APT G	HONOLULU	HI	96817-3850
RESIDENT	546 N KUKUI ST APT H	HONOLULU	HI	96817-3850
RESIDENT	546 N KUKUI ST APT J	HONOLULU	HI	96817-3865
RESIDENT	546 N KUKUI ST APT K	HONOLULU	HI	96817-3865
RESIDENT	546 N KUKUI ST APT L	HONOLULU	HI	96817-3865
RESIDENT	546 N KUKUI ST APT M	HONOLULU	HI	96817-3865
RESIDENT	565 N KUKUI ST APT A	HONOLULU	HI	96817-3851
RESIDENT	565 N KUKUI ST APT B	HONOLULU	HI	96817-3851
RESIDENT	565 N KUKUI ST APT C	HONOLULU	HI	96817-3851
RESIDENT	565 N KUKUI ST APT D	HONOLULU	HI	96817-3851
RESIDENT	566 N KUKUI ST APT A	HONOLULU	HI	96817-3852
RESIDENT	566 N KUKUI ST APT B	HONOLULU	HI	96817-3852
RESIDENT	566 N KUKUI ST APT C	HONOLULU	HI	96817-3852
RESIDENT	566 N KUKUI ST APT D	HONOLULU	HI	96817-3852
RESIDENT	566 N KUKUI ST APT E	HONOLULU	HI	96817-3852
RESIDENT	566 N KUKUI ST APT F	HONOLULU	HI	96817-3852
RESIDENT	576 N KUKUI ST APT A	HONOLULU	HI	96817-3820
RESIDENT	576 N KUKUI ST APT B	HONOLULU	HI	96817-3820
RESIDENT	576 N KUKUI ST APT C	HONOLULU	HI	96817-3867
RESIDENT	576 N KUKUI ST APT D	HONOLULU	HI	96817-3867
RESIDENT	579 N KUKUI ST APT A	HONOLULU	HI	96817-3854

RESIDENT	579 N KUKUI ST APT B	HONOLULU	HI	96817-3854
RESIDENT	579 N KUKUI ST APT C	HONOLULU	HI	96817-3854
RESIDENT	579 N KUKUI ST APT D	HONOLULU	HI	96817-3854
RESIDENT	606 N KUKUI ST APT A	HONOLULU	HI	96817-3857
RESIDENT	606 N KUKUI ST APT B	HONOLULU	HI	96817-3857
RESIDENT	606 N KUKUI ST APT C	HONOLULU	HI	96817-3857
RESIDENT	606 N KUKUI ST APT D	HONOLULU	HI	96817-3857
RESIDENT	606 N KUKUI ST APT E	HONOLULU	HI	96817-3857
RESIDENT	606 N KUKUI ST APT F	HONOLULU	HI	96817-3857
RESIDENT	617 N KUKUI ST APT A	HONOLULU	HI	96817-3869
RESIDENT	617 N KUKUI ST APT B	HONOLULU	HI	96817-3869
RESIDENT	617 N KUKUI ST APT C	HONOLULU	HI	96817-3858
RESIDENT	617 N KUKUI ST APT D	HONOLULU	HI	96817-3858
RESIDENT	617 N KUKUI ST APT E	HONOLULU	HI	96817-3858
RESIDENT	617 N KUKUI ST APT F	HONOLULU	HI	96817-3858
RESIDENT	620 N KUKUI ST APT A	HONOLULU	HI	96817-3843
RESIDENT	620 N KUKUI ST APT B	HONOLULU	HI	96817-3843
RESIDENT	620 N KUKUI ST APT C	HONOLULU	HI	96817-3843
RESIDENT	620 N KUKUI ST APT D	HONOLULU	HI	96817-3843
RESIDENT	630 N KUKUI ST APT A	HONOLULU	HI	96817-3848
RESIDENT	630 N KUKUI ST APT B	HONOLULU	HI	96817-3848
RESIDENT	630 N KUKUI ST APT C	HONOLULU	HI	96817-3848
RESIDENT	630 N KUKUI ST APT D	HONOLULU	HI	96817-3848
RESIDENT	630 N KUKUI ST APT E	HONOLULU	HI	96817-3848
RESIDENT	630 N KUKUI ST APT F	HONOLULU	HI	96817-3848
RESIDENT	631 N KUKUI ST APT A	HONOLULU	HI	96817-3873
RESIDENT	631 N KUKUI ST APT B	HONOLULU	HI	96817-3873
RESIDENT	631 N KUKUI ST APT C	HONOLULU	HI	96817-3853
RESIDENT	631 N KUKUI ST APT D	HONOLULU	HI	96817-3853
RESIDENT	631 N KUKUI ST APT E	HONOLULU	HI	96817-3853
RESIDENT	631 N KUKUI ST APT F	HONOLULU	HI	96817-3853
RESIDENT	650 N KUKUI ST APT A	HONOLULU	HI	96817-3862
RESIDENT	650 N KUKUI ST APT B	HONOLULU	HI	96817-3862
RESIDENT	650 N KUKUI ST APT C	HONOLULU	HI	96817-3862
RESIDENT	650 N KUKUI ST APT D	HONOLULU	HI	96817-3862
RESIDENT	650 N KUKUI ST APT E	HONOLULU	HI	96817-3862
RESIDENT	650 N KUKUI ST APT F	HONOLULU	HI	96817-3862
RESIDENT	650 N KUKUI ST APT G	HONOLULU	HI	96817-3862
RESIDENT	650 N KUKUI ST APT H	HONOLULU	HI	96817-3862
RESIDENT	650 N KUKUI ST APT J	HONOLULU	HI	96817-3862
RESIDENT	650 N KUKUI ST APT K	HONOLULU	HI	96817-3862
RESIDENT	650 N KUKUI ST APT L	HONOLULU	HI	96817-3862
RESIDENT	650 N KUKUI ST APT M	HONOLULU	HI	96817-3862
RESIDENT	651 N KUKUI ST APT A	HONOLULU	HI	96817-3864
RESIDENT	651 N KUKUI ST APT B	HONOLULU	HI	96817-3864
RESIDENT	651 N KUKUI ST APT C	HONOLULU	HI	96817-3864
RESIDENT	651 N KUKUI ST APT D	HONOLULU	HI	96817-3864
RESIDENT	651 N KUKUI ST APT E	HONOLULU	HI	96817-3864
RESIDENT	651 N KUKUI ST APT F	HONOLULU	HI	96817-3864

RESIDENT	651 N KUKUI ST APT G	HONOLULU	HI	96817-3864
RESIDENT	651 N KUKUI ST APT H	HONOLULU	HI	96817-3864
RESIDENT	651 N KUKUI ST APT J	HONOLULU	HI	96817-3864
RESIDENT	651 N KUKUI ST APT K	HONOLULU	HI	96817-3864
RESIDENT	651 N KUKUI ST APT L	HONOLULU	HI	96817-3864
RESIDENT	651 N KUKUI ST APT M	HONOLULU	HI	96817-3864
RESIDENT	1020 LILIHA ST APT A	HONOLULU	HI	96817-4626
RESIDENT	1020 LILIHA ST APT B	HONOLULU	HI	96817-4626
RESIDENT	1020 LILIHA ST APT C	HONOLULU	HI	96817-4626
RESIDENT	1020 LILIHA ST APT D	HONOLULU	HI	96817-4626
RESIDENT	1020 LILIHA ST APT E	HONOLULU	HI	96817-4626
RESIDENT	1020 LILIHA ST APT F	HONOLULU	HI	96817-4626
RESIDENT	1020 LILIHA ST APT G	HONOLULU	HI	96817-4626
RESIDENT	1020 LILIHA ST APT H	HONOLULU	HI	96817-4626
RESIDENT	1020 LILIHA ST APT J	HONOLULU	HI	96817-4654
RESIDENT	1020 LILIHA ST APT K	HONOLULU	HI	96817-4654
RESIDENT	1020 LILIHA ST APT L	HONOLULU	HI	96817-4654
RESIDENT	1020 LILIHA ST APT M	HONOLULU	HI	96817-4654
RESIDENT	1104 LILIHA ST APT A	HONOLULU	HI	96817-4627
RESIDENT	1104 LILIHA ST APT B	HONOLULU	HI	96817-4627
RESIDENT	1104 LILIHA ST APT C	HONOLULU	HI	96817-4627
RESIDENT	1104 LILIHA ST APT D	HONOLULU	HI	96817-4627
RESIDENT	1104 LILIHA ST APT E	HONOLULU	HI	96817-4627
RESIDENT	1104 LILIHA ST APT F	HONOLULU	HI	96817-4627
RESIDENT	1104 LILIHA ST APT G	HONOLULU	HI	96817-4627
RESIDENT	1104 LILIHA ST APT H	HONOLULU	HI	96817-4635
RESIDENT	1104 LILIHA ST APT J	HONOLULU	HI	96817-4635
RESIDENT	1104 LILIHA ST APT K	HONOLULU	HI	96817-4635
RESIDENT	1104 LILIHA ST APT L	HONOLULU	HI	96817-4635
RESIDENT	1104 LILIHA ST APT M	HONOLULU	HI	96817-4635
RESIDENT	1104 LILIHA ST APT N	HONOLULU	HI	96817-4635
RESIDENT	1104 LILIHA ST APT P	HONOLULU	HI	96817-4635
RESIDENT	1104 LILIHA ST APT Q	HONOLULU	HI	96817-3877
RESIDENT	1104 LILIHA ST APT R	HONOLULU	HI	96817-3877
RESIDENT	1104 LILIHA ST APT S	HONOLULU	HI	96817-3877
RESIDENT	1104 LILIHA ST APT T	HONOLULU	HI	96817-3877
RESIDENT	1216 LILIHA ST APT A	HONOLULU	HI	96817-4651
RESIDENT	1216 LILIHA ST APT B	HONOLULU	HI	96817-4651
RESIDENT	1216 LILIHA ST APT C	HONOLULU	HI	96817-4651
RESIDENT	1216 LILIHA ST APT D	HONOLULU	HI	96817-4651
RESIDENT	1216 LILIHA ST APT E	HONOLULU	HI	96817-4651
RESIDENT	1216 LILIHA ST APT F	HONOLULU	HI	96817-4651
RESIDENT	1216 LILIHA ST APT H	HONOLULU	HI	96817-4651
RESIDENT	1216 LILIHA ST APT J	HONOLULU	HI	96817-4651
RESIDENT	1216 LILIHA ST APT K	HONOLULU	HI	96817-4651
RESIDENT	1216 LILIHA ST APT L	HONOLULU	HI	96817-4651
RESIDENT	1216 LILIHA ST APT M	HONOLULU	HI	96817-4651
RESIDENT	1216 LILIHA ST APT N	HONOLULU	HI	96817-4619
RESIDENT	1216 LILIHA ST APT P	HONOLULU	HI	96817-4619

RESIDENT	1216 LILIHA ST APT Q	HONOLULU	HI	96817-4619
RESIDENT	1216 LILIHA ST APT R	HONOLULU	HI	96817-4619
RESIDENT	1216 LILIHA ST APT S	HONOLULU	HI	96817-4619
RESIDENT	1216 LILIHA ST APT T	HONOLULU	HI	96817-4619
RESIDENT	1330 LILIHA ST APT A	HONOLULU	HI	96817-4662
RESIDENT	1330 LILIHA ST APT B	HONOLULU	HI	96817-4662
RESIDENT	1330 LILIHA ST APT C	HONOLULU	HI	96817-4662
RESIDENT	1330 LILIHA ST APT D	HONOLULU	HI	96817-4662
RESIDENT	1330 LILIHA ST APT E	HONOLULU	HI	96817-4662
RESIDENT	1330 LILIHA ST APT F	HONOLULU	HI	96817-4662
RESIDENT	1330 LILIHA ST APT G	HONOLULU	HI	96817-4662
RESIDENT	1330 LILIHA ST APT H	HONOLULU	HI	96817-4662
RESIDENT	1330 LILIHA ST APT J	HONOLULU	HI	96817-4662
RESIDENT	1330 LILIHA ST APT K	HONOLULU	HI	96817-4662
RESIDENT	1330 LILIHA ST APT L	HONOLULU	HI	96817-6602
RESIDENT	1330 LILIHA ST APT M	HONOLULU	HI	96817-6602
RESIDENT	1035 PUA LN APT A	HONOLULU	HI	96817-3802
RESIDENT	1035 PUA LN APT B	HONOLULU	HI	96817-3802
RESIDENT	1035 PUA LN APT C	HONOLULU	HI	96817-3802
RESIDENT	1035 PUA LN APT D	HONOLULU	HI	96817-3802
RESIDENT	1035 PUA LN APT E	HONOLULU	HI	96817-3802
RESIDENT	1035 PUA LN APT F	HONOLULU	HI	96817-3802
RESIDENT	1035 PUA LN APT G	HONOLULU	HI	96817-3802
RESIDENT	1035 PUA LN APT H	HONOLULU	HI	96817-3802
RESIDENT	1035 PUA LN APT J	HONOLULU	HI	96817-3802
RESIDENT	1035 PUA LN APT K	HONOLULU	HI	96817-3802
RESIDENT	1035 PUA LN APT L	HONOLULU	HI	96817-3802
RESIDENT	1035 PUA LN APT M	HONOLULU	HI	96817-3802
RESIDENT	1049 PUA LN APT A	HONOLULU	HI	96817-3879
RESIDENT	1049 PUA LN APT B	HONOLULU	HI	96817-3879
RESIDENT	1049 PUA LN APT C	HONOLULU	HI	96817-3804
RESIDENT	1049 PUA LN APT D	HONOLULU	HI	96817-3804
RESIDENT	1049 PUA LN APT E	HONOLULU	HI	96817-3804
RESIDENT	1049 PUA LN APT F	HONOLULU	HI	96817-3804
RESIDENT	1049 PUA LN APT G	HONOLULU	HI	96817-3804
RESIDENT	1049 PUA LN APT H	HONOLULU	HI	96817-3804
RESIDENT	1049 PUA LN APT J	HONOLULU	HI	96817-3804
RESIDENT	1049 PUA LN APT K	HONOLULU	HI	96817-3804
RESIDENT	1049 PUA LN APT L	HONOLULU	HI	96817-3804
RESIDENT	1049 PUA LN APT M	HONOLULU	HI	96817-3804
RESIDENT	1125 PUA LN APT A	HONOLULU	HI	96817-3882
RESIDENT	1125 PUA LN APT B	HONOLULU	HI	96817-3882
RESIDENT	1125 PUA LN APT C	HONOLULU	HI	96817-3882
RESIDENT	1125 PUA LN APT D	HONOLULU	HI	96817-3882
RESIDENT	1125 PUA LN APT E	HONOLULU	HI	96817-3882
RESIDENT	1125 PUA LN APT F	HONOLULU	HI	96817-3882
RESIDENT	1125 PUA LN APT G	HONOLULU	HI	96817-3882
RESIDENT	1125 PUA LN APT H	HONOLULU	HI	96817-3813
RESIDENT	1125 PUA LN APT J	HONOLULU	HI	96817-3813

RESIDENT	1125 PUA LN APT K	HONOLULU	HI	96817-3813
RESIDENT	1125 PUA LN APT L	HONOLULU	HI	96817-3813
RESIDENT	1125 PUA LN APT M	HONOLULU	HI	96817-3813
RESIDENT	1211 PUA LN APT A	HONOLULU	HI	96817-3819
RESIDENT	1211 PUA LN APT B	HONOLULU	HI	96817-3819
RESIDENT	1211 PUA LN APT C	HONOLULU	HI	96817-3819
RESIDENT	1211 PUA LN APT D	HONOLULU	HI	96817-3819
RESIDENT	1211 PUA LN APT E	HONOLULU	HI	96817-3819
RESIDENT	1211 PUA LN APT F	HONOLULU	HI	96817-3819
RESIDENT	1211 PUA LN APT G	HONOLULU	HI	96817-3819
RESIDENT	1211 PUA LN APT H	HONOLULU	HI	96817-3819
RESIDENT	1211 PUA LN APT J	HONOLULU	HI	96817-3819
RESIDENT	1211 PUA LN APT K	HONOLULU	HI	96817-3819
RESIDENT	1211 PUA LN APT L	HONOLULU	HI	96817-3884
RESIDENT	1211 PUA LN APT M	HONOLULU	HI	96817-3884
RESIDENT	1235 PUA LN APT A	HONOLULU	HI	96817-3830
RESIDENT	1235 PUA LN APT C	HONOLULU	HI	96817-3830
RESIDENT	1235 PUA LN APT D	HONOLULU	HI	96817-3830
RESIDENT	1235 PUA LN APT E	HONOLULU	HI	96817-3830
RESIDENT	1235 PUA LN APT F	HONOLULU	HI	96817-3830
RESIDENT	1235 PUA LN APT G	HONOLULU	HI	96817-3830
RESIDENT	1235 PUA LN APT H	HONOLULU	HI	96817-3830
RESIDENT	1235 PUA LN APT J	HONOLULU	HI	96817-3830
RESIDENT	1235 PUA LN APT K	HONOLULU	HI	96817-3830
RESIDENT	1235 PUA LN APT L	HONOLULU	HI	96817-3830
RESIDENT	1235 PUA LN APT M	HONOLULU	HI	96817-3830
RESIDENT	529 N VINEYARD BLVD APT A	HONOLULU	HI	96817-3835
RESIDENT	529 N VINEYARD BLVD APT B	HONOLULU	HI	96817-3835
RESIDENT	529 N VINEYARD BLVD APT C	HONOLULU	HI	96817-3835
RESIDENT	529 N VINEYARD BLVD APT D	HONOLULU	HI	96817-3835
RESIDENT	529 N VINEYARD BLVD APT E	HONOLULU	HI	96817-3835
RESIDENT	529 N VINEYARD BLVD APT F	HONOLULU	HI	96817-3835
RESIDENT	529 N VINEYARD BLVD APT G	HONOLULU	HI	96817-3835
RESIDENT	529 N VINEYARD BLVD APT H	HONOLULU	HI	96817-3835
RESIDENT	529 N VINEYARD BLVD APT J	HONOLULU	HI	96817-3835
RESIDENT	529 N VINEYARD BLVD APT K	HONOLULU	HI	96817-3835
RESIDENT	529 N VINEYARD BLVD APT L	HONOLULU	HI	96817-3835
RESIDENT	529 N VINEYARD BLVD APT M	HONOLULU	HI	96817-3835
RESIDENT	559 N VINEYARD BLVD APT A	HONOLULU	HI	96817-3886
RESIDENT	559 N VINEYARD BLVD APT B	HONOLULU	HI	96817-3886
RESIDENT	559 N VINEYARD BLVD APT C	HONOLULU	HI	96817-3886
RESIDENT	559 N VINEYARD BLVD APT D	HONOLULU	HI	96817-3886
RESIDENT	559 N VINEYARD BLVD APT E	HONOLULU	HI	96817-3836
RESIDENT	559 N VINEYARD BLVD APT F	HONOLULU	HI	96817-3836
RESIDENT	559 N VINEYARD BLVD APT G	HONOLULU	HI	96817-3836
RESIDENT	559 N VINEYARD BLVD APT H	HONOLULU	HI	96817-3836
RESIDENT	559 N VINEYARD BLVD APT J	HONOLULU	HI	96817-3836
RESIDENT	559 N VINEYARD BLVD APT K	HONOLULU	HI	96817-3836
RESIDENT	559 N VINEYARD BLVD APT L	HONOLULU	HI	96817-3836

RESIDENT	559 N VINEYARD BLVD APT M	HONOLULU	HI	96817-3836
RESIDENT	577 N VINEYARD BLVD APT A	HONOLULU	HI	96817-3837
RESIDENT	577 N VINEYARD BLVD APT B	HONOLULU	HI	96817-3837
RESIDENT	577 N VINEYARD BLVD APT C	HONOLULU	HI	96817-3837
RESIDENT	577 N VINEYARD BLVD APT D	HONOLULU	HI	96817-3837
RESIDENT	577 N VINEYARD BLVD APT E	HONOLULU	HI	96817-3837
RESIDENT	577 N VINEYARD BLVD APT F	HONOLULU	HI	96817-3837
RESIDENT	605 N VINEYARD BLVD APT A	HONOLULU	HI	96817-3888
RESIDENT	605 N VINEYARD BLVD APT B	HONOLULU	HI	96817-3888
RESIDENT	605 N VINEYARD BLVD APT C	HONOLULU	HI	96817-3814
RESIDENT	605 N VINEYARD BLVD APT D	HONOLULU	HI	96817-3814
RESIDENT	605 N VINEYARD BLVD APT E	HONOLULU	HI	96817-3814
RESIDENT	605 N VINEYARD BLVD APT F	HONOLULU	HI	96817-3814
RESIDENT	619 N VINEYARD BLVD STE A	HONOLULU	HI	96817-3840
RESIDENT	619 N VINEYARD BLVD APT B	HONOLULU	HI	96817-3840
RESIDENT	619 N VINEYARD BLVD APT C	HONOLULU	HI	96817-3840
RESIDENT	619 N VINEYARD BLVD APT D	HONOLULU	HI	96817-3840
RESIDENT	619 N VINEYARD BLVD APT E	HONOLULU	HI	96817-3840
RESIDENT	619 N VINEYARD BLVD APT F	HONOLULU	HI	96817-3840
RESIDENT	619 N VINEYARD BLVD APT G	HONOLULU	HI	96817-3840
RESIDENT	619 N VINEYARD BLVD APT H	HONOLULU	HI	96817-3840
RESIDENT	619 N VINEYARD BLVD APT J	HONOLULU	HI	96817-3840
RESIDENT	619 N VINEYARD BLVD APT K	HONOLULU	HI	96817-3840
RESIDENT	619 N VINEYARD BLVD APT L	HONOLULU	HI	96817-3840
RESIDENT	619 N VINEYARD BLVD APT M	HONOLULU	HI	96817-3840
RESIDENT	649 N VINEYARD BLVD APT A	HONOLULU	HI	96817-3844
RESIDENT	649 N VINEYARD BLVD APT B	HONOLULU	HI	96817-3844
RESIDENT	649 N VINEYARD BLVD APT C	HONOLULU	HI	96817-3844
RESIDENT	649 N VINEYARD BLVD APT D	HONOLULU	HI	96817-3844
RESIDENT	649 N VINEYARD BLVD APT E	HONOLULU	HI	96817-3844
RESIDENT	649 N VINEYARD BLVD APT F	HONOLULU	HI	96817-3844
RESIDENT	649 N VINEYARD BLVD APT G	HONOLULU	HI	96817-3844
RESIDENT	649 N VINEYARD BLVD APT H	HONOLULU	HI	96817-3844
RESIDENT	649 N VINEYARD BLVD APT J	HONOLULU	HI	96817-3844
RESIDENT	649 N VINEYARD BLVD APT K	HONOLULU	HI	96817-3844
RESIDENT	649 N VINEYARD BLVD APT L	HONOLULU	HI	96817-3844
RESIDENT	649 N VINEYARD BLVD APT M	HONOLULU	HI	96817-3844
BUSINESS OCCUPANT	521 N KUKUI ST	HONOLULU	HI	96817-3846
BUSINESS OCCUPANT	517 N VINEYARD BLVD	HONOLULU	HI	96817-3834
BUSINESS OCCUPANT	515 N VINEYARD BLVD	HONOLULU	HI	96817-3834
BUSINESS OCCUPANT	511 N VINEYARD BLVD	HONOLULU	HI	96817-3834
BUSINESS OCCUPANT	1380 LILIHA ST	HONOLULU	HI	96817-4653
RESIDENT	1370 LILIHA ST APT A	HONOLULU	HI	96817-4690
RESIDENT	1370 LILIHA ST APT B	HONOLULU	HI	96817-4690
RESIDENT	1370 LILIHA ST APT C	HONOLULU	HI	96817-4690
RESIDENT	1370 LILIHA ST APT D	HONOLULU	HI	96817-4690
RESIDENT	1370 LILIHA ST APT E	HONOLULU	HI	96817-4690
RESIDENT	1370 LILIHA ST APT F	HONOLULU	HI	96817-4690
RESIDENT	1370 LILIHA ST APT G	HONOLULU	HI	96817-4663

RESIDENT	1370 LILIHA ST APT H	HONOLULU	HI	96817-4663
RESIDENT	1370 LILIHA ST APT I	HONOLULU	HI	96817-4663
RESIDENT	1370 LILIHA ST APT J	HONOLULU	HI	96817-4663
RESIDENT	1370 LILIHA ST APT K	HONOLULU	HI	96817-4663
BUSINESS OCCUPANT	1340 LILIHA ST	HONOLULU	HI	96817-4653
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 100	HONOLULU	HI	96817-3938
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 200	HONOLULU	HI	96817-3938
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 210	HONOLULU	HI	96817-3938
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 220	HONOLULU	HI	96817-3938
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 230	HONOLULU	HI	96817-3938
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 300	HONOLULU	HI	96817-3922
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 310	HONOLULU	HI	96817-3938
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 315	HONOLULU	HI	96817-3952
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 320	HONOLULU	HI	96817-3938
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 325	HONOLULU	HI	96817-3938
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 330	HONOLULU	HI	96817-3938
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 410	HONOLULU	HI	96817-3952
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 274	HONOLULU	HI	96817-3952
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 270	HONOLULU	HI	96817-3922
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 420	HONOLULU	HI	96817-3952
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 425	HONOLULU	HI	96817-3952
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 430	HONOLULU	HI	96817-3952
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 265	HONOLULU	HI	96817-3922
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 501	HONOLULU	HI	96817-3952
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 506	HONOLULU	HI	96817-3952
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 508	HONOLULU	HI	96817-3952
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 253	HONOLULU	HI	96817-3952
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 260	HONOLULU	HI	96817-3950
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 700	HONOLULU	HI	96817-3952
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 271	HONOLULU	HI	96817-3938
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 151	HONOLULU	HI	96817-3938
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 152	HONOLULU	HI	96817-3938
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 153	HONOLULU	HI	96817-3938
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 251	HONOLULU	HI	96817-3950
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 259	HONOLULU	HI	96817-3952
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 257	HONOLULU	HI	96817-3952
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 263	HONOLULU	HI	96817-3922
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 261	HONOLULU	HI	96817-3922
BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 256	HONOLULU	HI	96817-3938
BUSINESS OCCUPANT	296 N VINEYARD BLVD	HONOLULU	HI	96817-3917
RESIDENT	366 N VINEYARD BLVD APT F16	HONOLULU	HI	96817-3662
RESIDENT	366 N VINEYARD BLVD APT F17	HONOLULU	HI	96817-3662
RESIDENT	366 N VINEYARD BLVD APT F25	HONOLULU	HI	96817-6203
RESIDENT	366 N VINEYARD BLVD APT F26	HONOLULU	HI	96817-6203
RESIDENT	366 N VINEYARD BLVD APT F35	HONOLULU	HI	96817-3691
RESIDENT	366 N VINEYARD BLVD APT F36	HONOLULU	HI	96817-3691
RESIDENT	370 N VINEYARD BLVD APT F14	HONOLULU	HI	96817-3664
RESIDENT	370 N VINEYARD BLVD APT F15	HONOLULU	HI	96817-3664
RESIDENT	370 N VINEYARD BLVD APT F23	HONOLULU	HI	96817-6204

RESIDENT	370 N VINEYARD BLVD APT F24	HONOLULU	HI	96817-6204
RESIDENT	370 N VINEYARD BLVD APT F33	HONOLULU	HI	96817-3661
RESIDENT	370 N VINEYARD BLVD APT F34	HONOLULU	HI	96817-3661
RESIDENT	374 N VINEYARD BLVD APT F11	HONOLULU	HI	96817-3665
RESIDENT	374 N VINEYARD BLVD APT F12	HONOLULU	HI	96817-3665
RESIDENT	374 N VINEYARD BLVD APT F21	HONOLULU	HI	96817-6205
RESIDENT	374 N VINEYARD BLVD APT F22	HONOLULU	HI	96817-6205
RESIDENT	374 N VINEYARD BLVD APT F31	HONOLULU	HI	96817-3673
RESIDENT	374 N VINEYARD BLVD APT F32	HONOLULU	HI	96817-3673
RESIDENT	378 N VINEYARD BLVD APT D11	HONOLULU	HI	96817-3666
RESIDENT	378 N VINEYARD BLVD APT D12	HONOLULU	HI	96817-3666
RESIDENT	378 N VINEYARD BLVD APT D21	HONOLULU	HI	96817-6206
RESIDENT	378 N VINEYARD BLVD APT D22	HONOLULU	HI	96817-6206
RESIDENT	378 N VINEYARD BLVD APT D31	HONOLULU	HI	96817-3684
RESIDENT	378 N VINEYARD BLVD APT D32	HONOLULU	HI	96817-3684
RESIDENT	382 N VINEYARD BLVD APT B11	HONOLULU	HI	96817-3667
RESIDENT	382 N VINEYARD BLVD APT B12	HONOLULU	HI	96817-3667
RESIDENT	382 N VINEYARD BLVD APT B21	HONOLULU	HI	96817-6207
RESIDENT	382 N VINEYARD BLVD APT B22	HONOLULU	HI	96817-6207
RESIDENT	382 N VINEYARD BLVD APT B31	HONOLULU	HI	96817-3687
RESIDENT	382 N VINEYARD BLVD APT B32	HONOLULU	HI	96817-3687
RESIDENT	386 N VINEYARD BLVD APT B14	HONOLULU	HI	96817-3611
RESIDENT	386 N VINEYARD BLVD APT B15	HONOLULU	HI	96817-3611
RESIDENT	386 N VINEYARD BLVD APT B23	HONOLULU	HI	96817-3611
RESIDENT	386 N VINEYARD BLVD APT B24	HONOLULU	HI	96817-3679
RESIDENT	386 N VINEYARD BLVD APT B33	HONOLULU	HI	96817-3644
RESIDENT	386 N VINEYARD BLVD APT B34	HONOLULU	HI	96817-3644
RESIDENT	392 N VINEYARD BLVD APT B16	HONOLULU	HI	96817-3612
RESIDENT	392 N VINEYARD BLVD APT B17	HONOLULU	HI	96817-3612
RESIDENT	392 N VINEYARD BLVD APT B25	HONOLULU	HI	96817-3612
RESIDENT	392 N VINEYARD BLVD APT B26	HONOLULU	HI	96817-3681
RESIDENT	392 N VINEYARD BLVD APT B35	HONOLULU	HI	96817-3668
RESIDENT	392 N VINEYARD BLVD APT B36	HONOLULU	HI	96817-3668
RESIDENT	404 N VINEYARD BLVD APT A16	HONOLULU	HI	96817-3613
RESIDENT	404 N VINEYARD BLVD APT A17	HONOLULU	HI	96817-3613
RESIDENT	404 N VINEYARD BLVD APT A25	HONOLULU	HI	96817-3613
RESIDENT	404 N VINEYARD BLVD APT A26	HONOLULU	HI	96817-3694
RESIDENT	404 N VINEYARD BLVD APT A35	HONOLULU	HI	96817-3672
RESIDENT	404 N VINEYARD BLVD APT A36	HONOLULU	HI	96817-3672
RESIDENT	408 N VINEYARD BLVD APT A14	HONOLULU	HI	96817-3614
RESIDENT	408 N VINEYARD BLVD APT A15	HONOLULU	HI	96817-3614
RESIDENT	408 N VINEYARD BLVD APT A23	HONOLULU	HI	96817-3614
RESIDENT	408 N VINEYARD BLVD APT A24	HONOLULU	HI	96817-3695
RESIDENT	408 N VINEYARD BLVD APT A33	HONOLULU	HI	96817-3674
RESIDENT	408 N VINEYARD BLVD APT A34	HONOLULU	HI	96817-3674
RESIDENT	412 N VINEYARD BLVD APT A11	HONOLULU	HI	96817-3615
RESIDENT	412 N VINEYARD BLVD APT A12	HONOLULU	HI	96817-3615
RESIDENT	412 N VINEYARD BLVD APT A21	HONOLULU	HI	96817-3696
RESIDENT	412 N VINEYARD BLVD APT A22	HONOLULU	HI	96817-3696

RESIDENT	412 N VINEYARD BLVD APT A31	HONOLULU	HI	96817-3678
RESIDENT	412 N VINEYARD BLVD APT A32	HONOLULU	HI	96817-3678
RESIDENT	418 N VINEYARD BLVD APT C11	HONOLULU	HI	96817-3616
RESIDENT	418 N VINEYARD BLVD APT C12	HONOLULU	HI	96817-3616
RESIDENT	418 N VINEYARD BLVD APT C21	HONOLULU	HI	96817-3697
RESIDENT	418 N VINEYARD BLVD APT C22	HONOLULU	HI	96817-3697
RESIDENT	418 N VINEYARD BLVD APT C31	HONOLULU	HI	96817-3680
RESIDENT	418 N VINEYARD BLVD APT C32	HONOLULU	HI	96817-3680
RESIDENT	424 N VINEYARD BLVD APT E11	HONOLULU	HI	96817-3617
RESIDENT	424 N VINEYARD BLVD APT E12	HONOLULU	HI	96817-3617
RESIDENT	424 N VINEYARD BLVD APT E21	HONOLULU	HI	96817-3698
RESIDENT	424 N VINEYARD BLVD APT E22	HONOLULU	HI	96817-3698
RESIDENT	424 N VINEYARD BLVD APT E31	HONOLULU	HI	96817-3683
RESIDENT	424 N VINEYARD BLVD APT E32	HONOLULU	HI	96817-3683
RESIDENT	430 N VINEYARD BLVD APT E14	HONOLULU	HI	96817-3618
RESIDENT	430 N VINEYARD BLVD APT E15	HONOLULU	HI	96817-3618
RESIDENT	430 N VINEYARD BLVD APT E23	HONOLULU	HI	96817-3618
RESIDENT	430 N VINEYARD BLVD APT E24	HONOLULU	HI	96817-3699
RESIDENT	430 N VINEYARD BLVD APT E33	HONOLULU	HI	96817-3685
RESIDENT	430 N VINEYARD BLVD APT E34	HONOLULU	HI	96817-3685
RESIDENT	436 N VINEYARD BLVD APT E16	HONOLULU	HI	96817-3619
RESIDENT	436 N VINEYARD BLVD APT E17	HONOLULU	HI	96817-3619
RESIDENT	436 N VINEYARD BLVD APT E25	HONOLULU	HI	96817-6208
RESIDENT	436 N VINEYARD BLVD APT E26	HONOLULU	HI	96817-6208
RESIDENT	436 N VINEYARD BLVD APT E35	HONOLULU	HI	96817-3689
RESIDENT	436 N VINEYARD BLVD APT E36	HONOLULU	HI	96817-3689
BUSINESS OCCUPANT	1425 LILIHA ST STE 1	HONOLULU	HI	96817-3582
BUSINESS OCCUPANT	1425 LILIHA ST STE 2	HONOLULU	HI	96817-3582
BUSINESS OCCUPANT	1425 LILIHA ST STE 3	HONOLULU	HI	96817-3582
BUSINESS OCCUPANT	1425 LILIHA ST STE 6	HONOLULU	HI	96817-3582
BUSINESS OCCUPANT	1425 LILIHA ST STE 8	HONOLULU	HI	96817-3582
BUSINESS OCCUPANT	1425 LILIHA ST STE 9	HONOLULU	HI	96817-3582
BUSINESS OCCUPANT	1425 LILIHA ST STE 11	HONOLULU	HI	96817-3582
RESIDENT	1425 LILIHA ST APT 3A	HONOLULU	HI	96817-3506
RESIDENT	1425 LILIHA ST APT 3B	HONOLULU	HI	96817-3506
RESIDENT	1425 LILIHA ST APT 3C	HONOLULU	HI	96817-3506
RESIDENT	1425 LILIHA ST APT 3D	HONOLULU	HI	96817-3506
RESIDENT	1425 LILIHA ST APT 3E	HONOLULU	HI	96817-3506
RESIDENT	1425 LILIHA ST APT 3F	HONOLULU	HI	96817-3506
RESIDENT	1425 LILIHA ST APT 7C	HONOLULU	HI	96817-3510
RESIDENT	1425 LILIHA ST APT 7D	HONOLULU	HI	96817-3510
RESIDENT	1425 LILIHA ST APT 7E	HONOLULU	HI	96817-3510
RESIDENT	1425 LILIHA ST APT 7F	HONOLULU	HI	96817-3510
RESIDENT	1425 LILIHA ST APT 7G	HONOLULU	HI	96817-3510
RESIDENT	1425 LILIHA ST APT 7H	HONOLULU	HI	96817-3510
RESIDENT	1425 LILIHA ST APT 3G	HONOLULU	HI	96817-3506
RESIDENT	1425 LILIHA ST APT 3H	HONOLULU	HI	96817-3506
RESIDENT	1425 LILIHA ST APT 4A	HONOLULU	HI	96817-3506
RESIDENT	1425 LILIHA ST APT 4B	HONOLULU	HI	96817-3506

RESIDENT	1425 LILIHA ST APT 4C	HONOLULU	HI	96817-3507
RESIDENT	1425 LILIHA ST APT 4D	HONOLULU	HI	96817-3507
RESIDENT	1425 LILIHA ST APT 4E	HONOLULU	HI	96817-3507
RESIDENT	1425 LILIHA ST APT 8A	HONOLULU	HI	96817-3593
RESIDENT	1425 LILIHA ST APT 8B	HONOLULU	HI	96817-3593
RESIDENT	1425 LILIHA ST APT 8C	HONOLULU	HI	96817-3593
RESIDENT	1425 LILIHA ST APT 8D	HONOLULU	HI	96817-3593
RESIDENT	1425 LILIHA ST APT 8E	HONOLULU	HI	96817-3593
RESIDENT	1425 LILIHA ST APT 8F	HONOLULU	HI	96817-3593
RESIDENT	1425 LILIHA ST APT 8G	HONOLULU	HI	96817-3593
RESIDENT	1425 LILIHA ST APT 4F	HONOLULU	HI	96817-3507
RESIDENT	1425 LILIHA ST APT 4G	HONOLULU	HI	96817-3507
RESIDENT	1425 LILIHA ST APT 4H	HONOLULU	HI	96817-3507
RESIDENT	1425 LILIHA ST APT 5A	HONOLULU	HI	96817-3507
RESIDENT	1425 LILIHA ST APT 5B	HONOLULU	HI	96817-3507
RESIDENT	1425 LILIHA ST APT 5C	HONOLULU	HI	96817-3507
RESIDENT	1425 LILIHA ST APT 5D	HONOLULU	HI	96817-3507
RESIDENT	1425 LILIHA ST APT 8H	HONOLULU	HI	96817-3511
RESIDENT	1425 LILIHA ST APT 9A	HONOLULU	HI	96817-3511
RESIDENT	1425 LILIHA ST APT 9B	HONOLULU	HI	96817-3511
RESIDENT	1425 LILIHA ST APT 9C	HONOLULU	HI	96817-3511
RESIDENT	1425 LILIHA ST APT 9D	HONOLULU	HI	96817-3511
RESIDENT	1425 LILIHA ST APT 9E	HONOLULU	HI	96817-3511
RESIDENT	1425 LILIHA ST APT 9F	HONOLULU	HI	96817-3511
RESIDENT	1425 LILIHA ST APT 5E	HONOLULU	HI	96817-3508
RESIDENT	1425 LILIHA ST APT 5F	HONOLULU	HI	96817-3508
RESIDENT	1425 LILIHA ST APT 5G	HONOLULU	HI	96817-3508
RESIDENT	1425 LILIHA ST APT 5H	HONOLULU	HI	96817-3508
RESIDENT	1425 LILIHA ST APT 6A	HONOLULU	HI	96817-3508
RESIDENT	1425 LILIHA ST APT 6B	HONOLULU	HI	96817-3508
RESIDENT	1425 LILIHA ST APT 6C	HONOLULU	HI	96817-3508
RESIDENT	1425 LILIHA ST APT 9G	HONOLULU	HI	96817-3512
RESIDENT	1425 LILIHA ST APT 9H	HONOLULU	HI	96817-3512
RESIDENT	1425 LILIHA ST APT 10A	HONOLULU	HI	96817-3512
RESIDENT	1425 LILIHA ST APT 10B	HONOLULU	HI	96817-3512
RESIDENT	1425 LILIHA ST APT 10C	HONOLULU	HI	96817-3512
RESIDENT	1425 LILIHA ST APT 10D	HONOLULU	HI	96817-3512
RESIDENT	1425 LILIHA ST APT 10E	HONOLULU	HI	96817-3512
RESIDENT	1425 LILIHA ST APT 6D	HONOLULU	HI	96817-3509
RESIDENT	1425 LILIHA ST APT 6E	HONOLULU	HI	96817-3509
RESIDENT	1425 LILIHA ST APT 6F	HONOLULU	HI	96817-3509
RESIDENT	1425 LILIHA ST APT 6G	HONOLULU	HI	96817-3509
RESIDENT	1425 LILIHA ST APT 6H	HONOLULU	HI	96817-3509
RESIDENT	1425 LILIHA ST APT 7A	HONOLULU	HI	96817-3509
RESIDENT	1425 LILIHA ST APT 7B	HONOLULU	HI	96817-3509
RESIDENT	1425 LILIHA ST APT 10F	HONOLULU	HI	96817-3523
RESIDENT	1425 LILIHA ST APT 10G	HONOLULU	HI	96817-3523
RESIDENT	1425 LILIHA ST APT 10H	HONOLULU	HI	96817-3523
RESIDENT	1425 LILIHA ST APT 11A	HONOLULU	HI	96817-3523

RESIDENT	1425 LILIHA ST APT 11B	HONOLULU	HI	96817-3523
RESIDENT	1425 LILIHA ST APT 11C	HONOLULU	HI	96817-3523
RESIDENT	1425 LILIHA ST APT 11D	HONOLULU	HI	96817-3523
RESIDENT	1425 LILIHA ST APT 11E	HONOLULU	HI	96817-3514
RESIDENT	1425 LILIHA ST APT 11F	HONOLULU	HI	96817-3514
RESIDENT	1425 LILIHA ST APT 11G	HONOLULU	HI	96817-3514
RESIDENT	1425 LILIHA ST APT 11H	HONOLULU	HI	96817-3514
RESIDENT	1425 LILIHA ST APT 12A	HONOLULU	HI	96817-3514
RESIDENT	1425 LILIHA ST APT 12B	HONOLULU	HI	96817-3514
RESIDENT	1425 LILIHA ST APT 12C	HONOLULU	HI	96817-3514
RESIDENT	1425 LILIHA ST APT 16H	HONOLULU	HI	96817-3518
RESIDENT	1425 LILIHA ST APT 17A	HONOLULU	HI	96817-3518
RESIDENT	1425 LILIHA ST APT 17B	HONOLULU	HI	96817-3518
RESIDENT	1425 LILIHA ST APT 17C	HONOLULU	HI	96817-3518
RESIDENT	1425 LILIHA ST APT 17D	HONOLULU	HI	96817-3518
RESIDENT	1425 LILIHA ST APT 17E	HONOLULU	HI	96817-3518
RESIDENT	1425 LILIHA ST APT 17F	HONOLULU	HI	96817-3518
RESIDENT	1425 LILIHA ST APT 12D	HONOLULU	HI	96817-3515
RESIDENT	1425 LILIHA ST APT 12E	HONOLULU	HI	96817-3515
RESIDENT	1425 LILIHA ST APT 12F	HONOLULU	HI	96817-3515
RESIDENT	1425 LILIHA ST APT 12G	HONOLULU	HI	96817-3515
RESIDENT	1425 LILIHA ST APT 12H	HONOLULU	HI	96817-3515
RESIDENT	1425 LILIHA ST APT 14A	HONOLULU	HI	96817-3515
RESIDENT	1425 LILIHA ST APT 14B	HONOLULU	HI	96817-3515
RESIDENT	1425 LILIHA ST APT 17G	HONOLULU	HI	96817-3519
RESIDENT	1425 LILIHA ST APT 17H	HONOLULU	HI	96817-3519
RESIDENT	1425 LILIHA ST APT 18A	HONOLULU	HI	96817-3519
RESIDENT	1425 LILIHA ST APT 18B	HONOLULU	HI	96817-3519
RESIDENT	1425 LILIHA ST APT 18C	HONOLULU	HI	96817-3519
RESIDENT	1425 LILIHA ST APT 18D	HONOLULU	HI	96817-3519
RESIDENT	1425 LILIHA ST APT 18E	HONOLULU	HI	96817-3519
RESIDENT	1425 LILIHA ST APT 14C	HONOLULU	HI	96817-3516
RESIDENT	1425 LILIHA ST APT 14D	HONOLULU	HI	96817-3516
RESIDENT	1425 LILIHA ST APT 14E	HONOLULU	HI	96817-3516
RESIDENT	1425 LILIHA ST APT 14F	HONOLULU	HI	96817-3516
RESIDENT	1425 LILIHA ST APT 14G	HONOLULU	HI	96817-3516
RESIDENT	1425 LILIHA ST APT 14H	HONOLULU	HI	96817-3516
RESIDENT	1425 LILIHA ST APT 15A	HONOLULU	HI	96817-3516
RESIDENT	1425 LILIHA ST APT 18F	HONOLULU	HI	96817-3520
RESIDENT	1425 LILIHA ST APT 18G	HONOLULU	HI	96817-3520
RESIDENT	1425 LILIHA ST APT 18H	HONOLULU	HI	96817-3520
RESIDENT	1425 LILIHA ST APT 19A	HONOLULU	HI	96817-3520
RESIDENT	1425 LILIHA ST APT 19B	HONOLULU	HI	96817-3520
RESIDENT	1425 LILIHA ST APT 19C	HONOLULU	HI	96817-3520
RESIDENT	1425 LILIHA ST APT 19D	HONOLULU	HI	96817-3520
RESIDENT	1425 LILIHA ST APT 15B	HONOLULU	HI	96817-3594
RESIDENT	1425 LILIHA ST APT 15C	HONOLULU	HI	96817-3594
RESIDENT	1425 LILIHA ST APT 15D	HONOLULU	HI	96817-3594
RESIDENT	1425 LILIHA ST APT 15E	HONOLULU	HI	96817-3594

RESIDENT	1425 LILIHA ST APT 15F	HONOLULU	HI	96817-3594
RESIDENT	1425 LILIHA ST APT 15G	HONOLULU	HI	96817-3594
RESIDENT	1425 LILIHA ST APT 15H	HONOLULU	HI	96817-3594
RESIDENT	1425 LILIHA ST APT 19E	HONOLULU	HI	96817-3595
RESIDENT	1425 LILIHA ST APT 19F	HONOLULU	HI	96817-3595
RESIDENT	1425 LILIHA ST APT 19G	HONOLULU	HI	96817-3595
RESIDENT	1425 LILIHA ST APT 19H	HONOLULU	HI	96817-3595
RESIDENT	1425 LILIHA ST APT 20A	HONOLULU	HI	96817-3595
RESIDENT	1425 LILIHA ST APT 20C	HONOLULU	HI	96817-3521
RESIDENT	1425 LILIHA ST APT 16A	HONOLULU	HI	96817-3517
RESIDENT	1425 LILIHA ST APT 16B	HONOLULU	HI	96817-3517
RESIDENT	1425 LILIHA ST APT 16C	HONOLULU	HI	96817-3517
RESIDENT	1425 LILIHA ST APT 16D	HONOLULU	HI	96817-3517
RESIDENT	1425 LILIHA ST APT 16E	HONOLULU	HI	96817-3517
RESIDENT	1425 LILIHA ST APT 16F	HONOLULU	HI	96817-3517
RESIDENT	1425 LILIHA ST APT 16G	HONOLULU	HI	96817-3517
RESIDENT	1425 LILIHA ST APT 20D	HONOLULU	HI	96817-3521
RESIDENT	1425 LILIHA ST APT 20E	HONOLULU	HI	96817-3521
RESIDENT	1425 LILIHA ST APT 20F	HONOLULU	HI	96817-3521
RESIDENT	1425 LILIHA ST APT 20G	HONOLULU	HI	96817-3521
RESIDENT	1425 LILIHA ST APT 20H	HONOLULU	HI	96817-3521
RESIDENT	1470 LILIHA ST APT 1	HONOLULU	HI	96817-3524
RESIDENT	1470 LILIHA ST APT 2	HONOLULU	HI	96817-3524
BUSINESS OCCUPANT	1472 LILIHA ST	HONOLULU	HI	96817-3524
BUSINESS OCCUPANT	1466 LILIHA ST	HONOLULU	HI	96817-3524
BUSINESS OCCUPANT	1448 LILIHA ST STE 101	HONOLULU	HI	96817-3589
BUSINESS OCCUPANT	1448 LILIHA ST STE 101	HONOLULU	HI	96817-3589
BUSINESS OCCUPANT	1448 LILIHA ST STE 101	HONOLULU	HI	96817-3589
BUSINESS OCCUPANT	1448 LILIHA ST STE 101	HONOLULU	HI	96817-3589
BUSINESS OCCUPANT	1448 LILIHA ST STE 101	HONOLULU	HI	96817-3589
RESIDENT	508 MALANAI PL APT A	HONOLULU	HI	96817-3585
RESIDENT	508 MALANAI PL APT B	HONOLULU	HI	96817-3585
RESIDENT	508 MALANAI PL APT C	HONOLULU	HI	96817-3585
RESIDENT	508 MALANAI PL APT D	HONOLULU	HI	96817-3585
RESIDENT	510 MALANAI PL APT A	HONOLULU	HI	96817-3597
RESIDENT	510 MALANAI PL APT B	HONOLULU	HI	96817-3597
RESIDENT	510 MALANAI PL APT C	HONOLULU	HI	96817-3597
RESIDENT	510 MALANAI PL APT D	HONOLULU	HI	96817-3597
RESIDENT	515 MALANAI PL	HONOLULU	HI	96817-3529
RESIDENT	529 MALANAI PL	HONOLULU	HI	96817-3529
RESIDENT	1438 LILIHA ST APT 109	HONOLULU	HI	96817-6107
RESIDENT	1438 LILIHA ST APT 110	HONOLULU	HI	96817-6107
RESIDENT	1438 LILIHA ST APT 111	HONOLULU	HI	96817-6107
RESIDENT	1438 LILIHA ST APT 101	HONOLULU	HI	96817-6107
RESIDENT	1438 LILIHA ST APT 102	HONOLULU	HI	96817-6107
RESIDENT	1438 LILIHA ST APT 103	HONOLULU	HI	96817-6107
RESIDENT	1438 LILIHA ST APT 104	HONOLULU	HI	96817-6107
RESIDENT	1438 LILIHA ST APT 105	HONOLULU	HI	96817-6107
RESIDENT	1438 LILIHA ST APT 106	HONOLULU	HI	96817-6107

RESIDENT	1438 LILIHA ST APT 107	HONOLULU	HI	96817-6108
RESIDENT	1438 LILIHA ST APT 108	HONOLULU	HI	96817-6108
RESIDENT	1438 LILIHA ST APT 201	HONOLULU	HI	96817-6108
RESIDENT	1438 LILIHA ST APT 202	HONOLULU	HI	96817-6108
RESIDENT	1438 LILIHA ST APT 203	HONOLULU	HI	96817-6108
RESIDENT	1438 LILIHA ST APT 204	HONOLULU	HI	96817-6108
RESIDENT	1438 LILIHA ST APT 205	HONOLULU	HI	96817-6110
RESIDENT	1438 LILIHA ST APT 206	HONOLULU	HI	96817-6110
RESIDENT	1438 LILIHA ST APT 207	HONOLULU	HI	96817-6110
RESIDENT	1438 LILIHA ST APT 208	HONOLULU	HI	96817-6110
RESIDENT	1438 LILIHA ST APT 209	HONOLULU	HI	96817-6110
RESIDENT	1438 LILIHA ST APT 210	HONOLULU	HI	96817-6110
RESIDENT	1438 LILIHA ST APT 211	HONOLULU	HI	96817-6109
RESIDENT	1438 LILIHA ST APT 301	HONOLULU	HI	96817-6109
RESIDENT	1438 LILIHA ST APT 302	HONOLULU	HI	96817-6109
RESIDENT	1438 LILIHA ST APT 303	HONOLULU	HI	96817-6109
RESIDENT	1438 LILIHA ST APT 304	HONOLULU	HI	96817-6109
RESIDENT	1438 LILIHA ST APT 305	HONOLULU	HI	96817-6109
RESIDENT	1438 LILIHA ST APT 306	HONOLULU	HI	96817-6111
RESIDENT	1438 LILIHA ST APT 307	HONOLULU	HI	96817-6111
RESIDENT	1438 LILIHA ST APT 308	HONOLULU	HI	96817-6111
RESIDENT	1438 LILIHA ST APT 309	HONOLULU	HI	96817-6111
RESIDENT	1438 LILIHA ST APT 310	HONOLULU	HI	96817-6111
RESIDENT	1438 LILIHA ST APT 311	HONOLULU	HI	96817-6111
BUSINESS OCCUPANT	1430 LILIHA ST STE C	HONOLULU	HI	96817-6105
BUSINESS OCCUPANT	1430 LILIHA ST STE B	HONOLULU	HI	96817-6105
BUSINESS OCCUPANT	1430 LILIHA ST STE A	HONOLULU	HI	96817-6105
RESIDENT	1432 LILIHA ST REAR	HONOLULU	HI	96817-3504
RESIDENT	1432 LILIHA ST REAR	HONOLULU	HI	96817-3504
RESIDENT	1432 LILIHA ST REAR	HONOLULU	HI	96817-3504
RESIDENT	1432 LILIHA ST REAR	HONOLULU	HI	96817-3504
BUSINESS OCCUPANT	1420 LILIHA ST	HONOLULU	HI	96817-3504
BUSINESS OCCUPANT	1408 LILIHA ST STE 101	HONOLULU	HI	96817-3581
BUSINESS OCCUPANT	1408 LILIHA ST STE 103	HONOLULU	HI	96817-3581
RESIDENT	1408 LILIHA ST APT 201	HONOLULU	HI	96817-3581
RESIDENT	1408 LILIHA ST APT 202	HONOLULU	HI	96817-3581
RESIDENT	1408 LILIHA ST APT 203	HONOLULU	HI	96817-3581
RESIDENT	1408 LILIHA ST APT 204	HONOLULU	HI	96817-3581
RESIDENT	1408 LILIHA ST APT 302	HONOLULU	HI	96817-3581
RESIDENT	1408 LILIHA ST APT 205	HONOLULU	HI	96817-3581
RESIDENT	1408 LILIHA ST APT 304	HONOLULU	HI	96817-3581
RESIDENT	1408 LILIHA ST APT 303	HONOLULU	HI	96817-3581
RESIDENT	1408 LILIHA ST APT 206	HONOLULU	HI	96817-3581
RESIDENT	1408 LILIHA ST APT 301	HONOLULU	HI	96817-3581
RESIDENT	530 WAIPA LN	HONOLULU	HI	96817-3530
RESIDENT	532 WAIPA LN	HONOLULU	HI	96817-3530
RESIDENT	1443 HOLELUA PL	HONOLULU	HI	96817-3503
RESIDENT	1440 HOLELUA PL	HONOLULU	HI	96817-3502
RESIDENT	1434 HOLELUA PL	HONOLULU	HI	96817-3502

RESIDENT	1430 HOLELUA PL APT A	HONOLULU	HI	96817-3586
RESIDENT	1424 HOLELUA PL	HONOLULU	HI	96817-3502
RESIDENT	556 WAIPA LN	HONOLULU	HI	96817-3532
RESIDENT	548 WAIPA LN	HONOLULU	HI	96817-3530
BUSINESS OCCUPANT	620 WAIPA LN	HONOLULU	HI	96817-3533
RESIDENT	622 WAIPA LN	HONOLULU	HI	96817-3533
RESIDENT	624 WAIPA LN	HONOLULU	HI	96817-3533
RESIDENT	624B WAIPA LN	HONOLULU	HI	96817-3533
RESIDENT	626 WAIPA LN	HONOLULU	HI	96817-3533
RESIDENT	628 WAIPA LN	HONOLULU	HI	96817-3533
RESIDENT	628A WAIPA LN	HONOLULU	HI	96817-3533
RESIDENT	631 WAIPA LN	HONOLULU	HI	96817-3534
RESIDENT	631A WAIPA LN	HONOLULU	HI	96817-3534
RESIDENT	631B WAIPA LN	HONOLULU	HI	96817-3534
RESIDENT	631C WAIPA LN	HONOLULU	HI	96817-3534
RESIDENT	627A WAIPA LN	HONOLULU	HI	96817-3534
RESIDENT	627B WAIPA LN	HONOLULU	HI	96817-3534
RESIDENT	627 WAIPA LN	HONOLULU	HI	96817-3534
RESIDENT	621A WAIPA LN	HONOLULU	HI	96817-3534
RESIDENT	621B WAIPA LN	HONOLULU	HI	96817-3534
RESIDENT	621B WAIPA LN	HONOLULU	HI	96817-3534
RESIDENT	619 WAIPA LN	HONOLULU	HI	96817-3534
RESIDENT	617 WAIPA LN	HONOLULU	HI	96817-3534
RESIDENT	615 WAIPA LN	HONOLULU	HI	96817-3534
RESIDENT	609 WAIPA LN	HONOLULU	HI	96817-3534
RESIDENT	607 WAIPA LN	HONOLULU	HI	96817-3534
RESIDENT	607 WAIPA LN	HONOLULU	HI	96817-3534
RESIDENT	601 WAIPA LN	HONOLULU	HI	96817-3534
RESIDENT	622B N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	622A N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	634A N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	634B N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	634C N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	634D N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	634E N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	634F N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	634G N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	634H N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	634I N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	642J N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	642I N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	642H N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	642G N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	642F N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	642D N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	642C N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	642B N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	642A N VINEYARD BLVD	HONOLULU	HI	96817-3822
RESIDENT	1411 PUA LN	HONOLULU	HI	96817-3536

RESIDENT	1423 PUA LN	HONOLULU	HI	96817-3536
RESIDENT	1427 PUA LN	HONOLULU	HI	96817-3536
RESIDENT	1431B PUA LN	HONOLULU	HI	96817-3536
RESIDENT	1431C PUA LN	HONOLULU	HI	96817-3536
RESIDENT	1431D PUA LN	HONOLULU	HI	96817-3536
RESIDENT	1428 PUA LN	HONOLULU	HI	96817-3535
RESIDENT	1422A PUA LN	HONOLULU	HI	96817-3535
RESIDENT	1422 PUA LN	HONOLULU	HI	96817-3535
RESIDENT	1416 PUA LN	HONOLULU	HI	96817-3535
RESIDENT	1416A PUA LN	HONOLULU	HI	96817-3535
RESIDENT	1416B PUA LN	HONOLULU	HI	96817-3535
RESIDENT	1416C PUA LN	HONOLULU	HI	96817-3535
RESIDENT	1412 PUA LN	HONOLULU	HI	96817-3535
RESIDENT	1408 PUA LN	HONOLULU	HI	96817-3535
RESIDENT	704 N VINEYARD BLVD	HONOLULU	HI	96817-3538
RESIDENT	714 N VINEYARD BLVD	HONOLULU	HI	96817-3538
RESIDENT	714A N VINEYARD BLVD	HONOLULU	HI	96817-3538
BUSINESS OCCUPANT	810 N VINEYARD BLVD STE 1	HONOLULU	HI	96817-3590
RESIDENT	801 N VINEYARD BLVD APT C1	HONOLULU	HI	96817-3541
RESIDENT	801 N VINEYARD BLVD APT C2	HONOLULU	HI	96817-3541
RESIDENT	801 N VINEYARD BLVD APT C3	HONOLULU	HI	96817-3541
RESIDENT	801 N VINEYARD BLVD APT C4	HONOLULU	HI	96817-3541
RESIDENT	801 N VINEYARD BLVD APT C5	HONOLULU	HI	96817-3541
RESIDENT	801 N VINEYARD BLVD APT C6	HONOLULU	HI	96817-3541
RESIDENT	801 N VINEYARD BLVD APT C7	HONOLULU	HI	96817-3541
RESIDENT	809 N VINEYARD BLVD APT E1	HONOLULU	HI	96817-3546
RESIDENT	809 N VINEYARD BLVD APT E2	HONOLULU	HI	96817-3546
RESIDENT	809 N VINEYARD BLVD APT E3	HONOLULU	HI	96817-3546
RESIDENT	809 N VINEYARD BLVD APT E4	HONOLULU	HI	96817-3546
RESIDENT	809 N VINEYARD BLVD APT E5	HONOLULU	HI	96817-3546
RESIDENT	809 N VINEYARD BLVD APT E6	HONOLULU	HI	96817-3546
RESIDENT	809 N VINEYARD BLVD APT E7	HONOLULU	HI	96817-3546
RESIDENT	801 N VINEYARD BLVD APT C8	HONOLULU	HI	96817-3566
RESIDENT	801 N VINEYARD BLVD APT C9	HONOLULU	HI	96817-3566
RESIDENT	801 N VINEYARD BLVD APT C10	HONOLULU	HI	96817-3566
RESIDENT	801 N VINEYARD BLVD APT C11	HONOLULU	HI	96817-3566
RESIDENT	801 N VINEYARD BLVD APT C12	HONOLULU	HI	96817-3566
RESIDENT	801 N VINEYARD BLVD APT C13	HONOLULU	HI	96817-3566
RESIDENT	801 N VINEYARD BLVD APT C14	HONOLULU	HI	96817-3566
RESIDENT	809 N VINEYARD BLVD APT E8	HONOLULU	HI	96817-3572
RESIDENT	809 N VINEYARD BLVD APT E9	HONOLULU	HI	96817-3572
RESIDENT	809 N VINEYARD BLVD APT E10	HONOLULU	HI	96817-3572
RESIDENT	809 N VINEYARD BLVD APT E11	HONOLULU	HI	96817-3572
RESIDENT	809 N VINEYARD BLVD APT E12	HONOLULU	HI	96817-3572
RESIDENT	809 N VINEYARD BLVD APT E13	HONOLULU	HI	96817-3572
RESIDENT	809 N VINEYARD BLVD APT E14	HONOLULU	HI	96817-3572
RESIDENT	803 N VINEYARD BLVD APT D1	HONOLULU	HI	96817-3543
RESIDENT	803 N VINEYARD BLVD APT D2	HONOLULU	HI	96817-3543
RESIDENT	803 N VINEYARD BLVD APT D3	HONOLULU	HI	96817-3543

RESIDENT	803 N VINEYARD BLVD APT D4	HONOLULU	HI	96817-3543
RESIDENT	803 N VINEYARD BLVD APT D5	HONOLULU	HI	96817-3543
RESIDENT	803 N VINEYARD BLVD APT D6	HONOLULU	HI	96817-3543
RESIDENT	809 N VINEYARD BLVD APT E15	HONOLULU	HI	96817-3572
RESIDENT	811 N VINEYARD BLVD APT F1	HONOLULU	HI	96817-3573
RESIDENT	811 N VINEYARD BLVD APT F2	HONOLULU	HI	96817-3573
RESIDENT	811 N VINEYARD BLVD APT F3	HONOLULU	HI	96817-3573
RESIDENT	811 N VINEYARD BLVD APT F4	HONOLULU	HI	96817-3573
RESIDENT	811 N VINEYARD BLVD APT F5	HONOLULU	HI	96817-3573
RESIDENT	811 N VINEYARD BLVD APT F6	HONOLULU	HI	96817-3573
RESIDENT	803 N VINEYARD BLVD APT D8	HONOLULU	HI	96817-3568
RESIDENT	803 N VINEYARD BLVD APT D9	HONOLULU	HI	96817-3568
RESIDENT	803 N VINEYARD BLVD APT D10	HONOLULU	HI	96817-3568
RESIDENT	803 N VINEYARD BLVD APT D11	HONOLULU	HI	96817-3568
RESIDENT	803 N VINEYARD BLVD APT D12	HONOLULU	HI	96817-3568
RESIDENT	803 N VINEYARD BLVD APT D13	HONOLULU	HI	96817-3568
RESIDENT	811 N VINEYARD BLVD APT F7	HONOLULU	HI	96817-3547
RESIDENT	811 N VINEYARD BLVD APT F8	HONOLULU	HI	96817-3547
RESIDENT	811 N VINEYARD BLVD APT F9	HONOLULU	HI	96817-3547
RESIDENT	811 N VINEYARD BLVD APT F10	HONOLULU	HI	96817-3547
RESIDENT	811 N VINEYARD BLVD APT F11	HONOLULU	HI	96817-3547
RESIDENT	811 N VINEYARD BLVD APT F12	HONOLULU	HI	96817-3547
RESIDENT	803 N VINEYARD BLVD APT D14	HONOLULU	HI	96817-3500
RESIDENT	803 N VINEYARD BLVD APT D15	HONOLULU	HI	96817-3500
RESIDENT	807 N VINEYARD BLVD APT A1	HONOLULU	HI	96817-3569
RESIDENT	807 N VINEYARD BLVD APT A2	HONOLULU	HI	96817-3569
RESIDENT	807 N VINEYARD BLVD APT A3	HONOLULU	HI	96817-3569
RESIDENT	807 N VINEYARD BLVD APT A4	HONOLULU	HI	96817-3569
RESIDENT	811 N VINEYARD BLVD APT F13	HONOLULU	HI	96817-3584
RESIDENT	811 N VINEYARD BLVD APT F14	HONOLULU	HI	96817-3584
RESIDENT	811 N VINEYARD BLVD APT F15	HONOLULU	HI	96817-3584
RESIDENT	815 N VINEYARD BLVD APT B1	HONOLULU	HI	96817-3576
RESIDENT	815 N VINEYARD BLVD APT B2	HONOLULU	HI	96817-3576
RESIDENT	815 N VINEYARD BLVD APT B3	HONOLULU	HI	96817-3576
RESIDENT	807 N VINEYARD BLVD APT A5	HONOLULU	HI	96817-3570
RESIDENT	807 N VINEYARD BLVD APT A6	HONOLULU	HI	96817-3570
RESIDENT	807 N VINEYARD BLVD APT A7	HONOLULU	HI	96817-3570
RESIDENT	807 N VINEYARD BLVD APT A8	HONOLULU	HI	96817-3570
RESIDENT	807 N VINEYARD BLVD APT A9	HONOLULU	HI	96817-3570
RESIDENT	807 N VINEYARD BLVD APT A10	HONOLULU	HI	96817-3570
RESIDENT	815 N VINEYARD BLVD APT B4	HONOLULU	HI	96817-3548
RESIDENT	815 N VINEYARD BLVD APT B5	HONOLULU	HI	96817-3548
RESIDENT	815 N VINEYARD BLVD APT B6	HONOLULU	HI	96817-3548
RESIDENT	815 N VINEYARD BLVD APT B7	HONOLULU	HI	96817-3548
RESIDENT	815 N VINEYARD BLVD APT B8	HONOLULU	HI	96817-3548
RESIDENT	815 N VINEYARD BLVD APT B9	HONOLULU	HI	96817-3548
RESIDENT	807 N VINEYARD BLVD APT A11	HONOLULU	HI	96817-3571
RESIDENT	807 N VINEYARD BLVD APT A12	HONOLULU	HI	96817-3571
RESIDENT	807 N VINEYARD BLVD APT A13	HONOLULU	HI	96817-3571

RESIDENT	807 N VINEYARD BLVD APT A14	HONOLULU	HI	96817-3571
RESIDENT	807 N VINEYARD BLVD APT A15	HONOLULU	HI	96817-3571
RESIDENT	815 N VINEYARD BLVD APT B10	HONOLULU	HI	96817-3549
RESIDENT	815 N VINEYARD BLVD APT B11	HONOLULU	HI	96817-3549
RESIDENT	815 N VINEYARD BLVD APT B12	HONOLULU	HI	96817-3549
RESIDENT	815 N VINEYARD BLVD APT B13	HONOLULU	HI	96817-3549
RESIDENT	815 N VINEYARD BLVD APT B14	HONOLULU	HI	96817-3549
RESIDENT	807 N VINEYARD BLVD APT A16	HONOLULU	HI	96817-3544
RESIDENT	807 N VINEYARD BLVD APT A18	HONOLULU	HI	96817-3544
RESIDENT	807 N VINEYARD BLVD APT A19	HONOLULU	HI	96817-3545
RESIDENT	807 N VINEYARD BLVD APT A20	HONOLULU	HI	96817-3545
RESIDENT	807 N VINEYARD BLVD APT A21	HONOLULU	HI	96817-3545
RESIDENT	815 N VINEYARD BLVD APT B15	HONOLULU	HI	96817-3577
RESIDENT	815 N VINEYARD BLVD APT B16	HONOLULU	HI	96817-3577
RESIDENT	815 N VINEYARD BLVD APT B17	HONOLULU	HI	96817-3577
RESIDENT	815 N VINEYARD BLVD APT B18	HONOLULU	HI	96817-3578
RESIDENT	815 N VINEYARD BLVD APT B19	HONOLULU	HI	96817-3578
RESIDENT	815 N VINEYARD BLVD APT B20	HONOLULU	HI	96817-3578
RESIDENT	819 N VINEYARD BLVD APT G1	HONOLULU	HI	96817-3550
RESIDENT	819 N VINEYARD BLVD APT G2	HONOLULU	HI	96817-3550
RESIDENT	819 N VINEYARD BLVD APT G3	HONOLULU	HI	96817-3550
RESIDENT	819 N VINEYARD BLVD APT G4	HONOLULU	HI	96817-3550
RESIDENT	819 N VINEYARD BLVD APT G5	HONOLULU	HI	96817-3550
RESIDENT	819 N VINEYARD BLVD APT G6	HONOLULU	HI	96817-3550
RESIDENT	819 N VINEYARD BLVD APT G7	HONOLULU	HI	96817-3550
RESIDENT	819 N VINEYARD BLVD APT G8	HONOLULU	HI	96817-3551
RESIDENT	819 N VINEYARD BLVD APT G9	HONOLULU	HI	96817-3551
RESIDENT	819 N VINEYARD BLVD APT G10	HONOLULU	HI	96817-3551
RESIDENT	819 N VINEYARD BLVD APT G11	HONOLULU	HI	96817-3551
RESIDENT	819 N VINEYARD BLVD APT G12	HONOLULU	HI	96817-3551
RESIDENT	819 N VINEYARD BLVD APT G13	HONOLULU	HI	96817-3579
RESIDENT	819 N VINEYARD BLVD APT G14	HONOLULU	HI	96817-3579
RESIDENT	819 N VINEYARD BLVD APT G15	HONOLULU	HI	96817-3579
RESIDENT	819 N VINEYARD BLVD APT G16	HONOLULU	HI	96817-3579
RESIDENT	819 N VINEYARD BLVD APT G17	HONOLULU	HI	96817-3579
RESIDENT	717 N VINEYARD BLVD	HONOLULU	HI	96817-3539
RESIDENT	717A N VINEYARD BLVD	HONOLULU	HI	96817-3539
RESIDENT	717B N VINEYARD BLVD	HONOLULU	HI	96817-3539
RESIDENT	717C N VINEYARD BLVD	HONOLULU	HI	96817-3539
RESIDENT	709B N VINEYARD BLVD	HONOLULU	HI	96817-3539
RESIDENT	709A N VINEYARD BLVD	HONOLULU	HI	96817-3539
RESIDENT	703 N VINEYARD BLVD	HONOLULU	HI	96817-3539
BUSINESS OCCUPANT	544 N VINEYARD BLVD	HONOLULU	HI	96817-3833
BUSINESS OCCUPANT	572 N VINEYARD BLVD	HONOLULU	HI	96817-3833
BUSINESS OCCUPANT	574 N VINEYARD BLVD	HONOLULU	HI	96817-3833
BUSINESS OCCUPANT	580 N VINEYARD BLVD	HONOLULU	HI	96817-3833
RESIDENT	608 N VINEYARD BLVD APT 101	HONOLULU	HI	96817-3841
RESIDENT	608 N VINEYARD BLVD APT 102	HONOLULU	HI	96817-3841
RESIDENT	608 N VINEYARD BLVD APT 103	HONOLULU	HI	96817-3841

RESIDENT	608 N VINEYARD BLVD APT 104	HONOLULU	HI	96817-3841
RESIDENT	608 N VINEYARD BLVD APT 105	HONOLULU	HI	96817-3841
RESIDENT	608 N VINEYARD BLVD APT 106	HONOLULU	HI	96817-3841
RESIDENT	608 N VINEYARD BLVD APT 201	HONOLULU	HI	96817-3859
RESIDENT	608 N VINEYARD BLVD APT 202	HONOLULU	HI	96817-3859
RESIDENT	608 N VINEYARD BLVD APT 203	HONOLULU	HI	96817-3859
RESIDENT	608 N VINEYARD BLVD APT 204	HONOLULU	HI	96817-3859
RESIDENT	608 N VINEYARD BLVD APT 205	HONOLULU	HI	96817-3859
RESIDENT	608 N VINEYARD BLVD APT 206	HONOLULU	HI	96817-3859
RESIDENT	608 N VINEYARD BLVD APT 301	HONOLULU	HI	96817-3842
RESIDENT	608 N VINEYARD BLVD APT 302	HONOLULU	HI	96817-3842
RESIDENT	608 N VINEYARD BLVD APT 303	HONOLULU	HI	96817-3842
RESIDENT	608 N VINEYARD BLVD APT 304	HONOLULU	HI	96817-3842
RESIDENT	608 N VINEYARD BLVD APT 305	HONOLULU	HI	96817-3842
RESIDENT	608 N VINEYARD BLVD APT 306	HONOLULU	HI	96817-3842
BUSINESS OCCUPANT	245 N KUKUI ST STE 101	HONOLULU	HI	96817-3921
BUSINESS OCCUPANT	245 N KUKUI ST STE 102	HONOLULU	HI	96817-3921
BUSINESS OCCUPANT	245 N KUKUI ST STE 103	HONOLULU	HI	96817-3921
BUSINESS OCCUPANT	245 N KUKUI ST STE 104	HONOLULU	HI	96817-3921
BUSINESS OCCUPANT	245 N KUKUI ST STE 206	HONOLULU	HI	96817-3921
BUSINESS OCCUPANT	245 N KUKUI ST STE 202	HONOLULU	HI	96817-3921
BUSINESS OCCUPANT	245 N KUKUI ST STE 203	HONOLULU	HI	96817-3921
BUSINESS OCCUPANT	245 N KUKUI ST STE 204	HONOLULU	HI	96817-3921
BUSINESS OCCUPANT	245 N KUKUI ST STE 102A	HONOLULU	HI	96817-3921
BUSINESS OCCUPANT	245 N KUKUI ST STE 207	HONOLULU	HI	96817-3921
BUSINESS OCCUPANT	215 N KUKUI ST	HONOLULU	HI	96817-3951
BUSINESS OCCUPANT	1374 NUUANU AVE OFC	HONOLULU	HI	96817-4032
RESIDENT	1323 NUUANU AVE APT 102	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 104	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 105	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 106	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 107	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 108	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 109	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 110	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 201	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 202	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 203	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 204	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 205	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 206	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 207	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 208	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 209	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 210	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 301	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 302	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 303	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 304	HONOLULU	HI	96817-4000

RESIDENT	1323 NUUANU AVE APT 305	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 306	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 307	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 308	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 309	HONOLULU	HI	96817-4000
RESIDENT	1323 NUUANU AVE APT 310	HONOLULU	HI	96817-4000
RESIDENT	1325 NUUANU AVE APT 301	HONOLULU	HI	96817-4019
RESIDENT	1325 NUUANU AVE APT 303	HONOLULU	HI	96817-4019
RESIDENT	1325 NUUANU AVE APT 304	HONOLULU	HI	96817-4019
RESIDENT	1325 NUUANU AVE APT 305	HONOLULU	HI	96817-4019
RESIDENT	1325 NUUANU AVE APT 306	HONOLULU	HI	96817-4019
RESIDENT	1325 NUUANU AVE APT 307	HONOLULU	HI	96817-4019
RESIDENT	1325 NUUANU AVE APT 308	HONOLULU	HI	96817-4019
RESIDENT	1325 NUUANU AVE APT 309	HONOLULU	HI	96817-4019
RESIDENT	1325 NUUANU AVE APT 310	HONOLULU	HI	96817-4019
RESIDENT	1325 NUUANU AVE APT 311	HONOLULU	HI	96817-4019
RESIDENT	1325 NUUANU AVE APT 313	HONOLULU	HI	96817-4019
RESIDENT	1325 NUUANU AVE APT 314	HONOLULU	HI	96817-4019
RESIDENT	1325 NUUANU AVE APT 315	HONOLULU	HI	96817-4019
RESIDENT	1325 NUUANU AVE APT 317	HONOLULU	HI	96817-4019
RESIDENT	1325 NUUANU AVE APT 318	HONOLULU	HI	96817-4019
RESIDENT	1325 NUUANU AVE APT 319	HONOLULU	HI	96817-4019
BUSINESS OCCUPANT	1325 NUUANU AVE STE 217	HONOLULU	HI	96817-4034
BUSINESS OCCUPANT	1325 NUUANU AVE STE 213	HONOLULU	HI	96817-4034
BUSINESS OCCUPANT	1325 NUUANU AVE STE 211	HONOLULU	HI	96817-4034
BUSINESS OCCUPANT	1325 NUUANU AVE STE 210	HONOLULU	HI	96817-4034
BUSINESS OCCUPANT	1325 NUUANU AVE STE 207	HONOLULU	HI	96817-4034
BUSINESS OCCUPANT	1325 NUUANU AVE STE 206	HONOLULU	HI	96817-4034
BUSINESS OCCUPANT	1325 NUUANU AVE STE 208	HONOLULU	HI	96817-4034
BUSINESS OCCUPANT	1325 NUUANU AVE STE 205	HONOLULU	HI	96817-4034
BUSINESS OCCUPANT	1325 NUUANU AVE STE 203	HONOLULU	HI	96817-4034
BUSINESS OCCUPANT	1325 NUUANU AVE STE 202	HONOLULU	HI	96817-4034
BUSINESS OCCUPANT	1325 NUUANU AVE STE 201	HONOLULU	HI	96817-4034
BUSINESS OCCUPANT	1327 NUUANU AVE	HONOLULU	HI	96817-4033
BUSINESS OCCUPANT	1329 NUUANU AVE	HONOLULU	HI	96817-4033
BUSINESS OCCUPANT	1333 NUUANU AVE	HONOLULU	HI	96817-4033
BUSINESS OCCUPANT	1337 NUUANU AVE	HONOLULU	HI	96817-4033
BUSINESS OCCUPANT	1339 NUUANU AVE STE A	HONOLULU	HI	96817-4033
BUSINESS OCCUPANT	1339 NUUANU AVE	HONOLULU	HI	96817-4033
BUSINESS OCCUPANT	1347 NUUANU AVE	HONOLULU	HI	96817-4033
BUSINESS OCCUPANT	1351 NUUANU AVE	HONOLULU	HI	96817-4033
BUSINESS OCCUPANT	1365 NUUANU AVE STE 1	HONOLULU	HI	96817-4035
BUSINESS OCCUPANT	1365 NUUANU AVE STE 4	HONOLULU	HI	96817-4035
BUSINESS OCCUPANT	1365 NUUANU AVE STE 6	HONOLULU	HI	96817-4035
BUSINESS OCCUPANT	1365 NUUANU AVE STE 8	HONOLULU	HI	96817-4035
BUSINESS OCCUPANT	1365 NUUANU AVE STE 10A	HONOLULU	HI	96817-4045
BUSINESS OCCUPANT	1365 NUUANU AVE STE 10B	HONOLULU	HI	96817-4045
BUSINESS OCCUPANT	1365 NUUANU AVE STE 11	HONOLULU	HI	96817-4035

EXHIBIT 27

NEPA EA Distribution List
February 2020

Salutation	Name 1	Name 2	AGENCY	ADDRESS 1	Address 2	Address 3	City	State	Zip
			Environmental Protection Agency		1200 Pennsylvania Avenue, N.W.	WASHINGTON DC 20460	Washington	DC	20460
			Environmental Review Section	HUD Region 9	75 Hawthorne Street	SAN FRANCISCO CA 94105	San Francisco	CA	94105
The Honorable	David	Ige	State Capitol Executive Chambers		415 South Beretania Street	HONOLULU HI 96813	Honolulu	HI	96813
Mr.	Hakim	Ouansafi	Hawai'i Public Housing Authority		1002 North School Street	HONOLULU HI 96817	Honolulu	HI	96817
			U.S. Department of Housing & Urban Development		451 7th Street, SW	WASHINGTON DC 20410	Washington	DC	20410
Mr.	Wayne	Sauseda	HUD Region IX Office		One Sansome Street, Suite 1200	SAN FRANCISCO CA 94104	San Francisco	CA	94104
Mr.	Ryan	Okahara	U.S. HUD, Honolulu Field Office		1132 Bishop Street, Suite 1400	HONOLULU HI 96813	Honolulu	HI	96813
Mr.	Mark	Chandler	U.S. HUD Region 9, Community Planning and Development		1132 Bishop Street, Suite 1400	HONOLULU HI 96813	Honolulu	HI	96813
Mr.	Larry	Wuerstle	U.S. HUD Region 9, Community Planning and Development		One Sansome Street, Suite 1200	SAN FRANCISCO CA 94104	San Francisco	CA	94104
Mr.	Jesse	Wu	U.S. HUD, Office of Public Housing		1132 Bishop Street, Suite 1400	HONOLULU HI 96813	Honolulu	HI	96813
Mr.	Todd	Wendorf	HUD - Capital Fund Financing Program		451 7th Street, SW	WASHINGTON DC 20410	Washington	DC	20410
Ms.	Caroline	Clayton	HUD - Choice Neighborhood Planning Grant		451 7th Street S W Room 4130	WASHINGTON DC 20410	Washington	DC	20410
			Special Applications Center		77 West Jackson Blvd Room 2401	CHICAGO IL 60604-3507	Chicago	IL	60604-3507
			HUD - Rental Assistance Demonstration Section 8		451 7th Street, SW	WASHINGTON DC 20410	Washington	DC	20410
Ms.	Robyn	Thorson	U.S. Fish and Wildlife Service		300 Ala Moana Blvd Room Box 50088	HONOLULU HI 96850	Honolulu	HI	96850
Mr.	Stephen	Anthony	DOI Geological Survey - Pacific Islands Water Science Center		1845 Wasp Blvd Building 176	HONOLULU HI 96818	Honolulu	HI	96818
Mr.	Michael	Tosatto	National Marine Fisheries Service, Pacific Islands Regional Office		1845 Wasp Blvd Building 176	HONOLULU HI 96818	Honolulu	HI	96818
Ms.	Melia	Lane-Kamahele	Nationak Parks Service, Pacific Islands Support Office		300 Ala Moana Blvd Suite 6-226	HONOLULU HI 96850	Honolulu	HI	96850
Mr.	Bruce	Petersen	National Resources Conservation Service, Pacific Islands Area Office		P O Box 50004	HONOLULU HI 96850-0050	Honolulu	HI	96850-0050
Ms.	Kate	Bliss	Attn: CEPOD-PDC		573 Bonney Loop	FORT SHAFTER HI 96858	Fort Shafter	HI	96858
Capt	Richard	Hayes, III	Department of Navy, Pacific Division, Naval Facilities Engineering Command		258 Makalapa Dr Suite 100	PEARL HARBOR HI 96860	Pearl Harbor	HI	96860
Ms.	Lacey	Spriggs	Federal Aviation Administration, Honolulu Airports District Office		P O Box 50244	HONOLULU HI 96850	Honolulu	HI	96850
Mr.	Leslie	Rogers	Federal Aviation Administration, Region 9 Office		90 7th Street Suite 15-300	SAN FRANCISCO CA 94103	San Francisco	CA	94103
Mr.	Ralph	Rizzo	Federal Highways Administration, Hawai'i Division, Box 50206		300 Ala Moana Blvd Rm 3-306	HONOLULU HI 96850	Honolulu	HI	96850
RADM	Vincent	Atkins	Department of Homeland Security - U.S. Coast Guard, Commander, 14th Coast Guard Dist.		300 Ala Moana Blvd Rm 9-204	HONOLULU HI 96850	Honolulu	HI	96850
Mr.	Dean	Higuchi	Environmental Protection Agency, Region 9, Pacific Islands Contact Office		P O Box 50003	HONOLULU HI 96850	Honolulu	HI	96850
			EPA Office of Ground Water and Drinking Water	1200 Pennsylvania Ave, N.W.	Mail Code 4606M	WASHINGTON DC 20460	Washington	DC	20460
Mr.	Robert	Fenton, Jr.	FEMA, Region 9		1111 Broadway Suite 1200	OAKLAND CA 94607	Oakland	CA	94607
Mr.	Linda	Chu Takayama	State Capitol Executive Chambers		415 South Beretania Street	HONOLULU HI 96813	Honolulu	HI	96813
Mr.	Kevin	Auger	Hawai'i Public Housing Authority		1002 North School Street	HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Scott	Jepsen	EJP Consulting Group, LLC		PO Box 336	MANCHESTER WA 98353	Manchester	WA	98353
Ms.	Kathleen	Ho	Office of Environmental Quality Control		235 S. Beretania Street Suite 702	HONOLULU HI 96813	Honolulu	HI	96813
Mr.	Curt	Otaguro	Department of Accounting & General Services		P O Box 119	HONOLULU HI 96810	Honolulu	HI	96810
Ms.	Christine	Kinimaka	Department of Accounting & General Services		P O Box 119	HONOLULU HI 96810	Honolulu	HI	96810
Mr.	Adam	Jansen	DAGS, Archives Division Records Center		P O Box 119	HONOLULU HI 96810	Honolulu	HI	96810
Ms.	Phyllis	Shimabukuro-Geiser	Department of Agriculture		1428 S King Street	HONOLULU HI 96814	Honolulu	HI	96814
Mr.	Mike	McCartney	Department of Business, Economic Development & Tourism		P O Box 2359	HONOLULU HI 96804	Honolulu	HI	96804
Ms.	Mary Alice	Evans	DBEDT, Office of Planning		P O Box 2359	HONOLULU HI 96804	Honolulu	HI	96804
Mr.	Rodney	Funakoshi	DBEDT, Office of Planning		P O Box 2359	HONOLULU HI 96804	Honolulu	HI	96804
Mr.	Scott	Glen	Hawaii State Energy Office / Strategic Industries Division		P O Box 2359	HONOLULU HI 96804	Honolulu	HI	96804
First Lieutenant	Shao Yu	Lee	Department of Defense		3949 Diamond Head Road	HONOLULU HI 96816	Honolulu	HI	96816
Dr.	Christina	Kishimoto	Department of Education		P O Box 2360	HONOLULU HI 96804	Honolulu	HI	96804
Mr.	William	Aila	Departmnet of Hawaiian Homelands		P O Box 1879	HONOLULU HI 96805	Honolulu	HI	96805
Mr.	Keith	Kawaota	DOH, Environmental Health Administration		P O Box 3378	HONOLULU HI 96801	Honolulu	HI	96801
Ms.	Marianne	Rossio	Hale Ola Building, DOH - Clean Air Branch		2827 Waimano Home Rd #130	PEARL CITY HI 96782-1487	Pearl City	HI	96782-1487
Mr.	Alec	Wong	Hale Ola Building, DOH - Clean Water Branch		2827 Waimano Home Rd #225	PEARL CITY HI 96782-1487	Pearl City	HI	96782-1487

			Hale Ola Building, DOH - Environmental Management Division		2827 Waimano Home Rd #222	PEARL CITY HI 96782-1487	Pearl City	HI	96782-1487
Ms.	Sina	Pruder	Hale Ola Building, DOH - Wastewater Branch		2827 Waimano Home Rd #207	PEARL CITY HI 96782-1487	Pearl City	HI	96782-1487
Ms.	Mary Helen	Cathcart	Uluakupu Building 4, DOH - Safe Drinking Water Branch		2385 Waimano Home Rd #110	PEARL CITY HI 96782-1400	Pearl City	HI	96782-1400
	Lene	Ichinotsubo	Kitchen/Dining Annex, DOH - Solid & Hazardous Waste Branch		2827 Waimano Home Rd #100	PEARL CITY HI 96782-1487	Pearl City	HI	96782-1487
Ms.	Fenix	Grange	Uluakupu Building 4, DOH - Hazard Evaluation & Emergency Response Division		2385 Waimano Home Rd #110	PEARL CITY HI 96782-1400	Pearl City	HI	96782-1400
Ms.	Lynn	Nakasone	DOH - Environmental Health Service Division		99-945 Halawa Valley Street	AIEA HI 96701-5602	Aiea	HI	96701-5602
Ms.	Sharilynn	Uchima	DOH - Indoor and Radiological Health Branch		99-945 Halawa Valley Street	AIEA HI 96701-5602	Aiea	HI	96701-5602
Mr.	Peter	Oshiro	DOH - Sanitation Branch		99-945 Halawa Valley Street	AIEA HI 96701-5602	Aiea	HI	96701-5602
Ms.	Gracelda	Simmons	DOH - Vector Branch		99-945 Halawa Valley Street	AIEA HI 96701-5602	Aiea	HI	96701-5602
Ms.	Cynthia	Quidez	DOH - State Laboratories Division		2725 Waimano Home Road	PEARL CITY HI 96782-1401	Pearl City	HI	96782-1401
Mr.	Scott	Murakami	Ke'elikolani Building, Department of Labor and Industrial Relations		830 Punchbowl Street #321	HONOLULU HI 96813	Honolulu	HI	96813
Ms.	Suzanne	Case	Kalanimoku Building, Department of Land and Natural Resources		1151 Punchbowl Street	HONOLULU HI 96813	Honolulu	HI	96813
Dr.	Alan	Downer	Kakuhihewa Building, DLNR - Historic Preservation Division		601 Kamokila Boulevard Rm 555	KAPOLEI HI 96707	Kapolei	HI	96707
Mr.	Curt	Cottrell	DLNR - Division of State Parks		P O Box 621	HONOLULU HI 96809	Honolulu	HI	96809
Mr.	Jade	Butay	Ali'iaimoku Building, Hawai'i Department of Transportation		869 Punchbowl Street	HONOLULU HI 96813	Honolulu	HI	96813
Ms.	Denise	Iseri-Matsubara	Hawai'i Housing Finance and Development Corporation		677 Queen Street, Suite 300	HONOLULU HI 96813	Honolulu	HI	96813
Ms.	Janice	Takahashi	Hawai'i Housing Finance and Development Corporation		678 Queen Street, Suite 300	HONOLULU HI 96813	Honolulu	HI	96813
Ms.	Jocelyn	Iwamasa	Hawai'i Housing Finance and Development Corporation		679 Queen Street, Suite 300	HONOLULU HI 96813	Honolulu	HI	96813
Mr.	Executive Director		Hawai'i Community Development Authority		545 Queen Street	HONOLULU HI 96813	Honolulu	HI	96813
Ms.	Sylvia	Hussey	Office of Hawaiian Affairs		560 N Nimitz Highway Suite 200	HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Nelson	Koyanagi, Jr.	Department of Budget and Fiscal Services		530 South King Street, Room 208	HONOLULU HI 96813	Honolulu	HI	96813
Ms.	Holly	Kawano	Department of Budget and Fiscal Services		531 South King Street, Room 208	HONOLULU HI 96813	Honolulu	HI	96813
Ms.	Pamela	Witty-Oakland	Department of Community Services		926 Dillingham Blvd Suite 200	HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Lori	Kahikina	Attn: Ms. Marisol Olaes, Department of Environmental Services		1000 'Ulu'ohi'a St Suite 308	KAPOLEI HI 96707	Kapolei	HI	96707
Mr.	Hiro	Toiya	Department of Emergency Management		651 S King St Basement	HONOLULU HI 96813	Honolulu	HI	96813
Mr.	Mark	Yonamine	Department of Design and Construction		651 S King St 11th Floor	HONOLULU HI 96813	Honolulu	HI	96813
Mr.	Ross	Sasamura	Kapolei Hale, Department of Facilities Management		1000 'Ulu'ohi'a St Suite 215	KAPOLEI HI 96707	Kapolei	HI	96707
Ms.	Sandra	Pfund	Department of Land Management		531 S King Street #306	HONOLULU HI 96813	Honolulu	HI	96813
Ms.	Michele	Nekota	Kapolei Hale, Department of Parks and Recreation		1000 'Ulu'ohi'a St., Suite 309	KAPOLEI HI 96707	Kapolei	HI	96707
Mr.	Ernest	Lau	Board of Water Supply		631 S Beretania Street	HONOLULU HI 96843	Honolulu	HI	96843
Chief	Manuel	Neves	Honolulu Fire Department		637 South Street	HONOLULU HI 96813	Honolulu	HI	96813
Ms.	Kathy	Sokugawa	Frank F. Fasi Municipal Building, Department of Planning and Permitting		650 S King St 7th Floor	HONOLULU HI 96813	Honolulu	HI	96813
Chief	Susan	Ballard	Honolulu Police Department		802 S Beretania Street	HONOLULU HI 96813	Honolulu	HI	96813
Mr.	Wes	Frysztacki	Frank F. Fasi Municipal Building, Department of Transportation Services		650 S King St 3rd Floor	HONOLULU HI 96813	Honolulu	HI	96813
Mr.	Andrew	Robbins	Honolulu Authority for Rapid Transportation		1100 Alakea Street #1700	HONOLULU HI 96813	Honolulu	HI	96813
Ms.	Jan	Goveia	Office of Capital Improvement		1961 East-West Rd Biomed B-102	HONOLULU HI 96822	Honolulu	HI	96822
Dr.	Chittaranjan	Ray	Krauss Annex 9		2500 Dole Street	HONOLULU HI 96822	Honolulu	HI	96822
Dr.	Thomas	Giambelluca	Holmes Hall 283		2540 Dole Street	HONOLULU HI 96822	Honolulu	HI	96822
Dr.	Cynthia	Hunter	Dean Hall 105A		2450 Campus Road	HONOLULU HI 96822	Honolulu	HI	96822
Mr.	Clement	Bautista	Student Services Center QLC 309		2600 Campus Road	HONOLULU HI 96822	Honolulu	HI	96822
The Honorable	Brian	Schatz	U.S. Senator, Hawai'i Delegation		Prince Jonah Kūhiō Kalaniana 'ole Fed. Bldg. 300 Ala Moana Blvd Rm 7-212	HONOLULU HI 96850	Honolulu	HI	96850
The Honorable	Mazie	Hirono	U.S. Senator, Hawai'i Delegation		Prince Jonah Kūhiō Kalaniana 'ole Fed. Bldg. 300 Ala Moana Blvd Rm 3-106	HONOLULU HI 96850	Honolulu	HI	96850
The Honorable	Ed	Case	U.S. Representative, Hawai'i Delegation		1132 Bishop Street, Suite 1910	HONOLULU HI 96813	Honolulu	HI	96813
The Honorable	Tulsi	Gabbard	U.S. Representative, Hawai'i Delegation		Prince Jonah Kūhiō Kalaniana 'ole Fed. Bldg. 300 Ala Moana Blvd Rm 5-104	HONOLULU HI 96850	Honolulu	HI	96850
The Honorable	Karl	Rhoads	Hawai'i State Capitol, Room 204		415 S Beretania Street	HONOLULU HI 96813	Honolulu	HI	96813
The Honorable	Stanley	Chang	Hawai'i State Capitol, Room 226		415 S Beretania Street	HONOLULU HI 96813	Honolulu	HI	96813

The Honorable	Dru	Kanuha	Hawai'i State Capitol, Room 206		415 S Beretania Street	HONOLULU HI 96813	Honolulu	HI	96813
The Honorable	Donna Mercado	Kim	Hawai'i State Capitol, Room 218		415 S Beretania Street	HONOLULU HI 96813	Honolulu	HI	96813
The Honorable	Daniel	Holt	Hawai'i State Capitol, Room 319		415 S Beretania Street	HONOLULU HI 96813	Honolulu	HI	96813
The Honorable	Tom	Brower	Hawai'i State Capitol, Room 315		415 S Beretania Street	HONOLULU HI 96813	Honolulu	HI	96813
The Honorable	Scot	Matayoshi	Hawai'i State Capitol, Room 331		415 S Beretania Street	HONOLULU HI 96813	Honolulu	HI	96813
The Honorable	Mark	Hashem	Hawai'i State Capitol, Room 326		415 S Beretania Street	HONOLULU HI 96813	Honolulu	HI	96813
Councilmember	Carol	Fukunaga	HONOLULU CITY COUNCIL	Honolulu Hale, 2nd Floor	530 S King Street	HONOLULU HI 96813	Honolulu	HI	96813
Councilmember	Joey	Manahan	HONOLULU CITY COUNCIL	Honolulu Hale, 2nd Floor	530 S King Street	HONOLULU HI 96813	Honolulu	HI	96813
Mr.	Wesley	Fong	Neighborhood Board Representative	925 Dillingham Blvd Suite 160		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Ryan	Mandado	Neighborhood Board Representative	925 Dillingham Blvd Suite 160		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Cora	Yamamoto	Neighborhood Board Representative	925 Dillingham Blvd Suite 160		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Bixby	Ho	Neighborhood Board Representative	518A North Judd Street		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Ronald	Higa	Neighborhood Board Representative	3614 Namauu Drive		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Henry	Pang	Neighborhood Board Representative	925 Dillingham Blvd Suite 160		HONOLULU HI 96824	Honolulu	HI	96824
Mr.	Brandon R.	Mitsuda	Neighborhood Board Representative	925 Dillingham Blvd Suite 160		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Kenneth	Huang	Neighborhood Board	925 Dillingham Blvd Suite 160		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Chance	Naauao-Ota	Neighborhood Board Representative	2156 Hillcrest Street		HONOLULU HI 96820	Honolulu	HI	96820
Mr.	Donald	Nitta	Neighborhood Board Representative	925 Dillingham Blvd Suite 160		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Carole	Kaapu	Neighborhood Board Representative	P.O. Box 30283		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Lisa	Solomine	Neighborhood Board Representative	925 Dillingham Blvd Suite 160		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Bob	Mon	Neighborhood Board	P.O. Box 37254		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Ken	Farm	Neighborhood Board Representative	925 Dillingham Blvd Suite 160		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Evelyn	Cullen	Neighborhood Board Representative	925 Dillingham Blvd Suite 160		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	J.B. Kaomakaokala	Aki	Neighborhood Board Representative	1582 Haka Drive		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Eric	Irwin	Neighborhood Board Representative	925 Dillingham Blvd Suite 160		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Firmo	Dayao	Neighborhood Board Representative	775 McNeill Street, #122		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Joe	Dumayag	Neighborhood Board Representative	1727 Kahanu Street		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Donald	Guerrero	Neighborhood Board Representative	1015 North School Street, A-103		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Rodolfo	Ibay	Neighborhood Board Representative	1425 Kaumualii Street		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Wayne	Kaiwi	Neighborhood Board Representative	1026 Lowell Place		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Jonan	Sagadraca	Neighborhood Board Representative	925 Dillingham Blvd Suite 160		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Edgardo	Templo	Neighborhood Board Representative	1816 Democrat Street		HONOLULU HI 96819	Honolulu	HI	96819
Ms.	Amanda	Ybanez	Neighborhood Board Representative	925 Dillingham Blvd Suite 160		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Jill	Texeira	Ka'iulani Elementary School	783 N King Street		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Kelly	Bart	Likelike Elementary	1618 Palama Street		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Cindy	Sunahara	Linapuni Elementary School	1434 Linapuni Street		HONOLULU HI 96819	Honolulu	HI	96819
Mr.	Ned	Uemae	Kauluwela Elementary School	1486 Aala Street		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Anne-Marie	Murphy	Central Middle School	1302 Queen Emma Street		HONOLULU HI 96813	Honolulu	HI	96813
Mr.	Ron	Okamura	McKinley High School	1039 S King Street		HONOLULU HI 96814	Honolulu	HI	96814
Mr.	Alfredo	Carganilla	Farrington High School	1564 N King Street		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Karen	Lee	Honolulu Community College	874 Dillingham Blvd		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Dore	Minatodani	UH Thomas H. Hamilton Library	Hamilton Rm. 507	2550 McCarthy Mall	HONOLULU HI 96822	Honolulu	HI	96822
Ms.	Helen	Rogers	UH at Hilo Edwin H. Mo'okini Library	200 W. Kawili Street		HILO HI 96720	Hilo	HI	96720
Ms.	Dorothy	Tolliver	UH Maui College Library	310 Ka'ahumanu Ave.		KAHULUI HI 96732	Kahului	HI	96732
			UH Kaua'i Community College Library	3-1901 Kaumuali'i Highway		LIHU'E HI 96766	Lihu'e	HI	96766
Ms.	Karen	Mau	Legislative Reference Bureau Library	State Capitol, Room 005	415 S Beretania Street	HONOLULU HI 96813	Honolulu	HI	96813
Ms.	Sheri	Kajiwara	C&C of Honolulu Department of Customer Services - Municipal Reference Center	City Hall Annex	558 S King Street	HONOLULU HI 96813	Honolulu	HI	96813
Ms.	Diane	Eddy	Hawaii State Library - Hawaii Documents Center	478 S. King Street		HONOLULU HI 96813	Honolulu	HI	96813
			Liliha Public Library	1515 Liliha Street		HONOLULU HI 96817	Honolulu	HI	96817
			Kaimuki Public Library	1041 Koko Head Avenue		HONOLULU HI 96816	Honolulu	HI	96816
			Kaneohe Public Library	45-829 Kamehameha Hwy.		KANEOHE HI 96744	Kaneohe	HI	96744
			Pearl City Public Library	1138 Waimano Home Rd.		PEARL CITY HI 96782	Pearl City	HI	96782
			Hawaii Kai Public Library	249 Lunalilo Home Rd.		HONOLULU HI 96825	Honolulu	HI	96825
			Hilo Public Library	300 Waianuenue Ave.		HILO HI 96720	Hilo	HI	96720
			Kahului Public Library	90 School Street		KAHULUI HI 96732	Kahului	HI	96732
			Lihue Public Library	4344 Hardy Street		LIHUE HI 96766	Lihue	HI	96766
Mr.	Lee	Imada	Maui News	100 Mahalani Street		WAILUKU HI 96793	Wailuku	HI	96793
Ms.	Marsha	McFadden	Honolulu Star Advertiser	Restaurant Row 7, Waterfront Plaza, Suite 210	500 Ala Moana Boulevard	HONOLULU HI 96813	Honolulu	HI	96813
Mr.	David	Bock	Hawaii Tribune Herald	P O BOX 767		HILO HI 96721	Hilo	HI	96721
Mr.	Tom	Hasslinger	West Hawaii Today	P O Box 789		KAILUA-KONA HI 96745	Kailua-Kona	HI	96745
Mr.	Bill	Buley	The Garden Island	P O Box 231		LIHUE HI 96766	Lihue	HI	96766
Ms.	Catherine	Cluett	Molokai Dispatch	P O Box 482219		KAUNAKAKAI HI 96748	Kaunakakai	HI	96748
Ms.	Anita	Hofschneider	Honolulu Civil Beat	3465 Waialae Avenue, Suite 200		HONOLULU HI 96816	Honolulu	HI	96816
Mr.	Kerstan	Wong	Hawaiian Electric Company, Inc.	P O BOX 2750		HONOLULU HI 96840	Honolulu	HI	96840
Mr.	Mitchell	Miyoshi	Spectrum	200 Akamainui Street		MILILANI HI 96789	Mililani	HI	96789
	Hawaiian Telcom		Hawaiian Telecom	1177 Bishop Street, Suite 10		HONOLULU HI 96813	Honolulu	HI	96813
Ms.	Alicia	Moy	Hawai'i Gas	515 Kamakee Street		HONOLULU HI 96814	Honolulu	HI	96814
Mr.	Conrad	Loui	Palama Settlement	810 N. Vineyard Blvd.		HONOLULU HI 96817	Honolulu	HI	96817

Mr.	Tony	Pfaltzgraff	Kalihi YMCA	1325 Kalihi Street		HONOLULU HI 96819	Honolulu	HI	96819
Ms.	Leimomi	Khan	Kalihi-Pālama Hawaiian Civic Club	1288 Kapiolani Blvd Apt 1905		HONOLULU HI 96814	Honolulu	HI	96814
Maj.	Jeff	Martin	Salvation Army	2950 Manoa Road		HONOLULU HI 96822	Honolulu	HI	96822
Captain	Anthony	Poe	Salvation Army	296 N. Vineyard Blvd		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Suzanne	Skjold	Hawai'i Literacy	245 N Kukui St #202		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Rona	Suzuki	Weed and Seed	830 Punchbowl Street, Rm 420		HONOLULU HI 96813	Honolulu	HI	96813
Dr.	Tin Myaing	Thein	Pacific Gateway Center	Administrative Office	723-C Umi Street	HONOLULU HI 96819	Honolulu	HI	96819
Mr.	Emmanuel	Kintu	Kalihi-Pālama Health Center	915 North King Street		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Connie	Mitchell	Institute for Human Services	546 Ka'aahi Street		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Ryan	Kusumoto	Parents and Children Together	1485 Linapuni Street, Suite 105		HONOLULU HI 96819	Honolulu	HI	96819
Mr.	Dave	Nakamura	Mutual Housing Association of Hawai'i	900 Fort Street Mall, Suite 1690		HONOLULU HI 96813	Honolulu	HI	96813
Mr.	Henry	Curtis	Life of the Land	P O Box 37158		HONOLULU HI 96837	Honolulu	HI	96837
Ms.	Christy	MacPherson	FACE Hawai'i: Faith Action for Community Equity	P O Box 235950		HONOLULU HI 96823	Honolulu	HI	96823
Ms.	Tina	Tauasosi	UH Office of Multicultural Student Services	Student Services Center, QLC 309	2600 Campus Road	HONOLULU HI 96822	Honolulu	HI	96822
Mr.	Irvin	Wong	Liliha Palama Business Association	C/O First Hawaiian Bank	1420 Liliha Street	HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Erika	Lacro	Kalihi Palama Business Association	874 Dillingham Blvd		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Cyrus	Tamashiro	Tamashiro Market	802 N King Street		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	Robert	Faleafine	Realty Laua	3049 Ualena Street Ste. 1000		HONOLULU HI 96819	Honolulu	HI	96819
Kahu	Sherman	Thompson	Kaumakapili United Church of Christ	766 N King Street		HONOLULU HI 96817	Honolulu	HI	96817
Kahu	David	Hirano	Kaumakapili United Church of Christ	766 N King Street		HONOLULU HI 96817	Honolulu	HI	96817
Rev.	Emmanuel	Cruz	Aldersgate United Methodist Church	1352 Liliha Street		HONOLULU HI 96817	Honolulu	HI	96817
Rev.	Gregorio	Honorio, Jr.	Co-Cathedral of Saint Theresa	712 N. School Street		HONOLULU HI 96817	Honolulu	HI	96817
Rev.	Etuati	Lafaele	Hawai'i First Samoan Assembly of God	1420 Palama Street		HONOLULU HI 96817	Honolulu	HI	96817
Rev.	Tafale	Fuiava	Samoan Congregational Christian Church of Honolulu, UCC	616 N School Street		HONOLULU HI 96817	Honolulu	HI	96817
Rev.	David	Gierlach	St. Elizabeth Episcopal Church	720 N King Street		HONOLULU HI 96817	Honolulu	HI	96817
Rev.	Andrew	Tong	Hawai'i Chinese Baptist Church	477 N King Street		HONOLULU HI 96817	Honolulu	HI	96817
Revs.	Jordan and Sonya	Seng	Bluewater Mission	810 N Vineyard Blvd		HONOLULU HI 96817	Honolulu	HI	96817
Rev.	Mustard	Pao	Samoan-Tokelau Seventh-Day Adventist	1128 Banyan Street		HONOLULU HI 96817	Honolulu	HI	96817
Rev.	Brian	Mauricio	Su Gran Alabanza	701 N King Street		HONOLULU HI 96817	Honolulu	HI	96817
Mr.	G. Umi	Kai	ʻAha Kāne	P O Box 31303		HONOLULU HI 96820	Honolulu	HI	96820
Mr.	Thomas Joseph	Lenchanko	Aha Kukaniloko Koa Mana mea ola kanaka mauli	931 Uakanikoo Street		WAHIAWA HI 96786	Wahiawa	HI	96786
Ms.	Donna D.	Sterling	Aha Moku O Kahikinui	P O Box 700		MAKAWAO HI 96768	Makawao	HI	96768
Mr.	Ke'eaumoku	Kapu	Aha Moku o Maui Inc.	P O Box 11524		LAHAINA HI 96761	Lahaina	HI	96761
Ms.	Linda Kaleo	Paik	Aha Wahine	98-070 Lokowai Street		AIEA HI 96701	Aiea	HI	96701
Ms.	Rona	Rodenhurst	ʻAhahui Siwila Hawaiʻi O Kapōlei	P O Box 700007		KAPOLEI HI 96709	Kapolei	HI	96709
Ms.	Kammy	Purdy	Ahupuaʻa o Molokaʻi	P O Box 159		HOOLEHUA HI 96729	Hoolehua	HI	96729
Mr.	Dennis	Kanahele	Aloha First	P O Box 701		WAIMANALO HI 96795	Waimanalo	HI	96795
Mr.	Hailama	Farden	Association of Hawaiian Civic Clubs	P O Box 1135		HONOLULU HI 96807	Honolulu	HI	96807
Ms.	Blossom	Feiteira	Association of Hawaiians for Homestead Lands	2149 Lauwiliwili St., Ste. 200		KAPOLEI HI 96707	Kapolei	HI	96707
Mr.	Samson L.	Brown	Au Puni O Hawaii	21 Pohai Street		HILO HI 96720	Hilo	HI	96720
Mr.	Brian Kaniela Naeʻole	Naauao	Brian Kaniela Naeʻole Naauao	477 South Kamehameha Avenue		KAHULUI HI 96732	Kahului	HI	96732
Ms.	Maydean K.	Bowman	Charles Pelenui Mahi Ohana	P O Box 44692		KAWAIHAE HI 96743	Kawaihae	HI	96743
Mr.	Joseph Kūhiō	Lewis	Council for Native Hawaiian Advancement	91-1270 Kinoiki Street, Building 1		KAPOLEI HI 96707	Kapolei	HI	96707
Mr.	Mark	Shklov	Friends of ʻIolani Palace	P O Box 2259		HONOLULU HI 96804	Honolulu	HI	96804
Ms.	Blossom	Feiteira	Friends of Mokuʻula, Inc.	505 Front Street, Suite 221		LAHAINA HI 96761	Lahaina	HI	96761
Ms.	Mahealani	Cypher	George K. Cypher ʻOhana	c/o Denise DeCosta	45-342 Lilipuna Road #308	KANEOHE HI 96744	Kaneohe	HI	96744
Ms.	Ilima	Ho-Lastimosa	God's Country Waimanalo	P O Box 723		WAIMANALO HI 96795	Waimanalo	HI	96795
Ms.	Winifred	Basques	Hauʻouiwi Homestead Association on Lānaʻi	P O Box 630521		LĀNAʻI CITY HI 96743	Lānaʻi City	HI	96743
Ms.	Antoinette K.	Mallow	Hawaiian Civic Club of Hilo	P O Box 592		HILO HI 96721	Hilo	HI	96721
Ms.	Maria "Malia"	Doo	Hawaiian Civic Club of Wahiawa	95-524 Wehewehe Loop		MILILANI HI 96789	Mililani	HI	96789
Mr.	Jeff	Gilbreath	Hawaiian Community Assets, Inc.	200 N. Vineyard Blvd., #A300		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Ilima	Ho-Lastimosa	Ho Ohana	41-727 Ala Koa Street		WAIMANALO HI 96795	Waimanalo	HI	96795
Ms.	Dawn N. S.	Chang	Hoʻokano Family Land Trust	P O Box 6280		KANEOHE HI 96744	Kaneohe	HI	96744
Mr.	Adrian Nakea	Silva	Hui Huliau Inc.	P O Box 587		WAIANAE HI 96792	Waianae	HI	96792
Ms.	Jaynie I.	Stone	Hui Kaleleiki Ohana	1091 Lunaanela Street		KAILUA HI 96734	Kailua	HI	96734
Ms.	Michelle Malia	Hiraishi	Hui Mālama Ola Nā ʻŌiwi	69 Railroad Ave, Ste A-3		HILO HI 96720	Hilo	HI	96720
Ms.	Dreanalee	Kalili	Imua Hawaii	P O Box 1811		HONOLULU HI 96805	Honolulu	HI	96805
Ms.	Sharon K.	Paulo	Kaha I Ka Panoa Kaleponi Hawaiian Civic Club	P O Box 9817		MORENO VALLEY CA 92552	Moreno Valley	CA	92552
Mr.	Kanekoa	Kukea-Shultz	Kākoʻo ʻŌiwi	46-005 Kawa Street #104		KANEOHE HI 96744	Kaneohe	HI	96744
Ms.	Melissa M.	Lyman	Kalaeloa Heritage and Legacy Foundation	P O Box 700012		KAPOLEI HI 96709	Kapolei	HI	96709
Ms.	Gayla M.	Haliniak-Lloyd	Kalamaʻula Homesteaders Association	P O Box 1025		KAUNAKAKAI HI 96748	Kaunakakai	HI	96748
Ms.	Leimomi	Khan	Kalihi Palama Hawaiian Civic Club	c/o 1288 Kapiolani Boulevard, Unit 1905		HONOLULU HI 96814	Honolulu	HI	96814

Mr.	Thomas	Kamealoha	Kamealoha	84-1035 Kaulaili Road #A		WAIANAE HI 96795	Waianae	HI	96795
Ms.	Piilani	Hanohano	Kamehameha Schools - Community Relations and Communications Group, Government Relations	567 S King Street, Suite 400		HONOLULU HI 96813	Honolulu	HI	96813
Ms.	Vivian L.	Ainoa	Kamiloloa One Ali'i Homestead Association	P O BOX 1349		KAUNAKAKAI HI 96748	Kaunakakai	HI	96748
Ms.	Taffi	Wise	Kanu o ka ʻĀina Learning ʻOhana	P O BOX 6511		KAMUELA HI 96743	Kamuela	HI	96743
Mr.	Scott	Abrigo	Kapolei Community Development Corporation	P O BOX 75658		KAPOLEI HI 96707	Kapolei	HI	96707
Ms.	Carol N.	Johnson	Kauwahi ʻAnaina Hawai'i Hawaiian Civic Club	P O BOX 50808		PROVO UT 84605	Provo	UT	84605
Mr.	Thomas T.	Shirai, Jr.	Kawaihapai Ohana	P O BOX 601		WAIALUA HI 96791	Waialua	HI	96791
Mr.	Roth	Puahala	Ke One O Kakuhihewa	P O BOX 37874		HONOLULU HI 96837	Honolulu	HI	96837
Mr.	Dennis	Ragsdale	Kingdom of Hawai'i	1777 Ala Moana Blvd, #142-102		HONOLULU HI 96815	Honolulu	HI	96815
Ms.	Mahealani	Cypher	Koʻolau Foundation	P O BOX 4749		KANEOHE HI 96744	Kaneohe	HI	96744
Ms.	Mahealani	Cypher	Koʻolaupoko Hawaiian Civic Club	P O BOX 664		KANEOHE HI 96744	Kaneohe	HI	96744
Mr.	Glen	Kila	Koa Ike	89-530 Mokiawe Street		WAIANAE HI 96792	Waianae	HI	96792
Ms.	Adrienne	Dillard	Kula no na Po'e Hawaii	P O BOX 23268		HONOLULU HI 96823	Honolulu	HI	96823
Mr.	Leslie Apiu Aipalena	Kululoio	Kululoi'a Lineage - I ke Kai 'o Kululoi'a	469 Maalo Street		KAHULUI HI 96732	Kahului	HI	96732
Mr.	Craig V.	Kahui	Laʻi ʻŌpua 2020	74-5599 Luhia Street, E5		KAILUA KONA HI 96740	Kailua Kona	HI	96740
Mr.	Kaleo	Keeno	Lahui Kaka'ikahi	41-210 Hihimanu Street		WAIMANALO HI 96795	Waimanalo	HI	96795
Ms.	Lani Ma'a	Lapilio	Ma'a ʻOhana c/o Lani Ma'a Lapilio	c/o Aukahi	P O BOX 6087	KANEOHE HI 96744	Kaneohe	HI	96744
Ms.	Brenda Luana Machado	Lee	Machado-Akana-Aona-Namakaeha Ohana	P O BOX 133		CAPTAIN COOK HI 96704	Captain Cook	HI	96704
Ms.	Keona	Mark	Mahu Ohana	P O BOX 2		HALEIWA HI 96712	Haleiwa	HI	96712
Ms.	Charlene	Lui	Mainland Council Association of Hawaiian Civic Clubs	766 North 900 West		OREM UT 84057	Orem	UT	84057
Ms.	Lu	Faborito	Mākaha Hawaiian Civic Club	P O Box 305		WAIANAE HI 96792	Waianae	HI	96792
Ms.	Paula K.	Kekahuna	Maku'u Farmers Association	15-2131 Keaau Pahoa Highway		PAHOA HI 96778	Pahoa	HI	96778
Ms.	Homelani	Schaedel	Malu'ōhai Residents Association	P O BOX 700911		KAPOLEI HI 96709	Kapolei	HI	96709
Mr.	Vincent	Manuwai	Mana Health Services, Inc.	94-307 Farrington Hwy, Unit B01		WAIPAHU HI 96797	Waipahu	HI	96797
Mr.	Glen	Kila	Marae Ha'a Koa	89-530 Mokiawe Street		WAIANAE HI 96792	Waianae	HI	96792
	Linda Kaleo	Kawaiaea	Meleana Kawaiaea, LLC	2169 Kauhana Street		HONOLULU HI 96816	Honolulu	HI	96816
Mr.	Michael	Kahue	Menehune Foundation	1188 Bishop Street, Suite 3004		HONOLULU HI 96813	Honolulu	HI	96813
Ms.	Jade Alohalani	Smith	Moku o Kaupo	P O BOX 1269		KULA HI 96790	Kula	HI	96790
Ms.	Uilani	Kapu	Na Aikane O Maui	562A Front Street		LAHAINA HI 96761	Lahaina	HI	96761
Ms.	Mililani	Trask	Na Koa Ikaika Ka Lahui Hawaii	P O BOX 6377		HILO HI 96720	Hilo	HI	96720
Ms.	H. Kanoeokalani	Cheek	Na Kuʻauhau ʻo Kahiwakaneikopolei	P O BOX 5411		KANE'OHE HI 96744	Kane'ohe	HI	96744
Ms.	Donna Kaliko	Santos	Nā Kuleana o Kānaka ʻŌiwi	P O BOX 1541		LĪHUʻE HI 96766	Līhuʻe	HI	96766
Mr.	Hanalei	Fergerstrom	Na Kūpuna Moku O Keawe	P O Box 951		KURTISTOWN HI 96760	Kurtistown	HI	96760
Mr.	Noa	Mau-Espirito	Na Mookupuna O Wailua	6200 Olohena Road, Unit A		KAPAʻA HI 96746	Kapaʻa	HI	96746
Ms.	Roxanne	Hanawahine	Na Ohana o Puaoi a me Hanawahine	41-153 Nalu Street		WAIMANALO HI 96795	Waimanalo	HI	96795
Ms.	Paige Kapiolani	Barber	Nanakuli Housing Corporation	P O BOX 17489		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Leilani	Williams-Solomon	Native Hawaiian Chamber of Commerce	P O BOX 597		HONOLULU HI 96809	Honolulu	HI	96809
Mr.	Kaleo	Patterson	Native Hawaiian Church	1127 Bethel Street, Suite 16		HONOLULU HI 96813	Honolulu	HI	96813
Mr.	Napali	Woode	Native Hawaiian Economic Alliance	2149 Lauwiliwili St., Ste. 200		KAPOLEI HI 96707	Kapolei	HI	96707
Ms.	Erika	Vincent	Native Hawaiian Education Council	735 Bishop Street, Suite 224		HONOLULU HI 96813	Honolulu	HI	96813
Ms.	Pohai	Ryan	Native Hawaiian Hospitality Association	310 Paoakalani Avenue, #201A		HONOLULU HI 96815	Honolulu	HI	96815
Ms.	Maraea K.	Nekaifes	Nekaifes Ohana	212 Hiipali Loop		KULA HI 96790	Kula	HI	96790
Mr.	Dennis W.	Ragsdale	Order of Kamehameha I	1777 Ala Moana Blvd, #142-102		HONOLULU HI 96815	Honolulu	HI	96815
Mr.	William W. Moekahi	Steiner	Pacific Agricultural Land Management Systems	P O BOX 4565		HILO HI 96720	Hilo	HI	96720
Mr.	Kaleo	Patterson	Pacific Justice & Reconciliation Center	1127 Bethel Street, Suite 16		HONOLULU HI 96813	Honolulu	HI	96813
Ms.	Victoria	Holt Takamine	PA'I Foundation	P O Box 17483		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Sheri-Ann	Daniels	Papa Ola Lokahi	894 Queen Street		HONOLULU HI 96813	Honolulu	HI	96813
Ms.	Lilia	Kapuniai	Papakōlea Community Development Corporation	2150 Tantalus Drive		HONOLULU HI 96813	Honolulu	HI	96813
Mr.	Jan E. Hanohano	Dill	Partners in Development Foundation	2040 Bachelot Street		HONOLULU HI 96817	Honolulu	HI	96817
Ms.	Olinda	Aiwohi	Paukukalo Hawaiian Homes Community Association	781 Kawananakoa Street		WAILUKU HI 96793	Wailuku	HI	96793
Mr.	Apela	Peahi	Peahi Ohana	41-205 Lupe Street		WAIMANALO HI 96795	Waimanalo	HI	96795
Mr.	Ronald	Kodani	Piihonua Hawaiian Homestead Community Association	37 Waiea Place		HILO HI 96720	Hilo	HI	96720
Mr.	L. Laakea	Suganuma	Royal Hawaiian Academy of Traditional Arts	835 Ahuwale Street		HONOLULU HI 96821	Honolulu	HI	96821
Ms.	Robin Puanani	Danner	Sovereign Councils of the Hawaiian Homelands Assembly	2149 Lauwiliwili Street, Suite 200		KAPOLEI HI 96707	Kapolei	HI	96707
Mr.	William K.	Richards, Jr.	The Friends of Hokuleʻa and Hawaiʻiloa	P O BOX 696		KAILUA HI 96734	Kailua	HI	96734
Mr.	Melvin	Soong	The I Mua Group	422 Iliaina Street		KAILUA HI 96734	Kailua	HI	96734
Mr.	Eugene	O'Connell	The Mākua Group	87-282 Holopono Street		WAIANAE HI 96792	Waianae	HI	96792

Mr.	Laakea	Suganuma	The Mary Kawena Puku'I Cultural Preservation Society	835 Ahuwale Street		HONOLULU HI 96821	Honolulu	HI	96821
Ms.	Mele	Worthington	Wai'anae Hawaiian Civic Club	P O BOX 687		WAI'ANAE HI 96792	Wai'anae	HI	96792
Mr.	Roy	Oliveira	Waiehu Kou Phase 3 Association	49 Kaulana Na Pua Circle		WAILUKU HI 96793	Wailuku	HI	96793
Mr.	Kamakana M.	Aquino	Waimānalo Hawaiian Homes Association	P O BOX 353		WAIMĀNALO HI 96795	Waimānalo	HI	96795
			1416 A PUA LANE LLC	645 ULUMALU STREET		KAILUA HI 96734	KAILUA	HI	96734
			515 & 529 MALANAI PLACE	CONDO MASTER	529 MALANAI PLACE	HONOLULU HI 96817	HONOLULU	HI	96817
			682 NORTH KING LLC	201 ONEAWA KAI PLACE		KAILUA HI 96734	KAILUA	HI	96734
			AALA PROPERTIES LLC	2153 N KING STREET #321-B		HONOLULU HI 96819	HONOLULU	HI	96819
			AALA PROPERTIES LLC	869 N NIMITZ HWY		HONOLULU HI 96817	HONOLULU	HI	96817
			ABABA, RENATO A	1213 PALAMA STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			ABAD, PAULINO A	1306 PALAMA STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			ALBANO, ROBERT K O	1115 BANYAN STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			ALII FIRE PROTECTION	P O BOX 29057		HONOLULU HI 96820	HONOLULU	HI	96820
			ALOHA FENDER WORKS INC	C/O B.Y. REALTY	P O BOX 22220	HONOLULU HI 96823	HONOLULU	HI	96823
			ALOHA TOFU FACTORY INC	961 AKEPO LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			ALOHA UNITED WAY INC	C/O COLLIER INTERNATIONAL	220 S KING STREET #1800	HONOLULU HI 96813	HONOLULU	HI	96813
			ALPAC CORP	815 WAIAKAMILO ROAD		HONOLULU HI 96817	HONOLULU	HI	96817
			ALVAREZ, ELENITA V TR	321 N KUAKINI STREET #510		HONOLULU HI 96817	HONOLULU	HI	96817
			AMERICAN SAVINGS BANK FSB	P O BOX 2300		HONOLULU HI 96804	HONOLULU	HI	96804
			AOKI, ARTHUR	233 NAMILIMILI STREET		HONOLULU HI 96813	HONOLULU	HI	96813
			APRIL, JANETTE	824 LOPEZ LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			ARDIENTE, BERNARDITA R	828 B LAKIMELA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			ARIOS, ROBERT R	98-777 NAALII STREET		AIEA HI 96701	AIEA	HI	96701
			AU, KERWIN M T TRUST	5250 OIO DRIVE		HONOLULU HI 96821	HONOLULU	HI	96821
			AVERA, EUGENIA B	850 LOPEZ LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			B P BISHOP TRUST ESTATE	P O BOX 3466		HONOLULU HI 96801	HONOLULU	HI	96801
			BAGWAN, MARY ANN	621 A WAIPA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			BAKKE, LOWELL V	5259 PAPAI STREET		HONOLULU HI 96821	HONOLULU	HI	96821
			BALBAS, IMELETA S	609 WAIPA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			BANYAN HOUSING LP	1700 7TH AVE STE 200	>	SEATTLE WA 98101	SEATTLE	WA	98101
			BARTOLOME, DENNIS G	823 A LAKIMELA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			BAUTISTA, NARCISO M	624 B N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			BOIRUM, EMILY J	1127 BANYAN STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			BONILLA, ALIPIO D/EUSEBIA TR	1202 PALAMA STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			BRANNER, JOHN M	940 AKEPO LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			BUCK TOY CLUB	572 N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			BUTAY, JUANITO/PATRICIA TR	1127 BANYAN STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			CABANSAGAN, PAZ	124 NORTHGATE AVE		DALY CITY CA 94015	DALY CITY	CA	94015
			CABUSLAY, CHERRYLIN	811 A LAKIMELA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			CABUSLAY/ADORACION TRUST	811 LAKIMELA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			CADIENTE, CLEMENTE/ANASTACIA	622 A N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			CALDERON, ALFREDO B	816 LOPEZ LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			CALDERON, REGINA A TRUST	816 LOPEZ LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			CAMBIA, HONIE D	1115 BANYAN STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			CANDELARIO, JOINT TRUST	1416 PUA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			CAO, XIU YING	809 KANOA STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			CARILLO, MARCELINO C	817 LAKIMELA LN		HONOLULU HI 96817	HONOLULU	HI	96817
			CEDAR ASSEMBLY OF GOD	P O BOX 201429		HONOLULU HI 96820	HONOLULU	HI	96820
			CHAN, DORIS Y TRUSTEE	P O BOX 1568		AIEA HI 96701	AIEA	HI	96701
			CHAR, STELLA O K	717 N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			CHEN, DENNIS L	1230 PUA LANE #1		HONOLULU HI 96817	HONOLULU	HI	96817
			CHING, CHECK HUNG	1121 BANYAN STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			CHING, CHRISTOPHER K F	521 KIAPU PLACE		HONOLULU HI 96825	HONOLULU	HI	96825
			CHIYOKO TOGUCHI INC	1155 KAUMAILUNA PL		HONOLULU HI 96817	HONOLULU	HI	96817
			CHOY, WALTER W F TR	C/O EDMUND CHOY	3030 PUIWA LANE	HONOLULU HI 96817	HONOLULU	HI	96817
			CHUA, WILLIAM A	538 N JUDD STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			CHUN, PRESCOTT D M TR	98-138 KALIKE PLACE		AIEA HI 96701	AIEA	HI	96701
			CHUN, RICHARD N T TRUST	646 WYLLIE STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			CHUN, TAI MOY TR	817 A LAKIMELA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			CHUN, TONY Y F	4834 KAHALA AVENUE		HONOLULU HI 96816	HONOLULU	HI	96816
			CHUNG, FRED W C	1938 PALA STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			CHUNG, LILLIAN L Y	1422 A PUA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			CHUNG, PEARL L G	1428 PUA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			CITY AND COUNTY OF HONOLULU	BERETANIA COMMUNITY PARK	1290 AALA STREET	HONOLULU HI 96817	HONOLULU	HI	96817
			CITY AND COUNTY OF HONOLULU	DEPARTMENT OF LAND MANAGEMENT	530 S KING STREET ROOM 306	HONOLULU HI 96813	HONOLULU	HI	96813
			CITY AND COUNTY OF HONOLULU	DEPARTMENT OF PARKS AND RECREATION	1000 ULUOHIA STREET SUITE 309	KAPOLEI HI 96707	KAPOLEI	HI	96707
			CITY AND COUNTY OF HONOLULU	DEPARTMENT OF TRANSPORTATION SERVI	650 S KING STREET, 3RD FLOOR	HONOLULU HI 96813	HONOLULU	HI	96813
			COCKETT, RUDOLPH C TR EST	205 HALEMAUMAU STREET		HONOLULU HI 96821	HONOLULU	HI	96821
			CORPUZ, REMEDIOS S TR	634 E N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			CUPBOARD LLC	1616 LILIHA STREET 3RD FLOOR		HONOLULU HI 96817	HONOLULU	HI	96817

			DAN DUDDEN INC.	122 KAAPUNI STREET		KAILUA HI 96734	KAILUA	HI	96734
			DE VERA, BENITA T	642 F N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			DEVICTORIA, CARLOTA P	1108 HULAKUI DRIVE		HONOLULU HI 96818	HONOLULU	HI	96818
			DHARMA REALM BUDDHIST ASSN	1777 MURCHISON DR		BURLINGAME CA 94010	BURLINGAME	CA	94010
			DINIEGA, ORLANDO V TR	3528 ALIAMANU STREET		HONOLULU HI 96818	HONOLULU	HI	96818
			DOLOR, FAUSTO A TRUST	811 LAKIMELA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			DOMINGO, MIRIAM P	513 KIAPU PLACE		HONOLULU HI 96817	HONOLULU	HI	96817
			DOUGLAS EMMETT RESIDENTIAL 2014 LLC	ATTN: JOHN MEEHAN	808 WILSHIRE BLVD STE 200	SANTA MONICA CA 90401	SANTA MONICA	CA	90401
			DOWNTOWN AFFORDABLES LLC	215 N KING STREET #1000		HONOLULU HI 96817	HONOLULU	HI	96817
			DUTTA, SUMITA	950 PAULSBORO DRIVE		ROCKVILLE MD 20850	ROCKVILLE	MD	20850
			ESPERAS, ALICE M TR	C/O MR. & MRS. CHARLES ESPERAS	94-345 KAUKALIA STREET	MILILANI HI 96789	MILILANI	HI	96789
			ETERNAL LIGHT LLC	700 BISHOP STREET #1104		HONOLULU HI 96813	HONOLULU	HI	96813
			FANG, CARDY J H C	P O BOX 235693		HONOLULU HI 96823	HONOLULU	HI	96823
			FELCOR 1 LLC	1419 TAMARISK DRIVE		SAINT GEORGE UT 84790	SAINT GEORGE	UT	84790
			FELCOR 2 LLC	1419 TAMARISK DRIVE		SAINT GEORGE UT 84790	SAINT GEORGE	UT	84790
			FHB PROPERTIES INC	C/O BANK PROPERTIES DEPT	P O BOX 3200	HONOLULU HI 96847	HONOLULU	HI	96847
			FIRST HAWAIIAN BANK	C/O BANK PROPERTIES DEPT	P O BOX 3200	HONOLULU HI 96847	HONOLULU	HI	96847
			FONG, SUZANNE S QUALIF DOMESTIC TR	1200 14TH AVENUE		HONOLULU HI 96816	HONOLULU	HI	96816
			FOODMAKER INC	C/O EPROPERTY TAX DEPT 401	P O BOX 4900	SCOTTSDALE AZ 85261	SCOTTSDALE	AZ	85261
			FORONDA, FEDERICO T	601 WAIPA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			FORONDA, LYNDON P	1240 PALAMA STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			FUJII FAMILY PARTNERSHIP	P O BOX 30607		HONOLULU HI 96820	HONOLULU	HI	96820
			G VON HAMM TEXTILES INC	916 KAAAHI PLACE		HONOLULU HI 96817	HONOLULU	HI	96817
			GANSIT, FERNANDO C TR	1137 AUSTIN LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			GANSIT, FERNANDO C TRUST	P O BOX 19052		HONOLULU HI 96817	HONOLULU	HI	96817
			GAO, JI KANG	722 PANUI STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			GROANING, JOSEPH E	642 A N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			GUEVARRA, ALFREDO B	1119 BANYAN STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			GUZMAN, DOLORES D	634 A N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			HALE O KANOA	CONDO MASTER	1110 BANYAN STREET	HONOLULU HI 96817	HONOLULU	HI	96817
			HAWAII CONFERENCE FOUNDATION	1848 NUUANU AVENUE		HONOLULU HI 96817	HONOLULU	HI	96817
			HAWAII HOUSING FINANCE AND DEV. CORP.	677 QUEEN STREET #300		HONOLULU HI 96813	HONOLULU	HI	96813
			HAWAII PUBLIC HOUSING AUTHORITY	1002 N SCHOOL STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			HAWAIIUSA FCU	1226 COLLEGE WALK		HONOLULU HI 96817	HONOLULU	HI	96817
			HAWN ASSN 7TH DAY ADVENTIST	2728 PALI HWY		HONOLULU HI 96817	HONOLULU	HI	96817
			HAWN DIV TENSHO-KOTAI JINGU	888 KING STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			HEALING, EUGENE H	642 C N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			HEE, HENRY T K	P O BOX 17116		HONOLULU HI 96817	HONOLULU	HI	96817
			HIGGINS PROPERTIES LLC	255 WASHINGTON STREET #230		NEWTON MA 02458	NEWTON	MA	02458
			HO, KIM CHI THI	642 N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			HO, PRIYA K	215 N KING STREET #1007		HONOLULU HI 96817	HONOLULU	HI	96817
			HPL CO LLC	ATTN: ILC & SWELL REALTY LLC	1441 KAPIOLANI BLVD #1915	HONOLULU HI 96814	HONOLULU	HI	96814
			HUANG, AIMING	823 B LAKIMELA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			HUSAIN, SANTIAGO T JR	608 N VINEYARD BLVD 202		HONOLULU HI 96817	HONOLULU	HI	96817
			IES RETAIL LLC	ATTN: TIM PARKER	91-480 MALAKOLE ST	EWA BEACH HI 96706	EWA BEACH	HI	96706
			INSTITUTE FOR HUMAN SERVICES	546 KAAAHI STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			ISHIHARA, KAREN C	623 B WAIPA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			ISLAND-WEST INVESTMENT CORP	P O BOX 905		TERRY MT 59349	TERRY	MT	59349
			IWANAGA, CAROL ANN Y	622 B N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			IZAWA INVESTMENT LLC	P O BOX 19164		HONOLULU HI 96817	HONOLULU	HI	96817
			IZUMO TAISHAKYO MISS OF HAW	215 N KUKUI STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			JAVIER, MARLON	819 KANOA STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			JKA TRUST	C/O JOYCE K ALMEIDA	41-020 MANANA ST #A	WAIMANALO HI 96795	WAIMANALO	HI	96795
			JOSE, JOSEPHINE TR	938 C AKEPO LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			K SUMIYOSHI INC	918 HAO STREET		HONOLULU HI 96821	HONOLULU	HI	96821
			KAAAHI DEVELOPMENT	921 KAAMAHU PLACE		HONOLULU HI 96817	HONOLULU	HI	96817
			KAGEYAMA, SY S	634 C N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			KAULUWELA 1	C/O HAWAIIANA MANAGEMENT CO	711 KAPIOLANI BLVD STE 700	HONOLULU HI 96813	HONOLULU	HI	96813
			KAULUWELA 2	C/O HAWAIIANA MGMT CO LTD	711 KAPIOLANI BLVD STE 700	HONOLULU HI 96813	HONOLULU	HI	96813
			KAYA, THOMAS T TRUST	1118 PALAMA STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			KEOLA HOONANEA	C/O HAWAIIANA MGMT CO, LTD	711 KAPIOLANI BLVD #700	HONOLULU HI 96813	HONOLULU	HI	96813
			KIKUKAWA, DAVID A	631 WAIPA LANE #3		HONOLULU HI 96817	HONOLULU	HI	96817
			KINGSGATE PLAZA CO	C/O LAU, MERTON	2920 S KING ST # 1001	HONOLULU HI 96826	HONOLULU	HI	96826
			KO, KALVIN Y D	2711 PALI HWY		HONOLULU HI 96817	HONOLULU	HI	96817
			KOREAN CHRISTIAN CHURCH	1832 LILIHA STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			KUKUI CHILDRENS FOUNDATION	245 N KUKUI STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			KWA, NATALIE A	1430 HOLELUA PLACE		HONOLULU HI 96817	HONOLULU	HI	96817
			LAM, LAMBERT K Y	17 KEPOLA PLACE		HONOLULU HI 96817	HONOLULU	HI	96817
			LAM, LAMBERT K Y TR	17 KEPOLA PLACE		HONOLULU HI 96817	HONOLULU	HI	96817
			LAM, TAT CHUEN/SERLIN P C TRUST	717 N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			LAM, TRAM T	704 N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			LANIO PROPERTIES CORP	C/O WARREN HO/LANI PROPERTIES	50 S BERETANIA ST C209	HONOLULU HI 96813	HONOLULU	HI	96813

			LAU, PING HUNG	634 I N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			LEE, AH FEI	1119 BANYAN STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			LEE, ALAN K C/JANIE Y Y TR	622 WAIPA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			LEE, DANNY W K	814 LAKIMELA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			LEE, DORIS Y M TR	642 J N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			LEE, FREDERICK C T	1624 KANUNU STREET #508		HONOLULU HI 96814	HONOLULU	HI	96814
			LEE, MING WAI TRUST	59 WINDCREST LANCE		SOUTH SAN FRANCISCO CA 94080	SOUTH SAN FRAN	CA	94080
			LEE, RICHARD K W TR	642 J N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			LEE, YUE HUNG L	1121 B BANYAN STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			LI, DE XING	2114 KAHAHA STREET		HONOLULU HI 96819	HONOLULU	HI	96819
			LI, RI R TR	2521 PUAENA PLACE		HONOLULU HI 96822	HONOLULU	HI	96822
			LIANG, JOE	507 KIAPU PLACE		HONOLULU HI 96817	HONOLULU	HI	96817
			LIANG, SIO C	624 WAIPA LANE #4		HONOLULU HI 96817	HONOLULU	HI	96817
			LIANG, XU MING	532 WAIPA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			LILIHA PROFESSIONAL BUILDING LLC	1200 QUAIL STREET #235		NEWPORT BEACH CA 92660	NEWPORT BEACH	CA	92660
			LIN, JIAN WEN	607 WAIPA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			LIN, LEO	2101 ROUND TOP DR		HONOLULU HI 96822	HONOLULU	HI	96822
			LIU, WILSON	1638 OO LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			LLAMAS, REMY C	627 WAIPA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			LO, RENEE	99-904 LALAWAI DRIVE		AIEA HI 96701	AIEA	HI	96701
			LOO, WILLIAM W M	1203 PALAMA STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			LU, XIAO JIE LIANG	1430 A HOLELUA PLACE		HONOLULU HI 96817	HONOLULU	HI	96817
			LUIS, ROBERT G	820 LAKIMELA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			LUM, EULALIA W M TR	P O BOX 11480		HONOLULU HI 96828	HONOLULU	HI	96828
			LUM, RITA L	23 KAUILA STREET #4		HONOLULU HI 96813	HONOLULU	HI	96813
			LUM, WING YEE LAU	1416 B PUA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			LUNG KONG KUNG SHAW SOCIETY	1432 LILIHA STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			M & S PR0PERTIES LLC	4563 WAIKUI STREET		HONOLULU HI 96821	HONOLULU	HI	96821
			MA, NGAI	C/O ERIC MA	1217 OLINO STREET	HONOLULU HI 96818	HONOLULU	HI	96818
			MADDELA, FLORENTINO G JR	642 N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			MAH, YONG CHUN	1380 LILIHA ST		HONOLULU HI 96817	HONOLULU	HI	96817
			MARIPOSA PROPERTIES LTD PTN	2117 MAUNA PLACE		HONOLULU HI 96822	HONOLULU	HI	96822
			MATEO, IRIS A	2860 WAIALAE AVENUE #209		HONOLULU HI 96826	HONOLULU	HI	96826
			MATSUBARA, HERBERT H TRUST	709 N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			MCDONALD, MARTIN L	634 D N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			MCNALL, CHONG SON	1412 PUA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			MENOR, NICANOR G	815 LOPEZ LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			METHODIST EPISCOPAL CHURCH	1352 LILIHA STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			MIKAMI, MARIKO TR	703 N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			MOLINA, TIMMY C TR	675 N KING ST # 200		HONOLULU HI 96817	HONOLULU	HI	96817
			NAKAHARA, JUNE H	1118 PUA LANE # 310		HONOLULU HI 96817	HONOLULU	HI	96817
			NAKAMURA, DAVID M	1001 DILLINGHAM BLVD APT 208		HONOLULU HI 96817	HONOLULU	HI	96817
			NAKAOKA INVESTMENTS INC	515 MAUI STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			NG, LARRY/PAZ TR	95-1005 HALEKUA STREET		MILILANI HI 96789	MILILANI	HI	96789
			NGUYEN, SAMSON	1131 B BANYAN STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			NUUANU CHINESE BAPTIST CHURCH	477 N KING STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			ON TONG TUNG HEONG SOCIETY	544 N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			PADAYAO, DIEGO R	634 B N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			PAGADUAN, HERMIE M	823 LAKIMELA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			PALAMA PROPERTY LIMITED	1633 ANAPUNI ST		HONOLULU HI 96822	HONOLULU	HI	96822
			PALAMA SETTLEMENT	810 N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			PASCUA, CATALINO M	1440 HOLELUA PLACE		HONOLULU HI 96817	HONOLULU	HI	96817
			PASCUA, VILLAMOR S	1012 PALAMA STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			PATRICIO, ANTONIO L	717 VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			POBRE, ORNELIO S JR	811 LAKIMELA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			PRECISION INDUSTRIES LTD	928 KAAMAHU PLACE		HONOLULU HI 96817	HONOLULU	HI	96817
			PROPERTY INVESTMENTS LLC	C/O T.J. MAHONEY & ASSOCIATES, INC	8068 W. SAHARA AVE, STE E	LAS VEGAS NV 89117	LAS VEGAS	NV	89117
			PUALANI MANOR CORP	C/O HAWAIIAN PROPERTIES LTD	P O BOX 38078	HONOLULU HI 96837	HONOLULU	HI	96837
			QIN, WEI-JIAN	530 WAIPA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			R & D CONTRACTORS	2227 ALA MAHAMOE STREET		HONOLULU HI 96819	HONOLULU	HI	96819
			ROBELLO GROUP LLC	350 WARD AVENUE #27		HONOLULU HI 96814	HONOLULU	HI	96814
			SALAZAR, PAUL D S	334 LEWIS ROAD		NEW BRITAIN CT 06053	NEW BRITAIN	CT	06053
			SALVATION ARMY THE	P O BOX 620		HONOLULU HI 96809	HONOLULU	HI	96809
			SANCHEZ, JACINTO	811 LOPEZ LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			SEBASTIAN, FLORANTE S LLC	2008 PUUKAPU STREET		HONOLULU HI 96819	HONOLULU	HI	96819
			SEDYANA, PADMA	709 N VINEYARD BLVD		HONOLULU HI 96817	HONOLULU	HI	96817
			SERENO, SILVERIO C JR	621 WAIPA LANE		HONOLULU HI 96819	HONOLULU	HI	96819
			SETO, FULTON L TRUST	C/O GOODWIN SETO TR	3730 SIERRA DR	HONOLULU HI 96816	HONOLULU	HI	96816
			SHEN, LIANNE	1115 A BANYAN STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			SHIGAKI, ROBERT S TR EST	1051 KIKEKE AVENUE		HONOLULU HI 96816	HONOLULU	HI	96816
			SHIRAI GROUP LLC	1448 LILIHA STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			SIRISUMPHANT, APIWAT	1127 BANYAN STREET		HONOLULU HI 96817	HONOLULU	HI	96817

			ST ELIZABETH'S EPISCOPAL CHURCH	720 N KING STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			STATE OF HAWAII	DEPARTMENT OF EDUCATION	P O BOX 2360	HONOLULU HI 96804	HONOLULU	HI	96804
			STATE OF HAWAII	DEPARTMENT OF HUMAN SERVICES	1390 MILLER STREET SUITE 209	HONOLULU HI 96813	HONOLULU	HI	96813
			STATE OF HAWAII	DEPARTMENT OF HUMAN SERVICES	333 N KING STREET	HONOLULU HI 96817	HONOLULU	HI	96817
			STATE OF HAWAII	DEPARTMENT OF LAND AND NATURAL RESO	1151 PUNCHBOWL STREET	HONOLULU HI 96817	HONOLULU	HI	96817
			STATE OF HAWAII	DEPARTMENT OF TRANSPORTATION	869 PUNCHBOWL STREET ROOM 509	HONOLULU HI 96813	HONOLULU	HI	96813
			STATE OF HAWAII	DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES	1151 PUNCHBOWL STREET	HONOLULU HI 96817	HONOLULU	HI	96817
			STATE OF HAWAII	KAIULANI ELEMENTARY SCHOOL	783 N KING STREET	HONOLULU HI 96817	HONOLULU	HI	96817
			STATE OF HAWAII	KAULUWELA ELEMENTARY SCHOOL	1486 AALA STREET	HONOLULU HI 96817	HONOLULU	HI	96817
			STATE OF HAWAII	LILIHA PUBLIC LIBRARY	1515 LILIHA STREET	HONOLULU HI 96817	HONOLULU	HI	96817
			SUH, YONG BUM	1090 KEOLU DRIVE #101		KAILUA HI 96734	KAILUA	HI	96734
			SUNRISE DRAGON LLC	C/O TOM SHINSATO REALTY, INC	1744 LILIHA STREET #306	HONOLULU HI 96817	HONOLULU	HI	96817
			TABIOS, AURORA T TRUST	P O BOX 1254		KANEOHE HI 96744	KANEOHE	HI	96744
			TAM, MICHAEL K W	P O BOX 29389		HONOLULU HI 96820	HONOLULU	HI	96820
			TAMASHIRO, WALTER H TRUSTEE	C/O TAMASHIRO, CYRUS TRUSTEE	802 N KING STREET	HONOLULU HI 96817	HONOLULU	HI	96817
			TANAKA, SACHIKO TR	1633 ANAPUNI STREET		HONOLULU HI 96822	HONOLULU	HI	96822
			TANG, DENNIS	1110 PALAMA STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			THOM, BUCK K FAMILY PRTNSP	C/O LOWELL THOM	P O BOX 23380	HONOLULU HI 96823	HONOLULU	HI	96823
			TOGUCHI CHIYOKO INC	1155 KAUMAILUNA PL		HONOLULU HI 96817	HONOLULU	HI	96817
			TOMITA, VIVIAN T TRUST	P O BOX 1858		AIEA HI 96701	AIEA	HI	96701
			TOYAMA, IVAN K/FAY K TR	1565 ST LOUIS DRIVE		HONOLULU HI 96816	HONOLULU	HI	96816
			TRAN, CUONG HOANG TRUST	125 MOKAUEA STREET		HONOLULU HI 96819	HONOLULU	HI	96819
			TRAN, HOANG T	801 KANOA STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			TRANG, GEORGE G N TR	930 N KING STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			TSANG, NGAR SEUNG	515 HIRAM LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			TSR PARTNERS	P O BOX 10242		HONOLULU HI 96816	HONOLULU	HI	96816
			TSURUDA, RICHARD M/TOKUKO GEN TRF TR	C/O FRANKLIN TSURUDA	6220 S 153RD ST #2	SEATTLE WA 98188	SEATTLE	WA	98188
			TUPPIL, MARCELINO P	1411 PUA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			UEHARA, SEIJI	1425 LILIHA STREET 6E		HONOLULU HI 96817	HONOLULU	HI	96817
			UNIVERSITY OF HAWAII	HONOLULU COMMUNITY COLLEGE	874 DILLINGHAM BLVD	HONOLULU HI 96817	HONOLULU	HI	96817
			UYENO, JEANNIE	958 AKEPO LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			VALENZUELA, CELIA G TR	1416 C PUA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			VASS LLC	1222A ALANI STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			VIDAD, CEASAR R V	627 B WAIPA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			VIETNAMESE BUDDHIST ASSN	HONOLULU PROPERTY MANAGEMENT LLC	1003 BISHOP ST STE 2250	HONOLULU HI 96813	HONOLULU	HI	96813
			WALLACE, TO-NU LU	1260 RICHARD LANE #B604		HONOLULU HI 96819	HONOLULU	HI	96819
			WHITING, SANYBOY S	824 LOPEZ LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			WONG, ALTON S TR	PALACE REALTY	1314 S KING ST #1463	HONOLULU HI 96814	HONOLULU	HI	96814
			WONG, PHILIP Y F	615 WAIPA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			WONG, RANDAL S/YVONNE M TR	1443 HOLELUA PLACE		HONOLULU HI 96817	HONOLULU	HI	96817
			WU, XIUFANG	824 LOPEZ LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			XI, ZHANG NIAN	1310 PALAMA STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			XIAO, GUO Y	556 WAIPA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			YAGYAGAN, ELISA I TRUST	811 D LAKIMELA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			YI, DOLE K S	87-1059 D PAPAYA RD		WAIANAE HI 96792	WAIANAE	HI	96792
			YOUNG, CLIFFORD M G	1127 BANYAN STREET		HONOLULU HI 96817	HONOLULU	HI	96817
			ZHANG, HENRY Y	1408 PUA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			ZHU, TENG HAN	811 E LAKIMELA LANE		HONOLULU HI 96817	HONOLULU	HI	96817
			BUSINESS OCCUPANT	935 DILLINGHAM BLVD		HONOLULU HI 96817-4506	HONOLULU	HI	96817-4506
			BUSINESS OCCUPANT	874 DILLINGHAM BLVD		HONOLULU HI 96817-4505	HONOLULU	HI	96817-4505
			BUSINESS OCCUPANT	925 DILLINGHAM BLVD		HONOLULU HI 96817-4506	HONOLULU	HI	96817-4506
			BUSINESS OCCUPANT	909 DILLINGHAM BLVD		HONOLULU HI 96817-4540	HONOLULU	HI	96817-4540
			BUSINESS OCCUPANT	801 DILLINGHAM BLVD STE 101		HONOLULU HI 96817-4529	HONOLULU	HI	96817-4529
			BUSINESS OCCUPANT	801 DILLINGHAM BLVD STE 103		HONOLULU HI 96817-4529	HONOLULU	HI	96817-4529
			BUSINESS OCCUPANT	801 DILLINGHAM BLVD STE 105		HONOLULU HI 96817-4529	HONOLULU	HI	96817-4529
			BUSINESS OCCUPANT	801 DILLINGHAM BLVD STE 106		HONOLULU HI 96817-4529	HONOLULU	HI	96817-4529
			BUSINESS OCCUPANT	801 DILLINGHAM BLVD STE 108		HONOLULU HI 96817-4529	HONOLULU	HI	96817-4529
			BUSINESS OCCUPANT	801 DILLINGHAM BLVD STE 200		HONOLULU HI 96817-4529	HONOLULU	HI	96817-4529
			BUSINESS OCCUPANT	801 DILLINGHAM BLVD STE 300		HONOLULU HI 96817-4529	HONOLULU	HI	96817-4529
			RESIDENT	1238 PUA LN		HONOLULU HI 96817-3815	HONOLULU	HI	96817-3815
			RESIDENT	1232 PUA LN		HONOLULU HI 96817-3815	HONOLULU	HI	96817-3815
			RESIDENT	1230 PUA LN APT 1		HONOLULU HI 96817-3815	HONOLULU	HI	96817-3815
			RESIDENT	1230 PUA LN APT 2		HONOLULU HI 96817-3815	HONOLULU	HI	96817-3815
			RESIDENT	1230 PUA LN APT 2		HONOLULU HI 96817-3815	HONOLULU	HI	96817-3815
			RESIDENT	1216 PUA LN APT 101		HONOLULU HI 96817-3821	HONOLULU	HI	96817-3821
			RESIDENT	1216 PUA LN APT 102		HONOLULU HI 96817-3821	HONOLULU	HI	96817-3821
			RESIDENT	1216 PUA LN APT 103		HONOLULU HI 96817-3821	HONOLULU	HI	96817-3821
			RESIDENT	1216 PUA LN APT 104		HONOLULU HI 96817-3821	HONOLULU	HI	96817-3821
			RESIDENT	1216 PUA LN APT 105		HONOLULU HI 96817-3821	HONOLULU	HI	96817-3821
			RESIDENT	1216 PUA LN APT 106		HONOLULU HI 96817-3821	HONOLULU	HI	96817-3821

			RESIDENT	1216 PUA LN APT 107		HONOLULU HI 96817-3821	HONOLULU	HI	96817-3821
			RESIDENT	1216 PUA LN APT 201		HONOLULU HI 96817-3821	HONOLULU	HI	96817-3821
			RESIDENT	1216 PUA LN APT 202		HONOLULU HI 96817-3823	HONOLULU	HI	96817-3823
			RESIDENT	1216 PUA LN APT 203		HONOLULU HI 96817-3823	HONOLULU	HI	96817-3823
			RESIDENT	1216 PUA LN APT 204		HONOLULU HI 96817-3823	HONOLULU	HI	96817-3823
			RESIDENT	1216 PUA LN APT 205		HONOLULU HI 96817-3823	HONOLULU	HI	96817-3823
			RESIDENT	1216 PUA LN APT 206		HONOLULU HI 96817-3823	HONOLULU	HI	96817-3823
			RESIDENT	1216 PUA LN APT 207		HONOLULU HI 96817-3823	HONOLULU	HI	96817-3823
			RESIDENT	1216 PUA LN APT 208		HONOLULU HI 96817-3823	HONOLULU	HI	96817-3823
			RESIDENT	1216 PUA LN APT 301		HONOLULU HI 96817-3823	HONOLULU	HI	96817-3823
			RESIDENT	1216 PUA LN APT 302		HONOLULU HI 96817-3283	HONOLULU	HI	96817-3283
			RESIDENT	1216 PUA LN APT 303		HONOLULU HI 96817-3824	HONOLULU	HI	96817-3824
			RESIDENT	1216 PUA LN APT 304		HONOLULU HI 96817-3824	HONOLULU	HI	96817-3824
			RESIDENT	1216 PUA LN APT 305		HONOLULU HI 96817-3824	HONOLULU	HI	96817-3824
			RESIDENT	1216 PUA LN APT 306		HONOLULU HI 96817-3824	HONOLULU	HI	96817-3824
			RESIDENT	1216 PUA LN APT 307		HONOLULU HI 96817-3824	HONOLULU	HI	96817-3824
			RESIDENT	1216 PUA LN APT 308		HONOLULU HI 96817-3824	HONOLULU	HI	96817-3824
			RESIDENT	1216 PUA LN APT 401		HONOLULU HI 96817-3824	HONOLULU	HI	96817-3824
			RESIDENT	1216 PUA LN APT 402		HONOLULU HI 96817-3825	HONOLULU	HI	96817-3825
			RESIDENT	1216 PUA LN APT 403		HONOLULU HI 96817-3825	HONOLULU	HI	96817-3825
			RESIDENT	1216 PUA LN APT 404		HONOLULU HI 96817-3825	HONOLULU	HI	96817-3825
			RESIDENT	1216 PUA LN APT 405		HONOLULU HI 96817-3825	HONOLULU	HI	96817-3825
			RESIDENT	1216 PUA LN APT 406		HONOLULU HI 96817-3825	HONOLULU	HI	96817-3825
			RESIDENT	1216 PUA LN APT 407		HONOLULU HI 96817-3825	HONOLULU	HI	96817-3825
			RESIDENT	1216 PUA LN APT 408		HONOLULU HI 96817-3825	HONOLULU	HI	96817-3825
			RESIDENT	1216 PUA LN APT 501		HONOLULU HI 96817-3285	HONOLULU	HI	96817-3285
			RESIDENT	1216 PUA LN APT 502		HONOLULU HI 96817-3285	HONOLULU	HI	96817-3285
			RESIDENT	1216 PUA LN APT 503		HONOLULU HI 96817-3285	HONOLULU	HI	96817-3285
			RESIDENT	1216 PUA LN APT 504		HONOLULU HI 96817-3826	HONOLULU	HI	96817-3826
			RESIDENT	1216 PUA LN APT 505		HONOLULU HI 96817-3826	HONOLULU	HI	96817-3826
			RESIDENT	1216 PUA LN APT 506		HONOLULU HI 96817-3826	HONOLULU	HI	96817-3826
			RESIDENT	1216 PUA LN APT 507		HONOLULU HI 96817-3826	HONOLULU	HI	96817-3826
			RESIDENT	1216 PUA LN APT 508		HONOLULU HI 96817-3826	HONOLULU	HI	96817-3826
			RESIDENT	1216 PUA LN APT 601		HONOLULU HI 96817-3826	HONOLULU	HI	96817-3826
			RESIDENT	1216 PUA LN APT 602		HONOLULU HI 96817-3827	HONOLULU	HI	96817-3827
			RESIDENT	1216 PUA LN APT 603		HONOLULU HI 96817-3827	HONOLULU	HI	96817-3827
			RESIDENT	1216 PUA LN APT 604		HONOLULU HI 96817-3827	HONOLULU	HI	96817-3827
			RESIDENT	1216 PUA LN APT 605		HONOLULU HI 96817-3827	HONOLULU	HI	96817-3827
			RESIDENT	1216 PUA LN APT 606		HONOLULU HI 96817-3827	HONOLULU	HI	96817-3827
			RESIDENT	1216 PUA LN APT 607		HONOLULU HI 96817-3827	HONOLULU	HI	96817-3827
			RESIDENT	1216 PUA LN APT 608		HONOLULU HI 96817-3827	HONOLULU	HI	96817-3827
			RESIDENT	1216 PUA LN APT 701		HONOLULU HI 96817-3827	HONOLULU	HI	96817-3827
			RESIDENT	1216 PUA LN APT 702		HONOLULU HI 96817-3827	HONOLULU	HI	96817-3827
			RESIDENT	1216 PUA LN APT 703		HONOLULU HI 96817-3827	HONOLULU	HI	96817-3827
			RESIDENT	1216 PUA LN APT 704		HONOLULU HI 96817-3827	HONOLULU	HI	96817-3827
			RESIDENT	1216 PUA LN APT 705		HONOLULU HI 96817-3828	HONOLULU	HI	96817-3828
			RESIDENT	1216 PUA LN APT 706		HONOLULU HI 96817-3828	HONOLULU	HI	96817-3828
			RESIDENT	1216 PUA LN APT 707		HONOLULU HI 96817-3828	HONOLULU	HI	96817-3828
			RESIDENT	1216 PUA LN APT 708		HONOLULU HI 96817-3828	HONOLULU	HI	96817-3828
			RESIDENT	1216 PUA LN APT 801		HONOLULU HI 96817-3828	HONOLULU	HI	96817-3828
			RESIDENT	1216 PUA LN APT 802		HONOLULU HI 96817-3829	HONOLULU	HI	96817-3829
			RESIDENT	1216 PUA LN APT 803		HONOLULU HI 96817-3829	HONOLULU	HI	96817-3829
			RESIDENT	1216 PUA LN APT 804		HONOLULU HI 96817-3829	HONOLULU	HI	96817-3829
			RESIDENT	1216 PUA LN APT 805		HONOLULU HI 96817-3829	HONOLULU	HI	96817-3829
			RESIDENT	1216 PUA LN APT 806		HONOLULU HI 96817-3829	HONOLULU	HI	96817-3829
			RESIDENT	1216 PUA LN APT 807		HONOLULU HI 96817-3829	HONOLULU	HI	96817-3829
			RESIDENT	1216 PUA LN APT 808		HONOLULU HI 96817-3829	HONOLULU	HI	96817-3829
			BUSINESS OCCUPANT	1216 PUA LN OFC 901		HONOLULU HI 96817-3829	HONOLULU	HI	96817-3829
			RESIDENT	1202 PUA LN APT 9		HONOLULU HI 96817-3818	HONOLULU	HI	96817-3818
			RESIDENT	1202 PUA LN APT 10		HONOLULU HI 96817-3818	HONOLULU	HI	96817-3818
			RESIDENT	1202 PUA LN APT 11		HONOLULU HI 96817-3818	HONOLULU	HI	96817-3818
			RESIDENT	1202 PUA LN APT 12		HONOLULU HI 96817-3818	HONOLULU	HI	96817-3818
			RESIDENT	1202 PUA LN APT 14		HONOLULU HI 96817-3818	HONOLULU	HI	96817-3818
			RESIDENT	1202 PUA LN APT 15		HONOLULU HI 96817-3818	HONOLULU	HI	96817-3818
			RESIDENT	1202 PUA LN APT 16		HONOLULU HI 96817-3818	HONOLULU	HI	96817-3818
			RESIDENT	1202 PUA LN APT 1		HONOLULU HI 96817-3817	HONOLULU	HI	96817-3817
			RESIDENT	1202 PUA LN APT 2		HONOLULU HI 96817-3817	HONOLULU	HI	96817-3817
			RESIDENT	1202 PUA LN APT 3		HONOLULU HI 96817-3817	HONOLULU	HI	96817-3817
			RESIDENT	1202 PUA LN APT 4		HONOLULU HI 96817-3817	HONOLULU	HI	96817-3817
			RESIDENT	1202 PUA LN APT 5		HONOLULU HI 96817-3817	HONOLULU	HI	96817-3817
			RESIDENT	1202 PUA LN APT 6		HONOLULU HI 96817-3817	HONOLULU	HI	96817-3817
			RESIDENT	1202 PUA LN APT 7		HONOLULU HI 96817-3817	HONOLULU	HI	96817-3817

			RESIDENT	1202 PUA LN APT 8		HONOLULU HI 96817-3817	HONOLULU	HI	96817-3817
			RESIDENT	1120 PUA LN APT 101		HONOLULU HI 96817-3803	HONOLULU	HI	96817-3803
			RESIDENT	1120 PUA LN APT 102		HONOLULU HI 96817-3803	HONOLULU	HI	96817-3803
			RESIDENT	1120 PUA LN APT 103		HONOLULU HI 96817-3803	HONOLULU	HI	96817-3803
			RESIDENT	1120 PUA LN APT 201		HONOLULU HI 96817-3803	HONOLULU	HI	96817-3803
			RESIDENT	1120 PUA LN APT 202		HONOLULU HI 96817-3805	HONOLULU	HI	96817-3805
			RESIDENT	1120 PUA LN APT 203		HONOLULU HI 96817-3805	HONOLULU	HI	96817-3805
			RESIDENT	1120 PUA LN APT 301		HONOLULU HI 96817-3805	HONOLULU	HI	96817-3805
			RESIDENT	1120 PUA LN APT 303		HONOLULU HI 96817-3805	HONOLULU	HI	96817-3805
			RESIDENT	1118 PUA LN APT 101		HONOLULU HI 96817-3808	HONOLULU	HI	96817-3808
			RESIDENT	1118 PUA LN APT 102		HONOLULU HI 96817-3808	HONOLULU	HI	96817-3808
			RESIDENT	1118 PUA LN APT 103		HONOLULU HI 96817-3808	HONOLULU	HI	96817-3808
			RESIDENT	1118 PUA LN APT 104		HONOLULU HI 96817-3808	HONOLULU	HI	96817-3808
			RESIDENT	1118 PUA LN APT 105		HONOLULU HI 96817-3808	HONOLULU	HI	96817-3808
			RESIDENT	1118 PUA LN APT 106		HONOLULU HI 96817-3808	HONOLULU	HI	96817-3808
			RESIDENT	1118 PUA LN APT 107		HONOLULU HI 96817-3808	HONOLULU	HI	96817-3808
			RESIDENT	1118 PUA LN APT 108		HONOLULU HI 96817-3808	HONOLULU	HI	96817-3808
			RESIDENT	1118 PUA LN APT 109		HONOLULU HI 96817-3808	HONOLULU	HI	96817-3808
			RESIDENT	1118 PUA LN APT 110		HONOLULU HI 96817-3808	HONOLULU	HI	96817-3808
			RESIDENT	1118 PUA LN APT 213		HONOLULU HI 96817-3811	HONOLULU	HI	96817-3811
			RESIDENT	1118 PUA LN APT 214		HONOLULU HI 96817-3811	HONOLULU	HI	96817-3811
			RESIDENT	1118 PUA LN APT 215		HONOLULU HI 96817-3811	HONOLULU	HI	96817-3811
			RESIDENT	1118 PUA LN APT 216		HONOLULU HI 96817-3811	HONOLULU	HI	96817-3811
			RESIDENT	1118 PUA LN APT 301		HONOLULU HI 96817-3811	HONOLULU	HI	96817-3811
			RESIDENT	1118 PUA LN APT 302		HONOLULU HI 96817-3811	HONOLULU	HI	96817-3811
			RESIDENT	1118 PUA LN APT 303		HONOLULU HI 96817-3811	HONOLULU	HI	96817-3811
			RESIDENT	1118 PUA LN APT 304		HONOLULU HI 96817-3811	HONOLULU	HI	96817-3811
			RESIDENT	1118 PUA LN APT 305		HONOLULU HI 96817-3811	HONOLULU	HI	96817-3811
			RESIDENT	1118 PUA LN APT 306		HONOLULU HI 96817-3811	HONOLULU	HI	96817-3811
			RESIDENT	1118 PUA LN APT 111		HONOLULU HI 96817-3809	HONOLULU	HI	96817-3809
			RESIDENT	1118 PUA LN APT 112		HONOLULU HI 96817-3809	HONOLULU	HI	96817-3809
			RESIDENT	1118 PUA LN APT 113		HONOLULU HI 96817-3809	HONOLULU	HI	96817-3809
			RESIDENT	1118 PUA LN APT 114		HONOLULU HI 96817-3809	HONOLULU	HI	96817-3809
			RESIDENT	1118 PUA LN APT 115		HONOLULU HI 96817-3809	HONOLULU	HI	96817-3809
			RESIDENT	1118 PUA LN APT 116		HONOLULU HI 96817-3809	HONOLULU	HI	96817-3809
			RESIDENT	1118 PUA LN APT 201		HONOLULU HI 96817-3809	HONOLULU	HI	96817-3809
			RESIDENT	1118 PUA LN APT 202		HONOLULU HI 96817-3809	HONOLULU	HI	96817-3809
			RESIDENT	1118 PUA LN APT 203		HONOLULU HI 96817-3809	HONOLULU	HI	96817-3809
			RESIDENT	1118 PUA LN APT 204		HONOLULU HI 96817-3809	HONOLULU	HI	96817-3809
			RESIDENT	1118 PUA LN APT 307		HONOLULU HI 96817-3812	HONOLULU	HI	96817-3812
			RESIDENT	1118 PUA LN APT 308		HONOLULU HI 96817-3812	HONOLULU	HI	96817-3812
			RESIDENT	1118 PUA LN APT 309		HONOLULU HI 96817-3812	HONOLULU	HI	96817-3812
			RESIDENT	1118 PUA LN APT 310		HONOLULU HI 96817-3812	HONOLULU	HI	96817-3812
			RESIDENT	1118 PUA LN APT 311		HONOLULU HI 96817-3812	HONOLULU	HI	96817-3812
			RESIDENT	1118 PUA LN APT 312		HONOLULU HI 96817-3812	HONOLULU	HI	96817-3812
			RESIDENT	1118 PUA LN APT 313		HONOLULU HI 96817-3812	HONOLULU	HI	96817-3812
			RESIDENT	1118 PUA LN APT 314		HONOLULU HI 96817-3812	HONOLULU	HI	96817-3812
			RESIDENT	1118 PUA LN APT 315		HONOLULU HI 96817-3812	HONOLULU	HI	96817-3812
			RESIDENT	1118 PUA LN APT 316		HONOLULU HI 96817-3812	HONOLULU	HI	96817-3812
			RESIDENT	1118 PUA LN APT 205		HONOLULU HI 96817-3810	HONOLULU	HI	96817-3810
			RESIDENT	1118 PUA LN APT 206		HONOLULU HI 96817-3810	HONOLULU	HI	96817-3810
			RESIDENT	1118 PUA LN APT 207		HONOLULU HI 96817-3810	HONOLULU	HI	96817-3810
			RESIDENT	1118 PUA LN APT 208		HONOLULU HI 96817-3810	HONOLULU	HI	96817-3810
			RESIDENT	1118 PUA LN APT 209		HONOLULU HI 96817-3810	HONOLULU	HI	96817-3810
			RESIDENT	1118 PUA LN APT 210		HONOLULU HI 96817-3810	HONOLULU	HI	96817-3810
			RESIDENT	1118 PUA LN APT 211		HONOLULU HI 96817-3810	HONOLULU	HI	96817-3810
			RESIDENT	1118 PUA LN APT 212		HONOLULU HI 96817-3810	HONOLULU	HI	96817-3810
			RESIDENT	1220 AALA ST APT 100		HONOLULU HI 96817-3904	HONOLULU	HI	96817-3904
			RESIDENT	1220 AALA ST APT 101		HONOLULU HI 96817-3904	HONOLULU	HI	96817-3904
			RESIDENT	1220 AALA ST APT 102		HONOLULU HI 96817-3904	HONOLULU	HI	96817-3904
			RESIDENT	1220 AALA ST APT 103		HONOLULU HI 96817-3904	HONOLULU	HI	96817-3904
			RESIDENT	1220 AALA ST APT 104		HONOLULU HI 96817-3904	HONOLULU	HI	96817-3904
			RESIDENT	1220 AALA ST APT 105		HONOLULU HI 96817-3904	HONOLULU	HI	96817-3904
			RESIDENT	1220 AALA ST APT 106		HONOLULU HI 96817-3904	HONOLULU	HI	96817-3904
			RESIDENT	1220 AALA ST APT 107		HONOLULU HI 96817-3904	HONOLULU	HI	96817-3904
			RESIDENT	1220 AALA ST APT 108		HONOLULU HI 96817-3904	HONOLULU	HI	96817-3904
			RESIDENT	1220 AALA ST APT 408		HONOLULU HI 96817-3916	HONOLULU	HI	96817-3916
			RESIDENT	1220 AALA ST APT 409		HONOLULU HI 96817-3916	HONOLULU	HI	96817-3916
			RESIDENT	1220 AALA ST APT 410		HONOLULU HI 96817-3916	HONOLULU	HI	96817-3916
			RESIDENT	1220 AALA ST APT 501		HONOLULU HI 96817-3916	HONOLULU	HI	96817-3916
			RESIDENT	1220 AALA ST APT 502		HONOLULU HI 96817-3916	HONOLULU	HI	96817-3916
			RESIDENT	1220 AALA ST APT 503		HONOLULU HI 96817-3916	HONOLULU	HI	96817-3916

			RESIDENT	1220 AALA ST APT 504		HONOLULU HI 96817-3916	HONOLULU	HI	96817-3916
			RESIDENT	1220 AALA ST APT 505		HONOLULU HI 96817-3916	HONOLULU	HI	96817-3916
			RESIDENT	1220 AALA ST APT 506		HONOLULU HI 96817-3916	HONOLULU	HI	96817-3916
			RESIDENT	1220 AALA ST APT 109		HONOLULU HI 96817-3948	HONOLULU	HI	96817-3948
			RESIDENT	1220 AALA ST APT 201		HONOLULU HI 96817-3948	HONOLULU	HI	96817-3948
			RESIDENT	1220 AALA ST APT 202		HONOLULU HI 96817-3948	HONOLULU	HI	96817-3948
			RESIDENT	1220 AALA ST APT 203		HONOLULU HI 96817-3948	HONOLULU	HI	96817-3948
			RESIDENT	1220 AALA ST APT 204		HONOLULU HI 96817-3948	HONOLULU	HI	96817-3948
			RESIDENT	1220 AALA ST APT 205		HONOLULU HI 96817-3948	HONOLULU	HI	96817-3948
			RESIDENT	1220 AALA ST APT 206		HONOLULU HI 96817-3948	HONOLULU	HI	96817-3948
			RESIDENT	1220 AALA ST APT 207		HONOLULU HI 96817-3948	HONOLULU	HI	96817-3948
			RESIDENT	1220 AALA ST APT 208		HONOLULU HI 96817-3948	HONOLULU	HI	96817-3948
			RESIDENT	1220 AALA ST APT 507		HONOLULU HI 96817-3906	HONOLULU	HI	96817-3906
			RESIDENT	1220 AALA ST APT 508		HONOLULU HI 96817-3906	HONOLULU	HI	96817-3906
			RESIDENT	1220 AALA ST APT 509		HONOLULU HI 96817-3906	HONOLULU	HI	96817-3906
			RESIDENT	1220 AALA ST APT 510		HONOLULU HI 96817-3906	HONOLULU	HI	96817-3906
			RESIDENT	1220 AALA ST APT 601		HONOLULU HI 96817-3906	HONOLULU	HI	96817-3906
			RESIDENT	1220 AALA ST APT 602		HONOLULU HI 96817-3906	HONOLULU	HI	96817-3906
			RESIDENT	1220 AALA ST APT 603		HONOLULU HI 96817-3906	HONOLULU	HI	96817-3906
			RESIDENT	1220 AALA ST APT 604		HONOLULU HI 96817-3906	HONOLULU	HI	96817-3906
			RESIDENT	1220 AALA ST APT 605		HONOLULU HI 96817-3906	HONOLULU	HI	96817-3906
			RESIDENT	1220 AALA ST APT 606		HONOLULU HI 96817-3906	HONOLULU	HI	96817-3906
			RESIDENT	1220 AALA ST APT 209		HONOLULU HI 96817-3905	HONOLULU	HI	96817-3905
			RESIDENT	1220 AALA ST APT 210		HONOLULU HI 96817-3905	HONOLULU	HI	96817-3905
			RESIDENT	1220 AALA ST APT 301		HONOLULU HI 96817-3905	HONOLULU	HI	96817-3905
			RESIDENT	1220 AALA ST APT 302		HONOLULU HI 96817-3905	HONOLULU	HI	96817-3905
			RESIDENT	1220 AALA ST APT 303		HONOLULU HI 96817-3905	HONOLULU	HI	96817-3905
			RESIDENT	1220 AALA ST APT 304		HONOLULU HI 96817-3905	HONOLULU	HI	96817-3905
			RESIDENT	1220 AALA ST APT 305		HONOLULU HI 96817-3905	HONOLULU	HI	96817-3905
			RESIDENT	1220 AALA ST APT 306		HONOLULU HI 96817-3905	HONOLULU	HI	96817-3905
			RESIDENT	1220 AALA ST APT 307		HONOLULU HI 96817-3905	HONOLULU	HI	96817-3905
			RESIDENT	1220 AALA ST APT 308		HONOLULU HI 96817-3905	HONOLULU	HI	96817-3905
			RESIDENT	1220 AALA ST APT 607		HONOLULU HI 96817-3907	HONOLULU	HI	96817-3907
			RESIDENT	1220 AALA ST APT 608		HONOLULU HI 96817-3907	HONOLULU	HI	96817-3907
			RESIDENT	1220 AALA ST APT 609		HONOLULU HI 96817-3907	HONOLULU	HI	96817-3907
			RESIDENT	1220 AALA ST APT 610		HONOLULU HI 96817-3907	HONOLULU	HI	96817-3907
			RESIDENT	1220 AALA ST APT 701		HONOLULU HI 96817-3907	HONOLULU	HI	96817-3907
			RESIDENT	1220 AALA ST APT 702		HONOLULU HI 96817-3907	HONOLULU	HI	96817-3907
			RESIDENT	1220 AALA ST APT 703		HONOLULU HI 96817-3907	HONOLULU	HI	96817-3907
			RESIDENT	1220 AALA ST APT 704		HONOLULU HI 96817-3907	HONOLULU	HI	96817-3907
			RESIDENT	1220 AALA ST APT 705		HONOLULU HI 96817-3907	HONOLULU	HI	96817-3907
			RESIDENT	1220 AALA ST APT 706		HONOLULU HI 96817-3907	HONOLULU	HI	96817-3907
			RESIDENT	1220 AALA ST APT 309		HONOLULU HI 96817-3901	HONOLULU	HI	96817-3901
			RESIDENT	1220 AALA ST APT 310		HONOLULU HI 96817-3901	HONOLULU	HI	96817-3901
			RESIDENT	1220 AALA ST APT 401		HONOLULU HI 96817-3901	HONOLULU	HI	96817-3901
			RESIDENT	1220 AALA ST APT 402		HONOLULU HI 96817-3901	HONOLULU	HI	96817-3901
			RESIDENT	1220 AALA ST APT 403		HONOLULU HI 96817-3901	HONOLULU	HI	96817-3901
			RESIDENT	1220 AALA ST APT 404		HONOLULU HI 96817-3901	HONOLULU	HI	96817-3901
			RESIDENT	1220 AALA ST APT 405		HONOLULU HI 96817-3901	HONOLULU	HI	96817-3901
			RESIDENT	1220 AALA ST APT 406		HONOLULU HI 96817-3901	HONOLULU	HI	96817-3901
			RESIDENT	1220 AALA ST APT 407		HONOLULU HI 96817-3901	HONOLULU	HI	96817-3901
			RESIDENT	1220 AALA ST APT 707		HONOLULU HI 96817-3908	HONOLULU	HI	96817-3908
			RESIDENT	1220 AALA ST APT 708		HONOLULU HI 96817-3908	HONOLULU	HI	96817-3908
			RESIDENT	1220 AALA ST APT 709		HONOLULU HI 96817-3908	HONOLULU	HI	96817-3908
			RESIDENT	1220 AALA ST APT 710		HONOLULU HI 96817-3908	HONOLULU	HI	96817-3908
			RESIDENT	1220 AALA ST APT 801		HONOLULU HI 96817-3908	HONOLULU	HI	96817-3908
			RESIDENT	1220 AALA ST APT 802		HONOLULU HI 96817-3908	HONOLULU	HI	96817-3908
			RESIDENT	1220 AALA ST APT 803		HONOLULU HI 96817-3908	HONOLULU	HI	96817-3908
			RESIDENT	1220 AALA ST APT 804		HONOLULU HI 96817-3908	HONOLULU	HI	96817-3908
			RESIDENT	1220 AALA ST APT 805		HONOLULU HI 96817-3908	HONOLULU	HI	96817-3908
			RESIDENT	1220 AALA ST APT 806		HONOLULU HI 96817-3909	HONOLULU	HI	96817-3909
			RESIDENT	1220 AALA ST APT 807		HONOLULU HI 96817-3909	HONOLULU	HI	96817-3909
			RESIDENT	1220 AALA ST APT 808		HONOLULU HI 96817-3909	HONOLULU	HI	96817-3909
			RESIDENT	1220 AALA ST APT 809		HONOLULU HI 96817-3909	HONOLULU	HI	96817-3909
			RESIDENT	1220 AALA ST APT 810		HONOLULU HI 96817-3909	HONOLULU	HI	96817-3909
			RESIDENT	1220 AALA ST APT 901		HONOLULU HI 96817-3909	HONOLULU	HI	96817-3909
			RESIDENT	1220 AALA ST APT 902		HONOLULU HI 96817-3909	HONOLULU	HI	96817-3909
			RESIDENT	1220 AALA ST APT 903		HONOLULU HI 96817-3909	HONOLULU	HI	96817-3909
			RESIDENT	1220 AALA ST APT 904		HONOLULU HI 96817-3909	HONOLULU	HI	96817-3909
			RESIDENT	1220 AALA ST APT 1204		HONOLULU HI 96817-3913	HONOLULU	HI	96817-3913
			RESIDENT	1220 AALA ST APT 1205		HONOLULU HI 96817-3913	HONOLULU	HI	96817-3913
			RESIDENT	1220 AALA ST APT 1206		HONOLULU HI 96817-3913	HONOLULU	HI	96817-3913

			RESIDENT	1220 AALA ST APT 1207		HONOLULU HI 96817-3913	HONOLULU	HI	96817-3913
			RESIDENT	1220 AALA ST APT 1208		HONOLULU HI 96817-3913	HONOLULU	HI	96817-3913
			RESIDENT	1220 AALA ST APT 1209		HONOLULU HI 96817-3913	HONOLULU	HI	96817-3913
			RESIDENT	1220 AALA ST APT 1210		HONOLULU HI 96817-3913	HONOLULU	HI	96817-3913
			RESIDENT	1220 AALA ST APT 1401		HONOLULU HI 96817-3913	HONOLULU	HI	96817-3913
			RESIDENT	1220 AALA ST APT 1402		HONOLULU HI 96817-3913	HONOLULU	HI	96817-3913
			RESIDENT	1220 AALA ST APT 905		HONOLULU HI 96817-3910	HONOLULU	HI	96817-3910
			RESIDENT	1220 AALA ST APT 906		HONOLULU HI 96817-3910	HONOLULU	HI	96817-3910
			RESIDENT	1220 AALA ST APT 907		HONOLULU HI 96817-3910	HONOLULU	HI	96817-3910
			RESIDENT	1220 AALA ST APT 908		HONOLULU HI 96817-3910	HONOLULU	HI	96817-3910
			RESIDENT	1220 AALA ST APT 909		HONOLULU HI 96817-3910	HONOLULU	HI	96817-3910
			RESIDENT	1220 AALA ST APT 910		HONOLULU HI 96817-3910	HONOLULU	HI	96817-3910
			RESIDENT	1220 AALA ST APT 1001		HONOLULU HI 96817-3910	HONOLULU	HI	96817-3910
			RESIDENT	1220 AALA ST APT 1002		HONOLULU HI 96817-3910	HONOLULU	HI	96817-3910
			RESIDENT	1220 AALA ST APT 1003		HONOLULU HI 96817-3910	HONOLULU	HI	96817-3910
			RESIDENT	1220 AALA ST APT 1004		HONOLULU HI 96817-3910	HONOLULU	HI	96817-3910
			RESIDENT	1220 AALA ST APT 1403		HONOLULU HI 96817-3914	HONOLULU	HI	96817-3914
			RESIDENT	1220 AALA ST APT 1404		HONOLULU HI 96817-3914	HONOLULU	HI	96817-3914
			RESIDENT	1220 AALA ST APT 1405		HONOLULU HI 96817-3914	HONOLULU	HI	96817-3914
			RESIDENT	1220 AALA ST APT 1406		HONOLULU HI 96817-3914	HONOLULU	HI	96817-3914
			RESIDENT	1220 AALA ST APT 1407		HONOLULU HI 96817-3914	HONOLULU	HI	96817-3914
			RESIDENT	1220 AALA ST APT 1408		HONOLULU HI 96817-3914	HONOLULU	HI	96817-3914
			RESIDENT	1220 AALA ST APT 1409		HONOLULU HI 96817-3914	HONOLULU	HI	96817-3914
			RESIDENT	1220 AALA ST APT 1410		HONOLULU HI 96817-3914	HONOLULU	HI	96817-3914
			RESIDENT	1220 AALA ST APT 1501		HONOLULU HI 96817-3914	HONOLULU	HI	96817-3914
			RESIDENT	1220 AALA ST APT 1502		HONOLULU HI 96817-3914	HONOLULU	HI	96817-3914
			RESIDENT	1220 AALA ST APT 1005		HONOLULU HI 96817-3911	HONOLULU	HI	96817-3911
			RESIDENT	1220 AALA ST APT 1006		HONOLULU HI 96817-3911	HONOLULU	HI	96817-3911
			RESIDENT	1220 AALA ST APT 1007		HONOLULU HI 96817-3911	HONOLULU	HI	96817-3911
			RESIDENT	1220 AALA ST APT 1008		HONOLULU HI 96817-3911	HONOLULU	HI	96817-3911
			RESIDENT	1220 AALA ST APT 1009		HONOLULU HI 96817-3911	HONOLULU	HI	96817-3911
			RESIDENT	1220 AALA ST APT 1010		HONOLULU HI 96817-3911	HONOLULU	HI	96817-3911
			RESIDENT	1220 AALA ST APT 1101		HONOLULU HI 96817-3911	HONOLULU	HI	96817-3911
			RESIDENT	1220 AALA ST APT 1102		HONOLULU HI 96817-3911	HONOLULU	HI	96817-3911
			RESIDENT	1220 AALA ST APT 1103		HONOLULU HI 96817-3911	HONOLULU	HI	96817-3911
			RESIDENT	1220 AALA ST APT 1104		HONOLULU HI 96817-3911	HONOLULU	HI	96817-3911
			RESIDENT	1220 AALA ST APT 1503		HONOLULU HI 96817-3915	HONOLULU	HI	96817-3915
			RESIDENT	1220 AALA ST APT 1504		HONOLULU HI 96817-3915	HONOLULU	HI	96817-3915
			RESIDENT	1220 AALA ST APT 1505		HONOLULU HI 96817-3915	HONOLULU	HI	96817-3915
			RESIDENT	1220 AALA ST APT 1506		HONOLULU HI 96817-3915	HONOLULU	HI	96817-3915
			RESIDENT	1220 AALA ST APT 1507		HONOLULU HI 96817-3915	HONOLULU	HI	96817-3915
			RESIDENT	1220 AALA ST APT 1508		HONOLULU HI 96817-3915	HONOLULU	HI	96817-3915
			RESIDENT	1220 AALA ST APT 1509		HONOLULU HI 96817-3915	HONOLULU	HI	96817-3915
			RESIDENT	1220 AALA ST APT 1510		HONOLULU HI 96817-3915	HONOLULU	HI	96817-3915
			RESIDENT	1220 AALA ST APT 1601		HONOLULU HI 96817-3915	HONOLULU	HI	96817-3915
			RESIDENT	1220 AALA ST APT 1602		HONOLULU HI 96817-3915	HONOLULU	HI	96817-3915
			RESIDENT	1220 AALA ST APT 1105		HONOLULU HI 96817-3912	HONOLULU	HI	96817-3912
			RESIDENT	1220 AALA ST APT 1106		HONOLULU HI 96817-3912	HONOLULU	HI	96817-3912
			RESIDENT	1220 AALA ST APT 1107		HONOLULU HI 96817-3912	HONOLULU	HI	96817-3912
			RESIDENT	1220 AALA ST APT 1108		HONOLULU HI 96817-3912	HONOLULU	HI	96817-3912
			RESIDENT	1220 AALA ST APT 1109		HONOLULU HI 96817-3912	HONOLULU	HI	96817-3912
			RESIDENT	1220 AALA ST APT 1110		HONOLULU HI 96817-3912	HONOLULU	HI	96817-3912
			RESIDENT	1220 AALA ST APT 1201		HONOLULU HI 96817-3912	HONOLULU	HI	96817-3912
			RESIDENT	1220 AALA ST APT 1202		HONOLULU HI 96817-3912	HONOLULU	HI	96817-3912
			RESIDENT	1220 AALA ST APT 1203		HONOLULU HI 96817-3912	HONOLULU	HI	96817-3912
			RESIDENT	1220 AALA ST APT 1603		HONOLULU HI 96817-3960	HONOLULU	HI	96817-3960
			RESIDENT	1220 AALA ST APT 1604		HONOLULU HI 96817-3960	HONOLULU	HI	96817-3960
			RESIDENT	1220 AALA ST APT 1605		HONOLULU HI 96817-3960	HONOLULU	HI	96817-3960
			RESIDENT	1220 AALA ST APT 1606		HONOLULU HI 96817-3960	HONOLULU	HI	96817-3960
			RESIDENT	1220 AALA ST APT 1607		HONOLULU HI 96817-3960	HONOLULU	HI	96817-3960
			RESIDENT	1220 AALA ST APT 1608		HONOLULU HI 96817-3960	HONOLULU	HI	96817-3960
			RESIDENT	1220 AALA ST APT 1609		HONOLULU HI 96817-3960	HONOLULU	HI	96817-3960
			RESIDENT	1220 AALA ST APT 1610		HONOLULU HI 96817-3960	HONOLULU	HI	96817-3960
			BUSINESS OCCUPANT	1220 AALA ST OFC		HONOLULU HI 96817-3960	HONOLULU	HI	96817-3960
			BUSINESS OCCUPANT	1259 AALA ST STE 201		HONOLULU HI 96817-3962	HONOLULU	HI	96817-3962
			BUSINESS OCCUPANT	1259 AALA ST STE 201		HONOLULU HI 96817-3962	HONOLULU	HI	96817-3962
			BUSINESS OCCUPANT	1259 AALA ST STE 202		HONOLULU HI 96817-3962	HONOLULU	HI	96817-3962
			BUSINESS OCCUPANT	1259 AALA ST STE 204		HONOLULU HI 96817-3962	HONOLULU	HI	96817-3962
			BUSINESS OCCUPANT	1259 AALA ST STE 205		HONOLULU HI 96817-3962	HONOLULU	HI	96817-3962
			BUSINESS OCCUPANT	1259 AALA ST STE 206		HONOLULU HI 96817-3962	HONOLULU	HI	96817-3962
			BUSINESS OCCUPANT	1259 AALA ST STE 300		HONOLULU HI 96817-3962	HONOLULU	HI	96817-3962
			BUSINESS OCCUPANT	1259 AALA ST STE 400		HONOLULU HI 96817-3962	HONOLULU	HI	96817-3962

			BUSINESS OCCUPANT	1259 AALA ST STE 402		HONOLULU HI 96817-3962	HONOLULU	HI	96817-3962
			BUSINESS OCCUPANT	1290 AALA ST		HONOLULU HI 96817-3902	HONOLULU	HI	96817-3902
			RESIDENT	1317 AALA ST APT 101		HONOLULU HI 96817-3920	HONOLULU	HI	96817-3920
			RESIDENT	1317 AALA ST APT 102		HONOLULU HI 96817-3920	HONOLULU	HI	96817-3920
			RESIDENT	1317 AALA ST APT 103		HONOLULU HI 96817-3920	HONOLULU	HI	96817-3920
			RESIDENT	1317 AALA ST APT 201		HONOLULU HI 96817-3920	HONOLULU	HI	96817-3920
			RESIDENT	1317 AALA ST APT 202		HONOLULU HI 96817-3920	HONOLULU	HI	96817-3920
			RESIDENT	1317 AALA ST APT 204		HONOLULU HI 96817-3920	HONOLULU	HI	96817-3920
			RESIDENT	1317 AALA ST APT 205		HONOLULU HI 96817-3920	HONOLULU	HI	96817-3920
			RESIDENT	1317 AALA ST APT 206		HONOLULU HI 96817-3920	HONOLULU	HI	96817-3920
			RESIDENT	1321 AALA ST APT 101		HONOLULU HI 96817-3926	HONOLULU	HI	96817-3926
			RESIDENT	1321 AALA ST APT 103		HONOLULU HI 96817-3926	HONOLULU	HI	96817-3926
			RESIDENT	1321 AALA ST APT 104		HONOLULU HI 96817-3926	HONOLULU	HI	96817-3926
			RESIDENT	1321 AALA ST APT 105		HONOLULU HI 96817-3926	HONOLULU	HI	96817-3926
			RESIDENT	1321 AALA ST APT 106		HONOLULU HI 96817-3926	HONOLULU	HI	96817-3926
			RESIDENT	1321 AALA ST APT 107		HONOLULU HI 96817-3926	HONOLULU	HI	96817-3926
			RESIDENT	1321 AALA ST APT 108		HONOLULU HI 96817-3923	HONOLULU	HI	96817-3923
			RESIDENT	1321 AALA ST APT 109		HONOLULU HI 96817-3923	HONOLULU	HI	96817-3923
			RESIDENT	1321 AALA ST APT 110		HONOLULU HI 96817-3923	HONOLULU	HI	96817-3923
			RESIDENT	1321 AALA ST APT 111		HONOLULU HI 96817-3923	HONOLULU	HI	96817-3923
			RESIDENT	1321 AALA ST APT 112		HONOLULU HI 96817-3923	HONOLULU	HI	96817-3923
			RESIDENT	1321 AALA ST APT 202		HONOLULU HI 96817-3923	HONOLULU	HI	96817-3923
			RESIDENT	1321 AALA ST APT 203		HONOLULU HI 96817-3923	HONOLULU	HI	96817-3923
			RESIDENT	1321 AALA ST APT 204		HONOLULU HI 96817-3923	HONOLULU	HI	96817-3923
			RESIDENT	1321 AALA ST APT 205		HONOLULU HI 96817-3923	HONOLULU	HI	96817-3923
			RESIDENT	1321 AALA ST APT 206		HONOLULU HI 96817-3923	HONOLULU	HI	96817-3923
			RESIDENT	1321 AALA ST APT 207		HONOLULU HI 96817-3923	HONOLULU	HI	96817-3923
			RESIDENT	1321 AALA ST APT 208		HONOLULU HI 96817-3923	HONOLULU	HI	96817-3923
			RESIDENT	1321 AALA ST APT 209		HONOLULU HI 96817-3923	HONOLULU	HI	96817-3923
			RESIDENT	1321 AALA ST APT 210		HONOLULU HI 96817-3923	HONOLULU	HI	96817-3923
			RESIDENT	1321 AALA ST APT 211		HONOLULU HI 96817-3923	HONOLULU	HI	96817-3923
			RESIDENT	1321 AALA ST APT 301		HONOLULU HI 96817-3961	HONOLULU	HI	96817-3961
			RESIDENT	1321 AALA ST APT 302		HONOLULU HI 96817-3961	HONOLULU	HI	96817-3961
			RESIDENT	1321 AALA ST APT 303		HONOLULU HI 96817-3961	HONOLULU	HI	96817-3961
			RESIDENT	1321 AALA ST APT 304		HONOLULU HI 96817-3961	HONOLULU	HI	96817-3961
			RESIDENT	1321 AALA ST APT 305		HONOLULU HI 96817-3961	HONOLULU	HI	96817-3961
			RESIDENT	1321 AALA ST APT 306		HONOLULU HI 96817-3961	HONOLULU	HI	96817-3961
			RESIDENT	1321 AALA ST APT 308		HONOLULU HI 96817-3961	HONOLULU	HI	96817-3961
			RESIDENT	1321 AALA ST APT 309		HONOLULU HI 96817-3961	HONOLULU	HI	96817-3961
			RESIDENT	1321 AALA ST APT 310		HONOLULU HI 96817-3961	HONOLULU	HI	96817-3961
			RESIDENT	1321 AALA ST APT 312		HONOLULU HI 96817-3961	HONOLULU	HI	96817-3961
			RESIDENT	1325 AALA ST APT 102		HONOLULU HI 96817-3932	HONOLULU	HI	96817-3932
			RESIDENT	1325 AALA ST APT 103		HONOLULU HI 96817-3932	HONOLULU	HI	96817-3932
			RESIDENT	1325 AALA ST APT 104		HONOLULU HI 96817-3955	HONOLULU	HI	96817-3955
			RESIDENT	1325 AALA ST APT 105		HONOLULU HI 96817-3955	HONOLULU	HI	96817-3955
			RESIDENT	1325 AALA ST APT 106		HONOLULU HI 96817-3955	HONOLULU	HI	96817-3955
			RESIDENT	1325 AALA ST APT 201		HONOLULU HI 96817-3933	HONOLULU	HI	96817-3933
			RESIDENT	1325 AALA ST APT 202		HONOLULU HI 96817-3933	HONOLULU	HI	96817-3933
			RESIDENT	1325 AALA ST APT 203		HONOLULU HI 96817-3933	HONOLULU	HI	96817-3933
			RESIDENT	1325 AALA ST APT 204		HONOLULU HI 96817-3933	HONOLULU	HI	96817-3933
			RESIDENT	1325 AALA ST APT 205		HONOLULU HI 96817-3933	HONOLULU	HI	96817-3933
			RESIDENT	1325 AALA ST APT 206		HONOLULU HI 96817-3933	HONOLULU	HI	96817-3933
			RESIDENT	1349 AALA ST APT 101		HONOLULU HI 96817-3934	HONOLULU	HI	96817-3934
			RESIDENT	1349 AALA ST APT 102		HONOLULU HI 96817-3934	HONOLULU	HI	96817-3934
			RESIDENT	1349 AALA ST APT 104		HONOLULU HI 96817-3934	HONOLULU	HI	96817-3934
			RESIDENT	1349 AALA ST APT 105		HONOLULU HI 96817-3934	HONOLULU	HI	96817-3934
			RESIDENT	1349 AALA ST APT 106		HONOLULU HI 96817-3934	HONOLULU	HI	96817-3934
			RESIDENT	1349 AALA ST APT 201		HONOLULU HI 96817-3931	HONOLULU	HI	96817-3931
			RESIDENT	1349 AALA ST APT 202		HONOLULU HI 96817-3931	HONOLULU	HI	96817-3931
			RESIDENT	1349 AALA ST APT 203		HONOLULU HI 96817-3931	HONOLULU	HI	96817-3931
			RESIDENT	1349 AALA ST APT 204		HONOLULU HI 96817-3931	HONOLULU	HI	96817-3931
			RESIDENT	1349 AALA ST APT 205		HONOLULU HI 96817-3931	HONOLULU	HI	96817-3931
			RESIDENT	1349 AALA ST APT 206		HONOLULU HI 96817-3931	HONOLULU	HI	96817-3931
			RESIDENT	1349 AALA ST APT 301		HONOLULU HI 96817-3931	HONOLULU	HI	96817-3931
			RESIDENT	1349 AALA ST APT 302		HONOLULU HI 96817-3931	HONOLULU	HI	96817-3931
			RESIDENT	1349 AALA ST APT 303		HONOLULU HI 96817-3931	HONOLULU	HI	96817-3931
			RESIDENT	1349 AALA ST APT 304		HONOLULU HI 96817-3931	HONOLULU	HI	96817-3931
			RESIDENT	1349 AALA ST APT 305		HONOLULU HI 96817-3931	HONOLULU	HI	96817-3931
			RESIDENT	1349 AALA ST APT 306		HONOLULU HI 96817-3931	HONOLULU	HI	96817-3931
			RESIDENT	1351 AALA ST APT 101		HONOLULU HI 96817-3936	HONOLULU	HI	96817-3936
			RESIDENT	1351 AALA ST APT 102		HONOLULU HI 96817-3936	HONOLULU	HI	96817-3936
			RESIDENT	1351 AALA ST APT 103		HONOLULU HI 96817-3936	HONOLULU	HI	96817-3936

			RESIDENT	1351 AALA ST APT 104		HONOLULU HI 96817-3935	HONOLULU	HI	96817-3935
			RESIDENT	1351 AALA ST APT 105		HONOLULU HI 96817-3935	HONOLULU	HI	96817-3935
			RESIDENT	1351 AALA ST APT 106		HONOLULU HI 96817-3935	HONOLULU	HI	96817-3935
			RESIDENT	1351 AALA ST APT 107		HONOLULU HI 96817-3935	HONOLULU	HI	96817-3935
			RESIDENT	1351 AALA ST APT 108		HONOLULU HI 96817-3935	HONOLULU	HI	96817-3935
			RESIDENT	1351 AALA ST APT 109		HONOLULU HI 96817-3935	HONOLULU	HI	96817-3935
			RESIDENT	1351 AALA ST APT 201		HONOLULU HI 96817-3935	HONOLULU	HI	96817-3935
			RESIDENT	1351 AALA ST APT 202		HONOLULU HI 96817-3935	HONOLULU	HI	96817-3935
			RESIDENT	1351 AALA ST APT 203		HONOLULU HI 96817-3935	HONOLULU	HI	96817-3935
			RESIDENT	1351 AALA ST APT 204		HONOLULU HI 96817-3935	HONOLULU	HI	96817-3935
			RESIDENT	1351 AALA ST APT 205		HONOLULU HI 96817-3935	HONOLULU	HI	96817-3935
			RESIDENT	1351 AALA ST APT 206		HONOLULU HI 96817-3935	HONOLULU	HI	96817-3935
			RESIDENT	1351 AALA ST APT 207		HONOLULU HI 96817-3935	HONOLULU	HI	96817-3935
			RESIDENT	1351 AALA ST APT 208		HONOLULU HI 96817-3935	HONOLULU	HI	96817-3935
			RESIDENT	1351 AALA ST APT 209		HONOLULU HI 96817-3935	HONOLULU	HI	96817-3935
			RESIDENT	1351 AALA ST APT 210		HONOLULU HI 96817-3935	HONOLULU	HI	96817-3935
			RESIDENT	1351 AALA ST APT 301		HONOLULU HI 96817-3963	HONOLULU	HI	96817-3963
			RESIDENT	1351 AALA ST APT 302		HONOLULU HI 96817-3963	HONOLULU	HI	96817-3963
			RESIDENT	1351 AALA ST APT 304		HONOLULU HI 96817-3963	HONOLULU	HI	96817-3963
			RESIDENT	1351 AALA ST APT 305		HONOLULU HI 96817-3963	HONOLULU	HI	96817-3963
			RESIDENT	1351 AALA ST APT 306		HONOLULU HI 96817-3963	HONOLULU	HI	96817-3963
			RESIDENT	1351 AALA ST APT 307		HONOLULU HI 96817-3963	HONOLULU	HI	96817-3963
			RESIDENT	1301 LILIHA ST APT 101		HONOLULU HI 96817-4655	HONOLULU	HI	96817-4655
			RESIDENT	1301 LILIHA ST APT 102		HONOLULU HI 96817-4655	HONOLULU	HI	96817-4655
			RESIDENT	1301 LILIHA ST APT 103		HONOLULU HI 96817-4655	HONOLULU	HI	96817-4655
			RESIDENT	1301 LILIHA ST APT 104		HONOLULU HI 96817-4655	HONOLULU	HI	96817-4655
			RESIDENT	1301 LILIHA ST APT 105		HONOLULU HI 96817-4655	HONOLULU	HI	96817-4655
			RESIDENT	1301 LILIHA ST APT 106		HONOLULU HI 96817-4655	HONOLULU	HI	96817-4655
			RESIDENT	1301 LILIHA ST APT 107		HONOLULU HI 96817-4655	HONOLULU	HI	96817-4655
			RESIDENT	1301 LILIHA ST APT 108		HONOLULU HI 96817-4655	HONOLULU	HI	96817-4655
			RESIDENT	1301 LILIHA ST APT 109		HONOLULU HI 96817-4655	HONOLULU	HI	96817-4655
			RESIDENT	1301 LILIHA ST APT 110		HONOLULU HI 96817-4655	HONOLULU	HI	96817-4655
			RESIDENT	1301 LILIHA ST APT 111		HONOLULU HI 96817-4655	HONOLULU	HI	96817-4655
			RESIDENT	1301 LILIHA ST APT 112		HONOLULU HI 96817-4655	HONOLULU	HI	96817-4655
			RESIDENT	1301 LILIHA ST APT 201		HONOLULU HI 96817-4655	HONOLULU	HI	96817-4655
			RESIDENT	1301 LILIHA ST APT 202		HONOLULU HI 96817-4655	HONOLULU	HI	96817-4655
			RESIDENT	1301 LILIHA ST APT 203		HONOLULU HI 96817-4655	HONOLULU	HI	96817-4655
			RESIDENT	1301 LILIHA ST APT 204		HONOLULU HI 96817-4655	HONOLULU	HI	96817-4655
			RESIDENT	1301 LILIHA ST APT 205		HONOLULU HI 96817-4656	HONOLULU	HI	96817-4656
			RESIDENT	1301 LILIHA ST APT 206		HONOLULU HI 96817-4656	HONOLULU	HI	96817-4656
			RESIDENT	1301 LILIHA ST APT 207		HONOLULU HI 96817-4656	HONOLULU	HI	96817-4656
			RESIDENT	1301 LILIHA ST APT 208		HONOLULU HI 96817-4656	HONOLULU	HI	96817-4656
			RESIDENT	1301 LILIHA ST APT 209		HONOLULU HI 96817-4656	HONOLULU	HI	96817-4656
			RESIDENT	1301 LILIHA ST APT 210		HONOLULU HI 96817-4656	HONOLULU	HI	96817-4656
			RESIDENT	1301 LILIHA ST APT 211		HONOLULU HI 96817-4656	HONOLULU	HI	96817-4656
			RESIDENT	1301 LILIHA ST APT 212		HONOLULU HI 96817-4656	HONOLULU	HI	96817-4656
			RESIDENT	1301 LILIHA ST APT 301		HONOLULU HI 96817-4656	HONOLULU	HI	96817-4656
			RESIDENT	1301 LILIHA ST APT 302		HONOLULU HI 96817-4656	HONOLULU	HI	96817-4656
			RESIDENT	1301 LILIHA ST APT 303		HONOLULU HI 96817-4656	HONOLULU	HI	96817-4656
			RESIDENT	1301 LILIHA ST APT 304		HONOLULU HI 96817-4656	HONOLULU	HI	96817-4656
			RESIDENT	1301 LILIHA ST APT 305		HONOLULU HI 96817-4656	HONOLULU	HI	96817-4656
			RESIDENT	1301 LILIHA ST APT 306		HONOLULU HI 96817-4656	HONOLULU	HI	96817-4656
			RESIDENT	1301 LILIHA ST APT 307		HONOLULU HI 96817-4656	HONOLULU	HI	96817-4656
			RESIDENT	1301 LILIHA ST APT 308		HONOLULU HI 96817-4656	HONOLULU	HI	96817-4656
			RESIDENT	1301 LILIHA ST APT 309		HONOLULU HI 96817-4673	HONOLULU	HI	96817-4673
			RESIDENT	1301 LILIHA ST APT 310		HONOLULU HI 96817-4673	HONOLULU	HI	96817-4673
			RESIDENT	1301 LILIHA ST APT 311		HONOLULU HI 96817-4673	HONOLULU	HI	96817-4673
			RESIDENT	1301 LILIHA ST APT 312		HONOLULU HI 96817-4673	HONOLULU	HI	96817-4673
			RESIDENT	1303 LILIHA ST APT 101		HONOLULU HI 96817-4659	HONOLULU	HI	96817-4659
			RESIDENT	1303 LILIHA ST APT 102		HONOLULU HI 96817-4659	HONOLULU	HI	96817-4659
			RESIDENT	1303 LILIHA ST APT 103		HONOLULU HI 96817-4659	HONOLULU	HI	96817-4659
			RESIDENT	1303 LILIHA ST APT 104		HONOLULU HI 96817-4659	HONOLULU	HI	96817-4659
			RESIDENT	1303 LILIHA ST APT 105		HONOLULU HI 96817-4659	HONOLULU	HI	96817-4659
			RESIDENT	1303 LILIHA ST APT 106		HONOLULU HI 96817-4659	HONOLULU	HI	96817-4659
			RESIDENT	1303 LILIHA ST APT 201		HONOLULU HI 96817-4659	HONOLULU	HI	96817-4659
			RESIDENT	1303 LILIHA ST APT 202		HONOLULU HI 96817-4659	HONOLULU	HI	96817-4659
			RESIDENT	1303 LILIHA ST APT 203		HONOLULU HI 96817-4659	HONOLULU	HI	96817-4659
			RESIDENT	1303 LILIHA ST APT 204		HONOLULU HI 96817-4659	HONOLULU	HI	96817-4659
			RESIDENT	1303 LILIHA ST APT 205		HONOLULU HI 96817-4659	HONOLULU	HI	96817-4659
			RESIDENT	1303 LILIHA ST APT 206		HONOLULU HI 96817-4659	HONOLULU	HI	96817-4659
			RESIDENT	1303 LILIHA ST APT 207		HONOLULU HI 96817-4693	HONOLULU	HI	96817-4693
			RESIDENT	1303 LILIHA ST APT 208		HONOLULU HI 96817-4693	HONOLULU	HI	96817-4693

			BUSINESS OCCUPANT	1305 LILIHA ST		HONOLULU HI 96817-4657	HONOLULU	HI	96817-4657
			RESIDENT	1307 LILIHA ST APT 101		HONOLULU HI 96817-4660	HONOLULU	HI	96817-4660
			RESIDENT	1307 LILIHA ST APT 102		HONOLULU HI 96817-4660	HONOLULU	HI	96817-4660
			RESIDENT	1307 LILIHA ST APT 103		HONOLULU HI 96817-4660	HONOLULU	HI	96817-4660
			RESIDENT	1307 LILIHA ST APT 104		HONOLULU HI 96817-4660	HONOLULU	HI	96817-4660
			RESIDENT	1307 LILIHA ST APT 105		HONOLULU HI 96817-4660	HONOLULU	HI	96817-4660
			RESIDENT	1307 LILIHA ST APT 106		HONOLULU HI 96817-4660	HONOLULU	HI	96817-4660
			RESIDENT	1307 LILIHA ST APT 201		HONOLULU HI 96817-4660	HONOLULU	HI	96817-4660
			RESIDENT	1307 LILIHA ST APT 202		HONOLULU HI 96817-4660	HONOLULU	HI	96817-4660
			RESIDENT	1307 LILIHA ST APT 203		HONOLULU HI 96817-4660	HONOLULU	HI	96817-4660
			RESIDENT	1307 LILIHA ST APT 204		HONOLULU HI 96817-4660	HONOLULU	HI	96817-4660
			RESIDENT	1307 LILIHA ST APT 205		HONOLULU HI 96817-4660	HONOLULU	HI	96817-4660
			RESIDENT	1307 LILIHA ST APT 206		HONOLULU HI 96817-4660	HONOLULU	HI	96817-4660
			RESIDENT	1307 LILIHA ST APT 207		HONOLULU HI 96817-4660	HONOLULU	HI	96817-4660
			RESIDENT	1307 LILIHA ST APT 208		HONOLULU HI 96817-4674	HONOLULU	HI	96817-4674
			RESIDENT	1307 LILIHA ST APT 209		HONOLULU HI 96817-4674	HONOLULU	HI	96817-4674
			RESIDENT	1307 LILIHA ST APT 210		HONOLULU HI 96817-4674	HONOLULU	HI	96817-4674
			RESIDENT	1307 LILIHA ST APT 211		HONOLULU HI 96817-4674	HONOLULU	HI	96817-4674
			RESIDENT	1307 LILIHA ST APT 212		HONOLULU HI 96817-4674	HONOLULU	HI	96817-4674
			RESIDENT	1339 LILIHA ST APT 101		HONOLULU HI 96817-4672	HONOLULU	HI	96817-4672
			RESIDENT	1339 LILIHA ST APT 102		HONOLULU HI 96817-4672	HONOLULU	HI	96817-4672
			RESIDENT	1339 LILIHA ST APT 103		HONOLULU HI 96817-4672	HONOLULU	HI	96817-4672
			RESIDENT	1339 LILIHA ST APT 104		HONOLULU HI 96817-4672	HONOLULU	HI	96817-4672
			RESIDENT	1339 LILIHA ST APT 105		HONOLULU HI 96817-4672	HONOLULU	HI	96817-4672
			RESIDENT	1339 LILIHA ST APT 106		HONOLULU HI 96817-4672	HONOLULU	HI	96817-4672
			RESIDENT	1339 LILIHA ST APT 107		HONOLULU HI 96817-4672	HONOLULU	HI	96817-4672
			RESIDENT	1339 LILIHA ST APT 108		HONOLULU HI 96817-4672	HONOLULU	HI	96817-4672
			RESIDENT	1339 LILIHA ST APT 109		HONOLULU HI 96817-4672	HONOLULU	HI	96817-4672
			RESIDENT	1339 LILIHA ST APT 110		HONOLULU HI 96817-4672	HONOLULU	HI	96817-4672
			RESIDENT	1339 LILIHA ST APT 202		HONOLULU HI 96817-4670	HONOLULU	HI	96817-4670
			RESIDENT	1339 LILIHA ST APT 203		HONOLULU HI 96817-4670	HONOLULU	HI	96817-4670
			RESIDENT	1339 LILIHA ST APT 204		HONOLULU HI 96817-4670	HONOLULU	HI	96817-4670
			RESIDENT	1339 LILIHA ST APT 205		HONOLULU HI 96817-4670	HONOLULU	HI	96817-4670
			RESIDENT	1339 LILIHA ST APT 206		HONOLULU HI 96817-4670	HONOLULU	HI	96817-4670
			RESIDENT	1339 LILIHA ST APT 207		HONOLULU HI 96817-4670	HONOLULU	HI	96817-4670
			RESIDENT	1339 LILIHA ST APT 208		HONOLULU HI 96817-4670	HONOLULU	HI	96817-4670
			RESIDENT	1339 LILIHA ST APT 209		HONOLULU HI 96817-4670	HONOLULU	HI	96817-4670
			RESIDENT	1339 LILIHA ST APT 210		HONOLULU HI 96817-4670	HONOLULU	HI	96817-4670
			RESIDENT	1339 LILIHA ST APT 211		HONOLULU HI 96817-4670	HONOLULU	HI	96817-4670
			RESIDENT	1339 LILIHA ST APT 212		HONOLULU HI 96817-4670	HONOLULU	HI	96817-4670
			RESIDENT	1339 LILIHA ST APT 213		HONOLULU HI 96817-4670	HONOLULU	HI	96817-4670
			RESIDENT	1339 LILIHA ST APT 215		HONOLULU HI 96817-4670	HONOLULU	HI	96817-4670
			RESIDENT	1339 LILIHA ST APT 216		HONOLULU HI 96817-4670	HONOLULU	HI	96817-4670
			RESIDENT	1339 LILIHA ST APT 217		HONOLULU HI 96817-4670	HONOLULU	HI	96817-4670
			RESIDENT	1339 LILIHA ST APT 218		HONOLULU HI 96817-4695	HONOLULU	HI	96817-4695
			RESIDENT	1339 LILIHA ST APT 219		HONOLULU HI 96817-4695	HONOLULU	HI	96817-4695
			RESIDENT	1339 LILIHA ST APT 220		HONOLULU HI 96817-4695	HONOLULU	HI	96817-4695
			RESIDENT	357 N VINEYARD BLVD APT 101		HONOLULU HI 96817-3647	HONOLULU	HI	96817-3647
			RESIDENT	357 N VINEYARD BLVD APT 102		HONOLULU HI 96817-3647	HONOLULU	HI	96817-3647
			RESIDENT	357 N VINEYARD BLVD APT 104		HONOLULU HI 96817-3647	HONOLULU	HI	96817-3647
			RESIDENT	357 N VINEYARD BLVD APT 105		HONOLULU HI 96817-3647	HONOLULU	HI	96817-3647
			RESIDENT	357 N VINEYARD BLVD APT 201		HONOLULU HI 96817-3658	HONOLULU	HI	96817-3658
			RESIDENT	357 N VINEYARD BLVD APT 202		HONOLULU HI 96817-3658	HONOLULU	HI	96817-3658
			RESIDENT	357 N VINEYARD BLVD APT 203		HONOLULU HI 96817-3658	HONOLULU	HI	96817-3658
			RESIDENT	357 N VINEYARD BLVD APT 204		HONOLULU HI 96817-3658	HONOLULU	HI	96817-3658
			RESIDENT	357 N VINEYARD BLVD APT 205		HONOLULU HI 96817-3658	HONOLULU	HI	96817-3658
			RESIDENT	357 N VINEYARD BLVD APT 206		HONOLULU HI 96817-3658	HONOLULU	HI	96817-3658
			RESIDENT	357 N VINEYARD BLVD APT 207		HONOLULU HI 96817-3658	HONOLULU	HI	96817-3658
			RESIDENT	357 N VINEYARD BLVD APT 208		HONOLULU HI 96817-3658	HONOLULU	HI	96817-3658
			RESIDENT	357 N VINEYARD BLVD APT 209		HONOLULU HI 96817-3658	HONOLULU	HI	96817-3658
			RESIDENT	357 N VINEYARD BLVD APT 210		HONOLULU HI 96817-3658	HONOLULU	HI	96817-3658
			RESIDENT	369 N VINEYARD BLVD APT 101		HONOLULU HI 96817-3663	HONOLULU	HI	96817-3663
			RESIDENT	369 N VINEYARD BLVD APT 102		HONOLULU HI 96817-3663	HONOLULU	HI	96817-3663
			RESIDENT	369 N VINEYARD BLVD APT 103		HONOLULU HI 96817-3663	HONOLULU	HI	96817-3663
			RESIDENT	369 N VINEYARD BLVD APT 104		HONOLULU HI 96817-3663	HONOLULU	HI	96817-3663
			RESIDENT	369 N VINEYARD BLVD APT 105		HONOLULU HI 96817-3663	HONOLULU	HI	96817-3663
			RESIDENT	369 N VINEYARD BLVD APT 106		HONOLULU HI 96817-3663	HONOLULU	HI	96817-3663
			RESIDENT	369 N VINEYARD BLVD APT 107		HONOLULU HI 96817-3663	HONOLULU	HI	96817-3663
			RESIDENT	369 N VINEYARD BLVD APT 108		HONOLULU HI 96817-3663	HONOLULU	HI	96817-3663
			RESIDENT	369 N VINEYARD BLVD APT 201		HONOLULU HI 96817-3663	HONOLULU	HI	96817-3663
			RESIDENT	369 N VINEYARD BLVD APT 202		HONOLULU HI 96817-3663	HONOLULU	HI	96817-3663
			RESIDENT	369 N VINEYARD BLVD APT 203		HONOLULU HI 96817-3663	HONOLULU	HI	96817-3663

			RESIDENT	369 N VINEYARD BLVD APT 204		HONOLULU HI 96817-3663	HONOLULU	HI	96817-3663
			RESIDENT	369 N VINEYARD BLVD APT 205		HONOLULU HI 96817-3663	HONOLULU	HI	96817-3663
			RESIDENT	369 N VINEYARD BLVD APT 206		HONOLULU HI 96817-3663	HONOLULU	HI	96817-3663
			RESIDENT	369 N VINEYARD BLVD APT 207		HONOLULU HI 96817-3663	HONOLULU	HI	96817-3663
			RESIDENT	369 N VINEYARD BLVD APT 208		HONOLULU HI 96817-3663	HONOLULU	HI	96817-3663
			RESIDENT	369 N VINEYARD BLVD APT 209		HONOLULU HI 96817-3657	HONOLULU	HI	96817-3657
			RESIDENT	369 N VINEYARD BLVD APT 210		HONOLULU HI 96817-3657	HONOLULU	HI	96817-3657
			RESIDENT	369 N VINEYARD BLVD APT 211		HONOLULU HI 96817-3657	HONOLULU	HI	96817-3657
			RESIDENT	369 N VINEYARD BLVD APT 212		HONOLULU HI 96817-3657	HONOLULU	HI	96817-3657
			RESIDENT	369 N VINEYARD BLVD APT 213		HONOLULU HI 96817-3657	HONOLULU	HI	96817-3657
			RESIDENT	369 N VINEYARD BLVD APT 214		HONOLULU HI 96817-3657	HONOLULU	HI	96817-3657
			RESIDENT	369 N VINEYARD BLVD APT 215		HONOLULU HI 96817-3657	HONOLULU	HI	96817-3657
			RESIDENT	369 N VINEYARD BLVD APT 216		HONOLULU HI 96817-3657	HONOLULU	HI	96817-3657
			RESIDENT	401 N VINEYARD BLVD APT 101		HONOLULU HI 96817-3622	HONOLULU	HI	96817-3622
			RESIDENT	401 N VINEYARD BLVD APT 102		HONOLULU HI 96817-3622	HONOLULU	HI	96817-3622
			RESIDENT	401 N VINEYARD BLVD APT 103		HONOLULU HI 96817-3622	HONOLULU	HI	96817-3622
			RESIDENT	401 N VINEYARD BLVD APT 104		HONOLULU HI 96817-3622	HONOLULU	HI	96817-3622
			RESIDENT	401 N VINEYARD BLVD APT 105		HONOLULU HI 96817-3622	HONOLULU	HI	96817-3622
			RESIDENT	401 N VINEYARD BLVD APT 106		HONOLULU HI 96817-3622	HONOLULU	HI	96817-3622
			RESIDENT	401 N VINEYARD BLVD APT 107		HONOLULU HI 96817-3622	HONOLULU	HI	96817-3622
			RESIDENT	401 N VINEYARD BLVD APT 108		HONOLULU HI 96817-3622	HONOLULU	HI	96817-3622
			RESIDENT	401 N VINEYARD BLVD APT 109		HONOLULU HI 96817-3622	HONOLULU	HI	96817-3622
			RESIDENT	401 N VINEYARD BLVD APT 110		HONOLULU HI 96817-3622	HONOLULU	HI	96817-3622
			RESIDENT	401 N VINEYARD BLVD APT 201		HONOLULU HI 96817-3622	HONOLULU	HI	96817-3622
			RESIDENT	401 N VINEYARD BLVD APT 202		HONOLULU HI 96817-3622	HONOLULU	HI	96817-3622
			RESIDENT	401 N VINEYARD BLVD APT 204		HONOLULU HI 96817-3622	HONOLULU	HI	96817-3622
			RESIDENT	401 N VINEYARD BLVD APT 205		HONOLULU HI 96817-3622	HONOLULU	HI	96817-3622
			RESIDENT	401 N VINEYARD BLVD APT 207		HONOLULU HI 96817-3621	HONOLULU	HI	96817-3621
			RESIDENT	401 N VINEYARD BLVD APT 208		HONOLULU HI 96817-3621	HONOLULU	HI	96817-3621
			RESIDENT	401 N VINEYARD BLVD APT 209		HONOLULU HI 96817-3621	HONOLULU	HI	96817-3621
			RESIDENT	401 N VINEYARD BLVD APT 210		HONOLULU HI 96817-3621	HONOLULU	HI	96817-3621
			RESIDENT	401 N VINEYARD BLVD APT 211		HONOLULU HI 96817-3621	HONOLULU	HI	96817-3621
			RESIDENT	401 N VINEYARD BLVD APT 212		HONOLULU HI 96817-3621	HONOLULU	HI	96817-3621
			RESIDENT	401 N VINEYARD BLVD APT 213		HONOLULU HI 96817-3621	HONOLULU	HI	96817-3621
			RESIDENT	401 N VINEYARD BLVD APT 214		HONOLULU HI 96817-3621	HONOLULU	HI	96817-3621
			RESIDENT	401 N VINEYARD BLVD APT 215		HONOLULU HI 96817-3621	HONOLULU	HI	96817-3621
			RESIDENT	401 N VINEYARD BLVD APT 216		HONOLULU HI 96817-3621	HONOLULU	HI	96817-3621
			RESIDENT	401 N VINEYARD BLVD APT 217		HONOLULU HI 96817-3621	HONOLULU	HI	96817-3621
			RESIDENT	401 N VINEYARD BLVD APT 218		HONOLULU HI 96817-3621	HONOLULU	HI	96817-3621
			RESIDENT	401 N VINEYARD BLVD APT 219		HONOLULU HI 96817-3621	HONOLULU	HI	96817-3621
			RESIDENT	401 N VINEYARD BLVD APT 220		HONOLULU HI 96817-3621	HONOLULU	HI	96817-3621
			RESIDENT	359 N VINEYARD BLVD APT 101		HONOLULU HI 96817-3659	HONOLULU	HI	96817-3659
			RESIDENT	359 N VINEYARD BLVD APT 102		HONOLULU HI 96817-3659	HONOLULU	HI	96817-3659
			RESIDENT	359 N VINEYARD BLVD APT 103		HONOLULU HI 96817-3659	HONOLULU	HI	96817-3659
			RESIDENT	359 N VINEYARD BLVD APT 104		HONOLULU HI 96817-3659	HONOLULU	HI	96817-3659
			RESIDENT	359 N VINEYARD BLVD APT 105		HONOLULU HI 96817-3659	HONOLULU	HI	96817-3659
			RESIDENT	359 N VINEYARD BLVD APT 106		HONOLULU HI 96817-3659	HONOLULU	HI	96817-3659
			RESIDENT	359 N VINEYARD BLVD APT 107		HONOLULU HI 96817-3659	HONOLULU	HI	96817-3659
			RESIDENT	359 N VINEYARD BLVD APT 108		HONOLULU HI 96817-3659	HONOLULU	HI	96817-3659
			RESIDENT	359 N VINEYARD BLVD APT 201		HONOLULU HI 96817-3659	HONOLULU	HI	96817-3659
			RESIDENT	359 N VINEYARD BLVD APT 202		HONOLULU HI 96817-3659	HONOLULU	HI	96817-3659
			RESIDENT	359 N VINEYARD BLVD APT 203		HONOLULU HI 96817-3659	HONOLULU	HI	96817-3659
			RESIDENT	359 N VINEYARD BLVD APT 204		HONOLULU HI 96817-3659	HONOLULU	HI	96817-3659
			RESIDENT	359 N VINEYARD BLVD APT 205		HONOLULU HI 96817-3659	HONOLULU	HI	96817-3659
			RESIDENT	359 N VINEYARD BLVD APT 206		HONOLULU HI 96817-3659	HONOLULU	HI	96817-3659
			RESIDENT	359 N VINEYARD BLVD APT 207		HONOLULU HI 96817-3659	HONOLULU	HI	96817-3659
			RESIDENT	359 N VINEYARD BLVD APT 208		HONOLULU HI 96817-3659	HONOLULU	HI	96817-3659
			RESIDENT	359 N VINEYARD BLVD APT 209		HONOLULU HI 96817-3655	HONOLULU	HI	96817-3655
			RESIDENT	359 N VINEYARD BLVD APT 210		HONOLULU HI 96817-3655	HONOLULU	HI	96817-3655
			RESIDENT	359 N VINEYARD BLVD APT 211		HONOLULU HI 96817-3655	HONOLULU	HI	96817-3655
			RESIDENT	359 N VINEYARD BLVD APT 212		HONOLULU HI 96817-3655	HONOLULU	HI	96817-3655
			RESIDENT	359 N VINEYARD BLVD APT 213		HONOLULU HI 96817-3655	HONOLULU	HI	96817-3655
			RESIDENT	359 N VINEYARD BLVD APT 214		HONOLULU HI 96817-3655	HONOLULU	HI	96817-3655
			RESIDENT	359 N VINEYARD BLVD APT 215		HONOLULU HI 96817-3655	HONOLULU	HI	96817-3655
			RESIDENT	359 N VINEYARD BLVD APT 216		HONOLULU HI 96817-3655	HONOLULU	HI	96817-3655
			RESIDENT	339 N VINEYARD BLVD APT 101		HONOLULU HI 96817-3650	HONOLULU	HI	96817-3650
			RESIDENT	339 N VINEYARD BLVD APT 102		HONOLULU HI 96817-3650	HONOLULU	HI	96817-3650
			RESIDENT	339 N VINEYARD BLVD APT 103		HONOLULU HI 96817-3650	HONOLULU	HI	96817-3650
			RESIDENT	339 N VINEYARD BLVD APT 104		HONOLULU HI 96817-3650	HONOLULU	HI	96817-3650
			RESIDENT	339 N VINEYARD BLVD APT 105		HONOLULU HI 96817-3650	HONOLULU	HI	96817-3650
			RESIDENT	339 N VINEYARD BLVD APT 106		HONOLULU HI 96817-3650	HONOLULU	HI	96817-3650
			RESIDENT	339 N VINEYARD BLVD APT 201		HONOLULU HI 96817-3650	HONOLULU	HI	96817-3650

			RESIDENT	339 N VINEYARD BLVD APT 202		HONOLULU HI 96817-3650	HONOLULU	HI	96817-3650
			RESIDENT	339 N VINEYARD BLVD APT 203		HONOLULU HI 96817-3654	HONOLULU	HI	96817-3654
			RESIDENT	339 N VINEYARD BLVD APT 204		HONOLULU HI 96817-3654	HONOLULU	HI	96817-3654
			RESIDENT	339 N VINEYARD BLVD APT 206		HONOLULU HI 96817-3654	HONOLULU	HI	96817-3654
			RESIDENT	339 N VINEYARD BLVD APT 207		HONOLULU HI 96817-3654	HONOLULU	HI	96817-3654
			RESIDENT	339 N VINEYARD BLVD APT 208		HONOLULU HI 96817-3654	HONOLULU	HI	96817-3654
			RESIDENT	333 N VINEYARD BLVD APT 101		HONOLULU HI 96817-3653	HONOLULU	HI	96817-3653
			RESIDENT	333 N VINEYARD BLVD APT 102		HONOLULU HI 96817-3653	HONOLULU	HI	96817-3653
			RESIDENT	333 N VINEYARD BLVD APT 103		HONOLULU HI 96817-3653	HONOLULU	HI	96817-3653
			RESIDENT	333 N VINEYARD BLVD APT 104		HONOLULU HI 96817-3653	HONOLULU	HI	96817-3653
			RESIDENT	333 N VINEYARD BLVD APT 105		HONOLULU HI 96817-3653	HONOLULU	HI	96817-3653
			RESIDENT	333 N VINEYARD BLVD APT 106		HONOLULU HI 96817-3653	HONOLULU	HI	96817-3653
			RESIDENT	333 N VINEYARD BLVD APT 201		HONOLULU HI 96817-3653	HONOLULU	HI	96817-3653
			RESIDENT	333 N VINEYARD BLVD APT 202		HONOLULU HI 96817-3653	HONOLULU	HI	96817-3653
			RESIDENT	333 N VINEYARD BLVD APT 203		HONOLULU HI 96817-3660	HONOLULU	HI	96817-3660
			RESIDENT	333 N VINEYARD BLVD APT 204		HONOLULU HI 96817-3660	HONOLULU	HI	96817-3660
			RESIDENT	333 N VINEYARD BLVD APT 205		HONOLULU HI 96817-3660	HONOLULU	HI	96817-3660
			RESIDENT	333 N VINEYARD BLVD APT 206		HONOLULU HI 96817-3660	HONOLULU	HI	96817-3660
			RESIDENT	333 N VINEYARD BLVD APT 207		HONOLULU HI 96817-3660	HONOLULU	HI	96817-3660
			RESIDENT	331 N VINEYARD BLVD APT 101		HONOLULU HI 96817-3651	HONOLULU	HI	96817-3651
			RESIDENT	331 N VINEYARD BLVD APT 102		HONOLULU HI 96817-3651	HONOLULU	HI	96817-3651
			RESIDENT	331 N VINEYARD BLVD APT 103		HONOLULU HI 96817-3651	HONOLULU	HI	96817-3651
			RESIDENT	331 N VINEYARD BLVD APT 104		HONOLULU HI 96817-3651	HONOLULU	HI	96817-3651
			RESIDENT	331 N VINEYARD BLVD APT 105		HONOLULU HI 96817-3651	HONOLULU	HI	96817-3651
			RESIDENT	331 N VINEYARD BLVD APT 107		HONOLULU HI 96817-3651	HONOLULU	HI	96817-3651
			RESIDENT	331 N VINEYARD BLVD APT 108		HONOLULU HI 96817-3651	HONOLULU	HI	96817-3651
			RESIDENT	331 N VINEYARD BLVD APT 109		HONOLULU HI 96817-3651	HONOLULU	HI	96817-3651
			RESIDENT	331 N VINEYARD BLVD APT 110		HONOLULU HI 96817-3651	HONOLULU	HI	96817-3651
			RESIDENT	331 N VINEYARD BLVD APT 111		HONOLULU HI 96817-3651	HONOLULU	HI	96817-3651
			RESIDENT	331 N VINEYARD BLVD APT 112		HONOLULU HI 96817-3652	HONOLULU	HI	96817-3652
			RESIDENT	331 N VINEYARD BLVD APT 201		HONOLULU HI 96817-3652	HONOLULU	HI	96817-3652
			RESIDENT	331 N VINEYARD BLVD APT 202		HONOLULU HI 96817-3652	HONOLULU	HI	96817-3652
			RESIDENT	331 N VINEYARD BLVD APT 203		HONOLULU HI 96817-3652	HONOLULU	HI	96817-3652
			RESIDENT	331 N VINEYARD BLVD APT 204		HONOLULU HI 96817-3652	HONOLULU	HI	96817-3652
			RESIDENT	331 N VINEYARD BLVD APT 205		HONOLULU HI 96817-3652	HONOLULU	HI	96817-3652
			RESIDENT	331 N VINEYARD BLVD APT 206		HONOLULU HI 96817-3652	HONOLULU	HI	96817-3652
			RESIDENT	331 N VINEYARD BLVD APT 207		HONOLULU HI 96817-3652	HONOLULU	HI	96817-3652
			RESIDENT	331 N VINEYARD BLVD APT 208		HONOLULU HI 96817-3652	HONOLULU	HI	96817-3652
			RESIDENT	331 N VINEYARD BLVD APT 209		HONOLULU HI 96817-3652	HONOLULU	HI	96817-3652
			RESIDENT	331 N VINEYARD BLVD APT 210		HONOLULU HI 96817-3652	HONOLULU	HI	96817-3652
			RESIDENT	331 N VINEYARD BLVD APT 211		HONOLULU HI 96817-3652	HONOLULU	HI	96817-3652
			RESIDENT	331 N VINEYARD BLVD APT 212		HONOLULU HI 96817-3652	HONOLULU	HI	96817-3652
			RESIDENT	331 N VINEYARD BLVD APT 302		HONOLULU HI 96817-3652	HONOLULU	HI	96817-3652
			RESIDENT	331 N VINEYARD BLVD APT 303		HONOLULU HI 96817-3656	HONOLULU	HI	96817-3656
			RESIDENT	331 N VINEYARD BLVD APT 304		HONOLULU HI 96817-3656	HONOLULU	HI	96817-3656
			RESIDENT	331 N VINEYARD BLVD APT 305		HONOLULU HI 96817-3656	HONOLULU	HI	96817-3656
			RESIDENT	331 N VINEYARD BLVD APT 307		HONOLULU HI 96817-3656	HONOLULU	HI	96817-3656
			RESIDENT	331 N VINEYARD BLVD APT 308		HONOLULU HI 96817-3656	HONOLULU	HI	96817-3656
			RESIDENT	331 N VINEYARD BLVD APT 309		HONOLULU HI 96817-3656	HONOLULU	HI	96817-3656
			RESIDENT	331 N VINEYARD BLVD APT 310		HONOLULU HI 96817-3656	HONOLULU	HI	96817-3656
			RESIDENT	331 N VINEYARD BLVD APT 312		HONOLULU HI 96817-3656	HONOLULU	HI	96817-3656
			RESIDENT	301 N VINEYARD BLVD APT 101		HONOLULU HI 96817-3646	HONOLULU	HI	96817-3646
			RESIDENT	301 N VINEYARD BLVD APT 102		HONOLULU HI 96817-3646	HONOLULU	HI	96817-3646
			RESIDENT	301 N VINEYARD BLVD APT 103		HONOLULU HI 96817-3646	HONOLULU	HI	96817-3646
			RESIDENT	301 N VINEYARD BLVD APT 104		HONOLULU HI 96817-3646	HONOLULU	HI	96817-3646
			RESIDENT	301 N VINEYARD BLVD APT 105		HONOLULU HI 96817-3646	HONOLULU	HI	96817-3646
			RESIDENT	301 N VINEYARD BLVD APT 106		HONOLULU HI 96817-3646	HONOLULU	HI	96817-3646
			RESIDENT	301 N VINEYARD BLVD APT 107		HONOLULU HI 96817-3629	HONOLULU	HI	96817-3629
			RESIDENT	301 N VINEYARD BLVD APT 201		HONOLULU HI 96817-3629	HONOLULU	HI	96817-3629
			RESIDENT	301 N VINEYARD BLVD APT 202		HONOLULU HI 96817-3629	HONOLULU	HI	96817-3629
			RESIDENT	301 N VINEYARD BLVD APT 203		HONOLULU HI 96817-3629	HONOLULU	HI	96817-3629
			RESIDENT	301 N VINEYARD BLVD APT 204		HONOLULU HI 96817-3629	HONOLULU	HI	96817-3629
			RESIDENT	301 N VINEYARD BLVD APT 205		HONOLULU HI 96817-3629	HONOLULU	HI	96817-3629
			RESIDENT	301 N VINEYARD BLVD APT 206		HONOLULU HI 96817-3629	HONOLULU	HI	96817-3629
			RESIDENT	301 N VINEYARD BLVD APT 207		HONOLULU HI 96817-3629	HONOLULU	HI	96817-3629
			RESIDENT	301 N VINEYARD BLVD APT 208		HONOLULU HI 96817-3629	HONOLULU	HI	96817-3629
			RESIDENT	301 N VINEYARD BLVD APT 209		HONOLULU HI 96817-3629	HONOLULU	HI	96817-3629
			RESIDENT	301 N VINEYARD BLVD APT 210		HONOLULU HI 96817-3629	HONOLULU	HI	96817-3629
			RESIDENT	301 N VINEYARD BLVD APT 211		HONOLULU HI 96817-3629	HONOLULU	HI	96817-3629
			RESIDENT	301 N VINEYARD BLVD APT 212		HONOLULU HI 96817-3629	HONOLULU	HI	96817-3629
			RESIDENT	301 N VINEYARD BLVD APT 213		HONOLULU HI 96817-3629	HONOLULU	HI	96817-3629
			RESIDENT	301 N VINEYARD BLVD APT 214		HONOLULU HI 96817-3629	HONOLULU	HI	96817-3629

			RESIDENT	1332 AALA ST APT 101		HONOLULU HI 96817-3927	HONOLULU	HI	96817-3927
			RESIDENT	1332 AALA ST APT 102		HONOLULU HI 96817-3927	HONOLULU	HI	96817-3927
			RESIDENT	1332 AALA ST APT 103		HONOLULU HI 96817-3927	HONOLULU	HI	96817-3927
			RESIDENT	1332 AALA ST APT 201		HONOLULU HI 96817-3927	HONOLULU	HI	96817-3927
			RESIDENT	1332 AALA ST APT 203		HONOLULU HI 96817-3927	HONOLULU	HI	96817-3927
			RESIDENT	1332 AALA ST APT 204		HONOLULU HI 96817-3927	HONOLULU	HI	96817-3927
			RESIDENT	1332 AALA ST APT 205		HONOLULU HI 96817-3927	HONOLULU	HI	96817-3927
			RESIDENT	1332 AALA ST APT 206		HONOLULU HI 96817-3927	HONOLULU	HI	96817-3927
			RESIDENT	1342 AALA ST APT 101		HONOLULU HI 96817-3929	HONOLULU	HI	96817-3929
			RESIDENT	1342 AALA ST APT 102		HONOLULU HI 96817-3929	HONOLULU	HI	96817-3929
			RESIDENT	1342 AALA ST APT 103		HONOLULU HI 96817-3929	HONOLULU	HI	96817-3929
			RESIDENT	1342 AALA ST APT 104		HONOLULU HI 96817-3929	HONOLULU	HI	96817-3929
			RESIDENT	1342 AALA ST APT 201		HONOLULU HI 96817-3929	HONOLULU	HI	96817-3929
			RESIDENT	1342 AALA ST APT 203		HONOLULU HI 96817-3929	HONOLULU	HI	96817-3929
			RESIDENT	1342 AALA ST APT 204		HONOLULU HI 96817-3964	HONOLULU	HI	96817-3964
			RESIDENT	1342 AALA ST APT 205		HONOLULU HI 96817-3964	HONOLULU	HI	96817-3964
			RESIDENT	1342 AALA ST APT 206		HONOLULU HI 96817-3964	HONOLULU	HI	96817-3964
			RESIDENT	1342 AALA ST APT 207		HONOLULU HI 96817-3964	HONOLULU	HI	96817-3964
			RESIDENT	1342 AALA ST APT 208		HONOLULU HI 96817-3964	HONOLULU	HI	96817-3964
			RESIDENT	271 N VINEYARD BLVD APT 101		HONOLULU HI 96817-3941	HONOLULU	HI	96817-3941
			RESIDENT	271 N VINEYARD BLVD APT 102		HONOLULU HI 96817-3941	HONOLULU	HI	96817-3941
			RESIDENT	271 N VINEYARD BLVD APT 103		HONOLULU HI 96817-3941	HONOLULU	HI	96817-3941
			RESIDENT	271 N VINEYARD BLVD APT 201		HONOLULU HI 96817-3941	HONOLULU	HI	96817-3941
			RESIDENT	271 N VINEYARD BLVD APT 202		HONOLULU HI 96817-3941	HONOLULU	HI	96817-3941
			RESIDENT	271 N VINEYARD BLVD APT 203		HONOLULU HI 96817-3941	HONOLULU	HI	96817-3941
			RESIDENT	271 N VINEYARD BLVD APT 204		HONOLULU HI 96817-3941	HONOLULU	HI	96817-3941
			RESIDENT	271 N VINEYARD BLVD APT 205		HONOLULU HI 96817-3941	HONOLULU	HI	96817-3941
			RESIDENT	271 N VINEYARD BLVD APT 206		HONOLULU HI 96817-3941	HONOLULU	HI	96817-3941
			RESIDENT	271 N VINEYARD BLVD APT 207		HONOLULU HI 96817-3965	HONOLULU	HI	96817-3965
			RESIDENT	271 N VINEYARD BLVD APT 208		HONOLULU HI 96817-3965	HONOLULU	HI	96817-3965
			RESIDENT	273 N VINEYARD BLVD APT 101		HONOLULU HI 96817-3942	HONOLULU	HI	96817-3942
			RESIDENT	273 N VINEYARD BLVD APT 102		HONOLULU HI 96817-3942	HONOLULU	HI	96817-3942
			RESIDENT	273 N VINEYARD BLVD APT 103		HONOLULU HI 96817-3942	HONOLULU	HI	96817-3942
			RESIDENT	273 N VINEYARD BLVD APT 201		HONOLULU HI 96817-3942	HONOLULU	HI	96817-3942
			RESIDENT	273 N VINEYARD BLVD APT 202		HONOLULU HI 96817-3942	HONOLULU	HI	96817-3942
			RESIDENT	273 N VINEYARD BLVD APT 203		HONOLULU HI 96817-3942	HONOLULU	HI	96817-3942
			RESIDENT	273 N VINEYARD BLVD APT 204		HONOLULU HI 96817-3942	HONOLULU	HI	96817-3942
			RESIDENT	273 N VINEYARD BLVD APT 205		HONOLULU HI 96817-3942	HONOLULU	HI	96817-3942
			RESIDENT	273 N VINEYARD BLVD APT 206		HONOLULU HI 96817-3942	HONOLULU	HI	96817-3942
			RESIDENT	275 N VINEYARD BLVD APT 101		HONOLULU HI 96817-3966	HONOLULU	HI	96817-3966
			RESIDENT	275 N VINEYARD BLVD APT 102		HONOLULU HI 96817-3966	HONOLULU	HI	96817-3966
			RESIDENT	275 N VINEYARD BLVD APT 103		HONOLULU HI 96817-3966	HONOLULU	HI	96817-3966
			RESIDENT	275 N VINEYARD BLVD APT 104		HONOLULU HI 96817-3966	HONOLULU	HI	96817-3966
			RESIDENT	275 N VINEYARD BLVD APT 201		HONOLULU HI 96817-3943	HONOLULU	HI	96817-3943
			RESIDENT	275 N VINEYARD BLVD APT 202		HONOLULU HI 96817-3943	HONOLULU	HI	96817-3943
			RESIDENT	275 N VINEYARD BLVD APT 203		HONOLULU HI 96817-3943	HONOLULU	HI	96817-3943
			RESIDENT	275 N VINEYARD BLVD APT 204		HONOLULU HI 96817-3943	HONOLULU	HI	96817-3943
			RESIDENT	275 N VINEYARD BLVD APT 205		HONOLULU HI 96817-3943	HONOLULU	HI	96817-3943
			RESIDENT	275 N VINEYARD BLVD APT 206		HONOLULU HI 96817-3943	HONOLULU	HI	96817-3943
			RESIDENT	275 N VINEYARD BLVD APT 207		HONOLULU HI 96817-3943	HONOLULU	HI	96817-3943
			RESIDENT	275 N VINEYARD BLVD APT 208		HONOLULU HI 96817-3943	HONOLULU	HI	96817-3943
			RESIDENT	277 N VINEYARD BLVD APT 101		HONOLULU HI 96817-3944	HONOLULU	HI	96817-3944
			RESIDENT	277 N VINEYARD BLVD APT 102		HONOLULU HI 96817-3944	HONOLULU	HI	96817-3944
			RESIDENT	277 N VINEYARD BLVD APT 103		HONOLULU HI 96817-3944	HONOLULU	HI	96817-3944
			RESIDENT	277 N VINEYARD BLVD APT 104		HONOLULU HI 96817-3944	HONOLULU	HI	96817-3944
			RESIDENT	277 N VINEYARD BLVD APT 105		HONOLULU HI 96817-3944	HONOLULU	HI	96817-3944
			RESIDENT	277 N VINEYARD BLVD APT 201		HONOLULU HI 96817-3944	HONOLULU	HI	96817-3944
			RESIDENT	277 N VINEYARD BLVD APT 202		HONOLULU HI 96817-3944	HONOLULU	HI	96817-3944
			RESIDENT	277 N VINEYARD BLVD APT 203		HONOLULU HI 96817-3944	HONOLULU	HI	96817-3944
			RESIDENT	277 N VINEYARD BLVD APT 204		HONOLULU HI 96817-3924	HONOLULU	HI	96817-3924
			RESIDENT	277 N VINEYARD BLVD APT 205		HONOLULU HI 96817-3924	HONOLULU	HI	96817-3924
			RESIDENT	277 N VINEYARD BLVD APT 206		HONOLULU HI 96817-3924	HONOLULU	HI	96817-3924
			RESIDENT	277 N VINEYARD BLVD APT 207		HONOLULU HI 96817-3924	HONOLULU	HI	96817-3924
			RESIDENT	277 N VINEYARD BLVD APT 208		HONOLULU HI 96817-3924	HONOLULU	HI	96817-3924
			RESIDENT	277 N VINEYARD BLVD APT 209		HONOLULU HI 96817-3924	HONOLULU	HI	96817-3924
			RESIDENT	277 N VINEYARD BLVD APT 210		HONOLULU HI 96817-3924	HONOLULU	HI	96817-3924
			RESIDENT	281 N VINEYARD BLVD APT 101		HONOLULU HI 96817-3945	HONOLULU	HI	96817-3945
			RESIDENT	281 N VINEYARD BLVD APT 102		HONOLULU HI 96817-3945	HONOLULU	HI	96817-3945
			RESIDENT	281 N VINEYARD BLVD APT 103		HONOLULU HI 96817-3945	HONOLULU	HI	96817-3945
			RESIDENT	281 N VINEYARD BLVD APT 105		HONOLULU HI 96817-3945	HONOLULU	HI	96817-3945
			RESIDENT	281 N VINEYARD BLVD APT 106		HONOLULU HI 96817-3945	HONOLULU	HI	96817-3945
			RESIDENT	281 N VINEYARD BLVD APT 107		HONOLULU HI 96817-3945	HONOLULU	HI	96817-3945

			RESIDENT	281 N VINEYARD BLVD APT 201		HONOLULU HI 96817-3930	HONOLULU	HI	96817-3930
			RESIDENT	281 N VINEYARD BLVD APT 202		HONOLULU HI 96817-3930	HONOLULU	HI	96817-3930
			RESIDENT	281 N VINEYARD BLVD APT 203		HONOLULU HI 96817-3930	HONOLULU	HI	96817-3930
			RESIDENT	281 N VINEYARD BLVD APT 204		HONOLULU HI 96817-3930	HONOLULU	HI	96817-3930
			RESIDENT	281 N VINEYARD BLVD APT 205		HONOLULU HI 96817-3930	HONOLULU	HI	96817-3930
			RESIDENT	281 N VINEYARD BLVD APT 206		HONOLULU HI 96817-3930	HONOLULU	HI	96817-3930
			RESIDENT	281 N VINEYARD BLVD APT 208		HONOLULU HI 96817-3930	HONOLULU	HI	96817-3930
			RESIDENT	281 N VINEYARD BLVD APT 209		HONOLULU HI 96817-3930	HONOLULU	HI	96817-3930
			RESIDENT	281 N VINEYARD BLVD APT 210		HONOLULU HI 96817-3930	HONOLULU	HI	96817-3930
			RESIDENT	281 N VINEYARD BLVD APT 211		HONOLULU HI 96817-3930	HONOLULU	HI	96817-3930
			RESIDENT	281 N VINEYARD BLVD APT 212		HONOLULU HI 96817-3930	HONOLULU	HI	96817-3930
			RESIDENT	281 N VINEYARD BLVD APT 213		HONOLULU HI 96817-3930	HONOLULU	HI	96817-3930
			BUSINESS OCCUPANT	1320 AALA ST		HONOLULU HI 96817-3918	HONOLULU	HI	96817-3918
			RESIDENT	1507 LILIHA ST APT 1		HONOLULU HI 96817-3552	HONOLULU	HI	96817-3552
			RESIDENT	1507 LILIHA ST APT 2		HONOLULU HI 96817-3552	HONOLULU	HI	96817-3552
			RESIDENT	1507 LILIHA ST APT 3		HONOLULU HI 96817-3552	HONOLULU	HI	96817-3552
			RESIDENT	1507 LILIHA ST APT 4		HONOLULU HI 96817-3552	HONOLULU	HI	96817-3552
			RESIDENT	1507 LILIHA ST APT 5		HONOLULU HI 96817-3552	HONOLULU	HI	96817-3552
			RESIDENT	1507 LILIHA ST APT 6		HONOLULU HI 96817-3552	HONOLULU	HI	96817-3552
			RESIDENT	1507 LILIHA ST APT 7		HONOLULU HI 96817-3552	HONOLULU	HI	96817-3552
			RESIDENT	1507 LILIHA ST APT 8		HONOLULU HI 96817-3553	HONOLULU	HI	96817-3553
			RESIDENT	1507 LILIHA ST APT 9		HONOLULU HI 96817-3553	HONOLULU	HI	96817-3553
			RESIDENT	1507 LILIHA ST APT 10		HONOLULU HI 96817-3553	HONOLULU	HI	96817-3553
			RESIDENT	1507 LILIHA ST APT 11		HONOLULU HI 96817-3553	HONOLULU	HI	96817-3553
			RESIDENT	1507 LILIHA ST APT 12		HONOLULU HI 96817-3553	HONOLULU	HI	96817-3553
			RESIDENT	1507 LILIHA ST APT 14		HONOLULU HI 96817-3553	HONOLULU	HI	96817-3553
			RESIDENT	1507 LILIHA ST APT 15		HONOLULU HI 96817-3553	HONOLULU	HI	96817-3553
			RESIDENT	1507 LILIHA ST APT 16		HONOLULU HI 96817-3554	HONOLULU	HI	96817-3554
			RESIDENT	1507 LILIHA ST APT 17		HONOLULU HI 96817-3554	HONOLULU	HI	96817-3554
			RESIDENT	1507 LILIHA ST APT 18		HONOLULU HI 96817-3554	HONOLULU	HI	96817-3554
			BUSINESS OCCUPANT	1515 LILIHA ST		HONOLULU HI 96817-3526	HONOLULU	HI	96817-3526
			BUSINESS OCCUPANT	525 KIAPU PL		HONOLULU HI 96817-3531	HONOLULU	HI	96817-3531
			RESIDENT	521 KIAPU PL		HONOLULU HI 96817-3531	HONOLULU	HI	96817-3531
			RESIDENT	519 KIAPU PL		HONOLULU HI 96817-3531	HONOLULU	HI	96817-3531
			RESIDENT	513 KIAPU PL		HONOLULU HI 96817-3531	HONOLULU	HI	96817-3531
			RESIDENT	511 KIAPU PL		HONOLULU HI 96817-3531	HONOLULU	HI	96817-3531
			RESIDENT	509 KIAPU PL		HONOLULU HI 96817-3531	HONOLULU	HI	96817-3531
			RESIDENT	507 KIAPU PL		HONOLULU HI 96817-3531	HONOLULU	HI	96817-3531
			RESIDENT	507 KIAPU PL APT A		HONOLULU HI 96817-3531	HONOLULU	HI	96817-3531
			BUSINESS OCCUPANT	1520 LILIHA ST STE 101		HONOLULU HI 96817-3588	HONOLULU	HI	96817-3588
			BUSINESS OCCUPANT	1520 LILIHA ST STE 201		HONOLULU HI 96817-3563	HONOLULU	HI	96817-3563
			BUSINESS OCCUPANT	1520 LILIHA ST STE 203		HONOLULU HI 96817-3563	HONOLULU	HI	96817-3563
			BUSINESS OCCUPANT	1520 LILIHA ST STE 204		HONOLULU HI 96817-3563	HONOLULU	HI	96817-3563
			BUSINESS OCCUPANT	1520 LILIHA ST STE 205		HONOLULU HI 96817-3563	HONOLULU	HI	96817-3563
			BUSINESS OCCUPANT	1520 LILIHA ST STE 301		HONOLULU HI 96817-3563	HONOLULU	HI	96817-3563
			BUSINESS OCCUPANT	1520 LILIHA ST STE 303		HONOLULU HI 96817-3563	HONOLULU	HI	96817-3563
			BUSINESS OCCUPANT	1520 LILIHA ST STE 401		HONOLULU HI 96817-3563	HONOLULU	HI	96817-3563
			BUSINESS OCCUPANT	1520 LILIHA ST STE 403		HONOLULU HI 96817-3563	HONOLULU	HI	96817-3563
			BUSINESS OCCUPANT	1520 LILIHA ST STE 404		HONOLULU HI 96817-3563	HONOLULU	HI	96817-3563
			BUSINESS OCCUPANT	1520 LILIHA ST STE 405		HONOLULU HI 96817-3563	HONOLULU	HI	96817-3563
			BUSINESS OCCUPANT	1520 LILIHA ST STE 502		HONOLULU HI 96817-3564	HONOLULU	HI	96817-3564
			BUSINESS OCCUPANT	1520 LILIHA ST STE 503		HONOLULU HI 96817-3564	HONOLULU	HI	96817-3564
			BUSINESS OCCUPANT	1520 LILIHA ST STE 601		HONOLULU HI 96817-3564	HONOLULU	HI	96817-3564
			BUSINESS OCCUPANT	1520 LILIHA ST STE 606		HONOLULU HI 96817-3564	HONOLULU	HI	96817-3564
			BUSINESS OCCUPANT	1520 LILIHA ST STE 607		HONOLULU HI 96817-3564	HONOLULU	HI	96817-3564
			BUSINESS OCCUPANT	1520 LILIHA ST STE 701		HONOLULU HI 96817-3564	HONOLULU	HI	96817-3564
			BUSINESS OCCUPANT	1520 LILIHA ST STE 703		HONOLULU HI 96817-3564	HONOLULU	HI	96817-3564
			BUSINESS OCCUPANT	1520 LILIHA ST STE 705		HONOLULU HI 96817-3564	HONOLULU	HI	96817-3564
			BUSINESS OCCUPANT	1520 LILIHA ST STE 711		HONOLULU HI 96817-3564	HONOLULU	HI	96817-3564
			BUSINESS OCCUPANT	1520 LILIHA ST STE 707		HONOLULU HI 96817-3564	HONOLULU	HI	96817-3564
			RESIDENT	519 HIRAM LN		HONOLULU HI 96817-3501	HONOLULU	HI	96817-3501
			RESIDENT	519 HIRAM LN APT A		HONOLULU HI 96817-3501	HONOLULU	HI	96817-3501
			RESIDENT	519 HIRAM LN APT B		HONOLULU HI 96817-3501	HONOLULU	HI	96817-3501
			RESIDENT	515 HIRAM LN		HONOLULU HI 96817-3501	HONOLULU	HI	96817-3501
			RESIDENT	511 HIRAM LN		HONOLULU HI 96817-3501	HONOLULU	HI	96817-3501
			BUSINESS OCCUPANT	1502 LILIHA ST		HONOLULU HI 96817-3525	HONOLULU	HI	96817-3525
			BUSINESS OCCUPANT	1502 LILIHA ST STE 2		HONOLULU HI 96817-3525	HONOLULU	HI	96817-3525
			BUSINESS OCCUPANT	961 AKEPO LN		HONOLULU HI 96817-4503	HONOLULU	HI	96817-4503
			BUSINESS OCCUPANT	958 AKEPO LN STE 1		HONOLULU HI 96817-6502	HONOLULU	HI	96817-6502
			RESIDENT	955 AKEPO LN APT 100		HONOLULU HI 96817-5710	HONOLULU	HI	96817-5710
			RESIDENT	955 AKEPO LN APT 101		HONOLULU HI 96817-5710	HONOLULU	HI	96817-5710
			RESIDENT	955 AKEPO LN APT 102		HONOLULU HI 96817-5710	HONOLULU	HI	96817-5710

			RESIDENT	955 AKEPO LN APT 103		HONOLULU HI 96817-5710	HONOLULU	HI	96817-5710
			RESIDENT	955 AKEPO LN APT 104		HONOLULU HI 96817-5710	HONOLULU	HI	96817-5710
			RESIDENT	955 AKEPO LN APT 105		HONOLULU HI 96817-5710	HONOLULU	HI	96817-5710
			RESIDENT	955 AKEPO LN APT 106		HONOLULU HI 96817-5710	HONOLULU	HI	96817-5710
			RESIDENT	955 AKEPO LN APT 107		HONOLULU HI 96817-5710	HONOLULU	HI	96817-5710
			RESIDENT	955 AKEPO LN APT 108		HONOLULU HI 96817-5710	HONOLULU	HI	96817-5710
			RESIDENT	955 AKEPO LN APT 109		HONOLULU HI 96817-5710	HONOLULU	HI	96817-5710
			RESIDENT	955 AKEPO LN APT 110		HONOLULU HI 96817-5710	HONOLULU	HI	96817-5710
			RESIDENT	955 AKEPO LN APT 111		HONOLULU HI 96817-5717	HONOLULU	HI	96817-5717
			RESIDENT	955 AKEPO LN APT 112		HONOLULU HI 96817-5717	HONOLULU	HI	96817-5717
			RESIDENT	955 AKEPO LN APT 113		HONOLULU HI 96817-5717	HONOLULU	HI	96817-5717
			RESIDENT	955 AKEPO LN APT 114		HONOLULU HI 96817-5717	HONOLULU	HI	96817-5717
			RESIDENT	955 AKEPO LN APT 115		HONOLULU HI 96817-5717	HONOLULU	HI	96817-5717
			RESIDENT	955 AKEPO LN APT 116		HONOLULU HI 96817-5717	HONOLULU	HI	96817-5717
			RESIDENT	955 AKEPO LN APT 117		HONOLULU HI 96817-5717	HONOLULU	HI	96817-5717
			RESIDENT	955 AKEPO LN APT 118		HONOLULU HI 96817-5717	HONOLULU	HI	96817-5717
			RESIDENT	955 AKEPO LN APT 119		HONOLULU HI 96817-5717	HONOLULU	HI	96817-5717
			RESIDENT	955 AKEPO LN APT 120		HONOLULU HI 96817-5717	HONOLULU	HI	96817-5717
			RESIDENT	955 AKEPO LN APT 201		HONOLULU HI 96817-5716	HONOLULU	HI	96817-5716
			RESIDENT	955 AKEPO LN APT 202		HONOLULU HI 96817-5716	HONOLULU	HI	96817-5716
			RESIDENT	955 AKEPO LN APT 203		HONOLULU HI 96817-5716	HONOLULU	HI	96817-5716
			RESIDENT	955 AKEPO LN APT 204		HONOLULU HI 96817-5716	HONOLULU	HI	96817-5716
			RESIDENT	955 AKEPO LN APT 205		HONOLULU HI 96817-5716	HONOLULU	HI	96817-5716
			RESIDENT	955 AKEPO LN APT 206		HONOLULU HI 96817-5716	HONOLULU	HI	96817-5716
			RESIDENT	955 AKEPO LN APT 207		HONOLULU HI 96817-5716	HONOLULU	HI	96817-5716
			RESIDENT	955 AKEPO LN APT 208		HONOLULU HI 96817-5716	HONOLULU	HI	96817-5716
			RESIDENT	955 AKEPO LN APT 209		HONOLULU HI 96817-5716	HONOLULU	HI	96817-5716
			RESIDENT	955 AKEPO LN APT 211		HONOLULU HI 96817-5711	HONOLULU	HI	96817-5711
			RESIDENT	955 AKEPO LN APT 212		HONOLULU HI 96817-5711	HONOLULU	HI	96817-5711
			RESIDENT	955 AKEPO LN APT 213		HONOLULU HI 96817-5711	HONOLULU	HI	96817-5711
			RESIDENT	955 AKEPO LN APT 214		HONOLULU HI 96817-5711	HONOLULU	HI	96817-5711
			RESIDENT	955 AKEPO LN APT 215		HONOLULU HI 96817-5711	HONOLULU	HI	96817-5711
			RESIDENT	955 AKEPO LN APT 216		HONOLULU HI 96817-5711	HONOLULU	HI	96817-5711
			RESIDENT	955 AKEPO LN APT 217		HONOLULU HI 96817-5711	HONOLULU	HI	96817-5711
			RESIDENT	955 AKEPO LN APT 218		HONOLULU HI 96817-5711	HONOLULU	HI	96817-5711
			RESIDENT	955 AKEPO LN APT 219		HONOLULU HI 96817-5711	HONOLULU	HI	96817-5711
			RESIDENT	955 AKEPO LN APT 220		HONOLULU HI 96817-5729	HONOLULU	HI	96817-5729
			RESIDENT	955 AKEPO LN APT 221		HONOLULU HI 96817-5729	HONOLULU	HI	96817-5729
			RESIDENT	955 AKEPO LN APT 222		HONOLULU HI 96817-5729	HONOLULU	HI	96817-5729
			RESIDENT	955 AKEPO LN APT 223		HONOLULU HI 96817-5729	HONOLULU	HI	96817-5729
			RESIDENT	955 AKEPO LN APT 224		HONOLULU HI 96817-5729	HONOLULU	HI	96817-5729
			RESIDENT	955 AKEPO LN APT 225		HONOLULU HI 96817-5729	HONOLULU	HI	96817-5729
			RESIDENT	955 AKEPO LN APT 226		HONOLULU HI 96817-5729	HONOLULU	HI	96817-5729
			RESIDENT	955 AKEPO LN APT 227		HONOLULU HI 96817-5729	HONOLULU	HI	96817-5729
			RESIDENT	955 AKEPO LN APT 228		HONOLULU HI 96817-5729	HONOLULU	HI	96817-5729
			RESIDENT	955 AKEPO LN APT 301		HONOLULU HI 96817-5728	HONOLULU	HI	96817-5728
			RESIDENT	955 AKEPO LN APT 302		HONOLULU HI 96817-5728	HONOLULU	HI	96817-5728
			RESIDENT	955 AKEPO LN APT 303		HONOLULU HI 96817-5728	HONOLULU	HI	96817-5728
			RESIDENT	955 AKEPO LN APT 304		HONOLULU HI 96817-5728	HONOLULU	HI	96817-5728
			RESIDENT	955 AKEPO LN APT 305		HONOLULU HI 96817-5728	HONOLULU	HI	96817-5728
			RESIDENT	955 AKEPO LN APT 306		HONOLULU HI 96817-5728	HONOLULU	HI	96817-5728
			RESIDENT	955 AKEPO LN APT 307		HONOLULU HI 96817-5728	HONOLULU	HI	96817-5728
			RESIDENT	955 AKEPO LN APT 308		HONOLULU HI 96817-5728	HONOLULU	HI	96817-5728
			RESIDENT	955 AKEPO LN APT 309		HONOLULU HI 96817-5728	HONOLULU	HI	96817-5728
			RESIDENT	955 AKEPO LN APT 310		HONOLULU HI 96817-5728	HONOLULU	HI	96817-5728
			RESIDENT	955 AKEPO LN APT 311		HONOLULU HI 96817-5712	HONOLULU	HI	96817-5712
			RESIDENT	955 AKEPO LN APT 312		HONOLULU HI 96817-5712	HONOLULU	HI	96817-5712
			RESIDENT	955 AKEPO LN APT 313		HONOLULU HI 96817-5712	HONOLULU	HI	96817-5712
			RESIDENT	955 AKEPO LN APT 314		HONOLULU HI 96817-5712	HONOLULU	HI	96817-5712
			RESIDENT	955 AKEPO LN APT 315		HONOLULU HI 96817-5712	HONOLULU	HI	96817-5712
			RESIDENT	955 AKEPO LN APT 316		HONOLULU HI 96817-5712	HONOLULU	HI	96817-5712
			RESIDENT	955 AKEPO LN APT 317		HONOLULU HI 96817-5712	HONOLULU	HI	96817-5712
			RESIDENT	955 AKEPO LN APT 318		HONOLULU HI 96817-5712	HONOLULU	HI	96817-5712
			RESIDENT	955 AKEPO LN APT 319		HONOLULU HI 96817-5712	HONOLULU	HI	96817-5712
			RESIDENT	955 AKEPO LN APT 320		HONOLULU HI 96817-5712	HONOLULU	HI	96817-5712
			RESIDENT	955 AKEPO LN APT 321		HONOLULU HI 96817-5732	HONOLULU	HI	96817-5732
			RESIDENT	955 AKEPO LN APT 322		HONOLULU HI 96817-5732	HONOLULU	HI	96817-5732
			RESIDENT	955 AKEPO LN APT 323		HONOLULU HI 96817-5731	HONOLULU	HI	96817-5731
			RESIDENT	955 AKEPO LN APT 324		HONOLULU HI 96817-5731	HONOLULU	HI	96817-5731
			RESIDENT	955 AKEPO LN APT 325		HONOLULU HI 96817-5731	HONOLULU	HI	96817-5731
			RESIDENT	955 AKEPO LN APT 326		HONOLULU HI 96817-5731	HONOLULU	HI	96817-5731
			RESIDENT	955 AKEPO LN APT 327		HONOLULU HI 96817-5731	HONOLULU	HI	96817-5731

			RESIDENT	955 AKEPO LN APT 328		HONOLULU HI 96817-5731	HONOLULU	HI	96817-5731
			RESIDENT	955 AKEPO LN APT 401		HONOLULU HI 96817-5731	HONOLULU	HI	96817-5731
			RESIDENT	955 AKEPO LN APT 402		HONOLULU HI 96817-5731	HONOLULU	HI	96817-5731
			RESIDENT	955 AKEPO LN APT 403		HONOLULU HI 96817-5730	HONOLULU	HI	96817-5730
			RESIDENT	955 AKEPO LN APT 404		HONOLULU HI 96817-5730	HONOLULU	HI	96817-5730
			RESIDENT	955 AKEPO LN APT 405		HONOLULU HI 96817-5730	HONOLULU	HI	96817-5730
			RESIDENT	955 AKEPO LN APT 406		HONOLULU HI 96817-5730	HONOLULU	HI	96817-5730
			RESIDENT	955 AKEPO LN APT 407		HONOLULU HI 96817-5730	HONOLULU	HI	96817-5730
			RESIDENT	955 AKEPO LN APT 409		HONOLULU HI 96817-5730	HONOLULU	HI	96817-5730
			RESIDENT	955 AKEPO LN APT 410		HONOLULU HI 96817-5730	HONOLULU	HI	96817-5730
			RESIDENT	955 AKEPO LN APT 411		HONOLULU HI 96817-5730	HONOLULU	HI	96817-5730
			RESIDENT	955 AKEPO LN APT 412		HONOLULU HI 96817-5730	HONOLULU	HI	96817-5730
			RESIDENT	955 AKEPO LN APT 413		HONOLULU HI 96817-5713	HONOLULU	HI	96817-5713
			RESIDENT	955 AKEPO LN APT 415		HONOLULU HI 96817-5713	HONOLULU	HI	96817-5713
			RESIDENT	955 AKEPO LN APT 416		HONOLULU HI 96817-5713	HONOLULU	HI	96817-5713
			RESIDENT	955 AKEPO LN APT 417		HONOLULU HI 96817-5713	HONOLULU	HI	96817-5713
			RESIDENT	955 AKEPO LN APT 418		HONOLULU HI 96817-5713	HONOLULU	HI	96817-5713
			RESIDENT	955 AKEPO LN APT 419		HONOLULU HI 96817-5713	HONOLULU	HI	96817-5713
			RESIDENT	955 AKEPO LN APT 420		HONOLULU HI 96817-5713	HONOLULU	HI	96817-5713
			RESIDENT	955 AKEPO LN APT 421		HONOLULU HI 96817-5713	HONOLULU	HI	96817-5713
			RESIDENT	955 AKEPO LN APT 422		HONOLULU HI 96817-5713	HONOLULU	HI	96817-5713
			RESIDENT	955 AKEPO LN APT 423		HONOLULU HI 96817-5733	HONOLULU	HI	96817-5733
			RESIDENT	955 AKEPO LN APT 424		HONOLULU HI 96817-5733	HONOLULU	HI	96817-5733
			RESIDENT	955 AKEPO LN APT 425		HONOLULU HI 96817-5733	HONOLULU	HI	96817-5733
			RESIDENT	955 AKEPO LN APT 426		HONOLULU HI 96817-5733	HONOLULU	HI	96817-5733
			RESIDENT	955 AKEPO LN APT 427		HONOLULU HI 96817-5733	HONOLULU	HI	96817-5733
			RESIDENT	955 AKEPO LN APT 428		HONOLULU HI 96817-5733	HONOLULU	HI	96817-5733
			BUSINESS OCCUPANT	949 AKEPO LN STE 1		HONOLULU HI 96817-4503	HONOLULU	HI	96817-4503
			RESIDENT	954 AKEPO LN APT 1		HONOLULU HI 96817-4562	HONOLULU	HI	96817-4562
			RESIDENT	954 AKEPO LN APT 2		HONOLULU HI 96817-4562	HONOLULU	HI	96817-4562
			RESIDENT	954 AKEPO LN APT 3		HONOLULU HI 96817-4562	HONOLULU	HI	96817-4562
			RESIDENT	954 AKEPO LN APT 4		HONOLULU HI 96817-4562	HONOLULU	HI	96817-4562
			RESIDENT	954 AKEPO LN APT 5		HONOLULU HI 96817-4562	HONOLULU	HI	96817-4562
			RESIDENT	954 AKEPO LN APT 6		HONOLULU HI 96817-4563	HONOLULU	HI	96817-4563
			RESIDENT	954 AKEPO LN APT 7		HONOLULU HI 96817-4563	HONOLULU	HI	96817-4563
			RESIDENT	954 AKEPO LN APT 8		HONOLULU HI 96817-4563	HONOLULU	HI	96817-4563
			RESIDENT	954 AKEPO LN APT 9		HONOLULU HI 96817-4563	HONOLULU	HI	96817-4563
			RESIDENT	954 AKEPO LN APT 10		HONOLULU HI 96817-4563	HONOLULU	HI	96817-4563
			RESIDENT	954 AKEPO LN APT 11		HONOLULU HI 96817-4564	HONOLULU	HI	96817-4564
			RESIDENT	954 AKEPO LN APT 12		HONOLULU HI 96817-4564	HONOLULU	HI	96817-4564
			RESIDENT	954 AKEPO LN APT 13		HONOLULU HI 96817-4564	HONOLULU	HI	96817-4564
			RESIDENT	954 AKEPO LN APT 14		HONOLULU HI 96817-4564	HONOLULU	HI	96817-4564
			RESIDENT	954 AKEPO LN APT 15		HONOLULU HI 96817-4564	HONOLULU	HI	96817-4564
			BUSINESS OCCUPANT	944 AKEPO LN STE 1		HONOLULU HI 96817-4588	HONOLULU	HI	96817-4588
			BUSINESS OCCUPANT	944 AKEPO LN STE 2		HONOLULU HI 96817-4588	HONOLULU	HI	96817-4588
			BUSINESS OCCUPANT	944 AKEPO LN STE 3		HONOLULU HI 96817-4588	HONOLULU	HI	96817-4588
			RESIDENT	938 AKEPO LN		HONOLULU HI 96817-4501	HONOLULU	HI	96817-4501
			RESIDENT	942 AKEPO LN		HONOLULU HI 96817-4501	HONOLULU	HI	96817-4501
			RESIDENT	942 AKEPO LN		HONOLULU HI 96817-4501	HONOLULU	HI	96817-4501
			RESIDENT	942 AKEPO LN		HONOLULU HI 96817-4501	HONOLULU	HI	96817-4501
			RESIDENT	942 AKEPO LN		HONOLULU HI 96817-4501	HONOLULU	HI	96817-4501
			RESIDENT	942 AKEPO LN APT C		HONOLULU HI 96817-4501	HONOLULU	HI	96817-4501
			RESIDENT	938 AKEPO LN APT A		HONOLULU HI 96817-5704	HONOLULU	HI	96817-5704
			RESIDENT	938 AKEPO LN APT B		HONOLULU HI 96817-5704	HONOLULU	HI	96817-5704
			RESIDENT	940 AKEPO LN		HONOLULU HI 96817-4501	HONOLULU	HI	96817-4501
			RESIDENT	940 AKEPO LN		HONOLULU HI 96817-4501	HONOLULU	HI	96817-4501
			RESIDENT	940 AKEPO LN		HONOLULU HI 96817-4501	HONOLULU	HI	96817-4501
			RESIDENT	940 AKEPO LN		HONOLULU HI 96817-4501	HONOLULU	HI	96817-4501
			RESIDENT	938 AKEPO LN APT C		HONOLULU HI 96817-5704	HONOLULU	HI	96817-5704
			RESIDENT	938 AKEPO LN APT D		HONOLULU HI 96817-5704	HONOLULU	HI	96817-5704
			BUSINESS OCCUPANT	935 AKEPO LN		HONOLULU HI 96817-4503	HONOLULU	HI	96817-4503
			BUSINESS OCCUPANT	939 AKEPO LN		HONOLULU HI 96817-4503	HONOLULU	HI	96817-4503
			BUSINESS OCCUPANT	935 AKEPO LN STE B1		HONOLULU HI 96817-5770	HONOLULU	HI	96817-5770
			RESIDENT	410 N BERETANIA ST APT 101		HONOLULU HI 96817-4734	HONOLULU	HI	96817-4734
			RESIDENT	410 N BERETANIA ST APT 102		HONOLULU HI 96817-4734	HONOLULU	HI	96817-4734
			RESIDENT	410 N BERETANIA ST APT 103		HONOLULU HI 96817-4734	HONOLULU	HI	96817-4734
			RESIDENT	410 N BERETANIA ST APT 104		HONOLULU HI 96817-4734	HONOLULU	HI	96817-4734
			RESIDENT	410 N BERETANIA ST APT 105		HONOLULU HI 96817-4734	HONOLULU	HI	96817-4734
			RESIDENT	410 N BERETANIA ST APT 201		HONOLULU HI 96817-4734	HONOLULU	HI	96817-4734
			RESIDENT	410 N BERETANIA ST APT 202		HONOLULU HI 96817-4734	HONOLULU	HI	96817-4734
			RESIDENT	410 N BERETANIA ST APT 203		HONOLULU HI 96817-4734	HONOLULU	HI	96817-4734
			RESIDENT	410 N BERETANIA ST APT 204		HONOLULU HI 96817-4734	HONOLULU	HI	96817-4734

			RESIDENT	410 N BERETANIA ST APT 205		HONOLULU HI 96817-4734	HONOLULU	HI	96817-4734
			RESIDENT	410 N BERETANIA ST APT 206		HONOLULU HI 96817-4734	HONOLULU	HI	96817-4734
			RESIDENT	410 N BERETANIA ST APT 207		HONOLULU HI 96817-4734	HONOLULU	HI	96817-4734
			RESIDENT	410 N BERETANIA ST APT 208		HONOLULU HI 96817-4734	HONOLULU	HI	96817-4734
			RESIDENT	410 N BERETANIA ST APT 209		HONOLULU HI 96817-4734	HONOLULU	HI	96817-4734
			RESIDENT	410 N BERETANIA ST APT 210		HONOLULU HI 96817-4734	HONOLULU	HI	96817-4734
			RESIDENT	412 N BERETANIA ST APT 101		HONOLULU HI 96817-4733	HONOLULU	HI	96817-4733
			RESIDENT	412 N BERETANIA ST APT 102		HONOLULU HI 96817-4735	HONOLULU	HI	96817-4735
			RESIDENT	412 N BERETANIA ST APT 103		HONOLULU HI 96817-4735	HONOLULU	HI	96817-4735
			RESIDENT	412 N BERETANIA ST APT 104		HONOLULU HI 96817-4735	HONOLULU	HI	96817-4735
			RESIDENT	412 N BERETANIA ST APT 105		HONOLULU HI 96817-4735	HONOLULU	HI	96817-4735
			RESIDENT	412 N BERETANIA ST APT 106		HONOLULU HI 96817-4735	HONOLULU	HI	96817-4735
			RESIDENT	412 N BERETANIA ST APT 107		HONOLULU HI 96817-4735	HONOLULU	HI	96817-4735
			RESIDENT	412 N BERETANIA ST APT 201		HONOLULU HI 96817-4735	HONOLULU	HI	96817-4735
			RESIDENT	412 N BERETANIA ST APT 202		HONOLULU HI 96817-4735	HONOLULU	HI	96817-4735
			RESIDENT	412 N BERETANIA ST APT 203		HONOLULU HI 96817-4735	HONOLULU	HI	96817-4735
			RESIDENT	412 N BERETANIA ST APT 204		HONOLULU HI 96817-4735	HONOLULU	HI	96817-4735
			RESIDENT	412 N BERETANIA ST APT 205		HONOLULU HI 96817-4735	HONOLULU	HI	96817-4735
			RESIDENT	412 N BERETANIA ST APT 206		HONOLULU HI 96817-4735	HONOLULU	HI	96817-4735
			RESIDENT	412 N BERETANIA ST APT 207		HONOLULU HI 96817-4735	HONOLULU	HI	96817-4735
			RESIDENT	412 N BERETANIA ST APT 208		HONOLULU HI 96817-4735	HONOLULU	HI	96817-4735
			RESIDENT	412 N BERETANIA ST APT 209		HONOLULU HI 96817-4735	HONOLULU	HI	96817-4735
			RESIDENT	412 N BERETANIA ST APT 210		HONOLULU HI 96817-4735	HONOLULU	HI	96817-4735
			RESIDENT	420 N KING ST APT 101		HONOLULU HI 96817-4705	HONOLULU	HI	96817-4705
			RESIDENT	420 N KING ST APT 102		HONOLULU HI 96817-4705	HONOLULU	HI	96817-4705
			RESIDENT	420 N KING ST APT 103		HONOLULU HI 96817-4705	HONOLULU	HI	96817-4705
			RESIDENT	420 N KING ST APT 104		HONOLULU HI 96817-4705	HONOLULU	HI	96817-4705
			RESIDENT	420 N KING ST APT 105		HONOLULU HI 96817-4705	HONOLULU	HI	96817-4705
			RESIDENT	420 N KING ST APT 106		HONOLULU HI 96817-4705	HONOLULU	HI	96817-4705
			RESIDENT	420 N KING ST APT 107		HONOLULU HI 96817-4705	HONOLULU	HI	96817-4705
			RESIDENT	420 N KING ST APT 108		HONOLULU HI 96817-4705	HONOLULU	HI	96817-4705
			RESIDENT	420 N KING ST APT 201		HONOLULU HI 96817-4705	HONOLULU	HI	96817-4705
			RESIDENT	420 N KING ST APT 202		HONOLULU HI 96817-4705	HONOLULU	HI	96817-4705
			RESIDENT	420 N KING ST APT 203		HONOLULU HI 96817-4705	HONOLULU	HI	96817-4705
			RESIDENT	420 N KING ST APT 204		HONOLULU HI 96817-4705	HONOLULU	HI	96817-4705
			RESIDENT	420 N KING ST APT 205		HONOLULU HI 96817-4705	HONOLULU	HI	96817-4705
			RESIDENT	420 N KING ST APT 206		HONOLULU HI 96817-4705	HONOLULU	HI	96817-4705
			RESIDENT	420 N KING ST APT 207		HONOLULU HI 96817-4705	HONOLULU	HI	96817-4705
			RESIDENT	420 N KING ST APT 208		HONOLULU HI 96817-4705	HONOLULU	HI	96817-4705
			RESIDENT	420 N KING ST APT 209		HONOLULU HI 96817-4739	HONOLULU	HI	96817-4739
			RESIDENT	420 N KING ST APT 210		HONOLULU HI 96817-4739	HONOLULU	HI	96817-4739
			RESIDENT	420 N KING ST APT 211		HONOLULU HI 96817-4739	HONOLULU	HI	96817-4739
			RESIDENT	420 N KING ST APT 212		HONOLULU HI 96817-4739	HONOLULU	HI	96817-4739
			RESIDENT	420 N KING ST APT 213		HONOLULU HI 96817-4739	HONOLULU	HI	96817-4739
			RESIDENT	420 N KING ST APT 214		HONOLULU HI 96817-4739	HONOLULU	HI	96817-4739
			RESIDENT	420 N KING ST APT 215		HONOLULU HI 96817-4739	HONOLULU	HI	96817-4739
			RESIDENT	420 N KING ST APT 216		HONOLULU HI 96817-4739	HONOLULU	HI	96817-4739
			RESIDENT	430 N KING ST APT 101		HONOLULU HI 96817-4722	HONOLULU	HI	96817-4722
			RESIDENT	430 N KING ST APT 102		HONOLULU HI 96817-4722	HONOLULU	HI	96817-4722
			RESIDENT	430 N KING ST APT 103		HONOLULU HI 96817-4722	HONOLULU	HI	96817-4722
			RESIDENT	430 N KING ST APT 104		HONOLULU HI 96817-4722	HONOLULU	HI	96817-4722
			RESIDENT	430 N KING ST APT 105		HONOLULU HI 96817-4722	HONOLULU	HI	96817-4722
			RESIDENT	430 N KING ST APT 106		HONOLULU HI 96817-4722	HONOLULU	HI	96817-4722
			RESIDENT	430 N KING ST APT 201		HONOLULU HI 96817-4722	HONOLULU	HI	96817-4722
			RESIDENT	430 N KING ST APT 202		HONOLULU HI 96817-4722	HONOLULU	HI	96817-4722
			RESIDENT	430 N KING ST APT 203		HONOLULU HI 96817-4706	HONOLULU	HI	96817-4706
			RESIDENT	430 N KING ST APT 204		HONOLULU HI 96817-4706	HONOLULU	HI	96817-4706
			RESIDENT	430 N KING ST APT 205		HONOLULU HI 96817-4706	HONOLULU	HI	96817-4706
			RESIDENT	430 N KING ST APT 206		HONOLULU HI 96817-4706	HONOLULU	HI	96817-4706
			RESIDENT	430 N KING ST APT 301		HONOLULU HI 96817-4706	HONOLULU	HI	96817-4706
			RESIDENT	430 N KING ST APT 302		HONOLULU HI 96817-4706	HONOLULU	HI	96817-4706
			RESIDENT	430 N KING ST APT 303		HONOLULU HI 96817-4706	HONOLULU	HI	96817-4706
			RESIDENT	430 N KING ST APT 304		HONOLULU HI 96817-4706	HONOLULU	HI	96817-4706
			RESIDENT	430 N KING ST APT 305		HONOLULU HI 96817-4706	HONOLULU	HI	96817-4706
			RESIDENT	430 N KING ST APT 306		HONOLULU HI 96817-4706	HONOLULU	HI	96817-4706
			RESIDENT	440 N KING ST APT 101		HONOLULU HI 96817-4718	HONOLULU	HI	96817-4718
			RESIDENT	440 N KING ST APT 102		HONOLULU HI 96817-4718	HONOLULU	HI	96817-4718
			RESIDENT	440 N KING ST APT 103		HONOLULU HI 96817-4718	HONOLULU	HI	96817-4718
			RESIDENT	440 N KING ST APT 104		HONOLULU HI 96817-4718	HONOLULU	HI	96817-4718
			RESIDENT	440 N KING ST APT 105		HONOLULU HI 96817-4718	HONOLULU	HI	96817-4718
			RESIDENT	440 N KING ST APT 106		HONOLULU HI 96817-4718	HONOLULU	HI	96817-4718
			RESIDENT	440 N KING ST APT 107		HONOLULU HI 96817-4740	HONOLULU	HI	96817-4740

			RESIDENT	440 N KING ST APT 201		HONOLULU HI 96817-4740	HONOLULU	HI	96817-4740
			RESIDENT	440 N KING ST APT 202		HONOLULU HI 96817-4740	HONOLULU	HI	96817-4740
			RESIDENT	440 N KING ST APT 203		HONOLULU HI 96817-4740	HONOLULU	HI	96817-4740
			RESIDENT	440 N KING ST APT 204		HONOLULU HI 96817-4740	HONOLULU	HI	96817-4740
			RESIDENT	440 N KING ST APT 205		HONOLULU HI 96817-4740	HONOLULU	HI	96817-4740
			RESIDENT	440 N KING ST APT 206		HONOLULU HI 96817-4740	HONOLULU	HI	96817-4740
			RESIDENT	440 N KING ST APT 207		HONOLULU HI 96817-4740	HONOLULU	HI	96817-4740
			RESIDENT	440 N KING ST APT 208		HONOLULU HI 96817-4740	HONOLULU	HI	96817-4740
			RESIDENT	440 N KING ST APT 209		HONOLULU HI 96817-4740	HONOLULU	HI	96817-4740
			RESIDENT	440 N KING ST APT 210		HONOLULU HI 96817-4740	HONOLULU	HI	96817-4740
			RESIDENT	440 N KING ST APT 212		HONOLULU HI 96817-4740	HONOLULU	HI	96817-4740
			RESIDENT	440 N KING ST APT 213		HONOLULU HI 96817-4740	HONOLULU	HI	96817-4740
			RESIDENT	440 N KING ST APT 214		HONOLULU HI 96817-4740	HONOLULU	HI	96817-4740
			RESIDENT	1001 LILIHA ST APT 101		HONOLULU HI 96817-4622	HONOLULU	HI	96817-4622
			RESIDENT	1001 LILIHA ST APT 102		HONOLULU HI 96817-4622	HONOLULU	HI	96817-4622
			RESIDENT	1001 LILIHA ST APT 103		HONOLULU HI 96817-4622	HONOLULU	HI	96817-4622
			RESIDENT	1001 LILIHA ST APT 104		HONOLULU HI 96817-4622	HONOLULU	HI	96817-4622
			RESIDENT	1001 LILIHA ST APT 105		HONOLULU HI 96817-4622	HONOLULU	HI	96817-4622
			RESIDENT	1001 LILIHA ST APT 106		HONOLULU HI 96817-4622	HONOLULU	HI	96817-4622
			RESIDENT	1001 LILIHA ST APT 107		HONOLULU HI 96817-4622	HONOLULU	HI	96817-4622
			RESIDENT	1001 LILIHA ST APT 108		HONOLULU HI 96817-4622	HONOLULU	HI	96817-4622
			RESIDENT	1001 LILIHA ST APT 109		HONOLULU HI 96817-4622	HONOLULU	HI	96817-4622
			RESIDENT	1001 LILIHA ST APT 110		HONOLULU HI 96817-4622	HONOLULU	HI	96817-4622
			RESIDENT	1001 LILIHA ST APT 111		HONOLULU HI 96817-4622	HONOLULU	HI	96817-4622
			RESIDENT	1001 LILIHA ST APT 112		HONOLULU HI 96817-4622	HONOLULU	HI	96817-4622
			RESIDENT	1001 LILIHA ST APT 113		HONOLULU HI 96817-4622	HONOLULU	HI	96817-4622
			RESIDENT	1001 LILIHA ST APT 114		HONOLULU HI 96817-4622	HONOLULU	HI	96817-4622
			RESIDENT	1001 LILIHA ST APT 201		HONOLULU HI 96817-4622	HONOLULU	HI	96817-4622
			RESIDENT	1001 LILIHA ST APT 202		HONOLULU HI 96817-4622	HONOLULU	HI	96817-4622
			RESIDENT	1001 LILIHA ST APT 203		HONOLULU HI 96817-4623	HONOLULU	HI	96817-4623
			RESIDENT	1001 LILIHA ST APT 204		HONOLULU HI 96817-4623	HONOLULU	HI	96817-4623
			RESIDENT	1001 LILIHA ST APT 205		HONOLULU HI 96817-4623	HONOLULU	HI	96817-4623
			RESIDENT	1001 LILIHA ST APT 206		HONOLULU HI 96817-4623	HONOLULU	HI	96817-4623
			RESIDENT	1001 LILIHA ST APT 207		HONOLULU HI 96817-4623	HONOLULU	HI	96817-4623
			RESIDENT	1001 LILIHA ST APT 208		HONOLULU HI 96817-4623	HONOLULU	HI	96817-4623
			RESIDENT	1001 LILIHA ST APT 209		HONOLULU HI 96817-4623	HONOLULU	HI	96817-4623
			RESIDENT	1001 LILIHA ST APT 210		HONOLULU HI 96817-4623	HONOLULU	HI	96817-4623
			RESIDENT	1001 LILIHA ST APT 211		HONOLULU HI 96817-4623	HONOLULU	HI	96817-4623
			RESIDENT	1001 LILIHA ST APT 212		HONOLULU HI 96817-4623	HONOLULU	HI	96817-4623
			RESIDENT	1001 LILIHA ST APT 213		HONOLULU HI 96817-4623	HONOLULU	HI	96817-4623
			RESIDENT	1001 LILIHA ST APT 214		HONOLULU HI 96817-4623	HONOLULU	HI	96817-4623
			RESIDENT	1001 LILIHA ST APT 301		HONOLULU HI 96817-4623	HONOLULU	HI	96817-4623
			RESIDENT	1001 LILIHA ST APT 302		HONOLULU HI 96817-4623	HONOLULU	HI	96817-4623
			RESIDENT	1001 LILIHA ST APT 303		HONOLULU HI 96817-4623	HONOLULU	HI	96817-4623
			RESIDENT	1001 LILIHA ST APT 304		HONOLULU HI 96817-4623	HONOLULU	HI	96817-4623
			RESIDENT	1001 LILIHA ST APT 305		HONOLULU HI 96817-4624	HONOLULU	HI	96817-4624
			RESIDENT	1001 LILIHA ST APT 306		HONOLULU HI 96817-4624	HONOLULU	HI	96817-4624
			RESIDENT	1001 LILIHA ST APT 307		HONOLULU HI 96817-4624	HONOLULU	HI	96817-4624
			RESIDENT	1001 LILIHA ST APT 308		HONOLULU HI 96817-4624	HONOLULU	HI	96817-4624
			RESIDENT	1001 LILIHA ST APT 309		HONOLULU HI 96817-4624	HONOLULU	HI	96817-4624
			RESIDENT	1001 LILIHA ST APT 310		HONOLULU HI 96817-4624	HONOLULU	HI	96817-4624
			RESIDENT	1001 LILIHA ST APT 311		HONOLULU HI 96817-4624	HONOLULU	HI	96817-4624
			RESIDENT	1001 LILIHA ST APT 312		HONOLULU HI 96817-4624	HONOLULU	HI	96817-4624
			RESIDENT	1001 LILIHA ST APT 313		HONOLULU HI 96817-4624	HONOLULU	HI	96817-4624
			RESIDENT	1001 LILIHA ST APT 314		HONOLULU HI 96817-4624	HONOLULU	HI	96817-4624
			RESIDENT	1101 LILIHA ST APT 101		HONOLULU HI 96817-4694	HONOLULU	HI	96817-4694
			BUSINESS OCCUPANT	1101 LILIHA ST APT 102		HONOLULU HI 96817-4694	HONOLULU	HI	96817-4694
			RESIDENT	1101 LILIHA ST APT 103		HONOLULU HI 96817-4694	HONOLULU	HI	96817-4694
			RESIDENT	1101 LILIHA ST APT 104		HONOLULU HI 96817-4694	HONOLULU	HI	96817-4694
			RESIDENT	1101 LILIHA ST APT 105		HONOLULU HI 96817-4694	HONOLULU	HI	96817-4694
			RESIDENT	1101 LILIHA ST APT 106		HONOLULU HI 96817-4694	HONOLULU	HI	96817-4694
			RESIDENT	1101 LILIHA ST APT 107		HONOLULU HI 96817-4629	HONOLULU	HI	96817-4629
			RESIDENT	1101 LILIHA ST APT 108		HONOLULU HI 96817-4629	HONOLULU	HI	96817-4629
			RESIDENT	1101 LILIHA ST APT 109		HONOLULU HI 96817-4629	HONOLULU	HI	96817-4629
			RESIDENT	1101 LILIHA ST APT 110		HONOLULU HI 96817-4629	HONOLULU	HI	96817-4629
			RESIDENT	1101 LILIHA ST APT 111		HONOLULU HI 96817-4629	HONOLULU	HI	96817-4629
			RESIDENT	1101 LILIHA ST APT 201		HONOLULU HI 96817-4629	HONOLULU	HI	96817-4629
			RESIDENT	1101 LILIHA ST APT 202		HONOLULU HI 96817-4629	HONOLULU	HI	96817-4629
			RESIDENT	1101 LILIHA ST APT 203		HONOLULU HI 96817-4629	HONOLULU	HI	96817-4629
			RESIDENT	1101 LILIHA ST APT 204		HONOLULU HI 96817-4629	HONOLULU	HI	96817-4629
			RESIDENT	1101 LILIHA ST APT 205		HONOLULU HI 96817-4629	HONOLULU	HI	96817-4629
			RESIDENT	1101 LILIHA ST APT 206		HONOLULU HI 96817-4629	HONOLULU	HI	96817-4629

			RESIDENT	1101 LILIHA ST APT 207		HONOLULU HI 96817-4629	HONOLULU	HI	96817-4629
			RESIDENT	1101 LILIHA ST APT 209		HONOLULU HI 96817-4629	HONOLULU	HI	96817-4629
			RESIDENT	1101 LILIHA ST APT 210		HONOLULU HI 96817-4629	HONOLULU	HI	96817-4629
			RESIDENT	1101 LILIHA ST APT 211		HONOLULU HI 96817-4629	HONOLULU	HI	96817-4629
			RESIDENT	1101 LILIHA ST APT 212		HONOLULU HI 96817-4661	HONOLULU	HI	96817-4661
			RESIDENT	1101 LILIHA ST APT 213		HONOLULU HI 96817-4661	HONOLULU	HI	96817-4661
			RESIDENT	1101 LILIHA ST APT 214		HONOLULU HI 96817-4661	HONOLULU	HI	96817-4661
			RESIDENT	1103 LILIHA ST APT 101		HONOLULU HI 96817-4632	HONOLULU	HI	96817-4632
			BUSINESS OCCUPANT	1103 LILIHA ST APT 102		HONOLULU HI 96817-4632	HONOLULU	HI	96817-4632
			RESIDENT	1103 LILIHA ST APT 103		HONOLULU HI 96817-4632	HONOLULU	HI	96817-4632
			RESIDENT	1103 LILIHA ST APT 201		HONOLULU HI 96817-4632	HONOLULU	HI	96817-4632
			RESIDENT	1103 LILIHA ST APT 202		HONOLULU HI 96817-4632	HONOLULU	HI	96817-4632
			RESIDENT	1103 LILIHA ST APT 203		HONOLULU HI 96817-4632	HONOLULU	HI	96817-4632
			RESIDENT	1103 LILIHA ST APT 204		HONOLULU HI 96817-4632	HONOLULU	HI	96817-4632
			RESIDENT	1103 LILIHA ST APT 205		HONOLULU HI 96817-4632	HONOLULU	HI	96817-4632
			RESIDENT	1103 LILIHA ST APT 206		HONOLULU HI 96817-4632	HONOLULU	HI	96817-4632
			BUSINESS OCCUPANT	408 N BERETANIA ST		HONOLULU HI 96817-4728	HONOLULU	HI	96817-4728
			RESIDENT	1105 LILIHA ST APT 101		HONOLULU HI 96817-4636	HONOLULU	HI	96817-4636
			RESIDENT	1105 LILIHA ST APT 102		HONOLULU HI 96817-4636	HONOLULU	HI	96817-4636
			RESIDENT	1105 LILIHA ST APT 201		HONOLULU HI 96817-4636	HONOLULU	HI	96817-4636
			RESIDENT	1105 LILIHA ST APT 202		HONOLULU HI 96817-4636	HONOLULU	HI	96817-4636
			RESIDENT	1105 LILIHA ST APT 203		HONOLULU HI 96817-4636	HONOLULU	HI	96817-4636
			RESIDENT	1105 LILIHA ST APT 204		HONOLULU HI 96817-4636	HONOLULU	HI	96817-4636
			RESIDENT	1107 LILIHA ST APT 101		HONOLULU HI 96817-4664	HONOLULU	HI	96817-4664
			RESIDENT	1107 LILIHA ST APT 102		HONOLULU HI 96817-4664	HONOLULU	HI	96817-4664
			RESIDENT	1107 LILIHA ST APT 103		HONOLULU HI 96817-4664	HONOLULU	HI	96817-4664
			RESIDENT	1107 LILIHA ST APT 104		HONOLULU HI 96817-4664	HONOLULU	HI	96817-4664
			RESIDENT	1107 LILIHA ST APT 105		HONOLULU HI 96817-4664	HONOLULU	HI	96817-4664
			RESIDENT	1107 LILIHA ST APT 106		HONOLULU HI 96817-4664	HONOLULU	HI	96817-4664
			RESIDENT	1107 LILIHA ST APT 107		HONOLULU HI 96817-4664	HONOLULU	HI	96817-4664
			RESIDENT	1107 LILIHA ST APT 108		HONOLULU HI 96817-4664	HONOLULU	HI	96817-4664
			RESIDENT	1107 LILIHA ST APT 109		HONOLULU HI 96817-4664	HONOLULU	HI	96817-4664
			RESIDENT	1107 LILIHA ST APT 201		HONOLULU HI 96817-4664	HONOLULU	HI	96817-4664
			RESIDENT	1107 LILIHA ST APT 202		HONOLULU HI 96817-4638	HONOLULU	HI	96817-4638
			RESIDENT	1107 LILIHA ST APT 203		HONOLULU HI 96817-4638	HONOLULU	HI	96817-4638
			RESIDENT	1107 LILIHA ST APT 204		HONOLULU HI 96817-4638	HONOLULU	HI	96817-4638
			RESIDENT	1107 LILIHA ST APT 205		HONOLULU HI 96817-4638	HONOLULU	HI	96817-4638
			RESIDENT	1107 LILIHA ST APT 206		HONOLULU HI 96817-4638	HONOLULU	HI	96817-4638
			RESIDENT	1107 LILIHA ST APT 207		HONOLULU HI 96817-4638	HONOLULU	HI	96817-4638
			RESIDENT	1107 LILIHA ST APT 208		HONOLULU HI 96817-4638	HONOLULU	HI	96817-4638
			RESIDENT	1107 LILIHA ST APT 209		HONOLULU HI 96817-4638	HONOLULU	HI	96817-4638
			RESIDENT	1107 LILIHA ST APT 210		HONOLULU HI 96817-4638	HONOLULU	HI	96817-4638
			RESIDENT	1107 LILIHA ST APT 211		HONOLULU HI 96817-4638	HONOLULU	HI	96817-4638
			RESIDENT	1107 LILIHA ST APT 212		HONOLULU HI 96817-4638	HONOLULU	HI	96817-4638
			RESIDENT	1107 LILIHA ST APT 213		HONOLULU HI 96817-4638	HONOLULU	HI	96817-4638
			RESIDENT	1107 LILIHA ST APT 214		HONOLULU HI 96817-4638	HONOLULU	HI	96817-4638
			RESIDENT	1201 LILIHA ST APT 101		HONOLULU HI 96817-4696	HONOLULU	HI	96817-4696
			RESIDENT	1201 LILIHA ST APT 102		HONOLULU HI 96817-4696	HONOLULU	HI	96817-4696
			RESIDENT	1201 LILIHA ST APT 103		HONOLULU HI 96817-4696	HONOLULU	HI	96817-4696
			RESIDENT	1201 LILIHA ST APT 104		HONOLULU HI 96817-4642	HONOLULU	HI	96817-4642
			RESIDENT	1201 LILIHA ST APT 105		HONOLULU HI 96817-4642	HONOLULU	HI	96817-4642
			RESIDENT	1201 LILIHA ST APT 201		HONOLULU HI 96817-4642	HONOLULU	HI	96817-4642
			RESIDENT	1201 LILIHA ST APT 202		HONOLULU HI 96817-4642	HONOLULU	HI	96817-4642
			RESIDENT	1201 LILIHA ST APT 203		HONOLULU HI 96817-4642	HONOLULU	HI	96817-4642
			RESIDENT	1201 LILIHA ST APT 204		HONOLULU HI 96817-4642	HONOLULU	HI	96817-4642
			RESIDENT	1201 LILIHA ST APT 205		HONOLULU HI 96817-4642	HONOLULU	HI	96817-4642
			RESIDENT	1201 LILIHA ST APT 206		HONOLULU HI 96817-4642	HONOLULU	HI	96817-4642
			RESIDENT	1201 LILIHA ST APT 207		HONOLULU HI 96817-4642	HONOLULU	HI	96817-4642
			RESIDENT	1201 LILIHA ST APT 208		HONOLULU HI 96817-4642	HONOLULU	HI	96817-4642
			RESIDENT	1201 LILIHA ST APT 209		HONOLULU HI 96817-4642	HONOLULU	HI	96817-4642
			RESIDENT	1201 LILIHA ST APT 210		HONOLULU HI 96817-4642	HONOLULU	HI	96817-4642
			RESIDENT	1203 LILIHA ST APT 101		HONOLULU HI 96817-4677	HONOLULU	HI	96817-4677
			RESIDENT	1203 LILIHA ST APT 102		HONOLULU HI 96817-4677	HONOLULU	HI	96817-4677
			RESIDENT	1203 LILIHA ST APT 103		HONOLULU HI 96817-4677	HONOLULU	HI	96817-4677
			RESIDENT	1203 LILIHA ST APT 104		HONOLULU HI 96817-4677	HONOLULU	HI	96817-4677
			RESIDENT	1203 LILIHA ST APT 201		HONOLULU HI 96817-4668	HONOLULU	HI	96817-4668
			RESIDENT	1203 LILIHA ST APT 202		HONOLULU HI 96817-4668	HONOLULU	HI	96817-4668
			RESIDENT	1203 LILIHA ST APT 203		HONOLULU HI 96817-4668	HONOLULU	HI	96817-4668
			RESIDENT	1203 LILIHA ST APT 204		HONOLULU HI 96817-4668	HONOLULU	HI	96817-4668
			RESIDENT	1205 LILIHA ST APT 101		HONOLULU HI 96817-4645	HONOLULU	HI	96817-4645
			RESIDENT	1205 LILIHA ST APT 102		HONOLULU HI 96817-4645	HONOLULU	HI	96817-4645
			RESIDENT	1205 LILIHA ST APT 103		HONOLULU HI 96817-4645	HONOLULU	HI	96817-4645

			RESIDENT	1205 LILIHA ST APT 104		HONOLULU HI 96817-4645	HONOLULU	HI	96817-4645
			RESIDENT	1205 LILIHA ST APT 105		HONOLULU HI 96817-4645	HONOLULU	HI	96817-4645
			RESIDENT	1205 LILIHA ST APT 106		HONOLULU HI 96817-4645	HONOLULU	HI	96817-4645
			RESIDENT	1205 LILIHA ST APT 202		HONOLULU HI 96817-4645	HONOLULU	HI	96817-4645
			RESIDENT	1205 LILIHA ST APT 203		HONOLULU HI 96817-4645	HONOLULU	HI	96817-4645
			RESIDENT	1205 LILIHA ST APT 204		HONOLULU HI 96817-4645	HONOLULU	HI	96817-4645
			RESIDENT	1205 LILIHA ST APT 205		HONOLULU HI 96817-4645	HONOLULU	HI	96817-4645
			RESIDENT	1205 LILIHA ST APT 206		HONOLULU HI 96817-4645	HONOLULU	HI	96817-4645
			RESIDENT	1205 LILIHA ST APT 207		HONOLULU HI 96817-4669	HONOLULU	HI	96817-4669
			RESIDENT	1205 LILIHA ST APT 208		HONOLULU HI 96817-4669	HONOLULU	HI	96817-4669
			RESIDENT	1207 LILIHA ST APT 101		HONOLULU HI 96817-4646	HONOLULU	HI	96817-4646
			RESIDENT	1207 LILIHA ST APT 102		HONOLULU HI 96817-4646	HONOLULU	HI	96817-4646
			RESIDENT	1207 LILIHA ST APT 103		HONOLULU HI 96817-4646	HONOLULU	HI	96817-4646
			RESIDENT	1207 LILIHA ST APT 104		HONOLULU HI 96817-4646	HONOLULU	HI	96817-4646
			RESIDENT	1207 LILIHA ST APT 105		HONOLULU HI 96817-4646	HONOLULU	HI	96817-4646
			RESIDENT	1207 LILIHA ST APT 106		HONOLULU HI 96817-4646	HONOLULU	HI	96817-4646
			RESIDENT	1207 LILIHA ST APT 107		HONOLULU HI 96817-4646	HONOLULU	HI	96817-4646
			RESIDENT	1207 LILIHA ST APT 108		HONOLULU HI 96817-4646	HONOLULU	HI	96817-4646
			RESIDENT	1207 LILIHA ST APT 201		HONOLULU HI 96817-4646	HONOLULU	HI	96817-4646
			RESIDENT	1207 LILIHA ST APT 202		HONOLULU HI 96817-4646	HONOLULU	HI	96817-4646
			RESIDENT	1207 LILIHA ST APT 203		HONOLULU HI 96817-4646	HONOLULU	HI	96817-4646
			RESIDENT	1207 LILIHA ST APT 204		HONOLULU HI 96817-4646	HONOLULU	HI	96817-4646
			RESIDENT	1207 LILIHA ST APT 205		HONOLULU HI 96817-4646	HONOLULU	HI	96817-4646
			RESIDENT	1207 LILIHA ST APT 206		HONOLULU HI 96817-4646	HONOLULU	HI	96817-4646
			RESIDENT	1207 LILIHA ST APT 207		HONOLULU HI 96817-4679	HONOLULU	HI	96817-4679
			RESIDENT	1207 LILIHA ST APT 208		HONOLULU HI 96817-4679	HONOLULU	HI	96817-4679
			RESIDENT	1207 LILIHA ST APT 209		HONOLULU HI 96817-4679	HONOLULU	HI	96817-4679
			RESIDENT	1207 LILIHA ST APT 210		HONOLULU HI 96817-4679	HONOLULU	HI	96817-4679
			BUSINESS OCCUPANT	1226 COLLEGE WALK		HONOLULU HI 96817-3946	HONOLULU	HI	96817-3946
			RESIDENT	1012 AULD LN		HONOLULU HI 96817-3415	HONOLULU	HI	96817-3415
			RESIDENT	1018 AULD LN		HONOLULU HI 96817-3415	HONOLULU	HI	96817-3415
			RESIDENT	1017 AULD LN		HONOLULU HI 96817-3416	HONOLULU	HI	96817-3416
			RESIDENT	1102 AULD LN		HONOLULU HI 96817-3417	HONOLULU	HI	96817-3417
			RESIDENT	1103 AULD LN		HONOLULU HI 96817-3418	HONOLULU	HI	96817-3418
			RESIDENT	1114 AULD LN		HONOLULU HI 96817-3417	HONOLULU	HI	96817-3417
			RESIDENT	1106 AULD LN APT A		HONOLULU HI 96817-3497	HONOLULU	HI	96817-3497
			RESIDENT	1106 AULD LN APT B		HONOLULU HI 96817-3497	HONOLULU	HI	96817-3497
			RESIDENT	1106 AULD LN APT C		HONOLULU HI 96817-3497	HONOLULU	HI	96817-3497
			RESIDENT	1106 AULD LN APT D		HONOLULU HI 96817-3497	HONOLULU	HI	96817-3497
			RESIDENT	1009 RAWLINS LN		HONOLULU HI 96817-3457	HONOLULU	HI	96817-3457
			RESIDENT	1008 RAWLINS LN		HONOLULU HI 96817-3457	HONOLULU	HI	96817-3457
			RESIDENT	1008 RAWLINS LN		HONOLULU HI 96817-3457	HONOLULU	HI	96817-3457
			RESIDENT	1010 RAWLINS LN APT A		HONOLULU HI 96817-3499	HONOLULU	HI	96817-3499
			RESIDENT	1010 RAWLINS LN APT B		HONOLULU HI 96817-3499	HONOLULU	HI	96817-3499
			RESIDENT	1010 RAWLINS LN APT C		HONOLULU HI 96817-3499	HONOLULU	HI	96817-3499
			RESIDENT	1010 RAWLINS LN APT D		HONOLULU HI 96817-3499	HONOLULU	HI	96817-3499
			RESIDENT	1010 RAWLINS LN APT G		HONOLULU HI 96817-3499	HONOLULU	HI	96817-3499
			RESIDENT	1010 RAWLINS LN APT H		HONOLULU HI 96817-3499	HONOLULU	HI	96817-3499
			RESIDENT	1010 RAWLINS LN APT N		HONOLULU HI 96817-3499	HONOLULU	HI	96817-3499
			RESIDENT	1010 RAWLINS LN APT O		HONOLULU HI 96817-3499	HONOLULU	HI	96817-3499
			RESIDENT	1010 RAWLINS LN APT P		HONOLULU HI 96817-3499	HONOLULU	HI	96817-3499
			RESIDENT	1010 RAWLINS LN APT Q		HONOLULU HI 96817-3499	HONOLULU	HI	96817-3499
			RESIDENT	1010 RAWLINS LN APT R		HONOLULU HI 96817-3499	HONOLULU	HI	96817-3499
			RESIDENT	1010 RAWLINS LN APT S		HONOLULU HI 96817-3499	HONOLULU	HI	96817-3499
			RESIDENT	1010 RAWLINS LN APT T		HONOLULU HI 96817-3447	HONOLULU	HI	96817-3447
			RESIDENT	1010 RAWLINS LN APT U		HONOLULU HI 96817-3499	HONOLULU	HI	96817-3499
			RESIDENT	1123 AULD LN		HONOLULU HI 96817-3418	HONOLULU	HI	96817-3418
			RESIDENT	1124 AULD LN		HONOLULU HI 96817-3417	HONOLULU	HI	96817-3417
			RESIDENT	1128 AULD LN		HONOLULU HI 96817-3417	HONOLULU	HI	96817-3417
			RESIDENT	1128 AULD LN		HONOLULU HI 96817-3417	HONOLULU	HI	96817-3417
			RESIDENT	1128 AULD LN		HONOLULU HI 96817-3417	HONOLULU	HI	96817-3417
			RESIDENT	1202 AULD LN		HONOLULU HI 96817-3419	HONOLULU	HI	96817-3419
			RESIDENT	1202 AULD LN		HONOLULU HI 96817-3419	HONOLULU	HI	96817-3419
			RESIDENT	1202 AULD LN		HONOLULU HI 96817-3419	HONOLULU	HI	96817-3419
			RESIDENT	1203 AULD LN		HONOLULU HI 96817-3420	HONOLULU	HI	96817-3420
			RESIDENT	1207 AULD LN		HONOLULU HI 96817-3420	HONOLULU	HI	96817-3420
			RESIDENT	1240 AULD LN APT H		HONOLULU HI 96817-6425	HONOLULU	HI	96817-6425
			RESIDENT	1214 AULD LN APT B		HONOLULU HI 96817-3419	HONOLULU	HI	96817-3419
			RESIDENT	1240 AULD LN APT E		HONOLULU HI 96817-6425	HONOLULU	HI	96817-6425
			RESIDENT	1210 AULD LN APT D		HONOLULU HI 96817-6426	HONOLULU	HI	96817-6426
			RESIDENT	1210 AULD LN APT D1		HONOLULU HI 96817-6426	HONOLULU	HI	96817-6426
			RESIDENT	1240 AULD LN APT C		HONOLULU HI 96817-6425	HONOLULU	HI	96817-6425

			RESIDENT	1210 AULD LN APT A		HONOLULU HI 96817-6426	HONOLULU	HI	96817-6426
			RESIDENT	1209 AULD LN		HONOLULU HI 96817-3420	HONOLULU	HI	96817-3420
			RESIDENT	1211 AULD LN		HONOLULU HI 96817-3420	HONOLULU	HI	96817-3420
			RESIDENT	1221 AULD LN		HONOLULU HI 96817-3420	HONOLULU	HI	96817-3420
			RESIDENT	1226 AULD LN		HONOLULU HI 96817-3419	HONOLULU	HI	96817-3419
			RESIDENT	1222 AULD LN		HONOLULU HI 96817-3419	HONOLULU	HI	96817-3419
			RESIDENT	1217 IAO LN		HONOLULU HI 96817-5509	HONOLULU	HI	96817-5509
			RESIDENT	1225 IAO LN		HONOLULU HI 96817-5509	HONOLULU	HI	96817-5509
			RESIDENT	927 OLOMEA ST		HONOLULU HI 96817-3458	HONOLULU	HI	96817-3458
			RESIDENT	913 OLOMEA ST		HONOLULU HI 96817-3458	HONOLULU	HI	96817-3458
			RESIDENT	1310 PALAMA ST		HONOLULU HI 96817-3451	HONOLULU	HI	96817-3451
			RESIDENT	1306 PALAMA ST		HONOLULU HI 96817-3451	HONOLULU	HI	96817-3451
			BUSINESS OCCUPANT	1311 PALAMA ST		HONOLULU HI 96817-3400	HONOLULU	HI	96817-3400
			BUSINESS OCCUPANT	1420 PALAMA ST		HONOLULU HI 96817-3491	HONOLULU	HI	96817-3491
			RESIDENT	934 HALONA ST		HONOLULU HI 96817-2933	HONOLULU	HI	96817-2933
			RESIDENT	934 HALONA ST		HONOLULU HI 96817-2933	HONOLULU	HI	96817-2933
			RESIDENT	938 HALONA ST APT D		HONOLULU HI 96817-2957	HONOLULU	HI	96817-2957
			RESIDENT	938 HALONA ST APT C		HONOLULU HI 96817-2957	HONOLULU	HI	96817-2957
			RESIDENT	938 HALONA ST APT B		HONOLULU HI 96817-2957	HONOLULU	HI	96817-2957
			RESIDENT	938 HALONA ST APT A		HONOLULU HI 96817-2957	HONOLULU	HI	96817-2957
			RESIDENT	946 HALONA ST		HONOLULU HI 96817-2933	HONOLULU	HI	96817-2933
			RESIDENT	950 HALONA ST		HONOLULU HI 96817-2933	HONOLULU	HI	96817-2933
			RESIDENT	960 HALONA ST		HONOLULU HI 96817-2933	HONOLULU	HI	96817-2933
			RESIDENT	1465 AALA ST APT 101		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 102		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 103		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 104		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 105		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 106		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 107		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 201		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 202		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 203		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 204		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 205		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 206		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 207		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 208		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 301		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 302		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 303		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 304		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 305		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 306		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 307		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 308		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 401		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 402		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 403		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 404		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 405		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 406		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 407		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 408		HONOLULU HI 96817-3607	HONOLULU	HI	96817-3607
			RESIDENT	1465 AALA ST APT 501		HONOLULU HI 96817-3628	HONOLULU	HI	96817-3628
			RESIDENT	1465 AALA ST APT 502		HONOLULU HI 96817-3628	HONOLULU	HI	96817-3628
			RESIDENT	1465 AALA ST APT 503		HONOLULU HI 96817-3628	HONOLULU	HI	96817-3628
			RESIDENT	1465 AALA ST APT 504		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 505		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 506		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 507		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 508		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 601		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 602		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 603		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 604		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 605		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 606		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 607		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 608		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 701		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 702		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600

			RESIDENT	1465 AALA ST APT 703		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 704		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 705		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 706		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 707		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 708		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 801		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 802		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 803		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 804		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 805		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 806		HONOLULU HI 96817-3600	HONOLULU	HI	96817-3600
			RESIDENT	1465 AALA ST APT 807		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 808		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 901		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 902		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 903		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 904		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 2203		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 906		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 907		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 908		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 1001		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 1002		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 1003		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 1004		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 1005		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 1006		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 1007		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 1008		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 1101		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 1102		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 1103		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 1104		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 1105		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 1106		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 1107		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 1108		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 1201		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			RESIDENT	1465 AALA ST APT 1202		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1203		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1204		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1205		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1206		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1207		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1208		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1401		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1402		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1403		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1404		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1405		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1406		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1407		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1408		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1501		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1502		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1503		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1504		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1505		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1506		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1507		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1508		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1601		HONOLULU HI 96817-3609	HONOLULU	HI	96817-3609
			RESIDENT	1465 AALA ST APT 1602		HONOLULU HI 96817-3640	HONOLULU	HI	96817-3640
			RESIDENT	1465 AALA ST APT 1603		HONOLULU HI 96817-3640	HONOLULU	HI	96817-3640
			RESIDENT	1465 AALA ST APT 1604		HONOLULU HI 96817-3640	HONOLULU	HI	96817-3640
			RESIDENT	1465 AALA ST APT 1605		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1606		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1607		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1608		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1701		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1702		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620

			RESIDENT	1465 AALA ST APT 1704		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1705		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1706		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1707		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1708		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1801		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1802		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1803		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1804		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1805		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1806		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1807		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1808		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1901		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1902		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1903		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1904		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1905		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1906		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1907		HONOLULU HI 96817-3620	HONOLULU	HI	96817-3620
			RESIDENT	1465 AALA ST APT 1908		HONOLULU HI 96817-3641	HONOLULU	HI	96817-3641
			RESIDENT	1465 AALA ST APT 2001		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2002		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2003		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2004		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2005		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2006		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2007		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2008		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2101		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2102		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2103		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2104		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2105		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2106		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2107		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2108		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2201		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2202		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2204		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2205		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2206		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2207		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2208		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2301		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2302		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2303		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2304		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2305		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2306		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2307		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 2308		HONOLULU HI 96817-3610	HONOLULU	HI	96817-3610
			RESIDENT	1465 AALA ST APT 1703		HONOLULU HI 96817-3643	HONOLULU	HI	96817-3643
			RESIDENT	1465 AALA ST APT 905		HONOLULU HI 96817-3608	HONOLULU	HI	96817-3608
			BUSINESS OCCUPANT	1486 AALA ST		HONOLULU HI 96817-3601	HONOLULU	HI	96817-3601
			RESIDENT	1450 AALA ST APT 201		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 202		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 203		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 204		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 205		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 206		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 301		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 302		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 303		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 304		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 305		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 306		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 401		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 402		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 403		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 404		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 405		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603

			RESIDENT	1450 AALA ST APT 406		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 501		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 503		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 504		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 505		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 506		HONOLULU HI 96817-3603	HONOLULU	HI	96817-3603
			RESIDENT	1450 AALA ST APT 601		HONOLULU HI 96817-3625	HONOLULU	HI	96817-3625
			RESIDENT	1450 AALA ST APT 602		HONOLULU HI 96817-3625	HONOLULU	HI	96817-3625
			RESIDENT	1450 AALA ST APT 603		HONOLULU HI 96817-3625	HONOLULU	HI	96817-3625
			RESIDENT	1450 AALA ST APT 604		HONOLULU HI 96817-3625	HONOLULU	HI	96817-3625
			RESIDENT	1450 AALA ST APT 605		HONOLULU HI 96817-3625	HONOLULU	HI	96817-3625
			RESIDENT	1450 AALA ST APT 606		HONOLULU HI 96817-3625	HONOLULU	HI	96817-3625
			RESIDENT	1450 AALA ST APT 701		HONOLULU HI 96817-3625	HONOLULU	HI	96817-3625
			RESIDENT	1450 AALA ST APT 702		HONOLULU HI 96817-3625	HONOLULU	HI	96817-3625
			RESIDENT	1450 AALA ST APT 703		HONOLULU HI 96817-3625	HONOLULU	HI	96817-3625
			RESIDENT	1450 AALA ST APT 704		HONOLULU HI 96817-3625	HONOLULU	HI	96817-3625
			RESIDENT	1450 AALA ST APT 705		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 706		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 801		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 802		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 803		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 804		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 805		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 806		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 901		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 902		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 903		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 904		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 905		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 906		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 1001		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 1002		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 1003		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 1004		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 1005		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 1006		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 1101		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 1102		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 1103		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 1104		HONOLULU HI 96817-3630	HONOLULU	HI	96817-3630
			RESIDENT	1450 AALA ST APT 1105		HONOLULU HI 96817-3626	HONOLULU	HI	96817-3626
			RESIDENT	1450 AALA ST APT 1106		HONOLULU HI 96817-3626	HONOLULU	HI	96817-3626
			RESIDENT	1450 AALA ST APT 1201		HONOLULU HI 96817-3626	HONOLULU	HI	96817-3626
			RESIDENT	1450 AALA ST APT 1202		HONOLULU HI 96817-3626	HONOLULU	HI	96817-3626
			RESIDENT	1450 AALA ST APT 1203		HONOLULU HI 96817-3626	HONOLULU	HI	96817-3626
			RESIDENT	1450 AALA ST APT 1204		HONOLULU HI 96817-3626	HONOLULU	HI	96817-3626
			RESIDENT	1450 AALA ST APT 1205		HONOLULU HI 96817-3626	HONOLULU	HI	96817-3626
			RESIDENT	1450 AALA ST APT 1206		HONOLULU HI 96817-3626	HONOLULU	HI	96817-3626
			RESIDENT	1450 AALA ST APT 1401		HONOLULU HI 96817-3626	HONOLULU	HI	96817-3626
			RESIDENT	1450 AALA ST APT 1402		HONOLULU HI 96817-3626	HONOLULU	HI	96817-3626
			RESIDENT	1450 AALA ST APT 1403		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1404		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1405		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1406		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1501		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1502		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1503		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1504		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1505		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1506		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1601		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1602		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1603		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1604		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1605		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1606		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1701		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1702		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1703		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1704		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1705		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1706		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631

			RESIDENT	1450 AALA ST APT 1801		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1802		HONOLULU HI 96817-3631	HONOLULU	HI	96817-3631
			RESIDENT	1450 AALA ST APT 1803		HONOLULU HI 96817-3627	HONOLULU	HI	96817-3627
			RESIDENT	1450 AALA ST APT 1804		HONOLULU HI 96817-3627	HONOLULU	HI	96817-3627
			RESIDENT	1450 AALA ST APT 1805		HONOLULU HI 96817-3627	HONOLULU	HI	96817-3627
			RESIDENT	1450 AALA ST APT 1806		HONOLULU HI 96817-3627	HONOLULU	HI	96817-3627
			RESIDENT	1450 AALA ST APT 1901		HONOLULU HI 96817-3627	HONOLULU	HI	96817-3627
			RESIDENT	1450 AALA ST APT 1902		HONOLULU HI 96817-3627	HONOLULU	HI	96817-3627
			RESIDENT	1450 AALA ST APT 1903		HONOLULU HI 96817-3627	HONOLULU	HI	96817-3627
			RESIDENT	1450 AALA ST APT 1904		HONOLULU HI 96817-3627	HONOLULU	HI	96817-3627
			RESIDENT	1450 AALA ST APT 1905		HONOLULU HI 96817-3627	HONOLULU	HI	96817-3627
			RESIDENT	1450 AALA ST APT 2001		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2002		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2003		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2004		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2005		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2006		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2101		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2102		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2103		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2104		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2105		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2106		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2201		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2202		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2203		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2204		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2205		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2206		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2301		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2302		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2303		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2304		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2305		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			RESIDENT	1450 AALA ST APT 2306		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			BUSINESS OCCUPANT	1450 AALA ST STE 100		HONOLULU HI 96817-3606	HONOLULU	HI	96817-3606
			BUSINESS OCCUPANT	675 N KING ST STE 200		HONOLULU HI 96817-4526	HONOLULU	HI	96817-4526
			RESIDENT	675 N KING ST APT 300		HONOLULU HI 96817-4526	HONOLULU	HI	96817-4526
			BUSINESS OCCUPANT	663 N KING ST		HONOLULU HI 96817-4510	HONOLULU	HI	96817-4510
			BUSINESS OCCUPANT	580 N KING ST		HONOLULU HI 96817-4603	HONOLULU	HI	96817-4603
			BUSINESS OCCUPANT	582 N KING ST		HONOLULU HI 96817-4603	HONOLULU	HI	96817-4603
			BUSINESS OCCUPANT	590 N KING ST		HONOLULU HI 96817-4603	HONOLULU	HI	96817-4603
			BUSINESS OCCUPANT	594 N KING ST		HONOLULU HI 96817-4603	HONOLULU	HI	96817-4603
			BUSINESS OCCUPANT	594 N KING ST		HONOLULU HI 96817-4603	HONOLULU	HI	96817-4603
			RESIDENT	607 N KING ST APT 100		HONOLULU HI 96817-5718	HONOLULU	HI	96817-5718
			RESIDENT	607 N KING ST APT 102		HONOLULU HI 96817-5718	HONOLULU	HI	96817-5718
			RESIDENT	607 N KING ST APT 103		HONOLULU HI 96817-5718	HONOLULU	HI	96817-5718
			RESIDENT	607 N KING ST APT 104		HONOLULU HI 96817-5718	HONOLULU	HI	96817-5718
			RESIDENT	607 N KING ST APT 105		HONOLULU HI 96817-5718	HONOLULU	HI	96817-5718
			RESIDENT	607 N KING ST APT 107		HONOLULU HI 96817-5718	HONOLULU	HI	96817-5718
			RESIDENT	607 N KING ST APT 108		HONOLULU HI 96817-5718	HONOLULU	HI	96817-5718
			RESIDENT	607 N KING ST APT 109		HONOLULU HI 96817-5718	HONOLULU	HI	96817-5718
			RESIDENT	607 N KING ST APT 110		HONOLULU HI 96817-5734	HONOLULU	HI	96817-5734
			RESIDENT	607 N KING ST APT 111		HONOLULU HI 96817-5734	HONOLULU	HI	96817-5734
			RESIDENT	607 N KING ST APT 112		HONOLULU HI 96817-5734	HONOLULU	HI	96817-5734
			RESIDENT	607 N KING ST APT 113		HONOLULU HI 96817-5705	HONOLULU	HI	96817-5705
			RESIDENT	607 N KING ST APT 114		HONOLULU HI 96817-5734	HONOLULU	HI	96817-5734
			RESIDENT	607 N KING ST APT 115		HONOLULU HI 96817-5734	HONOLULU	HI	96817-5734
			RESIDENT	607 N KING ST APT 116		HONOLULU HI 96817-5734	HONOLULU	HI	96817-5734
			RESIDENT	607 N KING ST APT 117		HONOLULU HI 96817-5734	HONOLULU	HI	96817-5734
			RESIDENT	607 N KING ST APT 118		HONOLULU HI 96817-5734	HONOLULU	HI	96817-5734
			RESIDENT	607 N KING ST APT 119		HONOLULU HI 96817-5734	HONOLULU	HI	96817-5734
			RESIDENT	607 N KING ST APT 120		HONOLULU HI 96817-5735	HONOLULU	HI	96817-5735
			RESIDENT	607 N KING ST APT 121		HONOLULU HI 96817-5735	HONOLULU	HI	96817-5735
			RESIDENT	607 N KING ST APT 122		HONOLULU HI 96817-5735	HONOLULU	HI	96817-5735
			RESIDENT	607 N KING ST APT 124		HONOLULU HI 96817-5735	HONOLULU	HI	96817-5735
			RESIDENT	607 N KING ST APT 125		HONOLULU HI 96817-5735	HONOLULU	HI	96817-5735
			RESIDENT	607 N KING ST APT 126		HONOLULU HI 96817-5735	HONOLULU	HI	96817-5735
			RESIDENT	607 N KING ST APT 127		HONOLULU HI 96817-5735	HONOLULU	HI	96817-5735
			RESIDENT	607 N KING ST APT 128		HONOLULU HI 96817-5735	HONOLULU	HI	96817-5735
			RESIDENT	607 N KING ST APT 129		HONOLULU HI 96817-5735	HONOLULU	HI	96817-5735
			RESIDENT	607 N KING ST APT 130		HONOLULU HI 96817-5736	HONOLULU	HI	96817-5736

			RESIDENT	607 N KING ST APT 131		HONOLULU HI 96817-5719	HONOLULU	HI	96817-5719
			RESIDENT	607 N KING ST APT 132		HONOLULU HI 96817-5719	HONOLULU	HI	96817-5719
			RESIDENT	607 N KING ST APT 133		HONOLULU HI 96817-5719	HONOLULU	HI	96817-5719
			RESIDENT	607 N KING ST APT 134		HONOLULU HI 96817-5719	HONOLULU	HI	96817-5719
			RESIDENT	607 N KING ST APT 135		HONOLULU HI 96817-5719	HONOLULU	HI	96817-5719
			RESIDENT	607 N KING ST APT 136		HONOLULU HI 96817-5719	HONOLULU	HI	96817-5719
			RESIDENT	607 N KING ST APT 137		HONOLULU HI 96817-5719	HONOLULU	HI	96817-5719
			RESIDENT	607 N KING ST APT 138		HONOLULU HI 96817-5719	HONOLULU	HI	96817-5719
			RESIDENT	607 N KING ST APT 141		HONOLULU HI 96817-5739	HONOLULU	HI	96817-5739
			RESIDENT	607 N KING ST APT 200		HONOLULU HI 96817-5738	HONOLULU	HI	96817-5738
			RESIDENT	607 N KING ST APT 201		HONOLULU HI 96817-5738	HONOLULU	HI	96817-5738
			RESIDENT	607 N KING ST APT 202		HONOLULU HI 96817-5738	HONOLULU	HI	96817-5738
			RESIDENT	607 N KING ST APT 203		HONOLULU HI 96817-5738	HONOLULU	HI	96817-5738
			RESIDENT	607 N KING ST APT 204		HONOLULU HI 96817-5738	HONOLULU	HI	96817-5738
			RESIDENT	607 N KING ST APT 205		HONOLULU HI 96817-5738	HONOLULU	HI	96817-5738
			RESIDENT	607 N KING ST APT 206		HONOLULU HI 96817-5738	HONOLULU	HI	96817-5738
			RESIDENT	607 N KING ST APT 208		HONOLULU HI 96817-5738	HONOLULU	HI	96817-5738
			RESIDENT	607 N KING ST APT 209		HONOLULU HI 96817-5738	HONOLULU	HI	96817-5738
			RESIDENT	607 N KING ST APT 210		HONOLULU HI 96817-5737	HONOLULU	HI	96817-5737
			RESIDENT	607 N KING ST APT 211		HONOLULU HI 96817-5737	HONOLULU	HI	96817-5737
			RESIDENT	607 N KING ST APT 212		HONOLULU HI 96817-5737	HONOLULU	HI	96817-5737
			RESIDENT	607 N KING ST APT 213		HONOLULU HI 96817-5737	HONOLULU	HI	96817-5737
			RESIDENT	607 N KING ST APT 214		HONOLULU HI 96817-5737	HONOLULU	HI	96817-5737
			RESIDENT	607 N KING ST APT 215		HONOLULU HI 96817-5737	HONOLULU	HI	96817-5737
			RESIDENT	607 N KING ST APT 216		HONOLULU HI 96817-5737	HONOLULU	HI	96817-5737
			RESIDENT	607 N KING ST APT 217		HONOLULU HI 96817-5737	HONOLULU	HI	96817-5737
			RESIDENT	607 N KING ST APT 218		HONOLULU HI 96817-5737	HONOLULU	HI	96817-5737
			RESIDENT	607 N KING ST APT 219		HONOLULU HI 96817-5737	HONOLULU	HI	96817-5737
			RESIDENT	607 N KING ST APT 220		HONOLULU HI 96817-5720	HONOLULU	HI	96817-5720
			RESIDENT	607 N KING ST APT 221		HONOLULU HI 96817-5720	HONOLULU	HI	96817-5720
			RESIDENT	607 N KING ST APT 222		HONOLULU HI 96817-5720	HONOLULU	HI	96817-5720
			RESIDENT	607 N KING ST APT 223		HONOLULU HI 96817-5720	HONOLULU	HI	96817-5720
			RESIDENT	607 N KING ST APT 224		HONOLULU HI 96817-5720	HONOLULU	HI	96817-5720
			RESIDENT	607 N KING ST APT 225		HONOLULU HI 96817-5720	HONOLULU	HI	96817-5720
			RESIDENT	607 N KING ST APT 226		HONOLULU HI 96817-5720	HONOLULU	HI	96817-5720
			RESIDENT	607 N KING ST APT 227		HONOLULU HI 96817-5720	HONOLULU	HI	96817-5720
			RESIDENT	607 N KING ST APT 228		HONOLULU HI 96817-5720	HONOLULU	HI	96817-5720
			RESIDENT	607 N KING ST APT 229		HONOLULU HI 96817-5720	HONOLULU	HI	96817-5720
			RESIDENT	607 N KING ST APT 230		HONOLULU HI 96817-5740	HONOLULU	HI	96817-5740
			RESIDENT	607 N KING ST APT 231		HONOLULU HI 96817-5740	HONOLULU	HI	96817-5740
			RESIDENT	607 N KING ST APT 232		HONOLULU HI 96817-5740	HONOLULU	HI	96817-5740
			RESIDENT	607 N KING ST APT 233		HONOLULU HI 96817-5740	HONOLULU	HI	96817-5740
			RESIDENT	607 N KING ST APT 234		HONOLULU HI 96817-5740	HONOLULU	HI	96817-5740
			RESIDENT	607 N KING ST APT 235		HONOLULU HI 96817-5740	HONOLULU	HI	96817-5740
			RESIDENT	607 N KING ST APT 236		HONOLULU HI 96817-5740	HONOLULU	HI	96817-5740
			RESIDENT	607 N KING ST APT 237		HONOLULU HI 96817-5740	HONOLULU	HI	96817-5740
			RESIDENT	607 N KING ST APT 238		HONOLULU HI 96817-5740	HONOLULU	HI	96817-5740
			RESIDENT	607 N KING ST APT 239		HONOLULU HI 96817-5740	HONOLULU	HI	96817-5740
			RESIDENT	607 N KING ST APT 240		HONOLULU HI 96817-5741	HONOLULU	HI	96817-5741
			RESIDENT	607 N KING ST APT 241		HONOLULU HI 96817-5741	HONOLULU	HI	96817-5741
			RESIDENT	607 N KING ST APT 242		HONOLULU HI 96817-5741	HONOLULU	HI	96817-5741
			RESIDENT	607 N KING ST APT 243		HONOLULU HI 96817-5741	HONOLULU	HI	96817-5741
			RESIDENT	607 N KING ST APT 244		HONOLULU HI 96817-5741	HONOLULU	HI	96817-5741
			RESIDENT	607 N KING ST APT 245		HONOLULU HI 96817-5741	HONOLULU	HI	96817-5741
			RESIDENT	607 N KING ST APT 246		HONOLULU HI 96817-5741	HONOLULU	HI	96817-5741
			RESIDENT	607 N KING ST APT 247		HONOLULU HI 96817-5741	HONOLULU	HI	96817-5741
			RESIDENT	607 N KING ST APT 248		HONOLULU HI 96817-5741	HONOLULU	HI	96817-5741
			RESIDENT	607 N KING ST APT 249		HONOLULU HI 96817-5721	HONOLULU	HI	96817-5721
			RESIDENT	607 N KING ST APT 250		HONOLULU HI 96817-5721	HONOLULU	HI	96817-5721
			RESIDENT	607 N KING ST APT 251		HONOLULU HI 96817-5721	HONOLULU	HI	96817-5721
			RESIDENT	607 N KING ST APT 252		HONOLULU HI 96817-5721	HONOLULU	HI	96817-5721
			RESIDENT	607 N KING ST APT 253		HONOLULU HI 96817-5721	HONOLULU	HI	96817-5721
			RESIDENT	607 N KING ST APT 254		HONOLULU HI 96817-5721	HONOLULU	HI	96817-5721
			RESIDENT	607 N KING ST APT 255		HONOLULU HI 96817-5721	HONOLULU	HI	96817-5721
			RESIDENT	607 N KING ST APT 256		HONOLULU HI 96817-5721	HONOLULU	HI	96817-5721
			RESIDENT	607 N KING ST APT 257		HONOLULU HI 96817-5721	HONOLULU	HI	96817-5721
			RESIDENT	607 N KING ST APT 258		HONOLULU HI 96817-5721	HONOLULU	HI	96817-5721
			RESIDENT	607 N KING ST APT 259		HONOLULU HI 96817-5707	HONOLULU	HI	96817-5707
			RESIDENT	607 N KING ST APT 260		HONOLULU HI 96817-5746	HONOLULU	HI	96817-5746
			RESIDENT	607 N KING ST APT 261		HONOLULU HI 96817-5746	HONOLULU	HI	96817-5746
			RESIDENT	607 N KING ST APT 262		HONOLULU HI 96817-5746	HONOLULU	HI	96817-5746
			RESIDENT	607 N KING ST APT 263		HONOLULU HI 96817-5746	HONOLULU	HI	96817-5746

			RESIDENT	607 N KING ST APT 264		HONOLULU HI 96817-5746	HONOLULU	HI	96817-5746
			RESIDENT	607 N KING ST APT 265		HONOLULU HI 96817-5746	HONOLULU	HI	96817-5746
			RESIDENT	607 N KING ST APT 266		HONOLULU HI 96817-5746	HONOLULU	HI	96817-5746
			RESIDENT	607 N KING ST APT 267		HONOLULU HI 96817-5746	HONOLULU	HI	96817-5746
			RESIDENT	607 N KING ST APT 268		HONOLULU HI 96817-5746	HONOLULU	HI	96817-5746
			RESIDENT	607 N KING ST APT 269		HONOLULU HI 96817-5746	HONOLULU	HI	96817-5746
			RESIDENT	607 N KING ST APT 271		HONOLULU HI 96817-5745	HONOLULU	HI	96817-5745
			RESIDENT	607 N KING ST APT 272		HONOLULU HI 96817-5745	HONOLULU	HI	96817-5745
			RESIDENT	607 N KING ST APT 273		HONOLULU HI 96817-5745	HONOLULU	HI	96817-5745
			RESIDENT	607 N KING ST APT 275		HONOLULU HI 96817-5745	HONOLULU	HI	96817-5745
			RESIDENT	607 N KING ST APT 277		HONOLULU HI 96817-5745	HONOLULU	HI	96817-5745
			RESIDENT	607 N KING ST APT 279		HONOLULU HI 96817-5745	HONOLULU	HI	96817-5745
			RESIDENT	607 N KING ST APT 281		HONOLULU HI 96817-5744	HONOLULU	HI	96817-5744
			RESIDENT	607 N KING ST APT 283		HONOLULU HI 96817-5762	HONOLULU	HI	96817-5762
			RESIDENT	607 N KING ST APT 285		HONOLULU HI 96817-5762	HONOLULU	HI	96817-5762
			RESIDENT	607 N KING ST APT 287		HONOLULU HI 96817-5762	HONOLULU	HI	96817-5762
			RESIDENT	607 N KING ST APT 289		HONOLULU HI 96817-5762	HONOLULU	HI	96817-5762
			RESIDENT	607 N KING ST APT 300		HONOLULU HI 96817-5722	HONOLULU	HI	96817-5722
			RESIDENT	607 N KING ST APT 301		HONOLULU HI 96817-5722	HONOLULU	HI	96817-5722
			RESIDENT	607 N KING ST APT 302		HONOLULU HI 96817-5722	HONOLULU	HI	96817-5722
			RESIDENT	607 N KING ST APT 303		HONOLULU HI 96817-5722	HONOLULU	HI	96817-5722
			RESIDENT	607 N KING ST APT 304		HONOLULU HI 96817-5722	HONOLULU	HI	96817-5722
			RESIDENT	607 N KING ST APT 305		HONOLULU HI 96817-5722	HONOLULU	HI	96817-5722
			RESIDENT	607 N KING ST APT 306		HONOLULU HI 96817-5722	HONOLULU	HI	96817-5722
			RESIDENT	607 N KING ST APT 307		HONOLULU HI 96817-5722	HONOLULU	HI	96817-5722
			RESIDENT	607 N KING ST APT 308		HONOLULU HI 96817-5722	HONOLULU	HI	96817-5722
			RESIDENT	607 N KING ST APT 309		HONOLULU HI 96817-5722	HONOLULU	HI	96817-5722
			RESIDENT	607 N KING ST APT 310		HONOLULU HI 96817-5743	HONOLULU	HI	96817-5743
			RESIDENT	607 N KING ST APT 311		HONOLULU HI 96817-5743	HONOLULU	HI	96817-5743
			RESIDENT	607 N KING ST APT 312		HONOLULU HI 96817-5743	HONOLULU	HI	96817-5743
			RESIDENT	607 N KING ST APT 313		HONOLULU HI 96817-5743	HONOLULU	HI	96817-5743
			RESIDENT	607 N KING ST APT 314		HONOLULU HI 96817-5743	HONOLULU	HI	96817-5743
			RESIDENT	607 N KING ST APT 315		HONOLULU HI 96817-5743	HONOLULU	HI	96817-5743
			RESIDENT	607 N KING ST APT 316		HONOLULU HI 96817-5743	HONOLULU	HI	96817-5743
			RESIDENT	607 N KING ST APT 317		HONOLULU HI 96817-5743	HONOLULU	HI	96817-5743
			RESIDENT	607 N KING ST APT 318		HONOLULU HI 96817-5743	HONOLULU	HI	96817-5743
			RESIDENT	607 N KING ST APT 319		HONOLULU HI 96817-5743	HONOLULU	HI	96817-5743
			RESIDENT	607 N KING ST APT 320		HONOLULU HI 96817-5742	HONOLULU	HI	96817-5742
			RESIDENT	607 N KING ST APT 321		HONOLULU HI 96817-5742	HONOLULU	HI	96817-5742
			RESIDENT	607 N KING ST APT 322		HONOLULU HI 96817-5742	HONOLULU	HI	96817-5742
			RESIDENT	607 N KING ST APT 323		HONOLULU HI 96817-5742	HONOLULU	HI	96817-5742
			RESIDENT	607 N KING ST APT 324		HONOLULU HI 96817-5742	HONOLULU	HI	96817-5742
			RESIDENT	607 N KING ST APT 325		HONOLULU HI 96817-5761	HONOLULU	HI	96817-5761
			RESIDENT	607 N KING ST APT 326		HONOLULU HI 96817-5761	HONOLULU	HI	96817-5761
			RESIDENT	607 N KING ST APT 327		HONOLULU HI 96817-5761	HONOLULU	HI	96817-5761
			RESIDENT	607 N KING ST APT 328		HONOLULU HI 96817-5761	HONOLULU	HI	96817-5761
			RESIDENT	607 N KING ST APT 329		HONOLULU HI 96817-5761	HONOLULU	HI	96817-5761
			RESIDENT	607 N KING ST APT 330		HONOLULU HI 96817-5723	HONOLULU	HI	96817-5723
			RESIDENT	607 N KING ST APT 331		HONOLULU HI 96817-5723	HONOLULU	HI	96817-5723
			RESIDENT	607 N KING ST APT 332		HONOLULU HI 96817-5723	HONOLULU	HI	96817-5723
			RESIDENT	607 N KING ST APT 333		HONOLULU HI 96817-5723	HONOLULU	HI	96817-5723
			RESIDENT	607 N KING ST APT 334		HONOLULU HI 96817-5723	HONOLULU	HI	96817-5723
			RESIDENT	607 N KING ST APT 335		HONOLULU HI 96817-5723	HONOLULU	HI	96817-5723
			RESIDENT	607 N KING ST APT 336		HONOLULU HI 96817-5723	HONOLULU	HI	96817-5723
			RESIDENT	607 N KING ST APT 337		HONOLULU HI 96817-5723	HONOLULU	HI	96817-5723
			RESIDENT	607 N KING ST APT 338		HONOLULU HI 96817-5723	HONOLULU	HI	96817-5723
			RESIDENT	607 N KING ST APT 339		HONOLULU HI 96817-5723	HONOLULU	HI	96817-5723
			RESIDENT	607 N KING ST APT 340		HONOLULU HI 96817-5748	HONOLULU	HI	96817-5748
			RESIDENT	607 N KING ST APT 341		HONOLULU HI 96817-5748	HONOLULU	HI	96817-5748
			RESIDENT	607 N KING ST APT 342		HONOLULU HI 96817-5748	HONOLULU	HI	96817-5748
			RESIDENT	607 N KING ST APT 343		HONOLULU HI 96817-5748	HONOLULU	HI	96817-5748
			RESIDENT	607 N KING ST APT 344		HONOLULU HI 96817-5748	HONOLULU	HI	96817-5748
			RESIDENT	607 N KING ST APT 345		HONOLULU HI 96817-5748	HONOLULU	HI	96817-5748
			RESIDENT	607 N KING ST APT 346		HONOLULU HI 96817-5748	HONOLULU	HI	96817-5748
			RESIDENT	607 N KING ST APT 347		HONOLULU HI 96817-5748	HONOLULU	HI	96817-5748
			RESIDENT	607 N KING ST APT 348		HONOLULU HI 96817-5748	HONOLULU	HI	96817-5748
			RESIDENT	607 N KING ST APT 349		HONOLULU HI 96817-5748	HONOLULU	HI	96817-5748
			RESIDENT	607 N KING ST APT 350		HONOLULU HI 96817-5747	HONOLULU	HI	96817-5747
			RESIDENT	607 N KING ST APT 351		HONOLULU HI 96817-5747	HONOLULU	HI	96817-5747
			RESIDENT	607 N KING ST APT 352		HONOLULU HI 96817-5747	HONOLULU	HI	96817-5747
			RESIDENT	607 N KING ST APT 353		HONOLULU HI 96817-5747	HONOLULU	HI	96817-5747
			RESIDENT	607 N KING ST APT 354		HONOLULU HI 96817-5747	HONOLULU	HI	96817-5747

			RESIDENT	607 N KING ST APT 355		HONOLULU HI 96817-5747	HONOLULU	HI	96817-5747
			RESIDENT	607 N KING ST APT 356		HONOLULU HI 96817-5752	HONOLULU	HI	96817-5752
			RESIDENT	607 N KING ST APT 357		HONOLULU HI 96817-5752	HONOLULU	HI	96817-5752
			RESIDENT	607 N KING ST APT 358		HONOLULU HI 96817-5752	HONOLULU	HI	96817-5752
			RESIDENT	607 N KING ST APT 359		HONOLULU HI 96817-5752	HONOLULU	HI	96817-5752
			RESIDENT	607 N KING ST APT 360		HONOLULU HI 96817-5724	HONOLULU	HI	96817-5724
			RESIDENT	607 N KING ST APT 361		HONOLULU HI 96817-5724	HONOLULU	HI	96817-5724
			RESIDENT	607 N KING ST APT 362		HONOLULU HI 96817-5724	HONOLULU	HI	96817-5724
			RESIDENT	607 N KING ST APT 363		HONOLULU HI 96817-5724	HONOLULU	HI	96817-5724
			RESIDENT	607 N KING ST APT 364		HONOLULU HI 96817-5724	HONOLULU	HI	96817-5724
			RESIDENT	607 N KING ST APT 365		HONOLULU HI 96817-5724	HONOLULU	HI	96817-5724
			RESIDENT	607 N KING ST APT 366		HONOLULU HI 96817-5724	HONOLULU	HI	96817-5724
			RESIDENT	607 N KING ST APT 367		HONOLULU HI 96817-5724	HONOLULU	HI	96817-5724
			RESIDENT	607 N KING ST APT 368		HONOLULU HI 96817-5724	HONOLULU	HI	96817-5724
			RESIDENT	607 N KING ST APT 369		HONOLULU HI 96817-5724	HONOLULU	HI	96817-5724
			RESIDENT	607 N KING ST APT 370		HONOLULU HI 96817-5751	HONOLULU	HI	96817-5751
			RESIDENT	607 N KING ST APT 371		HONOLULU HI 96817-5751	HONOLULU	HI	96817-5751
			RESIDENT	607 N KING ST APT 372		HONOLULU HI 96817-5751	HONOLULU	HI	96817-5751
			RESIDENT	607 N KING ST APT 373		HONOLULU HI 96817-5751	HONOLULU	HI	96817-5751
			RESIDENT	607 N KING ST APT 375		HONOLULU HI 96817-5751	HONOLULU	HI	96817-5751
			RESIDENT	607 N KING ST APT 377		HONOLULU HI 96817-5751	HONOLULU	HI	96817-5751
			RESIDENT	607 N KING ST APT 379		HONOLULU HI 96817-5751	HONOLULU	HI	96817-5751
			RESIDENT	607 N KING ST APT 381		HONOLULU HI 96817-5750	HONOLULU	HI	96817-5750
			RESIDENT	607 N KING ST APT 383		HONOLULU HI 96817-5750	HONOLULU	HI	96817-5750
			RESIDENT	607 N KING ST APT 385		HONOLULU HI 96817-5750	HONOLULU	HI	96817-5750
			RESIDENT	607 N KING ST APT 387		HONOLULU HI 96817-5750	HONOLULU	HI	96817-5750
			RESIDENT	607 N KING ST APT 389		HONOLULU HI 96817-5750	HONOLULU	HI	96817-5750
			RESIDENT	607 N KING ST APT 400		HONOLULU HI 96817-5749	HONOLULU	HI	96817-5749
			RESIDENT	607 N KING ST APT 401		HONOLULU HI 96817-5749	HONOLULU	HI	96817-5749
			RESIDENT	607 N KING ST APT 402		HONOLULU HI 96817-5749	HONOLULU	HI	96817-5749
			RESIDENT	607 N KING ST APT 403		HONOLULU HI 96817-5755	HONOLULU	HI	96817-5755
			RESIDENT	607 N KING ST APT 404		HONOLULU HI 96817-5755	HONOLULU	HI	96817-5755
			RESIDENT	607 N KING ST APT 405		HONOLULU HI 96817-5755	HONOLULU	HI	96817-5755
			RESIDENT	607 N KING ST APT 407		HONOLULU HI 96817-5755	HONOLULU	HI	96817-5755
			RESIDENT	607 N KING ST APT 408		HONOLULU HI 96817-5755	HONOLULU	HI	96817-5755
			RESIDENT	607 N KING ST APT 409		HONOLULU HI 96817-5755	HONOLULU	HI	96817-5755
			RESIDENT	607 N KING ST APT 410		HONOLULU HI 96817-5725	HONOLULU	HI	96817-5725
			RESIDENT	607 N KING ST APT 411		HONOLULU HI 96817-5725	HONOLULU	HI	96817-5725
			RESIDENT	607 N KING ST APT 412		HONOLULU HI 96817-5725	HONOLULU	HI	96817-5725
			RESIDENT	607 N KING ST APT 413		HONOLULU HI 96817-5725	HONOLULU	HI	96817-5725
			RESIDENT	607 N KING ST APT 414		HONOLULU HI 96817-5725	HONOLULU	HI	96817-5725
			RESIDENT	607 N KING ST APT 415		HONOLULU HI 96817-5725	HONOLULU	HI	96817-5725
			RESIDENT	607 N KING ST APT 416		HONOLULU HI 96817-5725	HONOLULU	HI	96817-5725
			RESIDENT	607 N KING ST APT 417		HONOLULU HI 96817-5725	HONOLULU	HI	96817-5725
			RESIDENT	607 N KING ST APT 418		HONOLULU HI 96817-5725	HONOLULU	HI	96817-5725
			RESIDENT	607 N KING ST APT 419		HONOLULU HI 96817-5725	HONOLULU	HI	96817-5725
			RESIDENT	607 N KING ST APT 420		HONOLULU HI 96817-5754	HONOLULU	HI	96817-5754
			RESIDENT	607 N KING ST APT 421		HONOLULU HI 96817-5754	HONOLULU	HI	96817-5754
			RESIDENT	607 N KING ST APT 422		HONOLULU HI 96817-5754	HONOLULU	HI	96817-5754
			RESIDENT	607 N KING ST APT 423		HONOLULU HI 96817-5754	HONOLULU	HI	96817-5754
			RESIDENT	607 N KING ST APT 424		HONOLULU HI 96817-5754	HONOLULU	HI	96817-5754
			RESIDENT	607 N KING ST APT 425		HONOLULU HI 96817-5754	HONOLULU	HI	96817-5754
			RESIDENT	607 N KING ST APT 426		HONOLULU HI 96817-5754	HONOLULU	HI	96817-5754
			RESIDENT	607 N KING ST APT 427		HONOLULU HI 96817-5754	HONOLULU	HI	96817-5754
			RESIDENT	607 N KING ST APT 428		HONOLULU HI 96817-5754	HONOLULU	HI	96817-5754
			RESIDENT	607 N KING ST APT 429		HONOLULU HI 96817-5754	HONOLULU	HI	96817-5754
			RESIDENT	607 N KING ST APT 431		HONOLULU HI 96817-5753	HONOLULU	HI	96817-5753
			RESIDENT	607 N KING ST APT 432		HONOLULU HI 96817-5753	HONOLULU	HI	96817-5753
			RESIDENT	607 N KING ST APT 433		HONOLULU HI 96817-5767	HONOLULU	HI	96817-5767
			RESIDENT	607 N KING ST APT 434		HONOLULU HI 96817-5767	HONOLULU	HI	96817-5767
			RESIDENT	607 N KING ST APT 435		HONOLULU HI 96817-5756	HONOLULU	HI	96817-5756
			RESIDENT	607 N KING ST APT 436		HONOLULU HI 96817-5756	HONOLULU	HI	96817-5756
			RESIDENT	607 N KING ST APT 437		HONOLULU HI 96817-5756	HONOLULU	HI	96817-5756
			RESIDENT	607 N KING ST APT 438		HONOLULU HI 96817-5756	HONOLULU	HI	96817-5756
			RESIDENT	607 N KING ST APT 439		HONOLULU HI 96817-5756	HONOLULU	HI	96817-5756
			RESIDENT	607 N KING ST APT 440		HONOLULU HI 96817-5726	HONOLULU	HI	96817-5726
			RESIDENT	607 N KING ST APT 441		HONOLULU HI 96817-5726	HONOLULU	HI	96817-5726
			RESIDENT	607 N KING ST APT 442		HONOLULU HI 96817-5726	HONOLULU	HI	96817-5726
			RESIDENT	607 N KING ST APT 443		HONOLULU HI 96817-5726	HONOLULU	HI	96817-5726
			RESIDENT	607 N KING ST APT 444		HONOLULU HI 96817-5726	HONOLULU	HI	96817-5726
			RESIDENT	607 N KING ST APT 445		HONOLULU HI 96817-5708	HONOLULU	HI	96817-5708
			RESIDENT	607 N KING ST APT 446		HONOLULU HI 96817-5708	HONOLULU	HI	96817-5708

			RESIDENT	607 N KING ST APT 447		HONOLULU HI 96817-5708	HONOLULU	HI	96817-5708
			RESIDENT	607 N KING ST APT 448		HONOLULU HI 96817-5708	HONOLULU	HI	96817-5708
			RESIDENT	607 N KING ST APT 449		HONOLULU HI 96817-5708	HONOLULU	HI	96817-5708
			RESIDENT	607 N KING ST APT 450		HONOLULU HI 96817-5757	HONOLULU	HI	96817-5757
			RESIDENT	607 N KING ST APT 451		HONOLULU HI 96817-5757	HONOLULU	HI	96817-5757
			RESIDENT	607 N KING ST APT 452		HONOLULU HI 96817-5757	HONOLULU	HI	96817-5757
			RESIDENT	607 N KING ST APT 453		HONOLULU HI 96817-5757	HONOLULU	HI	96817-5757
			RESIDENT	607 N KING ST APT 454		HONOLULU HI 96817-5757	HONOLULU	HI	96817-5757
			RESIDENT	607 N KING ST APT 455		HONOLULU HI 96817-5757	HONOLULU	HI	96817-5757
			RESIDENT	607 N KING ST APT 456		HONOLULU HI 96817-5757	HONOLULU	HI	96817-5757
			RESIDENT	607 N KING ST APT 457		HONOLULU HI 96817-5757	HONOLULU	HI	96817-5757
			RESIDENT	607 N KING ST APT 458		HONOLULU HI 96817-5757	HONOLULU	HI	96817-5757
			RESIDENT	607 N KING ST APT 459		HONOLULU HI 96817-5757	HONOLULU	HI	96817-5757
			RESIDENT	607 N KING ST APT 460		HONOLULU HI 96817-5758	HONOLULU	HI	96817-5758
			RESIDENT	607 N KING ST APT 461		HONOLULU HI 96817-5758	HONOLULU	HI	96817-5758
			RESIDENT	607 N KING ST APT 462		HONOLULU HI 96817-5760	HONOLULU	HI	96817-5760
			RESIDENT	607 N KING ST APT 463		HONOLULU HI 96817-5760	HONOLULU	HI	96817-5760
			RESIDENT	607 N KING ST APT 464		HONOLULU HI 96817-5760	HONOLULU	HI	96817-5760
			RESIDENT	607 N KING ST APT 465		HONOLULU HI 96817-5760	HONOLULU	HI	96817-5760
			RESIDENT	607 N KING ST APT 466		HONOLULU HI 96817-5760	HONOLULU	HI	96817-5760
			RESIDENT	607 N KING ST APT 467		HONOLULU HI 96817-5760	HONOLULU	HI	96817-5760
			RESIDENT	607 N KING ST APT 468		HONOLULU HI 96817-5760	HONOLULU	HI	96817-5760
			RESIDENT	607 N KING ST APT 469		HONOLULU HI 96817-5760	HONOLULU	HI	96817-5760
			RESIDENT	607 N KING ST APT 470		HONOLULU HI 96817-5727	HONOLULU	HI	96817-5727
			RESIDENT	607 N KING ST APT 471		HONOLULU HI 96817-5727	HONOLULU	HI	96817-5727
			RESIDENT	607 N KING ST APT 472		HONOLULU HI 96817-5727	HONOLULU	HI	96817-5727
			RESIDENT	607 N KING ST APT 473		HONOLULU HI 96817-5727	HONOLULU	HI	96817-5727
			RESIDENT	607 N KING ST APT 475		HONOLULU HI 96817-5727	HONOLULU	HI	96817-5727
			RESIDENT	607 N KING ST APT 477		HONOLULU HI 96817-5727	HONOLULU	HI	96817-5727
			RESIDENT	607 N KING ST APT 479		HONOLULU HI 96817-5727	HONOLULU	HI	96817-5727
			RESIDENT	607 N KING ST APT 481		HONOLULU HI 96817-5759	HONOLULU	HI	96817-5759
			RESIDENT	607 N KING ST APT 485		HONOLULU HI 96817-5759	HONOLULU	HI	96817-5759
			RESIDENT	607 N KING ST APT 487		HONOLULU HI 96817-5759	HONOLULU	HI	96817-5759
			RESIDENT	607 N KING ST APT 489		HONOLULU HI 96817-5759	HONOLULU	HI	96817-5759
			RESIDENT	607 N KING ST APT 139		HONOLULU HI 96817-5759	HONOLULU	HI	96817-5759
			BUSINESS OCCUPANT	607 N KING ST OFC		HONOLULU HI 96817-5718	HONOLULU	HI	96817-5718
			BUSINESS OCCUPANT	609 N KING ST		HONOLULU HI 96817-4509	HONOLULU	HI	96817-4509
			BUSINESS OCCUPANT	555 N KING ST STE 102		HONOLULU HI 96817-4649	HONOLULU	HI	96817-4649
			BUSINESS OCCUPANT	555 N KING ST STE 103		HONOLULU HI 96817-4649	HONOLULU	HI	96817-4649
			BUSINESS OCCUPANT	555 N KING ST STE 104		HONOLULU HI 96817-4649	HONOLULU	HI	96817-4649
			BUSINESS OCCUPANT	555 N KING ST STE 105		HONOLULU HI 96817-4649	HONOLULU	HI	96817-4649
			BUSINESS OCCUPANT	555 N KING ST STE 106		HONOLULU HI 96817-4649	HONOLULU	HI	96817-4649
			BUSINESS OCCUPANT	555 N KING ST STE 107		HONOLULU HI 96817-4649	HONOLULU	HI	96817-4649
			BUSINESS OCCUPANT	555 N KING ST STE 108		HONOLULU HI 96817-4649	HONOLULU	HI	96817-4649
			RESIDENT	555 N KING ST APT 201		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 202		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 203		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 204		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 205		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 207		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 208		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 209		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 210		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 211		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 212		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 213		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 214		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 215		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 217		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 218		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 219		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 220		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 221		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 222		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 223		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 224		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT 225		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT B11		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			RESIDENT	555 N KING ST APT B12		HONOLULU HI 96817-4600	HONOLULU	HI	96817-4600
			BUSINESS OCCUPANT	555 N KING ST STE 109		HONOLULU HI 96817-4649	HONOLULU	HI	96817-4649
			BUSINESS OCCUPANT	555 N KING ST STE 110		HONOLULU HI 96817-4649	HONOLULU	HI	96817-4649
			BUSINESS OCCUPANT	555 N KING ST STE 111		HONOLULU HI 96817-4649	HONOLULU	HI	96817-4649

			BUSINESS OCCUPANT	555 N KING ST STE 115		HONOLULU HI 96817-4649	HONOLULU	HI	96817-4649
			BUSINESS OCCUPANT	555 N KING ST STE A		HONOLULU HI 96817-4649	HONOLULU	HI	96817-4649
			BUSINESS OCCUPANT	555 N KING ST		HONOLULU HI 96817-4604	HONOLULU	HI	96817-4604
			BUSINESS OCCUPANT	570 DILLINGHAM BLVD STE 100		HONOLULU HI 96817-6603	HONOLULU	HI	96817-6603
			BUSINESS OCCUPANT	580 DILLINGHAM BLVD STE 1		HONOLULU HI 96817-4601	HONOLULU	HI	96817-4601
			BUSINESS OCCUPANT	590 DILLINGHAM BLVD STE F		HONOLULU HI 96817-4692	HONOLULU	HI	96817-4692
			BUSINESS OCCUPANT	590 DILLINGHAM BLVD STE B		HONOLULU HI 96817-4692	HONOLULU	HI	96817-4692
			BUSINESS OCCUPANT	590 DILLINGHAM BLVD STE D		HONOLULU HI 96817-4692	HONOLULU	HI	96817-4692
			BUSINESS OCCUPANT	590 DILLINGHAM BLVD STE E		HONOLULU HI 96817-4692	HONOLULU	HI	96817-4692
			BUSINESS OCCUPANT	602 DILLINGHAM BLVD		HONOLULU HI 96817-4504	HONOLULU	HI	96817-4504
			BUSINESS OCCUPANT	620 DILLINGHAM BLVD		HONOLULU HI 96817-4504	HONOLULU	HI	96817-4504
			BUSINESS OCCUPANT	525 KAAAHI ST		HONOLULU HI 96817-4634	HONOLULU	HI	96817-4634
			BUSINESS OCCUPANT	519 KAAAHI ST		HONOLULU HI 96817-4634	HONOLULU	HI	96817-4634
			BUSINESS OCCUPANT	513 KAAAHI ST		HONOLULU HI 96817-4634	HONOLULU	HI	96817-4634
			BUSINESS OCCUPANT	916 KAAAHI PL STE A		HONOLULU HI 96817-6604	HONOLULU	HI	96817-6604
			BUSINESS OCCUPANT	916 KAAAHI PL STE A		HONOLULU HI 96817-6604	HONOLULU	HI	96817-6604
			BUSINESS OCCUPANT	916 KAAAHI PL STE A		HONOLULU HI 96817-6604	HONOLULU	HI	96817-6604
			BUSINESS OCCUPANT	914 KAAAHI PL STE B		HONOLULU HI 96817-4607	HONOLULU	HI	96817-4607
			BUSINESS OCCUPANT	914 KAAAHI PL STE B		HONOLULU HI 96817-4607	HONOLULU	HI	96817-4607
			BUSINESS OCCUPANT	914 KAAAHI PL STE B		HONOLULU HI 96817-4607	HONOLULU	HI	96817-4607
			BUSINESS OCCUPANT	906 KAAAHI PL		HONOLULU HI 96817-4607	HONOLULU	HI	96817-4607
			BUSINESS OCCUPANT	581 DILLINGHAM BLVD STE A		HONOLULU HI 96817-4602	HONOLULU	HI	96817-4602
			BUSINESS OCCUPANT	581 DILLINGHAM BLVD STE B		HONOLULU HI 96817-4602	HONOLULU	HI	96817-4602
			BUSINESS OCCUPANT	551 DILLINGHAM BLVD		HONOLULU HI 96817-4602	HONOLULU	HI	96817-4602
			BUSINESS OCCUPANT	535 DILLINGHAM BLVD		HONOLULU HI 96817-4602	HONOLULU	HI	96817-4602
			BUSINESS OCCUPANT	525 N KING ST		HONOLULU HI 96817-4604	HONOLULU	HI	96817-4604
			BUSINESS OCCUPANT	477 N KING ST		HONOLULU HI 96817-4704	HONOLULU	HI	96817-4704
			BUSINESS OCCUPANT	445 N KING ST		HONOLULU HI 96817-4704	HONOLULU	HI	96817-4704
			RESIDENT	419 N KING ST APT 2		HONOLULU HI 96817-4787	HONOLULU	HI	96817-4787
			RESIDENT	419 N KING ST APT 4		HONOLULU HI 96817-4787	HONOLULU	HI	96817-4787
			RESIDENT	419 N KING ST APT 6		HONOLULU HI 96817-4787	HONOLULU	HI	96817-4787
			RESIDENT	419 N KING ST APT 8		HONOLULU HI 96817-4787	HONOLULU	HI	96817-4787
			RESIDENT	419 N KING ST APT 10		HONOLULU HI 96817-4787	HONOLULU	HI	96817-4787
			RESIDENT	419 N KING ST APT 12		HONOLULU HI 96817-4787	HONOLULU	HI	96817-4787
			RESIDENT	419 N KING ST APT 1		HONOLULU HI 96817-4790	HONOLULU	HI	96817-4790
			RESIDENT	419 N KING ST APT 3		HONOLULU HI 96817-4790	HONOLULU	HI	96817-4790
			RESIDENT	419 N KING ST APT 5		HONOLULU HI 96817-4790	HONOLULU	HI	96817-4790
			RESIDENT	419 N KING ST APT 7		HONOLULU HI 96817-4790	HONOLULU	HI	96817-4790
			RESIDENT	419 N KING ST APT 9		HONOLULU HI 96817-4790	HONOLULU	HI	96817-4790
			RESIDENT	419 N KING ST APT 11		HONOLULU HI 96817-4790	HONOLULU	HI	96817-4790
			RESIDENT	419 N KING ST APT 13		HONOLULU HI 96817-4790	HONOLULU	HI	96817-4790
			RESIDENT	419 N KING ST APT 14		HONOLULU HI 96817-4766	HONOLULU	HI	96817-4766
			RESIDENT	419 N KING ST APT 16		HONOLULU HI 96817-4766	HONOLULU	HI	96817-4766
			RESIDENT	419 N KING ST APT 18		HONOLULU HI 96817-4766	HONOLULU	HI	96817-4766
			RESIDENT	419 N KING ST APT 20		HONOLULU HI 96817-4766	HONOLULU	HI	96817-4766
			RESIDENT	419 N KING ST APT 17		HONOLULU HI 96817-4794	HONOLULU	HI	96817-4794
			RESIDENT	419 N KING ST APT 19		HONOLULU HI 96817-4794	HONOLULU	HI	96817-4794
			BUSINESS OCCUPANT	415 N KING ST		HONOLULU HI 96817-4704	HONOLULU	HI	96817-4704
			RESIDENT	407 N KING ST APT F4		HONOLULU HI 96817-4729	HONOLULU	HI	96817-4729
			RESIDENT	407 N KING ST APT F1		HONOLULU HI 96817-4729	HONOLULU	HI	96817-4729
			RESIDENT	407 N KING ST APT F2		HONOLULU HI 96817-4729	HONOLULU	HI	96817-4729
			RESIDENT	407 N KING ST APT F3		HONOLULU HI 96817-4729	HONOLULU	HI	96817-4729
			RESIDENT	407 N KING ST APT E4		HONOLULU HI 96817-4729	HONOLULU	HI	96817-4729
			RESIDENT	407 N KING ST APT E1		HONOLULU HI 96817-4729	HONOLULU	HI	96817-4729
			RESIDENT	407 N KING ST APT E2		HONOLULU HI 96817-4729	HONOLULU	HI	96817-4729
			RESIDENT	407 N KING ST APT E3		HONOLULU HI 96817-4729	HONOLULU	HI	96817-4729
			RESIDENT	407 N KING ST APT B1		HONOLULU HI 96817-4729	HONOLULU	HI	96817-4729
			RESIDENT	407 N KING ST APT B2		HONOLULU HI 96817-4729	HONOLULU	HI	96817-4729
			RESIDENT	407 N KING ST APT A3		HONOLULU HI 96817-4729	HONOLULU	HI	96817-4729
			RESIDENT	407 N KING ST APT A2		HONOLULU HI 96817-4729	HONOLULU	HI	96817-4729
			RESIDENT	407 N KING ST APT A1		HONOLULU HI 96817-4729	HONOLULU	HI	96817-4729
			RESIDENT	407 N KING ST APT A4		HONOLULU HI 96817-4729	HONOLULU	HI	96817-4729
			RESIDENT	417 N KING ST APT 22		HONOLULU HI 96817-4796	HONOLULU	HI	96817-4796
			RESIDENT	417 N KING ST APT 24		HONOLULU HI 96817-4796	HONOLULU	HI	96817-4796
			RESIDENT	417 N KING ST APT 21		HONOLULU HI 96817-4799	HONOLULU	HI	96817-4799
			RESIDENT	417 N KING ST APT 23		HONOLULU HI 96817-4799	HONOLULU	HI	96817-4799
			RESIDENT	417 N KING ST APT 25		HONOLULU HI 96817-4799	HONOLULU	HI	96817-4799
			RESIDENT	417 N KING ST APT 27		HONOLULU HI 96817-4799	HONOLULU	HI	96817-4799
			RESIDENT	417 N KING ST APT 29		HONOLULU HI 96817-4799	HONOLULU	HI	96817-4799
			RESIDENT	417 N KING ST APT 28		HONOLULU HI 96817-4792	HONOLULU	HI	96817-4792
			RESIDENT	417 N KING ST APT 30		HONOLULU HI 96817-4792	HONOLULU	HI	96817-4792
			RESIDENT	417 N KING ST APT 32		HONOLULU HI 96817-4792	HONOLULU	HI	96817-4792

			RESIDENT	417 N KING ST APT 34		HONOLULU HI 96817-4792	HONOLULU	HI	96817-4792
			RESIDENT	417 N KING ST APT 36		HONOLULU HI 96817-4792	HONOLULU	HI	96817-4792
			RESIDENT	417 N KING ST APT 38		HONOLULU HI 96817-4792	HONOLULU	HI	96817-4792
			RESIDENT	417 N KING ST APT 40		HONOLULU HI 96817-4792	HONOLULU	HI	96817-4792
			RESIDENT	417 N KING ST APT 31		HONOLULU HI 96817-4769	HONOLULU	HI	96817-4769
			RESIDENT	417 N KING ST APT 33		HONOLULU HI 96817-4769	HONOLULU	HI	96817-4769
			RESIDENT	417 N KING ST APT 35		HONOLULU HI 96817-4769	HONOLULU	HI	96817-4769
			RESIDENT	417 N KING ST APT 37		HONOLULU HI 96817-4769	HONOLULU	HI	96817-4769
			RESIDENT	417 N KING ST APT 39		HONOLULU HI 96817-4769	HONOLULU	HI	96817-4769
			RESIDENT	417 N KING ST APT 41		HONOLULU HI 96817-4769	HONOLULU	HI	96817-4769
			RESIDENT	417 N KING ST APT 42		HONOLULU HI 96817-4769	HONOLULU	HI	96817-4769
			BUSINESS OCCUPANT	395 N KING ST		HONOLULU HI 96817-4702	HONOLULU	HI	96817-4702
			BUSINESS OCCUPANT	395 N KING ST STE 10		HONOLULU HI 96817-6712	HONOLULU	HI	96817-6712
			BUSINESS OCCUPANT	399 N KING ST		HONOLULU HI 96817-4702	HONOLULU	HI	96817-4702
			BUSINESS OCCUPANT	403 N KING ST		HONOLULU HI 96817-4704	HONOLULU	HI	96817-4704
			BUSINESS OCCUPANT	409 N KING ST		HONOLULU HI 96817-4704	HONOLULU	HI	96817-4704
			BUSINESS OCCUPANT	411 N KING ST		HONOLULU HI 96817-4704	HONOLULU	HI	96817-4704
			BUSINESS OCCUPANT	421 N KING ST		HONOLULU HI 96817-4704	HONOLULU	HI	96817-4704
			BUSINESS OCCUPANT	423 N KING ST		HONOLULU HI 96817-4704	HONOLULU	HI	96817-4704
			BUSINESS OCCUPANT	425 N KING ST		HONOLULU HI 96817-4704	HONOLULU	HI	96817-4704
			BUSINESS OCCUPANT	355 N KING ST		HONOLULU HI 96817-4702	HONOLULU	HI	96817-4702
			BUSINESS OCCUPANT	357 N KING ST		HONOLULU HI 96817-4702	HONOLULU	HI	96817-4702
			BUSINESS OCCUPANT	333 N KING ST		HONOLULU HI 96817-4702	HONOLULU	HI	96817-4702
			BUSINESS OCCUPANT	333 N KING ST STE 100		HONOLULU HI 96817-4707	HONOLULU	HI	96817-4707
			BUSINESS OCCUPANT	333 N KING ST STE 100		HONOLULU HI 96817-4707	HONOLULU	HI	96817-4707
			BUSINESS OCCUPANT	333 N KING ST STE 100		HONOLULU HI 96817-4707	HONOLULU	HI	96817-4707
			BUSINESS OCCUPANT	333 N KING ST STE 100		HONOLULU HI 96817-4707	HONOLULU	HI	96817-4707
			RESIDENT	1023 DESHA LN APT 1		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 6		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 7		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 8		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 9		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 10		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 11		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 12		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 13		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 14		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 15		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 16		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 18		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 19		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 20		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 21		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 22		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 23		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 24		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 26		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 27		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			RESIDENT	1023 DESHA LN APT 28		HONOLULU HI 96817-4615	HONOLULU	HI	96817-4615
			BUSINESS OCCUPANT	600 N KING ST		HONOLULU HI 96817-4508	HONOLULU	HI	96817-4508
			BUSINESS OCCUPANT	624 N KING ST		HONOLULU HI 96817-4508	HONOLULU	HI	96817-4508
			BUSINESS OCCUPANT	626 N KING ST		HONOLULU HI 96817-4508	HONOLULU	HI	96817-4508
			BUSINESS OCCUPANT	628 N KING ST		HONOLULU HI 96817-4508	HONOLULU	HI	96817-4508
			BUSINESS OCCUPANT	638 N KING ST		HONOLULU HI 96817-4508	HONOLULU	HI	96817-4508
			BUSINESS OCCUPANT	666 N KING ST		HONOLULU HI 96817-4508	HONOLULU	HI	96817-4508
			RESIDENT	350 N BERETANIA ST APT 101		HONOLULU HI 96817-4719	HONOLULU	HI	96817-4719
			RESIDENT	350 N BERETANIA ST APT 102		HONOLULU HI 96817-4719	HONOLULU	HI	96817-4719
			RESIDENT	350 N BERETANIA ST APT 103		HONOLULU HI 96817-4719	HONOLULU	HI	96817-4719
			RESIDENT	350 N BERETANIA ST APT 104		HONOLULU HI 96817-4719	HONOLULU	HI	96817-4719
			RESIDENT	350 N BERETANIA ST APT 105		HONOLULU HI 96817-4719	HONOLULU	HI	96817-4719
			RESIDENT	350 N BERETANIA ST APT 106		HONOLULU HI 96817-4719	HONOLULU	HI	96817-4719
			RESIDENT	350 N BERETANIA ST APT 107		HONOLULU HI 96817-4719	HONOLULU	HI	96817-4719
			RESIDENT	350 N BERETANIA ST APT 109		HONOLULU HI 96817-4719	HONOLULU	HI	96817-4719
			RESIDENT	350 N BERETANIA ST APT 201		HONOLULU HI 96817-4719	HONOLULU	HI	96817-4719
			RESIDENT	350 N BERETANIA ST APT 202		HONOLULU HI 96817-4719	HONOLULU	HI	96817-4719
			RESIDENT	350 N BERETANIA ST APT 203		HONOLULU HI 96817-4719	HONOLULU	HI	96817-4719
			RESIDENT	350 N BERETANIA ST APT 204		HONOLULU HI 96817-4719	HONOLULU	HI	96817-4719
			RESIDENT	350 N BERETANIA ST APT 205		HONOLULU HI 96817-4719	HONOLULU	HI	96817-4719
			RESIDENT	350 N BERETANIA ST APT 206		HONOLULU HI 96817-4719	HONOLULU	HI	96817-4719
			RESIDENT	350 N BERETANIA ST APT 207		HONOLULU HI 96817-4719	HONOLULU	HI	96817-4719
			RESIDENT	350 N BERETANIA ST APT 208		HONOLULU HI 96817-4720	HONOLULU	HI	96817-4720
			RESIDENT	350 N BERETANIA ST APT 209		HONOLULU HI 96817-4720	HONOLULU	HI	96817-4720

			RESIDENT	350 N BERETANIA ST APT 301		HONOLULU HI 96817-4720	HONOLULU	HI	96817-4720
			RESIDENT	350 N BERETANIA ST APT 302		HONOLULU HI 96817-4720	HONOLULU	HI	96817-4720
			RESIDENT	350 N BERETANIA ST APT 303		HONOLULU HI 96817-4720	HONOLULU	HI	96817-4720
			RESIDENT	350 N BERETANIA ST APT 304		HONOLULU HI 96817-4720	HONOLULU	HI	96817-4720
			RESIDENT	350 N BERETANIA ST APT 305		HONOLULU HI 96817-4720	HONOLULU	HI	96817-4720
			RESIDENT	350 N BERETANIA ST APT 306		HONOLULU HI 96817-4720	HONOLULU	HI	96817-4720
			RESIDENT	350 N BERETANIA ST APT 308		HONOLULU HI 96817-4720	HONOLULU	HI	96817-4720
			RESIDENT	350 N BERETANIA ST APT 309		HONOLULU HI 96817-4720	HONOLULU	HI	96817-4720
			RESIDENT	360 N BERETANIA ST APT 101		HONOLULU HI 96817-4721	HONOLULU	HI	96817-4721
			RESIDENT	360 N BERETANIA ST APT 102		HONOLULU HI 96817-4721	HONOLULU	HI	96817-4721
			RESIDENT	360 N BERETANIA ST APT 103		HONOLULU HI 96817-4721	HONOLULU	HI	96817-4721
			RESIDENT	360 N BERETANIA ST APT 104		HONOLULU HI 96817-4721	HONOLULU	HI	96817-4721
			RESIDENT	360 N BERETANIA ST APT 105		HONOLULU HI 96817-4721	HONOLULU	HI	96817-4721
			RESIDENT	360 N BERETANIA ST APT 106		HONOLULU HI 96817-4725	HONOLULU	HI	96817-4725
			RESIDENT	360 N BERETANIA ST APT 107		HONOLULU HI 96817-4725	HONOLULU	HI	96817-4725
			RESIDENT	360 N BERETANIA ST APT 108		HONOLULU HI 96817-4725	HONOLULU	HI	96817-4725
			RESIDENT	360 N BERETANIA ST APT 109		HONOLULU HI 96817-4725	HONOLULU	HI	96817-4725
			RESIDENT	360 N BERETANIA ST APT 110		HONOLULU HI 96817-4725	HONOLULU	HI	96817-4725
			RESIDENT	360 N BERETANIA ST APT 201		HONOLULU HI 96817-4725	HONOLULU	HI	96817-4725
			RESIDENT	360 N BERETANIA ST APT 202		HONOLULU HI 96817-4725	HONOLULU	HI	96817-4725
			RESIDENT	360 N BERETANIA ST APT 203		HONOLULU HI 96817-4725	HONOLULU	HI	96817-4725
			RESIDENT	360 N BERETANIA ST APT 204		HONOLULU HI 96817-4725	HONOLULU	HI	96817-4725
			RESIDENT	360 N BERETANIA ST APT 205		HONOLULU HI 96817-4725	HONOLULU	HI	96817-4725
			RESIDENT	360 N BERETANIA ST APT 206		HONOLULU HI 96817-4725	HONOLULU	HI	96817-4725
			RESIDENT	360 N BERETANIA ST APT 207		HONOLULU HI 96817-4725	HONOLULU	HI	96817-4725
			RESIDENT	360 N BERETANIA ST APT 208		HONOLULU HI 96817-4725	HONOLULU	HI	96817-4725
			RESIDENT	360 N BERETANIA ST APT 209		HONOLULU HI 96817-4725	HONOLULU	HI	96817-4725
			RESIDENT	360 N BERETANIA ST APT 210		HONOLULU HI 96817-4725	HONOLULU	HI	96817-4725
			RESIDENT	360 N BERETANIA ST APT 211		HONOLULU HI 96817-4725	HONOLULU	HI	96817-4725
			RESIDENT	360 N BERETANIA ST APT 212		HONOLULU HI 96817-6700	HONOLULU	HI	96817-6700
			RESIDENT	370 N BERETANIA ST APT 101		HONOLULU HI 96817-4732	HONOLULU	HI	96817-4732
			RESIDENT	370 N BERETANIA ST APT 102		HONOLULU HI 96817-4732	HONOLULU	HI	96817-4732
			RESIDENT	370 N BERETANIA ST APT 103		HONOLULU HI 96817-4732	HONOLULU	HI	96817-4732
			RESIDENT	370 N BERETANIA ST APT 104		HONOLULU HI 96817-4723	HONOLULU	HI	96817-4723
			RESIDENT	370 N BERETANIA ST APT 105		HONOLULU HI 96817-4723	HONOLULU	HI	96817-4723
			RESIDENT	370 N BERETANIA ST APT 106		HONOLULU HI 96817-4723	HONOLULU	HI	96817-4723
			RESIDENT	370 N BERETANIA ST APT 107		HONOLULU HI 96817-4723	HONOLULU	HI	96817-4723
			RESIDENT	370 N BERETANIA ST APT 108		HONOLULU HI 96817-4723	HONOLULU	HI	96817-4723
			RESIDENT	370 N BERETANIA ST APT 201		HONOLULU HI 96817-4723	HONOLULU	HI	96817-4723
			RESIDENT	370 N BERETANIA ST APT 202		HONOLULU HI 96817-4723	HONOLULU	HI	96817-4723
			RESIDENT	370 N BERETANIA ST APT 203		HONOLULU HI 96817-4723	HONOLULU	HI	96817-4723
			RESIDENT	370 N BERETANIA ST APT 204		HONOLULU HI 96817-4723	HONOLULU	HI	96817-4723
			RESIDENT	370 N BERETANIA ST APT 205		HONOLULU HI 96817-4723	HONOLULU	HI	96817-4723
			RESIDENT	370 N BERETANIA ST APT 206		HONOLULU HI 96817-4723	HONOLULU	HI	96817-4723
			RESIDENT	370 N BERETANIA ST APT 207		HONOLULU HI 96817-4723	HONOLULU	HI	96817-4723
			RESIDENT	370 N BERETANIA ST APT 208		HONOLULU HI 96817-4726	HONOLULU	HI	96817-4726
			RESIDENT	370 N BERETANIA ST APT 209		HONOLULU HI 96817-4726	HONOLULU	HI	96817-4726
			RESIDENT	370 N BERETANIA ST APT 210		HONOLULU HI 96817-4726	HONOLULU	HI	96817-4726
			RESIDENT	370 N BERETANIA ST APT 211		HONOLULU HI 96817-4726	HONOLULU	HI	96817-4726
			RESIDENT	370 N BERETANIA ST APT 212		HONOLULU HI 96817-4726	HONOLULU	HI	96817-4726
			RESIDENT	380 N BERETANIA ST APT 101		HONOLULU HI 96817-4743	HONOLULU	HI	96817-4743
			RESIDENT	380 N BERETANIA ST APT 102		HONOLULU HI 96817-4743	HONOLULU	HI	96817-4743
			RESIDENT	380 N BERETANIA ST APT 103		HONOLULU HI 96817-4743	HONOLULU	HI	96817-4743
			RESIDENT	380 N BERETANIA ST APT 104		HONOLULU HI 96817-4743	HONOLULU	HI	96817-4743
			RESIDENT	380 N BERETANIA ST APT 105		HONOLULU HI 96817-4743	HONOLULU	HI	96817-4743
			RESIDENT	380 N BERETANIA ST APT 106		HONOLULU HI 96817-4743	HONOLULU	HI	96817-4743
			RESIDENT	380 N BERETANIA ST APT 107		HONOLULU HI 96817-4743	HONOLULU	HI	96817-4743
			RESIDENT	380 N BERETANIA ST APT 108		HONOLULU HI 96817-4743	HONOLULU	HI	96817-4743
			RESIDENT	380 N BERETANIA ST APT 201		HONOLULU HI 96817-4743	HONOLULU	HI	96817-4743
			RESIDENT	380 N BERETANIA ST APT 202		HONOLULU HI 96817-4743	HONOLULU	HI	96817-4743
			RESIDENT	380 N BERETANIA ST APT 203		HONOLULU HI 96817-4743	HONOLULU	HI	96817-4743
			RESIDENT	380 N BERETANIA ST APT 204		HONOLULU HI 96817-4727	HONOLULU	HI	96817-4727
			RESIDENT	380 N BERETANIA ST APT 205		HONOLULU HI 96817-4727	HONOLULU	HI	96817-4727
			RESIDENT	380 N BERETANIA ST APT 206		HONOLULU HI 96817-4727	HONOLULU	HI	96817-4727
			RESIDENT	380 N BERETANIA ST APT 207		HONOLULU HI 96817-4727	HONOLULU	HI	96817-4727
			RESIDENT	380 N BERETANIA ST APT 208		HONOLULU HI 96817-4727	HONOLULU	HI	96817-4727
			RESIDENT	380 N BERETANIA ST APT 209		HONOLULU HI 96817-4727	HONOLULU	HI	96817-4727
			RESIDENT	380 N BERETANIA ST APT 210		HONOLULU HI 96817-4727	HONOLULU	HI	96817-4727
			RESIDENT	380 N BERETANIA ST APT 301		HONOLULU HI 96817-4727	HONOLULU	HI	96817-4727
			RESIDENT	380 N BERETANIA ST APT 302		HONOLULU HI 96817-4727	HONOLULU	HI	96817-4727
			RESIDENT	380 N BERETANIA ST APT 303		HONOLULU HI 96817-4727	HONOLULU	HI	96817-4727
			RESIDENT	380 N BERETANIA ST APT 304		HONOLULU HI 96817-4727	HONOLULU	HI	96817-4727

			RESIDENT	380 N BERETANIA ST APT 305		HONOLULU HI 96817-4727	HONOLULU	HI	96817-4727
			RESIDENT	380 N BERETANIA ST APT 306		HONOLULU HI 96817-4727	HONOLULU	HI	96817-4727
			RESIDENT	402 N BERETANIA ST APT 101		HONOLULU HI 96817-4736	HONOLULU	HI	96817-4736
			RESIDENT	402 N BERETANIA ST APT 102		HONOLULU HI 96817-4736	HONOLULU	HI	96817-4736
			RESIDENT	402 N BERETANIA ST APT 103		HONOLULU HI 96817-4736	HONOLULU	HI	96817-4736
			RESIDENT	402 N BERETANIA ST APT 104		HONOLULU HI 96817-4730	HONOLULU	HI	96817-4730
			RESIDENT	402 N BERETANIA ST APT 105		HONOLULU HI 96817-4730	HONOLULU	HI	96817-4730
			RESIDENT	402 N BERETANIA ST APT 106		HONOLULU HI 96817-4730	HONOLULU	HI	96817-4730
			RESIDENT	402 N BERETANIA ST APT 107		HONOLULU HI 96817-4730	HONOLULU	HI	96817-4730
			RESIDENT	402 N BERETANIA ST APT 108		HONOLULU HI 96817-4730	HONOLULU	HI	96817-4730
			RESIDENT	402 N BERETANIA ST APT 201		HONOLULU HI 96817-4730	HONOLULU	HI	96817-4730
			RESIDENT	402 N BERETANIA ST APT 202		HONOLULU HI 96817-4730	HONOLULU	HI	96817-4730
			RESIDENT	402 N BERETANIA ST APT 203		HONOLULU HI 96817-4730	HONOLULU	HI	96817-4730
			RESIDENT	402 N BERETANIA ST APT 204		HONOLULU HI 96817-4730	HONOLULU	HI	96817-4730
			RESIDENT	402 N BERETANIA ST APT 205		HONOLULU HI 96817-4730	HONOLULU	HI	96817-4730
			RESIDENT	402 N BERETANIA ST APT 206		HONOLULU HI 96817-4730	HONOLULU	HI	96817-4730
			RESIDENT	402 N BERETANIA ST APT 207		HONOLULU HI 96817-4730	HONOLULU	HI	96817-4730
			RESIDENT	402 N BERETANIA ST APT 208		HONOLULU HI 96817-4730	HONOLULU	HI	96817-4730
			RESIDENT	402 N BERETANIA ST APT 209		HONOLULU HI 96817-4730	HONOLULU	HI	96817-4730
			RESIDENT	402 N BERETANIA ST APT 210		HONOLULU HI 96817-4730	HONOLULU	HI	96817-4730
			RESIDENT	402 N BERETANIA ST APT 211		HONOLULU HI 96817-4730	HONOLULU	HI	96817-4730
			RESIDENT	402 N BERETANIA ST APT 212		HONOLULU HI 96817-4737	HONOLULU	HI	96817-4737
			RESIDENT	404 N BERETANIA ST APT 101		HONOLULU HI 96817-4731	HONOLULU	HI	96817-4731
			RESIDENT	404 N BERETANIA ST APT 102		HONOLULU HI 96817-4731	HONOLULU	HI	96817-4731
			RESIDENT	404 N BERETANIA ST APT 103		HONOLULU HI 96817-4731	HONOLULU	HI	96817-4731
			RESIDENT	404 N BERETANIA ST APT 104		HONOLULU HI 96817-4731	HONOLULU	HI	96817-4731
			RESIDENT	404 N BERETANIA ST APT 105		HONOLULU HI 96817-4731	HONOLULU	HI	96817-4731
			RESIDENT	404 N BERETANIA ST APT 106		HONOLULU HI 96817-4731	HONOLULU	HI	96817-4731
			RESIDENT	404 N BERETANIA ST APT 108		HONOLULU HI 96817-4731	HONOLULU	HI	96817-4731
			RESIDENT	404 N BERETANIA ST APT 109		HONOLULU HI 96817-4731	HONOLULU	HI	96817-4731
			RESIDENT	404 N BERETANIA ST APT 201		HONOLULU HI 96817-4731	HONOLULU	HI	96817-4731
			RESIDENT	404 N BERETANIA ST APT 202		HONOLULU HI 96817-4731	HONOLULU	HI	96817-4731
			RESIDENT	404 N BERETANIA ST APT 203		HONOLULU HI 96817-4731	HONOLULU	HI	96817-4731
			RESIDENT	404 N BERETANIA ST APT 204		HONOLULU HI 96817-4731	HONOLULU	HI	96817-4731
			RESIDENT	404 N BERETANIA ST APT 205		HONOLULU HI 96817-4731	HONOLULU	HI	96817-4731
			RESIDENT	404 N BERETANIA ST APT 206		HONOLULU HI 96817-4731	HONOLULU	HI	96817-4731
			RESIDENT	404 N BERETANIA ST APT 207		HONOLULU HI 96817-4741	HONOLULU	HI	96817-4741
			RESIDENT	404 N BERETANIA ST APT 208		HONOLULU HI 96817-4741	HONOLULU	HI	96817-4741
			RESIDENT	404 N BERETANIA ST APT 209		HONOLULU HI 96817-4741	HONOLULU	HI	96817-4741
			RESIDENT	404 N BERETANIA ST APT 210		HONOLULU HI 96817-4741	HONOLULU	HI	96817-4741
			RESIDENT	404 N BERETANIA ST APT 211		HONOLULU HI 96817-4741	HONOLULU	HI	96817-4741
			RESIDENT	404 N BERETANIA ST APT 212		HONOLULU HI 96817-4741	HONOLULU	HI	96817-4741
			BUSINESS OCCUPANT	1023 N KING ST		HONOLULU HI 96817-4516	HONOLULU	HI	96817-4516
			RESIDENT	1023 N KING ST APT B		HONOLULU HI 96817-4524	HONOLULU	HI	96817-4524
			BUSINESS OCCUPANT	1017 N KING ST		HONOLULU HI 96817-4516	HONOLULU	HI	96817-4516
			BUSINESS OCCUPANT	1013 N KING ST STE B		HONOLULU HI 96817-4550	HONOLULU	HI	96817-4550
			BUSINESS OCCUPANT	1013 N KING ST STE A		HONOLULU HI 96817-4550	HONOLULU	HI	96817-4550
			BUSINESS OCCUPANT	1001 N KING ST STE A		HONOLULU HI 96817-5793	HONOLULU	HI	96817-5793
			BUSINESS OCCUPANT	1001 N KING ST STE B		HONOLULU HI 96817-5793	HONOLULU	HI	96817-5793
			BUSINESS OCCUPANT	951 N KING ST		HONOLULU HI 96817-4552	HONOLULU	HI	96817-4552
			BUSINESS OCCUPANT	933 N KING ST		HONOLULU HI 96817-4552	HONOLULU	HI	96817-4552
			BUSINESS OCCUPANT	931 N KING ST		HONOLULU HI 96817-4552	HONOLULU	HI	96817-4552
			BUSINESS OCCUPANT	927 N KING ST		HONOLULU HI 96817-4552	HONOLULU	HI	96817-4552
			BUSINESS OCCUPANT	925 N KING ST STE 2		HONOLULU HI 96817-5792	HONOLULU	HI	96817-5792
			BUSINESS OCCUPANT	881 N KING ST		HONOLULU HI 96817-4554	HONOLULU	HI	96817-4554
			RESIDENT	940 HIKINA LN APT A		HONOLULU HI 96817-4542	HONOLULU	HI	96817-4542
			RESIDENT	940 HIKINA LN APT B		HONOLULU HI 96817-4542	HONOLULU	HI	96817-4542
			RESIDENT	940 HIKINA LN APT C		HONOLULU HI 96817-4542	HONOLULU	HI	96817-4542
			RESIDENT	940 HIKINA LN APT D		HONOLULU HI 96817-4542	HONOLULU	HI	96817-4542
			RESIDENT	940 HIKINA LN APT E		HONOLULU HI 96817-4542	HONOLULU	HI	96817-4542
			RESIDENT	940 HIKINA LN APT F		HONOLULU HI 96817-4542	HONOLULU	HI	96817-4542
			RESIDENT	940 HIKINA LN APT G		HONOLULU HI 96817-4542	HONOLULU	HI	96817-4542
			RESIDENT	940 HIKINA LN APT H		HONOLULU HI 96817-4542	HONOLULU	HI	96817-4542
			RESIDENT	940 HIKINA LN APT I		HONOLULU HI 96817-4542	HONOLULU	HI	96817-4542
			RESIDENT	905 AKAU LN APT B		HONOLULU HI 96817-4531	HONOLULU	HI	96817-4531
			RESIDENT	905 AKAU LN		HONOLULU HI 96817-4531	HONOLULU	HI	96817-4531
			RESIDENT	909 AKAU LN		HONOLULU HI 96817-4531	HONOLULU	HI	96817-4531
			RESIDENT	915 AKAU LN		HONOLULU HI 96817-4531	HONOLULU	HI	96817-4531
			RESIDENT	915 AKAU LN		HONOLULU HI 96817-4531	HONOLULU	HI	96817-4531
			RESIDENT	915 AKAU LN		HONOLULU HI 96817-4531	HONOLULU	HI	96817-4531
			RESIDENT	915 AKAU LN		HONOLULU HI 96817-4531	HONOLULU	HI	96817-4531
			RESIDENT	915 AKAU LN		HONOLULU HI 96817-4531	HONOLULU	HI	96817-4531

			RESIDENT	915 AKAU LN		HONOLULU HI 96817-4531	HONOLULU	HI	96817-4531
			RESIDENT	915 AKAU LN		HONOLULU HI 96817-4531	HONOLULU	HI	96817-4531
			RESIDENT	915 AKAU LN		HONOLULU HI 96817-4531	HONOLULU	HI	96817-4531
			RESIDENT	915 AKAU LN		HONOLULU HI 96817-4531	HONOLULU	HI	96817-4531
			RESIDENT	915 AKAU LN		HONOLULU HI 96817-4531	HONOLULU	HI	96817-4531
			RESIDENT	919 AKAU LN		HONOLULU HI 96817-4531	HONOLULU	HI	96817-4531
			RESIDENT	921 AKAU LN		HONOLULU HI 96817-4531	HONOLULU	HI	96817-4531
			RESIDENT	931 HIKINA LN APT 1		HONOLULU HI 96817-4541	HONOLULU	HI	96817-4541
			RESIDENT	931 HIKINA LN APT 2		HONOLULU HI 96817-4541	HONOLULU	HI	96817-4541
			RESIDENT	931 HIKINA LN APT 3		HONOLULU HI 96817-4541	HONOLULU	HI	96817-4541
			RESIDENT	931 HIKINA LN APT 4		HONOLULU HI 96817-4541	HONOLULU	HI	96817-4541
			RESIDENT	931 HIKINA LN APT 5		HONOLULU HI 96817-4541	HONOLULU	HI	96817-4541
			RESIDENT	931 HIKINA LN APT 6		HONOLULU HI 96817-4541	HONOLULU	HI	96817-4541
			RESIDENT	931 HIKINA LN APT 7		HONOLULU HI 96817-4541	HONOLULU	HI	96817-4541
			RESIDENT	931 HIKINA LN APT 8		HONOLULU HI 96817-4541	HONOLULU	HI	96817-4541
			RESIDENT	931 HIKINA LN APT 9		HONOLULU HI 96817-4541	HONOLULU	HI	96817-4541
			RESIDENT	931 HIKINA LN APT 10		HONOLULU HI 96817-4541	HONOLULU	HI	96817-4541
			RESIDENT	905 EU LN		HONOLULU HI 96817-4535	HONOLULU	HI	96817-4535
			RESIDENT	909 EU LN		HONOLULU HI 96817-4535	HONOLULU	HI	96817-4535
			RESIDENT	911 EU LN		HONOLULU HI 96817-4535	HONOLULU	HI	96817-4535
			RESIDENT	915 EU LN		HONOLULU HI 96817-4535	HONOLULU	HI	96817-4535
			RESIDENT	915C EU LN		HONOLULU HI 96817-4535	HONOLULU	HI	96817-4535
			RESIDENT	916D EU LN		HONOLULU HI 96817-4534	HONOLULU	HI	96817-4534
			RESIDENT	916E EU LN		HONOLULU HI 96817-4534	HONOLULU	HI	96817-4534
			RESIDENT	916A EU LN APT A		HONOLULU HI 96817-5796	HONOLULU	HI	96817-5796
			RESIDENT	916A EU LN APT B		HONOLULU HI 96817-5796	HONOLULU	HI	96817-5796
			BUSINESS OCCUPANT	923 HIKINA LN		HONOLULU HI 96817-4537	HONOLULU	HI	96817-4537
			BUSINESS OCCUPANT	924 HIKINA LN		HONOLULU HI 96817-4536	HONOLULU	HI	96817-4536
			BUSINESS OCCUPANT	923 HIKINA LN STE A		HONOLULU HI 96817-4537	HONOLULU	HI	96817-4537
			RESIDENT	918 HIKINA LN APT 1		HONOLULU HI 96817-4538	HONOLULU	HI	96817-4538
			RESIDENT	918 HIKINA LN APT 2		HONOLULU HI 96817-4538	HONOLULU	HI	96817-4538
			RESIDENT	918 HIKINA LN APT 3		HONOLULU HI 96817-4538	HONOLULU	HI	96817-4538
			RESIDENT	918 HIKINA LN APT 4		HONOLULU HI 96817-4538	HONOLULU	HI	96817-4538
			RESIDENT	918 HIKINA LN APT A		HONOLULU HI 96817-4538	HONOLULU	HI	96817-4538
			RESIDENT	918 HIKINA LN APT B		HONOLULU HI 96817-4538	HONOLULU	HI	96817-4538
			RESIDENT	918 HIKINA LN APT C		HONOLULU HI 96817-4538	HONOLULU	HI	96817-4538
			RESIDENT	918 HIKINA LN APT D		HONOLULU HI 96817-4538	HONOLULU	HI	96817-4538
			RESIDENT	918 HIKINA LN APT E		HONOLULU HI 96817-4538	HONOLULU	HI	96817-4538
			RESIDENT	918 HIKINA LN APT F		HONOLULU HI 96817-4538	HONOLULU	HI	96817-4538
			RESIDENT	915 HIKINA LN APT 1		HONOLULU HI 96817-4568	HONOLULU	HI	96817-4568
			RESIDENT	915 HIKINA LN APT 2		HONOLULU HI 96817-4568	HONOLULU	HI	96817-4568
			RESIDENT	915 HIKINA LN APT 3		HONOLULU HI 96817-4568	HONOLULU	HI	96817-4568
			RESIDENT	915 HIKINA LN APT 4		HONOLULU HI 96817-4568	HONOLULU	HI	96817-4568
			RESIDENT	915 HIKINA LN APT 5		HONOLULU HI 96817-4568	HONOLULU	HI	96817-4568
			RESIDENT	915 HIKINA LN APT 6		HONOLULU HI 96817-4568	HONOLULU	HI	96817-4568
			RESIDENT	915 HIKINA LN APT 7		HONOLULU HI 96817-4568	HONOLULU	HI	96817-4568
			RESIDENT	915 HIKINA LN APT 8		HONOLULU HI 96817-4568	HONOLULU	HI	96817-4568
			BUSINESS OCCUPANT	912 HIKINA LN STE A		HONOLULU HI 96817-5775	HONOLULU	HI	96817-5775
			BUSINESS OCCUPANT	912 HIKINA LN STE B		HONOLULU HI 96817-5775	HONOLULU	HI	96817-5775
			BUSINESS OCCUPANT	912 HIKINA LN		HONOLULU HI 96817-4536	HONOLULU	HI	96817-4536
			BUSINESS OCCUPANT	904 HIKINA LN		HONOLULU HI 96817-4536	HONOLULU	HI	96817-4536
			BUSINESS OCCUPANT	905 HIKINA LN STE 1		HONOLULU HI 96817-4537	HONOLULU	HI	96817-4537
			BUSINESS OCCUPANT	905 HIKINA LN		HONOLULU HI 96817-4537	HONOLULU	HI	96817-4537
			BUSINESS OCCUPANT	879 N KING ST		HONOLULU HI 96817-4514	HONOLULU	HI	96817-4514
			BUSINESS OCCUPANT	938 AUSTIN LN STE I		HONOLULU HI 96817-4594	HONOLULU	HI	96817-4594
			RESIDENT	938 AUSTIN LN APT G1		HONOLULU HI 96817-4574	HONOLULU	HI	96817-4574
			RESIDENT	938 AUSTIN LN APT G2		HONOLULU HI 96817-4574	HONOLULU	HI	96817-4574
			RESIDENT	938 AUSTIN LN APT G3		HONOLULU HI 96817-4574	HONOLULU	HI	96817-4574
			RESIDENT	938 AUSTIN LN APT G4		HONOLULU HI 96817-4574	HONOLULU	HI	96817-4574
			RESIDENT	938 AUSTIN LN APT G5		HONOLULU HI 96817-4574	HONOLULU	HI	96817-4574
			RESIDENT	938 AUSTIN LN APT G6		HONOLULU HI 96817-4574	HONOLULU	HI	96817-4574
			BUSINESS OCCUPANT	938 AUSTIN LN STE E		HONOLULU HI 96817-4594	HONOLULU	HI	96817-4594
			BUSINESS OCCUPANT	938 AUSTIN LN		HONOLULU HI 96817-4532	HONOLULU	HI	96817-4532
			BUSINESS OCCUPANT	938 AUSTIN LN STE 200		HONOLULU HI 96817-4574	HONOLULU	HI	96817-4574
			BUSINESS OCCUPANT	930 AUSTIN LN		HONOLULU HI 96817-4532	HONOLULU	HI	96817-4532
			BUSINESS OCCUPANT	938 AUSTIN LN STE 201		HONOLULU HI 96817-4574	HONOLULU	HI	96817-4574
			BUSINESS OCCUPANT	930 AUSTIN LN STE D		HONOLULU HI 96817-4500	HONOLULU	HI	96817-4500
			BUSINESS OCCUPANT	930 AUSTIN LN STE C		HONOLULU HI 96817-4500	HONOLULU	HI	96817-4500
			BUSINESS OCCUPANT	930 AUSTIN LN STE A		HONOLULU HI 96817-4500	HONOLULU	HI	96817-4500
			BUSINESS OCCUPANT	922 AUSTIN LN STE B1		HONOLULU HI 96817-4591	HONOLULU	HI	96817-4591
			BUSINESS OCCUPANT	922 AUSTIN LN STE A1		HONOLULU HI 96817-4591	HONOLULU	HI	96817-4591
			BUSINESS OCCUPANT	922 AUSTIN LN STE C1		HONOLULU HI 96817-4591	HONOLULU	HI	96817-4591

			BUSINESS OCCUPANT	922 AUSTIN LN STE C2		HONOLULU HI 96817-4591	HONOLULU	HI	96817-4591
			BUSINESS OCCUPANT	922 AUSTIN LN STE H		HONOLULU HI 96817-4591	HONOLULU	HI	96817-4591
			BUSINESS OCCUPANT	922 AUSTIN LN STE D		HONOLULU HI 96817-4591	HONOLULU	HI	96817-4591
			BUSINESS OCCUPANT	783 N KING ST		HONOLULU HI 96817-4512	HONOLULU	HI	96817-4512
			BUSINESS OCCUPANT	743 N KING ST		HONOLULU HI 96817-4512	HONOLULU	HI	96817-4512
			RESIDENT	980 ROBELLO LN APT A1		HONOLULU HI 96817-4547	HONOLULU	HI	96817-4547
			RESIDENT	980 ROBELLO LN APT A2		HONOLULU HI 96817-4547	HONOLULU	HI	96817-4547
			RESIDENT	980 ROBELLO LN APT A3		HONOLULU HI 96817-4547	HONOLULU	HI	96817-4547
			RESIDENT	980 ROBELLO LN APT A4		HONOLULU HI 96817-4547	HONOLULU	HI	96817-4547
			RESIDENT	980 ROBELLO LN APT A5		HONOLULU HI 96817-4547	HONOLULU	HI	96817-4547
			RESIDENT	980 ROBELLO LN APT B1		HONOLULU HI 96817-4549	HONOLULU	HI	96817-4549
			RESIDENT	980 ROBELLO LN APT B2		HONOLULU HI 96817-4549	HONOLULU	HI	96817-4549
			RESIDENT	980 ROBELLO LN APT B3		HONOLULU HI 96817-4549	HONOLULU	HI	96817-4549
			RESIDENT	980 ROBELLO LN APT B4		HONOLULU HI 96817-4549	HONOLULU	HI	96817-4549
			RESIDENT	980 ROBELLO LN APT B5		HONOLULU HI 96817-4549	HONOLULU	HI	96817-4549
			RESIDENT	980 ROBELLO LN APT C1		HONOLULU HI 96817-4569	HONOLULU	HI	96817-4569
			RESIDENT	980 ROBELLO LN APT C2		HONOLULU HI 96817-4569	HONOLULU	HI	96817-4569
			RESIDENT	980 ROBELLO LN APT C3		HONOLULU HI 96817-4569	HONOLULU	HI	96817-4569
			RESIDENT	980 ROBELLO LN APT C4		HONOLULU HI 96817-4569	HONOLULU	HI	96817-4569
			RESIDENT	980 ROBELLO LN APT C5		HONOLULU HI 96817-4569	HONOLULU	HI	96817-4569
			BUSINESS OCCUPANT	966 ROBELLO LN		HONOLULU HI 96817-4545	HONOLULU	HI	96817-4545
			BUSINESS OCCUPANT	950 ROBELLO LN		HONOLULU HI 96817-4545	HONOLULU	HI	96817-4545
			BUSINESS OCCUPANT	961 ROBELLO LN		HONOLULU HI 96817-4546	HONOLULU	HI	96817-4546

			BUSINESS OCCUPANT	961 ROBELLO LN		HONOLULU HI 96817-4546	HONOLULU	HI	96817-4546
			BUSINESS OCCUPANT	961 ROBELLO LN		HONOLULU HI 96817-4546	HONOLULU	HI	96817-4546
			BUSINESS OCCUPANT	961 ROBELLO LN		HONOLULU HI 96817-4546	HONOLULU	HI	96817-4546
			BUSINESS OCCUPANT	961 ROBELLO LN		HONOLULU HI 96817-4546	HONOLULU	HI	96817-4546
			BUSINESS OCCUPANT	961 ROBELLO LN		HONOLULU HI 96817-4546	HONOLULU	HI	96817-4546
			BUSINESS OCCUPANT	961 ROBELLO LN		HONOLULU HI 96817-4546	HONOLULU	HI	96817-4546
			BUSINESS OCCUPANT	961 ROBELLO LN		HONOLULU HI 96817-4546	HONOLULU	HI	96817-4546
			BUSINESS OCCUPANT	961 ROBELLO LN		HONOLULU HI 96817-4546	HONOLULU	HI	96817-4546
			BUSINESS OCCUPANT	961 ROBELLO LN		HONOLULU HI 96817-4546	HONOLULU	HI	96817-4546
			BUSINESS OCCUPANT	961 ROBELLO LN		HONOLULU HI 96817-4546	HONOLULU	HI	96817-4546
			BUSINESS OCCUPANT	961 ROBELLO LN		HONOLULU HI 96817-4546	HONOLULU	HI	96817-4546
			BUSINESS OCCUPANT	961 ROBELLO LN		HONOLULU HI 96817-4546	HONOLULU	HI	96817-4546
			BUSINESS OCCUPANT	961 ROBELLO LN		HONOLULU HI 96817-4546	HONOLULU	HI	96817-4546
			BUSINESS OCCUPANT	961 ROBELLO LN		HONOLULU HI 96817-4546	HONOLULU	HI	96817-4546
			BUSINESS OCCUPANT	961 ROBELLO LN		HONOLULU HI 96817-4546	HONOLULU	HI	96817-4546
			BUSINESS OCCUPANT	961 ROBELLO LN		HONOLULU HI 96817-4546	HONOLULU	HI	96817-4546
			BUSINESS OCCUPANT	979 ROBELLO LN STE A		HONOLULU HI 96817-5768	HONOLULU	HI	96817-5768
			BUSINESS OCCUPANT	979 ROBELLO LN STE C		HONOLULU HI 96817-5768	HONOLULU	HI	96817-5768
			BUSINESS OCCUPANT	999 ROBELLO LN		HONOLULU HI 96817-4546	HONOLULU	HI	96817-4546
			BUSINESS OCCUPANT	719 N KING ST STE A		HONOLULU HI 96817-4502	HONOLULU	HI	96817-4502
			BUSINESS OCCUPANT	717 N KING ST STE A		HONOLULU HI 96817-6500	HONOLULU	HI	96817-6500
			BUSINESS OCCUPANT	717 N KING ST STE B		HONOLULU HI 96817-6500	HONOLULU	HI	96817-6500
			BUSINESS OCCUPANT	717 N KING ST		HONOLULU HI 96817-4502	HONOLULU	HI	96817-4502
			BUSINESS OCCUPANT	701 N KING ST		HONOLULU HI 96817-4502	HONOLULU	HI	96817-4502
			BUSINESS OCCUPANT	720 N KING ST		HONOLULU HI 96817-4511	HONOLULU	HI	96817-4511
			BUSINESS OCCUPANT	766 N KING ST		HONOLULU HI 96817-4559	HONOLULU	HI	96817-4559
			RESIDENT	1115 BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1115 BANYAN ST APT B		HONOLULU HI 96817-3429	HONOLULU	HI	96817-3429
			RESIDENT	1115 BANYAN ST APT A		HONOLULU HI 96817-3429	HONOLULU	HI	96817-3429
			RESIDENT	1115 BANYAN ST APT C		HONOLULU HI 96817-3429	HONOLULU	HI	96817-3429
			RESIDENT	1119C BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1119B BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1119A BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1119 BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1121 BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1121C BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1121D BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1121A BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1121B BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1127B BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1127C BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1127D BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1127 BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1131A BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1131B BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1131C BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1131D BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1155A BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1155B BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1155C BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1155D BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			RESIDENT	1155 BANYAN ST		HONOLULU HI 96817-3427	HONOLULU	HI	96817-3427
			BUSINESS OCCUPANT	1128 BANYAN ST		HONOLULU HI 96817-3426	HONOLULU	HI	96817-3426
			RESIDENT	1122 BANYAN ST APT 100		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 200		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 201		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 202		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 203		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 204		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 205		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 206		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 207		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 208		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 209		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 210		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 211		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 212		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 213		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 214		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 215		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 216		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 217		HONOLULU HI 96817-3402	HONOLULU	HI	96817-3402
			RESIDENT	1122 BANYAN ST APT 300		HONOLULU HI 96817-3471	HONOLULU	HI	96817-3471
			RESIDENT	1122 BANYAN ST APT 301		HONOLULU HI 96817-3471	HONOLULU	HI	96817-3471

			RESIDENT	1122 BANYAN ST APT 302		HONOLULU HI 96817-3471	HONOLULU	HI	96817-3471
			RESIDENT	1122 BANYAN ST APT 303		HONOLULU HI 96817-3471	HONOLULU	HI	96817-3471
			RESIDENT	1122 BANYAN ST APT 304		HONOLULU HI 96817-3471	HONOLULU	HI	96817-3471
			RESIDENT	1122 BANYAN ST APT 305		HONOLULU HI 96817-3471	HONOLULU	HI	96817-3471
			RESIDENT	1122 BANYAN ST APT 306		HONOLULU HI 96817-3471	HONOLULU	HI	96817-3471
			RESIDENT	1122 BANYAN ST APT 307		HONOLULU HI 96817-3471	HONOLULU	HI	96817-3471
			RESIDENT	1122 BANYAN ST APT 308		HONOLULU HI 96817-3471	HONOLULU	HI	96817-3471
			RESIDENT	1122 BANYAN ST APT 309		HONOLULU HI 96817-3471	HONOLULU	HI	96817-3471
			RESIDENT	1122 BANYAN ST APT 310		HONOLULU HI 96817-3471	HONOLULU	HI	96817-3471
			RESIDENT	1122 BANYAN ST APT 311		HONOLULU HI 96817-3471	HONOLULU	HI	96817-3471
			RESIDENT	1122 BANYAN ST APT 312		HONOLULU HI 96817-3471	HONOLULU	HI	96817-3471
			RESIDENT	1122 BANYAN ST APT 313		HONOLULU HI 96817-3471	HONOLULU	HI	96817-3471
			RESIDENT	1122 BANYAN ST APT 314		HONOLULU HI 96817-3471	HONOLULU	HI	96817-3471
			RESIDENT	1122 BANYAN ST APT 315		HONOLULU HI 96817-3471	HONOLULU	HI	96817-3471
			RESIDENT	1122 BANYAN ST APT 316		HONOLULU HI 96817-3471	HONOLULU	HI	96817-3471
			RESIDENT	1122 BANYAN ST APT 317		HONOLULU HI 96817-3471	HONOLULU	HI	96817-3471
			RESIDENT	1122 BANYAN ST APT 400		HONOLULU HI 96817-3472	HONOLULU	HI	96817-3472
			RESIDENT	1122 BANYAN ST APT 401		HONOLULU HI 96817-3472	HONOLULU	HI	96817-3472
			RESIDENT	1122 BANYAN ST APT 402		HONOLULU HI 96817-3472	HONOLULU	HI	96817-3472
			RESIDENT	1122 BANYAN ST APT 403		HONOLULU HI 96817-3472	HONOLULU	HI	96817-3472
			RESIDENT	1122 BANYAN ST APT 404		HONOLULU HI 96817-3472	HONOLULU	HI	96817-3472
			RESIDENT	1122 BANYAN ST APT 405		HONOLULU HI 96817-3472	HONOLULU	HI	96817-3472
			RESIDENT	1122 BANYAN ST APT 406		HONOLULU HI 96817-3472	HONOLULU	HI	96817-3472
			RESIDENT	1122 BANYAN ST APT 407		HONOLULU HI 96817-3472	HONOLULU	HI	96817-3472
			RESIDENT	1122 BANYAN ST APT 408		HONOLULU HI 96817-3472	HONOLULU	HI	96817-3472
			RESIDENT	1122 BANYAN ST APT 409		HONOLULU HI 96817-3472	HONOLULU	HI	96817-3472
			RESIDENT	1122 BANYAN ST APT 410		HONOLULU HI 96817-3472	HONOLULU	HI	96817-3472
			RESIDENT	1122 BANYAN ST APT 411		HONOLULU HI 96817-3472	HONOLULU	HI	96817-3472
			RESIDENT	1122 BANYAN ST APT 412		HONOLULU HI 96817-3472	HONOLULU	HI	96817-3472
			RESIDENT	1122 BANYAN ST APT 413		HONOLULU HI 96817-3472	HONOLULU	HI	96817-3472
			RESIDENT	1122 BANYAN ST APT 414		HONOLULU HI 96817-3472	HONOLULU	HI	96817-3472
			RESIDENT	1122 BANYAN ST APT 415		HONOLULU HI 96817-3472	HONOLULU	HI	96817-3472
			RESIDENT	1122 BANYAN ST APT 416		HONOLULU HI 96817-3472	HONOLULU	HI	96817-3472
			RESIDENT	1122 BANYAN ST APT 417		HONOLULU HI 96817-3472	HONOLULU	HI	96817-3472
			RESIDENT	1110 BANYAN ST APT 101		HONOLULU HI 96817-3428	HONOLULU	HI	96817-3428
			RESIDENT	1110 BANYAN ST APT 102		HONOLULU HI 96817-3428	HONOLULU	HI	96817-3428
			RESIDENT	1110 BANYAN ST APT 103		HONOLULU HI 96817-3428	HONOLULU	HI	96817-3428
			RESIDENT	1110 BANYAN ST APT 104		HONOLULU HI 96817-3428	HONOLULU	HI	96817-3428
			RESIDENT	1110 BANYAN ST APT 105		HONOLULU HI 96817-3428	HONOLULU	HI	96817-3428
			RESIDENT	1110 BANYAN ST APT 201		HONOLULU HI 96817-3428	HONOLULU	HI	96817-3428
			RESIDENT	1110 BANYAN ST APT 202		HONOLULU HI 96817-3428	HONOLULU	HI	96817-3428
			RESIDENT	1110 BANYAN ST APT 203		HONOLULU HI 96817-3428	HONOLULU	HI	96817-3428
			RESIDENT	1110 BANYAN ST APT 204		HONOLULU HI 96817-3428	HONOLULU	HI	96817-3428
			RESIDENT	1110 BANYAN ST APT 205		HONOLULU HI 96817-3428	HONOLULU	HI	96817-3428
			RESIDENT	1110 BANYAN ST APT 301		HONOLULU HI 96817-3430	HONOLULU	HI	96817-3430
			RESIDENT	1110 BANYAN ST APT 302		HONOLULU HI 96817-3430	HONOLULU	HI	96817-3430
			RESIDENT	1110 BANYAN ST APT 303		HONOLULU HI 96817-3430	HONOLULU	HI	96817-3430
			RESIDENT	1110 BANYAN ST APT 304		HONOLULU HI 96817-3430	HONOLULU	HI	96817-3430
			RESIDENT	1110 BANYAN ST APT 401		HONOLULU HI 96817-3430	HONOLULU	HI	96817-3430
			RESIDENT	1110 BANYAN ST APT 402		HONOLULU HI 96817-3430	HONOLULU	HI	96817-3430
			RESIDENT	1110 BANYAN ST APT 403		HONOLULU HI 96817-3430	HONOLULU	HI	96817-3430
			RESIDENT	1110 BANYAN ST APT 404		HONOLULU HI 96817-3430	HONOLULU	HI	96817-3430
			RESIDENT	1110 BANYAN ST APT 405		HONOLULU HI 96817-3430	HONOLULU	HI	96817-3430
			RESIDENT	750 KANOA ST APT 101		HONOLULU HI 96817-3433	HONOLULU	HI	96817-3433
			RESIDENT	750 KANOA ST APT 102		HONOLULU HI 96817-3433	HONOLULU	HI	96817-3433
			RESIDENT	750 KANOA ST APT 103		HONOLULU HI 96817-3433	HONOLULU	HI	96817-3433
			RESIDENT	750 KANOA ST APT 104		HONOLULU HI 96817-3433	HONOLULU	HI	96817-3433
			RESIDENT	750 KANOA ST APT 201		HONOLULU HI 96817-3433	HONOLULU	HI	96817-3433
			RESIDENT	750 KANOA ST APT 202		HONOLULU HI 96817-3433	HONOLULU	HI	96817-3433
			RESIDENT	750 KANOA ST APT 203		HONOLULU HI 96817-3433	HONOLULU	HI	96817-3433
			RESIDENT	750 KANOA ST APT 303		HONOLULU HI 96817-3435	HONOLULU	HI	96817-3435
			RESIDENT	750 KANOA ST APT 304		HONOLULU HI 96817-3435	HONOLULU	HI	96817-3435
			RESIDENT	750 KANOA ST APT 305		HONOLULU HI 96817-3435	HONOLULU	HI	96817-3435
			RESIDENT	750 KANOA ST APT 306		HONOLULU HI 96817-3435	HONOLULU	HI	96817-3435
			RESIDENT	750 KANOA ST APT 307		HONOLULU HI 96817-3435	HONOLULU	HI	96817-3435
			RESIDENT	750 KANOA ST APT 308		HONOLULU HI 96817-3435	HONOLULU	HI	96817-3435
			RESIDENT	750 KANOA ST APT 401		HONOLULU HI 96817-3436	HONOLULU	HI	96817-3436
			RESIDENT	750 KANOA ST APT 204		HONOLULU HI 96817-3434	HONOLULU	HI	96817-3434
			RESIDENT	750 KANOA ST APT 205		HONOLULU HI 96817-3434	HONOLULU	HI	96817-3434
			RESIDENT	750 KANOA ST APT 206		HONOLULU HI 96817-3434	HONOLULU	HI	96817-3434
			RESIDENT	750 KANOA ST APT 207		HONOLULU HI 96817-3434	HONOLULU	HI	96817-3434
			RESIDENT	750 KANOA ST APT 208		HONOLULU HI 96817-3434	HONOLULU	HI	96817-3434

			RESIDENT	750 KANOA ST APT 301		HONOLULU HI 96817-3434	HONOLULU	HI	96817-3434
			RESIDENT	750 KANOA ST APT 302		HONOLULU HI 96817-3434	HONOLULU	HI	96817-3434
			RESIDENT	750 KANOA ST APT 402		HONOLULU HI 96817-3436	HONOLULU	HI	96817-3436
			RESIDENT	750 KANOA ST APT 403		HONOLULU HI 96817-3436	HONOLULU	HI	96817-3436
			RESIDENT	750 KANOA ST APT 404		HONOLULU HI 96817-3436	HONOLULU	HI	96817-3436
			RESIDENT	750 KANOA ST APT 405		HONOLULU HI 96817-3436	HONOLULU	HI	96817-3436
			RESIDENT	750 KANOA ST APT 406		HONOLULU HI 96817-3436	HONOLULU	HI	96817-3436
			RESIDENT	750 KANOA ST APT 408		HONOLULU HI 96817-3436	HONOLULU	HI	96817-3436
			RESIDENT	1203 PALAMA ST APT A		HONOLULU HI 96817-3450	HONOLULU	HI	96817-3450
			RESIDENT	1203 PALAMA ST APT A		HONOLULU HI 96817-3450	HONOLULU	HI	96817-3450
			RESIDENT	1213 PALAMA ST APT C		HONOLULU HI 96817-3496	HONOLULU	HI	96817-3496
			RESIDENT	1207 PALAMA ST		HONOLULU HI 96817-3450	HONOLULU	HI	96817-3450
			RESIDENT	1207 PALAMA ST		HONOLULU HI 96817-3450	HONOLULU	HI	96817-3450
			RESIDENT	1207 PALAMA ST		HONOLULU HI 96817-3450	HONOLULU	HI	96817-3450
			RESIDENT	1207 PALAMA ST		HONOLULU HI 96817-3450	HONOLULU	HI	96817-3450
			RESIDENT	1207 PALAMA ST		HONOLULU HI 96817-3450	HONOLULU	HI	96817-3450
			RESIDENT	1207 PALAMA ST		HONOLULU HI 96817-3450	HONOLULU	HI	96817-3450
			RESIDENT	1207 PALAMA ST		HONOLULU HI 96817-3450	HONOLULU	HI	96817-3450
			RESIDENT	1207 PALAMA ST		HONOLULU HI 96817-3450	HONOLULU	HI	96817-3450
			RESIDENT	1207 PALAMA ST		HONOLULU HI 96817-3450	HONOLULU	HI	96817-3450
			RESIDENT	1207 PALAMA ST		HONOLULU HI 96817-3450	HONOLULU	HI	96817-3450
			RESIDENT	1213 PALAMA ST		HONOLULU HI 96817-3450	HONOLULU	HI	96817-3450
			RESIDENT	1213 PALAMA ST APT A		HONOLULU HI 96817-3496	HONOLULU	HI	96817-3496
			RESIDENT	1213 PALAMA ST APT B		HONOLULU HI 96817-3496	HONOLULU	HI	96817-3496
			RESIDENT	1240 PALAMA ST		HONOLULU HI 96817-3449	HONOLULU	HI	96817-3449
			RESIDENT	1218 PALAMA ST		HONOLULU HI 96817-3449	HONOLULU	HI	96817-3449
			RESIDENT	1218 PALAMA ST APT A		HONOLULU HI 96817-6428	HONOLULU	HI	96817-6428
			RESIDENT	1214 PALAMA ST		HONOLULU HI 96817-3449	HONOLULU	HI	96817-3449
			RESIDENT	1214 PALAMA ST APT A		HONOLULU HI 96817-6427	HONOLULU	HI	96817-6427
			RESIDENT	1210 PALAMA ST APT A		HONOLULU HI 96817-3493	HONOLULU	HI	96817-3493
			RESIDENT	1210 PALAMA ST APT A		HONOLULU HI 96817-3493	HONOLULU	HI	96817-3493
			RESIDENT	1210 PALAMA ST APT C		HONOLULU HI 96817-3493	HONOLULU	HI	96817-3493
			RESIDENT	1124 PALAMA ST		HONOLULU HI 96817-3448	HONOLULU	HI	96817-3448
			RESIDENT	1120 PALAMA ST		HONOLULU HI 96817-3448	HONOLULU	HI	96817-3448
			RESIDENT	1118 PALAMA ST		HONOLULU HI 96817-3448	HONOLULU	HI	96817-3448
			RESIDENT	1110 PALAMA ST		HONOLULU HI 96817-3448	HONOLULU	HI	96817-3448
			RESIDENT	1012 PALAMA ST		HONOLULU HI 96817-3469	HONOLULU	HI	96817-3469
			BUSINESS OCCUPANT	802 N KING ST		HONOLULU HI 96817-4513	HONOLULU	HI	96817-4513
			RESIDENT	842 N KING ST		HONOLULU HI 96817-4513	HONOLULU	HI	96817-4513
			BUSINESS OCCUPANT	844 N KING ST		HONOLULU HI 96817-4513	HONOLULU	HI	96817-4513
			BUSINESS OCCUPANT	850 N KING ST		HONOLULU HI 96817-4513	HONOLULU	HI	96817-4513
			RESIDENT	1007 AUSTIN LN		HONOLULU HI 96817-3423	HONOLULU	HI	96817-3423
			RESIDENT	1007 AUSTIN LN		HONOLULU HI 96817-3423	HONOLULU	HI	96817-3423
			RESIDENT	1007 AUSTIN LN		HONOLULU HI 96817-3423	HONOLULU	HI	96817-3423
			RESIDENT	1007 AUSTIN LN		HONOLULU HI 96817-3423	HONOLULU	HI	96817-3423
			RESIDENT	1007 AUSTIN LN		HONOLULU HI 96817-3423	HONOLULU	HI	96817-3423
			RESIDENT	1007 AUSTIN LN		HONOLULU HI 96817-3423	HONOLULU	HI	96817-3423
			RESIDENT	1015 AUSTIN LN		HONOLULU HI 96817-3423	HONOLULU	HI	96817-3423
			BUSINESS OCCUPANT	888 N KING ST		HONOLULU HI 96817-4553	HONOLULU	HI	96817-4553
			BUSINESS OCCUPANT	930 N KING ST		HONOLULU HI 96817-4543	HONOLULU	HI	96817-4543
			BUSINESS OCCUPANT	952 N KING ST		HONOLULU HI 96817-4556	HONOLULU	HI	96817-4556
			BUSINESS OCCUPANT	1010 N KING ST		HONOLULU HI 96817-4515	HONOLULU	HI	96817-4515
			RESIDENT	1007 PETERSON LN APT 1		HONOLULU HI 96817-5505	HONOLULU	HI	96817-5505
			RESIDENT	1007 PETERSON LN APT 4		HONOLULU HI 96817-5505	HONOLULU	HI	96817-5505
			RESIDENT	1007 PETERSON LN APT 3		HONOLULU HI 96817-5505	HONOLULU	HI	96817-5505
			RESIDENT	1007 PETERSON LN APT 2		HONOLULU HI 96817-5505	HONOLULU	HI	96817-5505
			RESIDENT	1017 PETERSON LN		HONOLULU HI 96817-3453	HONOLULU	HI	96817-3453
			RESIDENT	857 KANOA ST		HONOLULU HI 96817-3440	HONOLULU	HI	96817-3440
			RESIDENT	819 KANOA ST		HONOLULU HI 96817-3438	HONOLULU	HI	96817-3438
			RESIDENT	815A KANOA ST		HONOLULU HI 96817-3438	HONOLULU	HI	96817-3438
			RESIDENT	815 KANOA ST		HONOLULU HI 96817-3438	HONOLULU	HI	96817-3438
			RESIDENT	809 KANOA ST		HONOLULU HI 96817-3438	HONOLULU	HI	96817-3438
			RESIDENT	805 KANOA ST		HONOLULU HI 96817-3438	HONOLULU	HI	96817-3438
			RESIDENT	801 KANOA ST		HONOLULU HI 96817-3438	HONOLULU	HI	96817-3438
			BUSINESS OCCUPANT	1104 PALAMA ST		HONOLULU HI 96817-3448	HONOLULU	HI	96817-3448
			RESIDENT	1104 PALAMA ST APT A		HONOLULU HI 96817-3448	HONOLULU	HI	96817-3448
			RESIDENT	1104 PALAMA ST APT B		HONOLULU HI 96817-3448	HONOLULU	HI	96817-3448
			RESIDENT	1104 PALAMA ST APT B		HONOLULU HI 96817-3448	HONOLULU	HI	96817-3448
			RESIDENT	810 KANOA ST		HONOLULU HI 96817-3437	HONOLULU	HI	96817-3437
			RESIDENT	810B KANOA ST		HONOLULU HI 96817-3437	HONOLULU	HI	96817-3437
			RESIDENT	814 KANOA ST		HONOLULU HI 96817-3437	HONOLULU	HI	96817-3437
			RESIDENT	814 KANOA ST APT A1		HONOLULU HI 96817-3495	HONOLULU	HI	96817-3495

			RESIDENT	814 KANOA ST APT A2		HONOLULU HI 96817-3495	HONOLULU	HI	96817-3495
			RESIDENT	814 KANOA ST APT B1		HONOLULU HI 96817-3495	HONOLULU	HI	96817-3495
			RESIDENT	814 KANOA ST APT B2		HONOLULU HI 96817-3495	HONOLULU	HI	96817-3495
			RESIDENT	814C KANOA ST		HONOLULU HI 96817-3437	HONOLULU	HI	96817-3437
			RESIDENT	1125 AUSTIN LN		HONOLULU HI 96817-3425	HONOLULU	HI	96817-3425
			RESIDENT	1127 AUSTIN LN		HONOLULU HI 96817-3425	HONOLULU	HI	96817-3425
			RESIDENT	1129 AUSTIN LN		HONOLULU HI 96817-3425	HONOLULU	HI	96817-3425
			RESIDENT	1131 AUSTIN LN		HONOLULU HI 96817-3425	HONOLULU	HI	96817-3425
			RESIDENT	1137 AUSTIN LN		HONOLULU HI 96817-3425	HONOLULU	HI	96817-3425
			RESIDENT	815 LOPEZ LN		HONOLULU HI 96817-3446	HONOLULU	HI	96817-3446
			RESIDENT	811 LOPEZ LN		HONOLULU HI 96817-3446	HONOLULU	HI	96817-3446
			RESIDENT	808 LOPEZ LN		HONOLULU HI 96817-3445	HONOLULU	HI	96817-3445
			RESIDENT	808A LOPEZ LN		HONOLULU HI 96817-3445	HONOLULU	HI	96817-3445
			RESIDENT	816 LOPEZ LN		HONOLULU HI 96817-3445	HONOLULU	HI	96817-3445
			RESIDENT	816 LOPEZ LN		HONOLULU HI 96817-3445	HONOLULU	HI	96817-3445
			RESIDENT	816 LOPEZ LN		HONOLULU HI 96817-3445	HONOLULU	HI	96817-3445
			RESIDENT	816 LOPEZ LN		HONOLULU HI 96817-3445	HONOLULU	HI	96817-3445
			RESIDENT	824A LOPEZ LN		HONOLULU HI 96817-3445	HONOLULU	HI	96817-3445
			RESIDENT	824C LOPEZ LN		HONOLULU HI 96817-3445	HONOLULU	HI	96817-3445
			RESIDENT	824 LOPEZ LN		HONOLULU HI 96817-3445	HONOLULU	HI	96817-3445
			RESIDENT	850 LOPEZ LN		HONOLULU HI 96817-3445	HONOLULU	HI	96817-3445
			RESIDENT	850 LOPEZ LN		HONOLULU HI 96817-3445	HONOLULU	HI	96817-3445
			RESIDENT	852 LOPEZ LN		HONOLULU HI 96817-3445	HONOLULU	HI	96817-3445
			RESIDENT	815C LOPEZ LN		HONOLULU HI 96817-3446	HONOLULU	HI	96817-3446
			RESIDENT	815D LOPEZ LN		HONOLULU HI 96817-3446	HONOLULU	HI	96817-3446
			RESIDENT	815E LOPEZ LN		HONOLULU HI 96817-3446	HONOLULU	HI	96817-3446
			RESIDENT	815F LOPEZ LN		HONOLULU HI 96817-3446	HONOLULU	HI	96817-3446
			RESIDENT	815G LOPEZ LN		HONOLULU HI 96817-3446	HONOLULU	HI	96817-3446
			RESIDENT	815H LOPEZ LN		HONOLULU HI 96817-3446	HONOLULU	HI	96817-3446
			RESIDENT	815I LOPEZ LN		HONOLULU HI 96817-3446	HONOLULU	HI	96817-3446
			RESIDENT	815 LOPEZ LN APT D1		HONOLULU HI 96817-5504	HONOLULU	HI	96817-5504
			RESIDENT	815 LOPEZ LN APT E1		HONOLULU HI 96817-5504	HONOLULU	HI	96817-5504
			RESIDENT	815 LOPEZ LN APT F1		HONOLULU HI 96817-5504	HONOLULU	HI	96817-5504
			RESIDENT	815 LOPEZ LN APT G1		HONOLULU HI 96817-5504	HONOLULU	HI	96817-5504
			RESIDENT	815 LOPEZ LN APT H1		HONOLULU HI 96817-5502	HONOLULU	HI	96817-5502
			RESIDENT	815 LOPEZ LN APT I1		HONOLULU HI 96817-5504	HONOLULU	HI	96817-5504
			RESIDENT	1120 AUSTIN LN		HONOLULU HI 96817-3424	HONOLULU	HI	96817-3424
			RESIDENT	1118 AUSTIN LN		HONOLULU HI 96817-3424	HONOLULU	HI	96817-3424
			RESIDENT	1114 AUSTIN LN		HONOLULU HI 96817-3424	HONOLULU	HI	96817-3424
			RESIDENT	1110 AUSTIN LN		HONOLULU HI 96817-3424	HONOLULU	HI	96817-3424
			RESIDENT	1106 AUSTIN LN		HONOLULU HI 96817-3424	HONOLULU	HI	96817-3424
			RESIDENT	1104 AUSTIN LN		HONOLULU HI 96817-3424	HONOLULU	HI	96817-3424
			RESIDENT	828B KANOA ST		HONOLULU HI 96817-3439	HONOLULU	HI	96817-3439
			RESIDENT	828C KANOA ST		HONOLULU HI 96817-3439	HONOLULU	HI	96817-3439
			RESIDENT	828D KANOA ST		HONOLULU HI 96817-3439	HONOLULU	HI	96817-3439
			RESIDENT	828A KANOA ST		HONOLULU HI 96817-3439	HONOLULU	HI	96817-3439
			RESIDENT	836 KANOA ST		HONOLULU HI 96817-3439	HONOLULU	HI	96817-3439
			RESIDENT	838 KANOA ST		HONOLULU HI 96817-3439	HONOLULU	HI	96817-3439
			RESIDENT	846 KANOA ST APT 1		HONOLULU HI 96817-3442	HONOLULU	HI	96817-3442
			RESIDENT	846 KANOA ST APT 3		HONOLULU HI 96817-3442	HONOLULU	HI	96817-3442
			RESIDENT	846 KANOA ST APT 4		HONOLULU HI 96817-3442	HONOLULU	HI	96817-3442
			RESIDENT	846 KANOA ST APT 5		HONOLULU HI 96817-3442	HONOLULU	HI	96817-3442
			RESIDENT	846 KANOA ST APT 6		HONOLULU HI 96817-3442	HONOLULU	HI	96817-3442
			RESIDENT	846 KANOA ST APT A		HONOLULU HI 96817-3442	HONOLULU	HI	96817-3442
			RESIDENT	846 KANOA ST APT B		HONOLULU HI 96817-3441	HONOLULU	HI	96817-3441
			RESIDENT	846 KANOA ST APT C		HONOLULU HI 96817-3441	HONOLULU	HI	96817-3441
			RESIDENT	846 KANOA ST APT D		HONOLULU HI 96817-3441	HONOLULU	HI	96817-3441
			RESIDENT	846 KANOA ST APT E		HONOLULU HI 96817-3441	HONOLULU	HI	96817-3441
			RESIDENT	846 KANOA ST APT F		HONOLULU HI 96817-3441	HONOLULU	HI	96817-3441
			RESIDENT	846 KANOA ST APT G		HONOLULU HI 96817-3441	HONOLULU	HI	96817-3441
			RESIDENT	846 KANOA ST APT H		HONOLULU HI 96817-3441	HONOLULU	HI	96817-3441
			RESIDENT	1112 PETERSON LN		HONOLULU HI 96817-3454	HONOLULU	HI	96817-3454
			RESIDENT	1112 PETERSON LN APT A		HONOLULU HI 96817-3454	HONOLULU	HI	96817-3454
			RESIDENT	1112 PETERSON LN APT A		HONOLULU HI 96817-3454	HONOLULU	HI	96817-3454
			RESIDENT	1114 PETERSON LN		HONOLULU HI 96817-3454	HONOLULU	HI	96817-3454
			RESIDENT	1114 PETERSON LN		HONOLULU HI 96817-3454	HONOLULU	HI	96817-3454
			RESIDENT	1114 PETERSON LN APT A		HONOLULU HI 96817-3454	HONOLULU	HI	96817-3454
			RESIDENT	1118 PETERSON LN		HONOLULU HI 96817-3454	HONOLULU	HI	96817-3454
			RESIDENT	1122 PETERSON LN		HONOLULU HI 96817-3454	HONOLULU	HI	96817-3454
			RESIDENT	1122 PETERSON LN APT A		HONOLULU HI 96817-3454	HONOLULU	HI	96817-3454
			RESIDENT	1203 PETERSON LN		HONOLULU HI 96817-3456	HONOLULU	HI	96817-3456
			RESIDENT	1207 PETERSON LN APT A		HONOLULU HI 96817-3456	HONOLULU	HI	96817-3456

			RESIDENT	1207 PETERSON LN APT A		HONOLULU HI 96817-3456	HONOLULU	HI	96817-3456
			RESIDENT	1207 PETERSON LN APT A		HONOLULU HI 96817-3456	HONOLULU	HI	96817-3456
			RESIDENT	1207 PETERSON LN APT A		HONOLULU HI 96817-3456	HONOLULU	HI	96817-3456
			RESIDENT	1206 PETERSON LN		HONOLULU HI 96817-3455	HONOLULU	HI	96817-3455
			RESIDENT	1208 PETERSON LN		HONOLULU HI 96817-3455	HONOLULU	HI	96817-3455
			RESIDENT	1210 PETERSON LN		HONOLULU HI 96817-3455	HONOLULU	HI	96817-3455
			RESIDENT	1211 PETERSON LN APT A		HONOLULU HI 96817-6429	HONOLULU	HI	96817-6429
			RESIDENT	1211 PETERSON LN APT B		HONOLULU HI 96817-6429	HONOLULU	HI	96817-6429
			RESIDENT	1211 PETERSON LN		HONOLULU HI 96817-3456	HONOLULU	HI	96817-3456
			RESIDENT	1216 PETERSON LN		HONOLULU HI 96817-3455	HONOLULU	HI	96817-3455
			RESIDENT	1216 PETERSON LN		HONOLULU HI 96817-3455	HONOLULU	HI	96817-3455
			RESIDENT	1216 PETERSON LN APT A		HONOLULU HI 96817-3455	HONOLULU	HI	96817-3455
			RESIDENT	1219 PETERSON LN		HONOLULU HI 96817-3456	HONOLULU	HI	96817-3456
			RESIDENT	1220 PETERSON LN		HONOLULU HI 96817-3455	HONOLULU	HI	96817-3455
			RESIDENT	1220 PETERSON LN		HONOLULU HI 96817-3455	HONOLULU	HI	96817-3455
			RESIDENT	1220 PETERSON LN		HONOLULU HI 96817-3455	HONOLULU	HI	96817-3455
			RESIDENT	1225 PETERSON LN		HONOLULU HI 96817-3456	HONOLULU	HI	96817-3456
			RESIDENT	1226 PETERSON LN		HONOLULU HI 96817-3455	HONOLULU	HI	96817-3455
			RESIDENT	835 LAKIMELA LN APT A		HONOLULU HI 96817-6430	HONOLULU	HI	96817-6430
			RESIDENT	835 LAKIMELA LN APT B		HONOLULU HI 96817-6430	HONOLULU	HI	96817-6430
			RESIDENT	834 LAKIMELA LN		HONOLULU HI 96817-3443	HONOLULU	HI	96817-3443
			RESIDENT	832 LAKIMELA LN		HONOLULU HI 96817-3443	HONOLULU	HI	96817-3443
			RESIDENT	829 LAKIMELA LN APT A		HONOLULU HI 96817-3498	HONOLULU	HI	96817-3498
			RESIDENT	829 LAKIMELA LN APT B		HONOLULU HI 96817-3498	HONOLULU	HI	96817-3498
			RESIDENT	829 LAKIMELA LN APT C		HONOLULU HI 96817-3498	HONOLULU	HI	96817-3498
			RESIDENT	829 LAKIMELA LN APT D		HONOLULU HI 96817-3498	HONOLULU	HI	96817-3498
			RESIDENT	829 LAKIMELA LN APT E		HONOLULU HI 96817-3498	HONOLULU	HI	96817-3498
			RESIDENT	829 LAKIMELA LN APT F		HONOLULU HI 96817-3498	HONOLULU	HI	96817-3498
			RESIDENT	829 LAKIMELA LN APT G		HONOLULU HI 96817-3422	HONOLULU	HI	96817-3422
			RESIDENT	829 LAKIMELA LN APT H		HONOLULU HI 96817-3422	HONOLULU	HI	96817-3422
			RESIDENT	829 LAKIMELA LN APT I		HONOLULU HI 96817-3422	HONOLULU	HI	96817-3422
			RESIDENT	829 LAKIMELA LN APT J		HONOLULU HI 96817-3422	HONOLULU	HI	96817-3422
			RESIDENT	829 LAKIMELA LN APT K		HONOLULU HI 96817-3422	HONOLULU	HI	96817-3422
			RESIDENT	829 LAKIMELA LN APT L		HONOLULU HI 96817-3422	HONOLULU	HI	96817-3422
			RESIDENT	828 LAKIMELA LN		HONOLULU HI 96817-3443	HONOLULU	HI	96817-3443
			RESIDENT	824 LAKIMELA LN		HONOLULU HI 96817-3443	HONOLULU	HI	96817-3443
			RESIDENT	817 LAKIMELA LN		HONOLULU HI 96817-3444	HONOLULU	HI	96817-3444
			RESIDENT	823 LAKIMELA LN		HONOLULU HI 96817-3444	HONOLULU	HI	96817-3444
			RESIDENT	817 LAKIMELA LN APT A		HONOLULU HI 96817-3444	HONOLULU	HI	96817-3444
			RESIDENT	823 LAKIMELA LN APT A		HONOLULU HI 96817-6431	HONOLULU	HI	96817-6431
			RESIDENT	823 LAKIMELA LN APT B		HONOLULU HI 96817-6431	HONOLULU	HI	96817-6431
			RESIDENT	811 LAKIMELA LN APT E		HONOLULU HI 96817-5507	HONOLULU	HI	96817-5507
			RESIDENT	811 LAKIMELA LN APT D		HONOLULU HI 96817-5507	HONOLULU	HI	96817-5507
			RESIDENT	811 LAKIMELA LN APT C		HONOLULU HI 96817-5507	HONOLULU	HI	96817-5507
			RESIDENT	811 LAKIMELA LN APT B		HONOLULU HI 96817-5507	HONOLULU	HI	96817-5507
			RESIDENT	811 LAKIMELA LN APT A		HONOLULU HI 96817-5507	HONOLULU	HI	96817-5507
			RESIDENT	814 LAKIMELA LN		HONOLULU HI 96817-3443	HONOLULU	HI	96817-3443
			RESIDENT	814 LAKIMELA LN APT A		HONOLULU HI 96817-3443	HONOLULU	HI	96817-3443
			RESIDENT	811 LAKIMELA LN		HONOLULU HI 96817-3444	HONOLULU	HI	96817-3444
			RESIDENT	820 LAKIMELA LN		HONOLULU HI 96817-3443	HONOLULU	HI	96817-3443
			RESIDENT	1102 DESHA LN APT A		HONOLULU HI 96817-4614	HONOLULU	HI	96817-4614
			RESIDENT	1102 DESHA LN APT B		HONOLULU HI 96817-4614	HONOLULU	HI	96817-4614
			RESIDENT	1102 DESHA LN APT C		HONOLULU HI 96817-4614	HONOLULU	HI	96817-4614
			RESIDENT	1102 DESHA LN APT D		HONOLULU HI 96817-4614	HONOLULU	HI	96817-4614
			RESIDENT	1102 DESHA LN APT E		HONOLULU HI 96817-4614	HONOLULU	HI	96817-4614
			RESIDENT	1102 DESHA LN APT F		HONOLULU HI 96817-4614	HONOLULU	HI	96817-4614
			RESIDENT	1102 DESHA LN APT G		HONOLULU HI 96817-4614	HONOLULU	HI	96817-4614
			RESIDENT	1102 DESHA LN APT H		HONOLULU HI 96817-4614	HONOLULU	HI	96817-4614
			RESIDENT	1102 DESHA LN APT J		HONOLULU HI 96817-4614	HONOLULU	HI	96817-4614
			RESIDENT	1102 DESHA LN APT K		HONOLULU HI 96817-4614	HONOLULU	HI	96817-4614
			RESIDENT	1102 DESHA LN APT L		HONOLULU HI 96817-4614	HONOLULU	HI	96817-4614
			RESIDENT	1102 DESHA LN APT M		HONOLULU HI 96817-4614	HONOLULU	HI	96817-4614
			RESIDENT	1105 DESHA LN APT A		HONOLULU HI 96817-4671	HONOLULU	HI	96817-4671
			RESIDENT	1105 DESHA LN APT B		HONOLULU HI 96817-4671	HONOLULU	HI	96817-4671
			RESIDENT	1105 DESHA LN APT C		HONOLULU HI 96817-4671	HONOLULU	HI	96817-4671
			RESIDENT	1105 DESHA LN APT D		HONOLULU HI 96817-4671	HONOLULU	HI	96817-4671
			RESIDENT	1105 DESHA LN APT E		HONOLULU HI 96817-4616	HONOLULU	HI	96817-4616
			RESIDENT	1105 DESHA LN APT F		HONOLULU HI 96817-4616	HONOLULU	HI	96817-4616
			RESIDENT	1105 DESHA LN APT G		HONOLULU HI 96817-4616	HONOLULU	HI	96817-4616
			RESIDENT	1105 DESHA LN APT H		HONOLULU HI 96817-4616	HONOLULU	HI	96817-4616
			RESIDENT	1105 DESHA LN APT J		HONOLULU HI 96817-4616	HONOLULU	HI	96817-4616
			RESIDENT	1105 DESHA LN APT K		HONOLULU HI 96817-4616	HONOLULU	HI	96817-4616

			RESIDENT	1105 DESHA LN APT L		HONOLULU HI 96817-4616	HONOLULU	HI	96817-4616
			RESIDENT	1105 DESHA LN APT M		HONOLULU HI 96817-4616	HONOLULU	HI	96817-4616
			RESIDENT	1120 DESHA LN APT A		HONOLULU HI 96817-4618	HONOLULU	HI	96817-4618
			RESIDENT	1120 DESHA LN APT B		HONOLULU HI 96817-4618	HONOLULU	HI	96817-4618
			RESIDENT	1120 DESHA LN APT C		HONOLULU HI 96817-4618	HONOLULU	HI	96817-4618
			RESIDENT	1120 DESHA LN APT D		HONOLULU HI 96817-4618	HONOLULU	HI	96817-4618
			RESIDENT	1120 DESHA LN APT E		HONOLULU HI 96817-4618	HONOLULU	HI	96817-4618
			RESIDENT	1120 DESHA LN APT F		HONOLULU HI 96817-4618	HONOLULU	HI	96817-4618
			RESIDENT	1120 DESHA LN APT G		HONOLULU HI 96817-4618	HONOLULU	HI	96817-4618
			RESIDENT	1120 DESHA LN APT H		HONOLULU HI 96817-4618	HONOLULU	HI	96817-4618
			RESIDENT	1120 DESHA LN APT J		HONOLULU HI 96817-4678	HONOLULU	HI	96817-4678
			RESIDENT	1120 DESHA LN APT K		HONOLULU HI 96817-4678	HONOLULU	HI	96817-4678
			RESIDENT	1120 DESHA LN APT L		HONOLULU HI 96817-4678	HONOLULU	HI	96817-4678
			RESIDENT	1120 DESHA LN APT M		HONOLULU HI 96817-4678	HONOLULU	HI	96817-4678
			RESIDENT	1123 DESHA LN APT A		HONOLULU HI 96817-4620	HONOLULU	HI	96817-4620
			RESIDENT	1123 DESHA LN APT B		HONOLULU HI 96817-4620	HONOLULU	HI	96817-4620
			RESIDENT	1123 DESHA LN APT C		HONOLULU HI 96817-4620	HONOLULU	HI	96817-4620
			RESIDENT	1123 DESHA LN APT D		HONOLULU HI 96817-4620	HONOLULU	HI	96817-4620
			RESIDENT	1123 DESHA LN APT E		HONOLULU HI 96817-4620	HONOLULU	HI	96817-4620
			RESIDENT	1123 DESHA LN APT F		HONOLULU HI 96817-4620	HONOLULU	HI	96817-4620
			RESIDENT	1123 DESHA LN APT G		HONOLULU HI 96817-4620	HONOLULU	HI	96817-4620
			RESIDENT	1123 DESHA LN APT H		HONOLULU HI 96817-4620	HONOLULU	HI	96817-4620
			RESIDENT	1123 DESHA LN APT J		HONOLULU HI 96817-4620	HONOLULU	HI	96817-4620
			RESIDENT	1123 DESHA LN APT K		HONOLULU HI 96817-4620	HONOLULU	HI	96817-4620
			RESIDENT	1123 DESHA LN APT L		HONOLULU HI 96817-4620	HONOLULU	HI	96817-4620
			RESIDENT	1123 DESHA LN APT M		HONOLULU HI 96817-4620	HONOLULU	HI	96817-4620
			RESIDENT	550 N KING ST APT A		HONOLULU HI 96817-4650	HONOLULU	HI	96817-4650
			RESIDENT	550 N KING ST APT B		HONOLULU HI 96817-4650	HONOLULU	HI	96817-4650
			RESIDENT	550 N KING ST APT C		HONOLULU HI 96817-4650	HONOLULU	HI	96817-4650
			RESIDENT	550 N KING ST APT D		HONOLULU HI 96817-4650	HONOLULU	HI	96817-4650
			RESIDENT	550 N KING ST APT E		HONOLULU HI 96817-4650	HONOLULU	HI	96817-4650
			RESIDENT	550 N KING ST APT F		HONOLULU HI 96817-4650	HONOLULU	HI	96817-4650
			RESIDENT	550 N KING ST APT G		HONOLULU HI 96817-4605	HONOLULU	HI	96817-4605
			RESIDENT	550 N KING ST APT H		HONOLULU HI 96817-4605	HONOLULU	HI	96817-4605
			RESIDENT	550 N KING ST APT J		HONOLULU HI 96817-4605	HONOLULU	HI	96817-4605
			RESIDENT	550 N KING ST APT K		HONOLULU HI 96817-4605	HONOLULU	HI	96817-4605
			RESIDENT	550 N KING ST APT M		HONOLULU HI 96817-4605	HONOLULU	HI	96817-4605
			RESIDENT	550 N KING ST APT N		HONOLULU HI 96817-4605	HONOLULU	HI	96817-4605
			RESIDENT	550 N KING ST APT P		HONOLULU HI 96817-4605	HONOLULU	HI	96817-4605
			RESIDENT	550 N KING ST APT Q		HONOLULU HI 96817-4605	HONOLULU	HI	96817-4605
			RESIDENT	550 N KING ST APT R		HONOLULU HI 96817-4605	HONOLULU	HI	96817-4605
			RESIDENT	550 N KING ST APT S		HONOLULU HI 96817-6600	HONOLULU	HI	96817-6600
			RESIDENT	550 N KING ST APT T		HONOLULU HI 96817-6600	HONOLULU	HI	96817-6600
			RESIDENT	568 N KING ST APT A		HONOLULU HI 96817-4606	HONOLULU	HI	96817-4606
			RESIDENT	568 N KING ST APT B		HONOLULU HI 96817-4606	HONOLULU	HI	96817-4606
			RESIDENT	568 N KING ST APT C		HONOLULU HI 96817-4606	HONOLULU	HI	96817-4606
			RESIDENT	568 N KING ST APT D		HONOLULU HI 96817-4606	HONOLULU	HI	96817-4606
			RESIDENT	568 N KING ST APT E		HONOLULU HI 96817-4606	HONOLULU	HI	96817-4606
			RESIDENT	568 N KING ST APT F		HONOLULU HI 96817-4606	HONOLULU	HI	96817-4606
			RESIDENT	568 N KING ST APT G		HONOLULU HI 96817-4606	HONOLULU	HI	96817-4606
			RESIDENT	568 N KING ST APT H		HONOLULU HI 96817-4606	HONOLULU	HI	96817-4606
			RESIDENT	568 N KING ST APT J		HONOLULU HI 96817-4606	HONOLULU	HI	96817-4606
			RESIDENT	568 N KING ST APT K		HONOLULU HI 96817-4606	HONOLULU	HI	96817-4606
			RESIDENT	568 N KING ST APT L		HONOLULU HI 96817-4606	HONOLULU	HI	96817-4606
			RESIDENT	568 N KING ST APT M		HONOLULU HI 96817-4606	HONOLULU	HI	96817-4606
			RESIDENT	520 N KUKUI ST APT A		HONOLULU HI 96817-3847	HONOLULU	HI	96817-3847
			RESIDENT	520 N KUKUI ST APT B		HONOLULU HI 96817-3847	HONOLULU	HI	96817-3847
			RESIDENT	520 N KUKUI ST APT C		HONOLULU HI 96817-3847	HONOLULU	HI	96817-3847
			RESIDENT	520 N KUKUI ST APT D		HONOLULU HI 96817-3847	HONOLULU	HI	96817-3847
			RESIDENT	520 N KUKUI ST APT E		HONOLULU HI 96817-3847	HONOLULU	HI	96817-3847
			RESIDENT	520 N KUKUI ST APT F		HONOLULU HI 96817-3847	HONOLULU	HI	96817-3847
			RESIDENT	520 N KUKUI ST APT G		HONOLULU HI 96817-3847	HONOLULU	HI	96817-3847
			RESIDENT	520 N KUKUI ST APT H		HONOLULU HI 96817-3847	HONOLULU	HI	96817-3847
			RESIDENT	520 N KUKUI ST APT J		HONOLULU HI 96817-3847	HONOLULU	HI	96817-3847
			RESIDENT	520 N KUKUI ST APT K		HONOLULU HI 96817-3847	HONOLULU	HI	96817-3847
			RESIDENT	520 N KUKUI ST APT L		HONOLULU HI 96817-3847	HONOLULU	HI	96817-3847
			RESIDENT	520 N KUKUI ST APT M		HONOLULU HI 96817-3847	HONOLULU	HI	96817-3847
			RESIDENT	545 N KUKUI ST APT A		HONOLULU HI 96817-3861	HONOLULU	HI	96817-3861
			RESIDENT	545 N KUKUI ST APT B		HONOLULU HI 96817-3861	HONOLULU	HI	96817-3861
			RESIDENT	545 N KUKUI ST APT C		HONOLULU HI 96817-3861	HONOLULU	HI	96817-3861
			RESIDENT	545 N KUKUI ST APT D		HONOLULU HI 96817-3861	HONOLULU	HI	96817-3861
			RESIDENT	545 N KUKUI ST APT E		HONOLULU HI 96817-3849	HONOLULU	HI	96817-3849

			RESIDENT	545 N KUKUI ST APT F		HONOLULU HI 96817-3849	HONOLULU	HI	96817-3849
			RESIDENT	545 N KUKUI ST APT G		HONOLULU HI 96817-3849	HONOLULU	HI	96817-3849
			RESIDENT	545 N KUKUI ST APT H		HONOLULU HI 96817-3849	HONOLULU	HI	96817-3849
			RESIDENT	545 N KUKUI ST APT J		HONOLULU HI 96817-3849	HONOLULU	HI	96817-3849
			RESIDENT	545 N KUKUI ST APT K		HONOLULU HI 96817-3849	HONOLULU	HI	96817-3849
			RESIDENT	545 N KUKUI ST APT L		HONOLULU HI 96817-3849	HONOLULU	HI	96817-3849
			RESIDENT	545 N KUKUI ST APT M		HONOLULU HI 96817-3849	HONOLULU	HI	96817-3849
			RESIDENT	546 N KUKUI ST APT A		HONOLULU HI 96817-3850	HONOLULU	HI	96817-3850
			RESIDENT	546 N KUKUI ST APT B		HONOLULU HI 96817-3850	HONOLULU	HI	96817-3850
			RESIDENT	546 N KUKUI ST APT C		HONOLULU HI 96817-3850	HONOLULU	HI	96817-3850
			RESIDENT	546 N KUKUI ST APT D		HONOLULU HI 96817-3850	HONOLULU	HI	96817-3850
			RESIDENT	546 N KUKUI ST APT E		HONOLULU HI 96817-3850	HONOLULU	HI	96817-3850
			RESIDENT	546 N KUKUI ST APT F		HONOLULU HI 96817-3850	HONOLULU	HI	96817-3850
			RESIDENT	546 N KUKUI ST APT G		HONOLULU HI 96817-3850	HONOLULU	HI	96817-3850
			RESIDENT	546 N KUKUI ST APT H		HONOLULU HI 96817-3850	HONOLULU	HI	96817-3850
			RESIDENT	546 N KUKUI ST APT J		HONOLULU HI 96817-3865	HONOLULU	HI	96817-3865
			RESIDENT	546 N KUKUI ST APT K		HONOLULU HI 96817-3865	HONOLULU	HI	96817-3865
			RESIDENT	546 N KUKUI ST APT L		HONOLULU HI 96817-3865	HONOLULU	HI	96817-3865
			RESIDENT	546 N KUKUI ST APT M		HONOLULU HI 96817-3865	HONOLULU	HI	96817-3865
			RESIDENT	565 N KUKUI ST APT A		HONOLULU HI 96817-3851	HONOLULU	HI	96817-3851
			RESIDENT	565 N KUKUI ST APT B		HONOLULU HI 96817-3851	HONOLULU	HI	96817-3851
			RESIDENT	565 N KUKUI ST APT C		HONOLULU HI 96817-3851	HONOLULU	HI	96817-3851
			RESIDENT	565 N KUKUI ST APT D		HONOLULU HI 96817-3851	HONOLULU	HI	96817-3851
			RESIDENT	566 N KUKUI ST APT A		HONOLULU HI 96817-3852	HONOLULU	HI	96817-3852
			RESIDENT	566 N KUKUI ST APT B		HONOLULU HI 96817-3852	HONOLULU	HI	96817-3852
			RESIDENT	566 N KUKUI ST APT C		HONOLULU HI 96817-3852	HONOLULU	HI	96817-3852
			RESIDENT	566 N KUKUI ST APT D		HONOLULU HI 96817-3852	HONOLULU	HI	96817-3852
			RESIDENT	566 N KUKUI ST APT E		HONOLULU HI 96817-3852	HONOLULU	HI	96817-3852
			RESIDENT	566 N KUKUI ST APT F		HONOLULU HI 96817-3852	HONOLULU	HI	96817-3852
			RESIDENT	576 N KUKUI ST APT A		HONOLULU HI 96817-3820	HONOLULU	HI	96817-3820
			RESIDENT	576 N KUKUI ST APT B		HONOLULU HI 96817-3820	HONOLULU	HI	96817-3820
			RESIDENT	576 N KUKUI ST APT C		HONOLULU HI 96817-3867	HONOLULU	HI	96817-3867
			RESIDENT	576 N KUKUI ST APT D		HONOLULU HI 96817-3867	HONOLULU	HI	96817-3867
			RESIDENT	579 N KUKUI ST APT A		HONOLULU HI 96817-3854	HONOLULU	HI	96817-3854
			RESIDENT	579 N KUKUI ST APT B		HONOLULU HI 96817-3854	HONOLULU	HI	96817-3854
			RESIDENT	579 N KUKUI ST APT C		HONOLULU HI 96817-3854	HONOLULU	HI	96817-3854
			RESIDENT	579 N KUKUI ST APT D		HONOLULU HI 96817-3854	HONOLULU	HI	96817-3854
			RESIDENT	606 N KUKUI ST APT A		HONOLULU HI 96817-3857	HONOLULU	HI	96817-3857
			RESIDENT	606 N KUKUI ST APT B		HONOLULU HI 96817-3857	HONOLULU	HI	96817-3857
			RESIDENT	606 N KUKUI ST APT C		HONOLULU HI 96817-3857	HONOLULU	HI	96817-3857
			RESIDENT	606 N KUKUI ST APT D		HONOLULU HI 96817-3857	HONOLULU	HI	96817-3857
			RESIDENT	606 N KUKUI ST APT E		HONOLULU HI 96817-3857	HONOLULU	HI	96817-3857
			RESIDENT	606 N KUKUI ST APT F		HONOLULU HI 96817-3857	HONOLULU	HI	96817-3857
			RESIDENT	617 N KUKUI ST APT A		HONOLULU HI 96817-3869	HONOLULU	HI	96817-3869
			RESIDENT	617 N KUKUI ST APT B		HONOLULU HI 96817-3869	HONOLULU	HI	96817-3869
			RESIDENT	617 N KUKUI ST APT C		HONOLULU HI 96817-3858	HONOLULU	HI	96817-3858
			RESIDENT	617 N KUKUI ST APT D		HONOLULU HI 96817-3858	HONOLULU	HI	96817-3858
			RESIDENT	617 N KUKUI ST APT E		HONOLULU HI 96817-3858	HONOLULU	HI	96817-3858
			RESIDENT	617 N KUKUI ST APT F		HONOLULU HI 96817-3858	HONOLULU	HI	96817-3858
			RESIDENT	620 N KUKUI ST APT A		HONOLULU HI 96817-3843	HONOLULU	HI	96817-3843
			RESIDENT	620 N KUKUI ST APT B		HONOLULU HI 96817-3843	HONOLULU	HI	96817-3843
			RESIDENT	620 N KUKUI ST APT C		HONOLULU HI 96817-3843	HONOLULU	HI	96817-3843
			RESIDENT	620 N KUKUI ST APT D		HONOLULU HI 96817-3843	HONOLULU	HI	96817-3843
			RESIDENT	630 N KUKUI ST APT A		HONOLULU HI 96817-3848	HONOLULU	HI	96817-3848
			RESIDENT	630 N KUKUI ST APT B		HONOLULU HI 96817-3848	HONOLULU	HI	96817-3848
			RESIDENT	630 N KUKUI ST APT C		HONOLULU HI 96817-3848	HONOLULU	HI	96817-3848
			RESIDENT	630 N KUKUI ST APT D		HONOLULU HI 96817-3848	HONOLULU	HI	96817-3848
			RESIDENT	630 N KUKUI ST APT E		HONOLULU HI 96817-3848	HONOLULU	HI	96817-3848
			RESIDENT	630 N KUKUI ST APT F		HONOLULU HI 96817-3848	HONOLULU	HI	96817-3848
			RESIDENT	631 N KUKUI ST APT A		HONOLULU HI 96817-3873	HONOLULU	HI	96817-3873
			RESIDENT	631 N KUKUI ST APT B		HONOLULU HI 96817-3873	HONOLULU	HI	96817-3873
			RESIDENT	631 N KUKUI ST APT C		HONOLULU HI 96817-3853	HONOLULU	HI	96817-3853
			RESIDENT	631 N KUKUI ST APT D		HONOLULU HI 96817-3853	HONOLULU	HI	96817-3853
			RESIDENT	631 N KUKUI ST APT E		HONOLULU HI 96817-3853	HONOLULU	HI	96817-3853
			RESIDENT	631 N KUKUI ST APT F		HONOLULU HI 96817-3853	HONOLULU	HI	96817-3853
			RESIDENT	650 N KUKUI ST APT A		HONOLULU HI 96817-3862	HONOLULU	HI	96817-3862
			RESIDENT	650 N KUKUI ST APT B		HONOLULU HI 96817-3862	HONOLULU	HI	96817-3862
			RESIDENT	650 N KUKUI ST APT C		HONOLULU HI 96817-3862	HONOLULU	HI	96817-3862
			RESIDENT	650 N KUKUI ST APT D		HONOLULU HI 96817-3862	HONOLULU	HI	96817-3862
			RESIDENT	650 N KUKUI ST APT E		HONOLULU HI 96817-3862	HONOLULU	HI	96817-3862
			RESIDENT	650 N KUKUI ST APT F		HONOLULU HI 96817-3862	HONOLULU	HI	96817-3862
			RESIDENT	650 N KUKUI ST APT G		HONOLULU HI 96817-3862	HONOLULU	HI	96817-3862

			RESIDENT	650 N KUKUI ST APT H		HONOLULU HI 96817-3862	HONOLULU	HI	96817-3862
			RESIDENT	650 N KUKUI ST APT J		HONOLULU HI 96817-3862	HONOLULU	HI	96817-3862
			RESIDENT	650 N KUKUI ST APT K		HONOLULU HI 96817-3862	HONOLULU	HI	96817-3862
			RESIDENT	650 N KUKUI ST APT L		HONOLULU HI 96817-3862	HONOLULU	HI	96817-3862
			RESIDENT	650 N KUKUI ST APT M		HONOLULU HI 96817-3862	HONOLULU	HI	96817-3862
			RESIDENT	651 N KUKUI ST APT A		HONOLULU HI 96817-3864	HONOLULU	HI	96817-3864
			RESIDENT	651 N KUKUI ST APT B		HONOLULU HI 96817-3864	HONOLULU	HI	96817-3864
			RESIDENT	651 N KUKUI ST APT C		HONOLULU HI 96817-3864	HONOLULU	HI	96817-3864
			RESIDENT	651 N KUKUI ST APT D		HONOLULU HI 96817-3864	HONOLULU	HI	96817-3864
			RESIDENT	651 N KUKUI ST APT E		HONOLULU HI 96817-3864	HONOLULU	HI	96817-3864
			RESIDENT	651 N KUKUI ST APT F		HONOLULU HI 96817-3864	HONOLULU	HI	96817-3864
			RESIDENT	651 N KUKUI ST APT G		HONOLULU HI 96817-3864	HONOLULU	HI	96817-3864
			RESIDENT	651 N KUKUI ST APT H		HONOLULU HI 96817-3864	HONOLULU	HI	96817-3864
			RESIDENT	651 N KUKUI ST APT J		HONOLULU HI 96817-3864	HONOLULU	HI	96817-3864
			RESIDENT	651 N KUKUI ST APT K		HONOLULU HI 96817-3864	HONOLULU	HI	96817-3864
			RESIDENT	651 N KUKUI ST APT L		HONOLULU HI 96817-3864	HONOLULU	HI	96817-3864
			RESIDENT	651 N KUKUI ST APT M		HONOLULU HI 96817-3864	HONOLULU	HI	96817-3864
			RESIDENT	1020 LILIHA ST APT A		HONOLULU HI 96817-4626	HONOLULU	HI	96817-4626
			RESIDENT	1020 LILIHA ST APT B		HONOLULU HI 96817-4626	HONOLULU	HI	96817-4626
			RESIDENT	1020 LILIHA ST APT C		HONOLULU HI 96817-4626	HONOLULU	HI	96817-4626
			RESIDENT	1020 LILIHA ST APT D		HONOLULU HI 96817-4626	HONOLULU	HI	96817-4626
			RESIDENT	1020 LILIHA ST APT E		HONOLULU HI 96817-4626	HONOLULU	HI	96817-4626
			RESIDENT	1020 LILIHA ST APT F		HONOLULU HI 96817-4626	HONOLULU	HI	96817-4626
			RESIDENT	1020 LILIHA ST APT G		HONOLULU HI 96817-4626	HONOLULU	HI	96817-4626
			RESIDENT	1020 LILIHA ST APT H		HONOLULU HI 96817-4626	HONOLULU	HI	96817-4626
			RESIDENT	1020 LILIHA ST APT J		HONOLULU HI 96817-4654	HONOLULU	HI	96817-4654
			RESIDENT	1020 LILIHA ST APT K		HONOLULU HI 96817-4654	HONOLULU	HI	96817-4654
			RESIDENT	1020 LILIHA ST APT L		HONOLULU HI 96817-4654	HONOLULU	HI	96817-4654
			RESIDENT	1020 LILIHA ST APT M		HONOLULU HI 96817-4654	HONOLULU	HI	96817-4654
			RESIDENT	1104 LILIHA ST APT A		HONOLULU HI 96817-4627	HONOLULU	HI	96817-4627
			RESIDENT	1104 LILIHA ST APT B		HONOLULU HI 96817-4627	HONOLULU	HI	96817-4627
			RESIDENT	1104 LILIHA ST APT C		HONOLULU HI 96817-4627	HONOLULU	HI	96817-4627
			RESIDENT	1104 LILIHA ST APT D		HONOLULU HI 96817-4627	HONOLULU	HI	96817-4627
			RESIDENT	1104 LILIHA ST APT E		HONOLULU HI 96817-4627	HONOLULU	HI	96817-4627
			RESIDENT	1104 LILIHA ST APT F		HONOLULU HI 96817-4627	HONOLULU	HI	96817-4627
			RESIDENT	1104 LILIHA ST APT G		HONOLULU HI 96817-4627	HONOLULU	HI	96817-4627
			RESIDENT	1104 LILIHA ST APT H		HONOLULU HI 96817-4635	HONOLULU	HI	96817-4635
			RESIDENT	1104 LILIHA ST APT J		HONOLULU HI 96817-4635	HONOLULU	HI	96817-4635
			RESIDENT	1104 LILIHA ST APT K		HONOLULU HI 96817-4635	HONOLULU	HI	96817-4635
			RESIDENT	1104 LILIHA ST APT L		HONOLULU HI 96817-4635	HONOLULU	HI	96817-4635
			RESIDENT	1104 LILIHA ST APT M		HONOLULU HI 96817-4635	HONOLULU	HI	96817-4635
			RESIDENT	1104 LILIHA ST APT N		HONOLULU HI 96817-4635	HONOLULU	HI	96817-4635
			RESIDENT	1104 LILIHA ST APT P		HONOLULU HI 96817-4635	HONOLULU	HI	96817-4635
			RESIDENT	1104 LILIHA ST APT Q		HONOLULU HI 96817-3877	HONOLULU	HI	96817-3877
			RESIDENT	1104 LILIHA ST APT R		HONOLULU HI 96817-3877	HONOLULU	HI	96817-3877
			RESIDENT	1104 LILIHA ST APT S		HONOLULU HI 96817-3877	HONOLULU	HI	96817-3877
			RESIDENT	1104 LILIHA ST APT T		HONOLULU HI 96817-3877	HONOLULU	HI	96817-3877
			RESIDENT	1216 LILIHA ST APT A		HONOLULU HI 96817-4651	HONOLULU	HI	96817-4651
			RESIDENT	1216 LILIHA ST APT B		HONOLULU HI 96817-4651	HONOLULU	HI	96817-4651
			RESIDENT	1216 LILIHA ST APT C		HONOLULU HI 96817-4651	HONOLULU	HI	96817-4651
			RESIDENT	1216 LILIHA ST APT D		HONOLULU HI 96817-4651	HONOLULU	HI	96817-4651
			RESIDENT	1216 LILIHA ST APT E		HONOLULU HI 96817-4651	HONOLULU	HI	96817-4651
			RESIDENT	1216 LILIHA ST APT F		HONOLULU HI 96817-4651	HONOLULU	HI	96817-4651
			RESIDENT	1216 LILIHA ST APT H		HONOLULU HI 96817-4651	HONOLULU	HI	96817-4651
			RESIDENT	1216 LILIHA ST APT J		HONOLULU HI 96817-4651	HONOLULU	HI	96817-4651
			RESIDENT	1216 LILIHA ST APT K		HONOLULU HI 96817-4651	HONOLULU	HI	96817-4651
			RESIDENT	1216 LILIHA ST APT L		HONOLULU HI 96817-4651	HONOLULU	HI	96817-4651
			RESIDENT	1216 LILIHA ST APT M		HONOLULU HI 96817-4651	HONOLULU	HI	96817-4651
			RESIDENT	1216 LILIHA ST APT N		HONOLULU HI 96817-4619	HONOLULU	HI	96817-4619
			RESIDENT	1216 LILIHA ST APT P		HONOLULU HI 96817-4619	HONOLULU	HI	96817-4619
			RESIDENT	1216 LILIHA ST APT Q		HONOLULU HI 96817-4619	HONOLULU	HI	96817-4619
			RESIDENT	1216 LILIHA ST APT R		HONOLULU HI 96817-4619	HONOLULU	HI	96817-4619
			RESIDENT	1216 LILIHA ST APT S		HONOLULU HI 96817-4619	HONOLULU	HI	96817-4619
			RESIDENT	1216 LILIHA ST APT T		HONOLULU HI 96817-4619	HONOLULU	HI	96817-4619
			RESIDENT	1330 LILIHA ST APT A		HONOLULU HI 96817-4662	HONOLULU	HI	96817-4662
			RESIDENT	1330 LILIHA ST APT B		HONOLULU HI 96817-4662	HONOLULU	HI	96817-4662
			RESIDENT	1330 LILIHA ST APT C		HONOLULU HI 96817-4662	HONOLULU	HI	96817-4662
			RESIDENT	1330 LILIHA ST APT D		HONOLULU HI 96817-4662	HONOLULU	HI	96817-4662
			RESIDENT	1330 LILIHA ST APT E		HONOLULU HI 96817-4662	HONOLULU	HI	96817-4662
			RESIDENT	1330 LILIHA ST APT F		HONOLULU HI 96817-4662	HONOLULU	HI	96817-4662
			RESIDENT	1330 LILIHA ST APT G		HONOLULU HI 96817-4662	HONOLULU	HI	96817-4662
			RESIDENT	1330 LILIHA ST APT H		HONOLULU HI 96817-4662	HONOLULU	HI	96817-4662

			RESIDENT	1330 LILIHA ST APT J		HONOLULU HI 96817-4662	HONOLULU	HI	96817-4662
			RESIDENT	1330 LILIHA ST APT K		HONOLULU HI 96817-4662	HONOLULU	HI	96817-4662
			RESIDENT	1330 LILIHA ST APT L		HONOLULU HI 96817-6602	HONOLULU	HI	96817-6602
			RESIDENT	1330 LILIHA ST APT M		HONOLULU HI 96817-6602	HONOLULU	HI	96817-6602
			RESIDENT	1035 PUA LN APT A		HONOLULU HI 96817-3802	HONOLULU	HI	96817-3802
			RESIDENT	1035 PUA LN APT B		HONOLULU HI 96817-3802	HONOLULU	HI	96817-3802
			RESIDENT	1035 PUA LN APT C		HONOLULU HI 96817-3802	HONOLULU	HI	96817-3802
			RESIDENT	1035 PUA LN APT D		HONOLULU HI 96817-3802	HONOLULU	HI	96817-3802
			RESIDENT	1035 PUA LN APT E		HONOLULU HI 96817-3802	HONOLULU	HI	96817-3802
			RESIDENT	1035 PUA LN APT F		HONOLULU HI 96817-3802	HONOLULU	HI	96817-3802
			RESIDENT	1035 PUA LN APT G		HONOLULU HI 96817-3802	HONOLULU	HI	96817-3802
			RESIDENT	1035 PUA LN APT H		HONOLULU HI 96817-3802	HONOLULU	HI	96817-3802
			RESIDENT	1035 PUA LN APT J		HONOLULU HI 96817-3802	HONOLULU	HI	96817-3802
			RESIDENT	1035 PUA LN APT K		HONOLULU HI 96817-3802	HONOLULU	HI	96817-3802
			RESIDENT	1035 PUA LN APT L		HONOLULU HI 96817-3802	HONOLULU	HI	96817-3802
			RESIDENT	1035 PUA LN APT M		HONOLULU HI 96817-3802	HONOLULU	HI	96817-3802
			RESIDENT	1049 PUA LN APT A		HONOLULU HI 96817-3879	HONOLULU	HI	96817-3879
			RESIDENT	1049 PUA LN APT B		HONOLULU HI 96817-3879	HONOLULU	HI	96817-3879
			RESIDENT	1049 PUA LN APT C		HONOLULU HI 96817-3804	HONOLULU	HI	96817-3804
			RESIDENT	1049 PUA LN APT D		HONOLULU HI 96817-3804	HONOLULU	HI	96817-3804
			RESIDENT	1049 PUA LN APT E		HONOLULU HI 96817-3804	HONOLULU	HI	96817-3804
			RESIDENT	1049 PUA LN APT F		HONOLULU HI 96817-3804	HONOLULU	HI	96817-3804
			RESIDENT	1049 PUA LN APT G		HONOLULU HI 96817-3804	HONOLULU	HI	96817-3804
			RESIDENT	1049 PUA LN APT H		HONOLULU HI 96817-3804	HONOLULU	HI	96817-3804
			RESIDENT	1049 PUA LN APT J		HONOLULU HI 96817-3804	HONOLULU	HI	96817-3804
			RESIDENT	1049 PUA LN APT K		HONOLULU HI 96817-3804	HONOLULU	HI	96817-3804
			RESIDENT	1049 PUA LN APT L		HONOLULU HI 96817-3804	HONOLULU	HI	96817-3804
			RESIDENT	1049 PUA LN APT M		HONOLULU HI 96817-3804	HONOLULU	HI	96817-3804
			RESIDENT	1125 PUA LN APT A		HONOLULU HI 96817-3882	HONOLULU	HI	96817-3882
			RESIDENT	1125 PUA LN APT B		HONOLULU HI 96817-3882	HONOLULU	HI	96817-3882
			RESIDENT	1125 PUA LN APT C		HONOLULU HI 96817-3882	HONOLULU	HI	96817-3882
			RESIDENT	1125 PUA LN APT D		HONOLULU HI 96817-3882	HONOLULU	HI	96817-3882
			RESIDENT	1125 PUA LN APT E		HONOLULU HI 96817-3882	HONOLULU	HI	96817-3882
			RESIDENT	1125 PUA LN APT F		HONOLULU HI 96817-3882	HONOLULU	HI	96817-3882
			RESIDENT	1125 PUA LN APT G		HONOLULU HI 96817-3882	HONOLULU	HI	96817-3882
			RESIDENT	1125 PUA LN APT H		HONOLULU HI 96817-3813	HONOLULU	HI	96817-3813
			RESIDENT	1125 PUA LN APT J		HONOLULU HI 96817-3813	HONOLULU	HI	96817-3813
			RESIDENT	1125 PUA LN APT K		HONOLULU HI 96817-3813	HONOLULU	HI	96817-3813
			RESIDENT	1125 PUA LN APT L		HONOLULU HI 96817-3813	HONOLULU	HI	96817-3813
			RESIDENT	1125 PUA LN APT M		HONOLULU HI 96817-3813	HONOLULU	HI	96817-3813
			RESIDENT	1211 PUA LN APT A		HONOLULU HI 96817-3819	HONOLULU	HI	96817-3819
			RESIDENT	1211 PUA LN APT B		HONOLULU HI 96817-3819	HONOLULU	HI	96817-3819
			RESIDENT	1211 PUA LN APT C		HONOLULU HI 96817-3819	HONOLULU	HI	96817-3819
			RESIDENT	1211 PUA LN APT D		HONOLULU HI 96817-3819	HONOLULU	HI	96817-3819
			RESIDENT	1211 PUA LN APT E		HONOLULU HI 96817-3819	HONOLULU	HI	96817-3819
			RESIDENT	1211 PUA LN APT F		HONOLULU HI 96817-3819	HONOLULU	HI	96817-3819
			RESIDENT	1211 PUA LN APT G		HONOLULU HI 96817-3819	HONOLULU	HI	96817-3819
			RESIDENT	1211 PUA LN APT H		HONOLULU HI 96817-3819	HONOLULU	HI	96817-3819
			RESIDENT	1211 PUA LN APT J		HONOLULU HI 96817-3819	HONOLULU	HI	96817-3819
			RESIDENT	1211 PUA LN APT K		HONOLULU HI 96817-3819	HONOLULU	HI	96817-3819
			RESIDENT	1211 PUA LN APT L		HONOLULU HI 96817-3884	HONOLULU	HI	96817-3884
			RESIDENT	1211 PUA LN APT M		HONOLULU HI 96817-3884	HONOLULU	HI	96817-3884
			RESIDENT	1235 PUA LN APT A		HONOLULU HI 96817-3830	HONOLULU	HI	96817-3830
			RESIDENT	1235 PUA LN APT C		HONOLULU HI 96817-3830	HONOLULU	HI	96817-3830
			RESIDENT	1235 PUA LN APT D		HONOLULU HI 96817-3830	HONOLULU	HI	96817-3830
			RESIDENT	1235 PUA LN APT E		HONOLULU HI 96817-3830	HONOLULU	HI	96817-3830
			RESIDENT	1235 PUA LN APT F		HONOLULU HI 96817-3830	HONOLULU	HI	96817-3830
			RESIDENT	1235 PUA LN APT G		HONOLULU HI 96817-3830	HONOLULU	HI	96817-3830
			RESIDENT	1235 PUA LN APT H		HONOLULU HI 96817-3830	HONOLULU	HI	96817-3830
			RESIDENT	1235 PUA LN APT J		HONOLULU HI 96817-3830	HONOLULU	HI	96817-3830
			RESIDENT	1235 PUA LN APT K		HONOLULU HI 96817-3830	HONOLULU	HI	96817-3830
			RESIDENT	1235 PUA LN APT L		HONOLULU HI 96817-3830	HONOLULU	HI	96817-3830
			RESIDENT	1235 PUA LN APT M		HONOLULU HI 96817-3830	HONOLULU	HI	96817-3830
			RESIDENT	529 N VINEYARD BLVD APT A		HONOLULU HI 96817-3835	HONOLULU	HI	96817-3835
			RESIDENT	529 N VINEYARD BLVD APT B		HONOLULU HI 96817-3835	HONOLULU	HI	96817-3835
			RESIDENT	529 N VINEYARD BLVD APT C		HONOLULU HI 96817-3835	HONOLULU	HI	96817-3835
			RESIDENT	529 N VINEYARD BLVD APT D		HONOLULU HI 96817-3835	HONOLULU	HI	96817-3835
			RESIDENT	529 N VINEYARD BLVD APT E		HONOLULU HI 96817-3835	HONOLULU	HI	96817-3835
			RESIDENT	529 N VINEYARD BLVD APT F		HONOLULU HI 96817-3835	HONOLULU	HI	96817-3835
			RESIDENT	529 N VINEYARD BLVD APT G		HONOLULU HI 96817-3835	HONOLULU	HI	96817-3835
			RESIDENT	529 N VINEYARD BLVD APT H		HONOLULU HI 96817-3835	HONOLULU	HI	96817-3835
			RESIDENT	529 N VINEYARD BLVD APT J		HONOLULU HI 96817-3835	HONOLULU	HI	96817-3835

			RESIDENT	529 N VINEYARD BLVD APT K		HONOLULU HI 96817-3835	HONOLULU	HI	96817-3835
			RESIDENT	529 N VINEYARD BLVD APT L		HONOLULU HI 96817-3835	HONOLULU	HI	96817-3835
			RESIDENT	529 N VINEYARD BLVD APT M		HONOLULU HI 96817-3835	HONOLULU	HI	96817-3835
			RESIDENT	559 N VINEYARD BLVD APT A		HONOLULU HI 96817-3886	HONOLULU	HI	96817-3886
			RESIDENT	559 N VINEYARD BLVD APT B		HONOLULU HI 96817-3886	HONOLULU	HI	96817-3886
			RESIDENT	559 N VINEYARD BLVD APT C		HONOLULU HI 96817-3886	HONOLULU	HI	96817-3886
			RESIDENT	559 N VINEYARD BLVD APT D		HONOLULU HI 96817-3886	HONOLULU	HI	96817-3886
			RESIDENT	559 N VINEYARD BLVD APT E		HONOLULU HI 96817-3836	HONOLULU	HI	96817-3836
			RESIDENT	559 N VINEYARD BLVD APT F		HONOLULU HI 96817-3836	HONOLULU	HI	96817-3836
			RESIDENT	559 N VINEYARD BLVD APT G		HONOLULU HI 96817-3836	HONOLULU	HI	96817-3836
			RESIDENT	559 N VINEYARD BLVD APT H		HONOLULU HI 96817-3836	HONOLULU	HI	96817-3836
			RESIDENT	559 N VINEYARD BLVD APT J		HONOLULU HI 96817-3836	HONOLULU	HI	96817-3836
			RESIDENT	559 N VINEYARD BLVD APT K		HONOLULU HI 96817-3836	HONOLULU	HI	96817-3836
			RESIDENT	559 N VINEYARD BLVD APT L		HONOLULU HI 96817-3836	HONOLULU	HI	96817-3836
			RESIDENT	559 N VINEYARD BLVD APT M		HONOLULU HI 96817-3836	HONOLULU	HI	96817-3836
			RESIDENT	577 N VINEYARD BLVD APT A		HONOLULU HI 96817-3837	HONOLULU	HI	96817-3837
			RESIDENT	577 N VINEYARD BLVD APT B		HONOLULU HI 96817-3837	HONOLULU	HI	96817-3837
			RESIDENT	577 N VINEYARD BLVD APT C		HONOLULU HI 96817-3837	HONOLULU	HI	96817-3837
			RESIDENT	577 N VINEYARD BLVD APT D		HONOLULU HI 96817-3837	HONOLULU	HI	96817-3837
			RESIDENT	577 N VINEYARD BLVD APT E		HONOLULU HI 96817-3837	HONOLULU	HI	96817-3837
			RESIDENT	577 N VINEYARD BLVD APT F		HONOLULU HI 96817-3837	HONOLULU	HI	96817-3837
			RESIDENT	605 N VINEYARD BLVD APT A		HONOLULU HI 96817-3888	HONOLULU	HI	96817-3888
			RESIDENT	605 N VINEYARD BLVD APT B		HONOLULU HI 96817-3888	HONOLULU	HI	96817-3888
			RESIDENT	605 N VINEYARD BLVD APT C		HONOLULU HI 96817-3814	HONOLULU	HI	96817-3814
			RESIDENT	605 N VINEYARD BLVD APT D		HONOLULU HI 96817-3814	HONOLULU	HI	96817-3814
			RESIDENT	605 N VINEYARD BLVD APT E		HONOLULU HI 96817-3814	HONOLULU	HI	96817-3814
			RESIDENT	605 N VINEYARD BLVD APT F		HONOLULU HI 96817-3814	HONOLULU	HI	96817-3814
			RESIDENT	619 N VINEYARD BLVD STE A		HONOLULU HI 96817-3840	HONOLULU	HI	96817-3840
			RESIDENT	619 N VINEYARD BLVD APT B		HONOLULU HI 96817-3840	HONOLULU	HI	96817-3840
			RESIDENT	619 N VINEYARD BLVD APT C		HONOLULU HI 96817-3840	HONOLULU	HI	96817-3840
			RESIDENT	619 N VINEYARD BLVD APT D		HONOLULU HI 96817-3840	HONOLULU	HI	96817-3840
			RESIDENT	619 N VINEYARD BLVD APT E		HONOLULU HI 96817-3840	HONOLULU	HI	96817-3840
			RESIDENT	619 N VINEYARD BLVD APT F		HONOLULU HI 96817-3840	HONOLULU	HI	96817-3840
			RESIDENT	619 N VINEYARD BLVD APT G		HONOLULU HI 96817-3840	HONOLULU	HI	96817-3840
			RESIDENT	619 N VINEYARD BLVD APT H		HONOLULU HI 96817-3840	HONOLULU	HI	96817-3840
			RESIDENT	619 N VINEYARD BLVD APT J		HONOLULU HI 96817-3840	HONOLULU	HI	96817-3840
			RESIDENT	619 N VINEYARD BLVD APT K		HONOLULU HI 96817-3840	HONOLULU	HI	96817-3840
			RESIDENT	619 N VINEYARD BLVD APT L		HONOLULU HI 96817-3840	HONOLULU	HI	96817-3840
			RESIDENT	619 N VINEYARD BLVD APT M		HONOLULU HI 96817-3840	HONOLULU	HI	96817-3840
			RESIDENT	649 N VINEYARD BLVD APT A		HONOLULU HI 96817-3844	HONOLULU	HI	96817-3844
			RESIDENT	649 N VINEYARD BLVD APT B		HONOLULU HI 96817-3844	HONOLULU	HI	96817-3844
			RESIDENT	649 N VINEYARD BLVD APT C		HONOLULU HI 96817-3844	HONOLULU	HI	96817-3844
			RESIDENT	649 N VINEYARD BLVD APT D		HONOLULU HI 96817-3844	HONOLULU	HI	96817-3844
			RESIDENT	649 N VINEYARD BLVD APT E		HONOLULU HI 96817-3844	HONOLULU	HI	96817-3844
			RESIDENT	649 N VINEYARD BLVD APT F		HONOLULU HI 96817-3844	HONOLULU	HI	96817-3844
			RESIDENT	649 N VINEYARD BLVD APT G		HONOLULU HI 96817-3844	HONOLULU	HI	96817-3844
			RESIDENT	649 N VINEYARD BLVD APT H		HONOLULU HI 96817-3844	HONOLULU	HI	96817-3844
			RESIDENT	649 N VINEYARD BLVD APT J		HONOLULU HI 96817-3844	HONOLULU	HI	96817-3844
			RESIDENT	649 N VINEYARD BLVD APT K		HONOLULU HI 96817-3844	HONOLULU	HI	96817-3844
			RESIDENT	649 N VINEYARD BLVD APT L		HONOLULU HI 96817-3844	HONOLULU	HI	96817-3844
			RESIDENT	649 N VINEYARD BLVD APT M		HONOLULU HI 96817-3844	HONOLULU	HI	96817-3844
			BUSINESS OCCUPANT	521 N KUKUI ST		HONOLULU HI 96817-3846	HONOLULU	HI	96817-3846
			BUSINESS OCCUPANT	517 N VINEYARD BLVD		HONOLULU HI 96817-3834	HONOLULU	HI	96817-3834
			BUSINESS OCCUPANT	515 N VINEYARD BLVD		HONOLULU HI 96817-3834	HONOLULU	HI	96817-3834
			BUSINESS OCCUPANT	511 N VINEYARD BLVD		HONOLULU HI 96817-3834	HONOLULU	HI	96817-3834
			BUSINESS OCCUPANT	1380 LILIHA ST		HONOLULU HI 96817-4653	HONOLULU	HI	96817-4653
			RESIDENT	1370 LILIHA ST APT A		HONOLULU HI 96817-4690	HONOLULU	HI	96817-4690
			RESIDENT	1370 LILIHA ST APT B		HONOLULU HI 96817-4690	HONOLULU	HI	96817-4690
			RESIDENT	1370 LILIHA ST APT C		HONOLULU HI 96817-4690	HONOLULU	HI	96817-4690
			RESIDENT	1370 LILIHA ST APT D		HONOLULU HI 96817-4690	HONOLULU	HI	96817-4690
			RESIDENT	1370 LILIHA ST APT E		HONOLULU HI 96817-4690	HONOLULU	HI	96817-4690
			RESIDENT	1370 LILIHA ST APT F		HONOLULU HI 96817-4690	HONOLULU	HI	96817-4690
			RESIDENT	1370 LILIHA ST APT G		HONOLULU HI 96817-4663	HONOLULU	HI	96817-4663
			RESIDENT	1370 LILIHA ST APT H		HONOLULU HI 96817-4663	HONOLULU	HI	96817-4663
			RESIDENT	1370 LILIHA ST APT I		HONOLULU HI 96817-4663	HONOLULU	HI	96817-4663
			RESIDENT	1370 LILIHA ST APT J		HONOLULU HI 96817-4663	HONOLULU	HI	96817-4663
			RESIDENT	1370 LILIHA ST APT K		HONOLULU HI 96817-4663	HONOLULU	HI	96817-4663
			BUSINESS OCCUPANT	1340 LILIHA ST		HONOLULU HI 96817-4653	HONOLULU	HI	96817-4653
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 100		HONOLULU HI 96817-3938	HONOLULU	HI	96817-3938
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 200		HONOLULU HI 96817-3938	HONOLULU	HI	96817-3938
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 210		HONOLULU HI 96817-3938	HONOLULU	HI	96817-3938
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 220		HONOLULU HI 96817-3938	HONOLULU	HI	96817-3938

			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 230		HONOLULU HI 96817-3938	HONOLULU	HI	96817-3938
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 300		HONOLULU HI 96817-3922	HONOLULU	HI	96817-3922
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 310		HONOLULU HI 96817-3938	HONOLULU	HI	96817-3938
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 315		HONOLULU HI 96817-3952	HONOLULU	HI	96817-3952
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 320		HONOLULU HI 96817-3938	HONOLULU	HI	96817-3938
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 325		HONOLULU HI 96817-3938	HONOLULU	HI	96817-3938
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 330		HONOLULU HI 96817-3938	HONOLULU	HI	96817-3938
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 410		HONOLULU HI 96817-3952	HONOLULU	HI	96817-3952
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 274		HONOLULU HI 96817-3952	HONOLULU	HI	96817-3952
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 270		HONOLULU HI 96817-3922	HONOLULU	HI	96817-3922
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 420		HONOLULU HI 96817-3952	HONOLULU	HI	96817-3952
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 425		HONOLULU HI 96817-3952	HONOLULU	HI	96817-3952
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 430		HONOLULU HI 96817-3952	HONOLULU	HI	96817-3952
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 265		HONOLULU HI 96817-3922	HONOLULU	HI	96817-3922
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 501		HONOLULU HI 96817-3952	HONOLULU	HI	96817-3952
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 506		HONOLULU HI 96817-3952	HONOLULU	HI	96817-3952
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 508		HONOLULU HI 96817-3952	HONOLULU	HI	96817-3952
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 253		HONOLULU HI 96817-3952	HONOLULU	HI	96817-3952
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 260		HONOLULU HI 96817-3950	HONOLULU	HI	96817-3950
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 700		HONOLULU HI 96817-3952	HONOLULU	HI	96817-3952
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 271		HONOLULU HI 96817-3938	HONOLULU	HI	96817-3938
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 151		HONOLULU HI 96817-3938	HONOLULU	HI	96817-3938
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 152		HONOLULU HI 96817-3938	HONOLULU	HI	96817-3938
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 153		HONOLULU HI 96817-3938	HONOLULU	HI	96817-3938
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 251		HONOLULU HI 96817-3950	HONOLULU	HI	96817-3950
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 259		HONOLULU HI 96817-3952	HONOLULU	HI	96817-3952
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 257		HONOLULU HI 96817-3952	HONOLULU	HI	96817-3952
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 263		HONOLULU HI 96817-3922	HONOLULU	HI	96817-3922
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 261		HONOLULU HI 96817-3922	HONOLULU	HI	96817-3922
			BUSINESS OCCUPANT	200 N VINEYARD BLVD STE 256		HONOLULU HI 96817-3938	HONOLULU	HI	96817-3938
			BUSINESS OCCUPANT	296 N VINEYARD BLVD		HONOLULU HI 96817-3917	HONOLULU	HI	96817-3917
			RESIDENT	366 N VINEYARD BLVD APT F16		HONOLULU HI 96817-3662	HONOLULU	HI	96817-3662
			RESIDENT	366 N VINEYARD BLVD APT F17		HONOLULU HI 96817-3662	HONOLULU	HI	96817-3662
			RESIDENT	366 N VINEYARD BLVD APT F25		HONOLULU HI 96817-6203	HONOLULU	HI	96817-6203
			RESIDENT	366 N VINEYARD BLVD APT F26		HONOLULU HI 96817-6203	HONOLULU	HI	96817-6203
			RESIDENT	366 N VINEYARD BLVD APT F35		HONOLULU HI 96817-3691	HONOLULU	HI	96817-3691
			RESIDENT	366 N VINEYARD BLVD APT F36		HONOLULU HI 96817-3691	HONOLULU	HI	96817-3691
			RESIDENT	370 N VINEYARD BLVD APT F14		HONOLULU HI 96817-3664	HONOLULU	HI	96817-3664
			RESIDENT	370 N VINEYARD BLVD APT F15		HONOLULU HI 96817-3664	HONOLULU	HI	96817-3664
			RESIDENT	370 N VINEYARD BLVD APT F23		HONOLULU HI 96817-6204	HONOLULU	HI	96817-6204
			RESIDENT	370 N VINEYARD BLVD APT F24		HONOLULU HI 96817-6204	HONOLULU	HI	96817-6204
			RESIDENT	370 N VINEYARD BLVD APT F33		HONOLULU HI 96817-3661	HONOLULU	HI	96817-3661
			RESIDENT	370 N VINEYARD BLVD APT F34		HONOLULU HI 96817-3661	HONOLULU	HI	96817-3661
			RESIDENT	374 N VINEYARD BLVD APT F11		HONOLULU HI 96817-3665	HONOLULU	HI	96817-3665
			RESIDENT	374 N VINEYARD BLVD APT F12		HONOLULU HI 96817-3665	HONOLULU	HI	96817-3665
			RESIDENT	374 N VINEYARD BLVD APT F21		HONOLULU HI 96817-6205	HONOLULU	HI	96817-6205
			RESIDENT	374 N VINEYARD BLVD APT F22		HONOLULU HI 96817-6205	HONOLULU	HI	96817-6205
			RESIDENT	374 N VINEYARD BLVD APT F31		HONOLULU HI 96817-3673	HONOLULU	HI	96817-3673
			RESIDENT	374 N VINEYARD BLVD APT F32		HONOLULU HI 96817-3673	HONOLULU	HI	96817-3673
			RESIDENT	378 N VINEYARD BLVD APT D11		HONOLULU HI 96817-3666	HONOLULU	HI	96817-3666
			RESIDENT	378 N VINEYARD BLVD APT D12		HONOLULU HI 96817-3666	HONOLULU	HI	96817-3666
			RESIDENT	378 N VINEYARD BLVD APT D21		HONOLULU HI 96817-6206	HONOLULU	HI	96817-6206
			RESIDENT	378 N VINEYARD BLVD APT D22		HONOLULU HI 96817-6206	HONOLULU	HI	96817-6206
			RESIDENT	378 N VINEYARD BLVD APT D31		HONOLULU HI 96817-3684	HONOLULU	HI	96817-3684
			RESIDENT	378 N VINEYARD BLVD APT D32		HONOLULU HI 96817-3684	HONOLULU	HI	96817-3684
			RESIDENT	382 N VINEYARD BLVD APT B11		HONOLULU HI 96817-3667	HONOLULU	HI	96817-3667
			RESIDENT	382 N VINEYARD BLVD APT B12		HONOLULU HI 96817-3667	HONOLULU	HI	96817-3667
			RESIDENT	382 N VINEYARD BLVD APT B21		HONOLULU HI 96817-6207	HONOLULU	HI	96817-6207
			RESIDENT	382 N VINEYARD BLVD APT B22		HONOLULU HI 96817-6207	HONOLULU	HI	96817-6207
			RESIDENT	382 N VINEYARD BLVD APT B31		HONOLULU HI 96817-3687	HONOLULU	HI	96817-3687
			RESIDENT	382 N VINEYARD BLVD APT B32		HONOLULU HI 96817-3687	HONOLULU	HI	96817-3687
			RESIDENT	386 N VINEYARD BLVD APT B14		HONOLULU HI 96817-3611	HONOLULU	HI	96817-3611
			RESIDENT	386 N VINEYARD BLVD APT B15		HONOLULU HI 96817-3611	HONOLULU	HI	96817-3611
			RESIDENT	386 N VINEYARD BLVD APT B23		HONOLULU HI 96817-3611	HONOLULU	HI	96817-3611
			RESIDENT	386 N VINEYARD BLVD APT B24		HONOLULU HI 96817-3679	HONOLULU	HI	96817-3679
			RESIDENT	386 N VINEYARD BLVD APT B33		HONOLULU HI 96817-3644	HONOLULU	HI	96817-3644
			RESIDENT	386 N VINEYARD BLVD APT B34		HONOLULU HI 96817-3644	HONOLULU	HI	96817-3644
			RESIDENT	392 N VINEYARD BLVD APT B16		HONOLULU HI 96817-3612	HONOLULU	HI	96817-3612
			RESIDENT	392 N VINEYARD BLVD APT B17		HONOLULU HI 96817-3612	HONOLULU	HI	96817-3612
			RESIDENT	392 N VINEYARD BLVD APT B25		HONOLULU HI 96817-3612	HONOLULU	HI	96817-3612
			RESIDENT	392 N VINEYARD BLVD APT B26		HONOLULU HI 96817-3681	HONOLULU	HI	96817-3681
			RESIDENT	392 N VINEYARD BLVD APT B35		HONOLULU HI 96817-3668	HONOLULU	HI	96817-3668

			RESIDENT	392 N VINEYARD BLVD APT B36		HONOLULU HI 96817-3668	HONOLULU	HI	96817-3668
			RESIDENT	404 N VINEYARD BLVD APT A16		HONOLULU HI 96817-3613	HONOLULU	HI	96817-3613
			RESIDENT	404 N VINEYARD BLVD APT A17		HONOLULU HI 96817-3613	HONOLULU	HI	96817-3613
			RESIDENT	404 N VINEYARD BLVD APT A25		HONOLULU HI 96817-3613	HONOLULU	HI	96817-3613
			RESIDENT	404 N VINEYARD BLVD APT A26		HONOLULU HI 96817-3694	HONOLULU	HI	96817-3694
			RESIDENT	404 N VINEYARD BLVD APT A35		HONOLULU HI 96817-3672	HONOLULU	HI	96817-3672
			RESIDENT	404 N VINEYARD BLVD APT A36		HONOLULU HI 96817-3672	HONOLULU	HI	96817-3672
			RESIDENT	408 N VINEYARD BLVD APT A14		HONOLULU HI 96817-3614	HONOLULU	HI	96817-3614
			RESIDENT	408 N VINEYARD BLVD APT A15		HONOLULU HI 96817-3614	HONOLULU	HI	96817-3614
			RESIDENT	408 N VINEYARD BLVD APT A23		HONOLULU HI 96817-3614	HONOLULU	HI	96817-3614
			RESIDENT	408 N VINEYARD BLVD APT A24		HONOLULU HI 96817-3695	HONOLULU	HI	96817-3695
			RESIDENT	408 N VINEYARD BLVD APT A33		HONOLULU HI 96817-3674	HONOLULU	HI	96817-3674
			RESIDENT	408 N VINEYARD BLVD APT A34		HONOLULU HI 96817-3674	HONOLULU	HI	96817-3674
			RESIDENT	412 N VINEYARD BLVD APT A11		HONOLULU HI 96817-3615	HONOLULU	HI	96817-3615
			RESIDENT	412 N VINEYARD BLVD APT A12		HONOLULU HI 96817-3615	HONOLULU	HI	96817-3615
			RESIDENT	412 N VINEYARD BLVD APT A21		HONOLULU HI 96817-3696	HONOLULU	HI	96817-3696
			RESIDENT	412 N VINEYARD BLVD APT A22		HONOLULU HI 96817-3696	HONOLULU	HI	96817-3696
			RESIDENT	412 N VINEYARD BLVD APT A31		HONOLULU HI 96817-3678	HONOLULU	HI	96817-3678
			RESIDENT	412 N VINEYARD BLVD APT A32		HONOLULU HI 96817-3678	HONOLULU	HI	96817-3678
			RESIDENT	418 N VINEYARD BLVD APT C11		HONOLULU HI 96817-3616	HONOLULU	HI	96817-3616
			RESIDENT	418 N VINEYARD BLVD APT C12		HONOLULU HI 96817-3616	HONOLULU	HI	96817-3616
			RESIDENT	418 N VINEYARD BLVD APT C21		HONOLULU HI 96817-3697	HONOLULU	HI	96817-3697
			RESIDENT	418 N VINEYARD BLVD APT C22		HONOLULU HI 96817-3697	HONOLULU	HI	96817-3697
			RESIDENT	418 N VINEYARD BLVD APT C31		HONOLULU HI 96817-3680	HONOLULU	HI	96817-3680
			RESIDENT	418 N VINEYARD BLVD APT C32		HONOLULU HI 96817-3680	HONOLULU	HI	96817-3680
			RESIDENT	424 N VINEYARD BLVD APT E11		HONOLULU HI 96817-3617	HONOLULU	HI	96817-3617
			RESIDENT	424 N VINEYARD BLVD APT E12		HONOLULU HI 96817-3617	HONOLULU	HI	96817-3617
			RESIDENT	424 N VINEYARD BLVD APT E21		HONOLULU HI 96817-3698	HONOLULU	HI	96817-3698
			RESIDENT	424 N VINEYARD BLVD APT E22		HONOLULU HI 96817-3698	HONOLULU	HI	96817-3698
			RESIDENT	424 N VINEYARD BLVD APT E31		HONOLULU HI 96817-3683	HONOLULU	HI	96817-3683
			RESIDENT	424 N VINEYARD BLVD APT E32		HONOLULU HI 96817-3683	HONOLULU	HI	96817-3683
			RESIDENT	430 N VINEYARD BLVD APT E14		HONOLULU HI 96817-3618	HONOLULU	HI	96817-3618
			RESIDENT	430 N VINEYARD BLVD APT E15		HONOLULU HI 96817-3618	HONOLULU	HI	96817-3618
			RESIDENT	430 N VINEYARD BLVD APT E23		HONOLULU HI 96817-3618	HONOLULU	HI	96817-3618
			RESIDENT	430 N VINEYARD BLVD APT E24		HONOLULU HI 96817-3699	HONOLULU	HI	96817-3699
			RESIDENT	430 N VINEYARD BLVD APT E33		HONOLULU HI 96817-3685	HONOLULU	HI	96817-3685
			RESIDENT	430 N VINEYARD BLVD APT E34		HONOLULU HI 96817-3685	HONOLULU	HI	96817-3685
			RESIDENT	436 N VINEYARD BLVD APT E16		HONOLULU HI 96817-3619	HONOLULU	HI	96817-3619
			RESIDENT	436 N VINEYARD BLVD APT E17		HONOLULU HI 96817-3619	HONOLULU	HI	96817-3619
			RESIDENT	436 N VINEYARD BLVD APT E25		HONOLULU HI 96817-6208	HONOLULU	HI	96817-6208
			RESIDENT	436 N VINEYARD BLVD APT E26		HONOLULU HI 96817-6208	HONOLULU	HI	96817-6208
			RESIDENT	436 N VINEYARD BLVD APT E35		HONOLULU HI 96817-3689	HONOLULU	HI	96817-3689
			RESIDENT	436 N VINEYARD BLVD APT E36		HONOLULU HI 96817-3689	HONOLULU	HI	96817-3689
			BUSINESS OCCUPANT	1425 LILIHA ST STE 1		HONOLULU HI 96817-3582	HONOLULU	HI	96817-3582
			BUSINESS OCCUPANT	1425 LILIHA ST STE 2		HONOLULU HI 96817-3582	HONOLULU	HI	96817-3582
			BUSINESS OCCUPANT	1425 LILIHA ST STE 3		HONOLULU HI 96817-3582	HONOLULU	HI	96817-3582
			BUSINESS OCCUPANT	1425 LILIHA ST STE 6		HONOLULU HI 96817-3582	HONOLULU	HI	96817-3582
			BUSINESS OCCUPANT	1425 LILIHA ST STE 8		HONOLULU HI 96817-3582	HONOLULU	HI	96817-3582
			BUSINESS OCCUPANT	1425 LILIHA ST STE 9		HONOLULU HI 96817-3582	HONOLULU	HI	96817-3582
			BUSINESS OCCUPANT	1425 LILIHA ST STE 11		HONOLULU HI 96817-3582	HONOLULU	HI	96817-3582
			RESIDENT	1425 LILIHA ST APT 3A		HONOLULU HI 96817-3506	HONOLULU	HI	96817-3506
			RESIDENT	1425 LILIHA ST APT 3B		HONOLULU HI 96817-3506	HONOLULU	HI	96817-3506
			RESIDENT	1425 LILIHA ST APT 3C		HONOLULU HI 96817-3506	HONOLULU	HI	96817-3506
			RESIDENT	1425 LILIHA ST APT 3D		HONOLULU HI 96817-3506	HONOLULU	HI	96817-3506
			RESIDENT	1425 LILIHA ST APT 3E		HONOLULU HI 96817-3506	HONOLULU	HI	96817-3506
			RESIDENT	1425 LILIHA ST APT 3F		HONOLULU HI 96817-3506	HONOLULU	HI	96817-3506
			RESIDENT	1425 LILIHA ST APT 7C		HONOLULU HI 96817-3510	HONOLULU	HI	96817-3510
			RESIDENT	1425 LILIHA ST APT 7D		HONOLULU HI 96817-3510	HONOLULU	HI	96817-3510
			RESIDENT	1425 LILIHA ST APT 7E		HONOLULU HI 96817-3510	HONOLULU	HI	96817-3510
			RESIDENT	1425 LILIHA ST APT 7F		HONOLULU HI 96817-3510	HONOLULU	HI	96817-3510
			RESIDENT	1425 LILIHA ST APT 7G		HONOLULU HI 96817-3510	HONOLULU	HI	96817-3510
			RESIDENT	1425 LILIHA ST APT 7H		HONOLULU HI 96817-3510	HONOLULU	HI	96817-3510
			RESIDENT	1425 LILIHA ST APT 3G		HONOLULU HI 96817-3506	HONOLULU	HI	96817-3506
			RESIDENT	1425 LILIHA ST APT 3H		HONOLULU HI 96817-3506	HONOLULU	HI	96817-3506
			RESIDENT	1425 LILIHA ST APT 4A		HONOLULU HI 96817-3506	HONOLULU	HI	96817-3506
			RESIDENT	1425 LILIHA ST APT 4B		HONOLULU HI 96817-3506	HONOLULU	HI	96817-3506
			RESIDENT	1425 LILIHA ST APT 4C		HONOLULU HI 96817-3507	HONOLULU	HI	96817-3507
			RESIDENT	1425 LILIHA ST APT 4D		HONOLULU HI 96817-3507	HONOLULU	HI	96817-3507
			RESIDENT	1425 LILIHA ST APT 4E		HONOLULU HI 96817-3507	HONOLULU	HI	96817-3507
			RESIDENT	1425 LILIHA ST APT 8A		HONOLULU HI 96817-3593	HONOLULU	HI	96817-3593
			RESIDENT	1425 LILIHA ST APT 8B		HONOLULU HI 96817-3593	HONOLULU	HI	96817-3593
			RESIDENT	1425 LILIHA ST APT 8C		HONOLULU HI 96817-3593	HONOLULU	HI	96817-3593

			RESIDENT	1425 LILIHA ST APT 8D		HONOLULU HI 96817-3593	HONOLULU	HI	96817-3593
			RESIDENT	1425 LILIHA ST APT 8E		HONOLULU HI 96817-3593	HONOLULU	HI	96817-3593
			RESIDENT	1425 LILIHA ST APT 8F		HONOLULU HI 96817-3593	HONOLULU	HI	96817-3593
			RESIDENT	1425 LILIHA ST APT 8G		HONOLULU HI 96817-3593	HONOLULU	HI	96817-3593
			RESIDENT	1425 LILIHA ST APT 4F		HONOLULU HI 96817-3507	HONOLULU	HI	96817-3507
			RESIDENT	1425 LILIHA ST APT 4G		HONOLULU HI 96817-3507	HONOLULU	HI	96817-3507
			RESIDENT	1425 LILIHA ST APT 4H		HONOLULU HI 96817-3507	HONOLULU	HI	96817-3507
			RESIDENT	1425 LILIHA ST APT 5A		HONOLULU HI 96817-3507	HONOLULU	HI	96817-3507
			RESIDENT	1425 LILIHA ST APT 5B		HONOLULU HI 96817-3507	HONOLULU	HI	96817-3507
			RESIDENT	1425 LILIHA ST APT 5C		HONOLULU HI 96817-3507	HONOLULU	HI	96817-3507
			RESIDENT	1425 LILIHA ST APT 5D		HONOLULU HI 96817-3507	HONOLULU	HI	96817-3507
			RESIDENT	1425 LILIHA ST APT 8H		HONOLULU HI 96817-3511	HONOLULU	HI	96817-3511
			RESIDENT	1425 LILIHA ST APT 9A		HONOLULU HI 96817-3511	HONOLULU	HI	96817-3511
			RESIDENT	1425 LILIHA ST APT 9B		HONOLULU HI 96817-3511	HONOLULU	HI	96817-3511
			RESIDENT	1425 LILIHA ST APT 9C		HONOLULU HI 96817-3511	HONOLULU	HI	96817-3511
			RESIDENT	1425 LILIHA ST APT 9D		HONOLULU HI 96817-3511	HONOLULU	HI	96817-3511
			RESIDENT	1425 LILIHA ST APT 9E		HONOLULU HI 96817-3511	HONOLULU	HI	96817-3511
			RESIDENT	1425 LILIHA ST APT 9F		HONOLULU HI 96817-3511	HONOLULU	HI	96817-3511
			RESIDENT	1425 LILIHA ST APT 5E		HONOLULU HI 96817-3508	HONOLULU	HI	96817-3508
			RESIDENT	1425 LILIHA ST APT 5F		HONOLULU HI 96817-3508	HONOLULU	HI	96817-3508
			RESIDENT	1425 LILIHA ST APT 5G		HONOLULU HI 96817-3508	HONOLULU	HI	96817-3508
			RESIDENT	1425 LILIHA ST APT 5H		HONOLULU HI 96817-3508	HONOLULU	HI	96817-3508
			RESIDENT	1425 LILIHA ST APT 6A		HONOLULU HI 96817-3508	HONOLULU	HI	96817-3508
			RESIDENT	1425 LILIHA ST APT 6B		HONOLULU HI 96817-3508	HONOLULU	HI	96817-3508
			RESIDENT	1425 LILIHA ST APT 6C		HONOLULU HI 96817-3508	HONOLULU	HI	96817-3508
			RESIDENT	1425 LILIHA ST APT 9G		HONOLULU HI 96817-3512	HONOLULU	HI	96817-3512
			RESIDENT	1425 LILIHA ST APT 9H		HONOLULU HI 96817-3512	HONOLULU	HI	96817-3512
			RESIDENT	1425 LILIHA ST APT 10A		HONOLULU HI 96817-3512	HONOLULU	HI	96817-3512
			RESIDENT	1425 LILIHA ST APT 10B		HONOLULU HI 96817-3512	HONOLULU	HI	96817-3512
			RESIDENT	1425 LILIHA ST APT 10C		HONOLULU HI 96817-3512	HONOLULU	HI	96817-3512
			RESIDENT	1425 LILIHA ST APT 10D		HONOLULU HI 96817-3512	HONOLULU	HI	96817-3512
			RESIDENT	1425 LILIHA ST APT 10E		HONOLULU HI 96817-3512	HONOLULU	HI	96817-3512
			RESIDENT	1425 LILIHA ST APT 6D		HONOLULU HI 96817-3509	HONOLULU	HI	96817-3509
			RESIDENT	1425 LILIHA ST APT 6E		HONOLULU HI 96817-3509	HONOLULU	HI	96817-3509
			RESIDENT	1425 LILIHA ST APT 6F		HONOLULU HI 96817-3509	HONOLULU	HI	96817-3509
			RESIDENT	1425 LILIHA ST APT 6G		HONOLULU HI 96817-3509	HONOLULU	HI	96817-3509
			RESIDENT	1425 LILIHA ST APT 6H		HONOLULU HI 96817-3509	HONOLULU	HI	96817-3509
			RESIDENT	1425 LILIHA ST APT 7A		HONOLULU HI 96817-3509	HONOLULU	HI	96817-3509
			RESIDENT	1425 LILIHA ST APT 7B		HONOLULU HI 96817-3509	HONOLULU	HI	96817-3509
			RESIDENT	1425 LILIHA ST APT 10F		HONOLULU HI 96817-3523	HONOLULU	HI	96817-3523
			RESIDENT	1425 LILIHA ST APT 10G		HONOLULU HI 96817-3523	HONOLULU	HI	96817-3523
			RESIDENT	1425 LILIHA ST APT 10H		HONOLULU HI 96817-3523	HONOLULU	HI	96817-3523
			RESIDENT	1425 LILIHA ST APT 11A		HONOLULU HI 96817-3523	HONOLULU	HI	96817-3523
			RESIDENT	1425 LILIHA ST APT 11B		HONOLULU HI 96817-3523	HONOLULU	HI	96817-3523
			RESIDENT	1425 LILIHA ST APT 11C		HONOLULU HI 96817-3523	HONOLULU	HI	96817-3523
			RESIDENT	1425 LILIHA ST APT 11D		HONOLULU HI 96817-3523	HONOLULU	HI	96817-3523
			RESIDENT	1425 LILIHA ST APT 11E		HONOLULU HI 96817-3514	HONOLULU	HI	96817-3514
			RESIDENT	1425 LILIHA ST APT 11F		HONOLULU HI 96817-3514	HONOLULU	HI	96817-3514
			RESIDENT	1425 LILIHA ST APT 11G		HONOLULU HI 96817-3514	HONOLULU	HI	96817-3514
			RESIDENT	1425 LILIHA ST APT 11H		HONOLULU HI 96817-3514	HONOLULU	HI	96817-3514
			RESIDENT	1425 LILIHA ST APT 12A		HONOLULU HI 96817-3514	HONOLULU	HI	96817-3514
			RESIDENT	1425 LILIHA ST APT 12B		HONOLULU HI 96817-3514	HONOLULU	HI	96817-3514
			RESIDENT	1425 LILIHA ST APT 12C		HONOLULU HI 96817-3514	HONOLULU	HI	96817-3514
			RESIDENT	1425 LILIHA ST APT 16H		HONOLULU HI 96817-3518	HONOLULU	HI	96817-3518
			RESIDENT	1425 LILIHA ST APT 17A		HONOLULU HI 96817-3518	HONOLULU	HI	96817-3518
			RESIDENT	1425 LILIHA ST APT 17B		HONOLULU HI 96817-3518	HONOLULU	HI	96817-3518
			RESIDENT	1425 LILIHA ST APT 17C		HONOLULU HI 96817-3518	HONOLULU	HI	96817-3518
			RESIDENT	1425 LILIHA ST APT 17D		HONOLULU HI 96817-3518	HONOLULU	HI	96817-3518
			RESIDENT	1425 LILIHA ST APT 17E		HONOLULU HI 96817-3518	HONOLULU	HI	96817-3518
			RESIDENT	1425 LILIHA ST APT 17F		HONOLULU HI 96817-3518	HONOLULU	HI	96817-3518
			RESIDENT	1425 LILIHA ST APT 12D		HONOLULU HI 96817-3515	HONOLULU	HI	96817-3515
			RESIDENT	1425 LILIHA ST APT 12E		HONOLULU HI 96817-3515	HONOLULU	HI	96817-3515
			RESIDENT	1425 LILIHA ST APT 12F		HONOLULU HI 96817-3515	HONOLULU	HI	96817-3515
			RESIDENT	1425 LILIHA ST APT 12G		HONOLULU HI 96817-3515	HONOLULU	HI	96817-3515
			RESIDENT	1425 LILIHA ST APT 12H		HONOLULU HI 96817-3515	HONOLULU	HI	96817-3515
			RESIDENT	1425 LILIHA ST APT 14A		HONOLULU HI 96817-3515	HONOLULU	HI	96817-3515
			RESIDENT	1425 LILIHA ST APT 14B		HONOLULU HI 96817-3515	HONOLULU	HI	96817-3515
			RESIDENT	1425 LILIHA ST APT 17G		HONOLULU HI 96817-3519	HONOLULU	HI	96817-3519
			RESIDENT	1425 LILIHA ST APT 17H		HONOLULU HI 96817-3519	HONOLULU	HI	96817-3519
			RESIDENT	1425 LILIHA ST APT 18A		HONOLULU HI 96817-3519	HONOLULU	HI	96817-3519
			RESIDENT	1425 LILIHA ST APT 18B		HONOLULU HI 96817-3519	HONOLULU	HI	96817-3519
			RESIDENT	1425 LILIHA ST APT 18C		HONOLULU HI 96817-3519	HONOLULU	HI	96817-3519

			RESIDENT	1425 LILIHA ST APT 18D		HONOLULU HI 96817-3519	HONOLULU	HI	96817-3519
			RESIDENT	1425 LILIHA ST APT 18E		HONOLULU HI 96817-3519	HONOLULU	HI	96817-3519
			RESIDENT	1425 LILIHA ST APT 14C		HONOLULU HI 96817-3516	HONOLULU	HI	96817-3516
			RESIDENT	1425 LILIHA ST APT 14D		HONOLULU HI 96817-3516	HONOLULU	HI	96817-3516
			RESIDENT	1425 LILIHA ST APT 14E		HONOLULU HI 96817-3516	HONOLULU	HI	96817-3516
			RESIDENT	1425 LILIHA ST APT 14F		HONOLULU HI 96817-3516	HONOLULU	HI	96817-3516
			RESIDENT	1425 LILIHA ST APT 14G		HONOLULU HI 96817-3516	HONOLULU	HI	96817-3516
			RESIDENT	1425 LILIHA ST APT 14H		HONOLULU HI 96817-3516	HONOLULU	HI	96817-3516
			RESIDENT	1425 LILIHA ST APT 15A		HONOLULU HI 96817-3516	HONOLULU	HI	96817-3516
			RESIDENT	1425 LILIHA ST APT 18F		HONOLULU HI 96817-3520	HONOLULU	HI	96817-3520
			RESIDENT	1425 LILIHA ST APT 18G		HONOLULU HI 96817-3520	HONOLULU	HI	96817-3520
			RESIDENT	1425 LILIHA ST APT 18H		HONOLULU HI 96817-3520	HONOLULU	HI	96817-3520
			RESIDENT	1425 LILIHA ST APT 19A		HONOLULU HI 96817-3520	HONOLULU	HI	96817-3520
			RESIDENT	1425 LILIHA ST APT 19B		HONOLULU HI 96817-3520	HONOLULU	HI	96817-3520
			RESIDENT	1425 LILIHA ST APT 19C		HONOLULU HI 96817-3520	HONOLULU	HI	96817-3520
			RESIDENT	1425 LILIHA ST APT 19D		HONOLULU HI 96817-3520	HONOLULU	HI	96817-3520
			RESIDENT	1425 LILIHA ST APT 15B		HONOLULU HI 96817-3594	HONOLULU	HI	96817-3594
			RESIDENT	1425 LILIHA ST APT 15C		HONOLULU HI 96817-3594	HONOLULU	HI	96817-3594
			RESIDENT	1425 LILIHA ST APT 15D		HONOLULU HI 96817-3594	HONOLULU	HI	96817-3594
			RESIDENT	1425 LILIHA ST APT 15E		HONOLULU HI 96817-3594	HONOLULU	HI	96817-3594
			RESIDENT	1425 LILIHA ST APT 15F		HONOLULU HI 96817-3594	HONOLULU	HI	96817-3594
			RESIDENT	1425 LILIHA ST APT 15G		HONOLULU HI 96817-3594	HONOLULU	HI	96817-3594
			RESIDENT	1425 LILIHA ST APT 15H		HONOLULU HI 96817-3594	HONOLULU	HI	96817-3594
			RESIDENT	1425 LILIHA ST APT 19E		HONOLULU HI 96817-3595	HONOLULU	HI	96817-3595
			RESIDENT	1425 LILIHA ST APT 19F		HONOLULU HI 96817-3595	HONOLULU	HI	96817-3595
			RESIDENT	1425 LILIHA ST APT 19G		HONOLULU HI 96817-3595	HONOLULU	HI	96817-3595
			RESIDENT	1425 LILIHA ST APT 19H		HONOLULU HI 96817-3595	HONOLULU	HI	96817-3595
			RESIDENT	1425 LILIHA ST APT 20A		HONOLULU HI 96817-3595	HONOLULU	HI	96817-3595
			RESIDENT	1425 LILIHA ST APT 20C		HONOLULU HI 96817-3521	HONOLULU	HI	96817-3521
			RESIDENT	1425 LILIHA ST APT 16A		HONOLULU HI 96817-3517	HONOLULU	HI	96817-3517
			RESIDENT	1425 LILIHA ST APT 16B		HONOLULU HI 96817-3517	HONOLULU	HI	96817-3517
			RESIDENT	1425 LILIHA ST APT 16C		HONOLULU HI 96817-3517	HONOLULU	HI	96817-3517
			RESIDENT	1425 LILIHA ST APT 16D		HONOLULU HI 96817-3517	HONOLULU	HI	96817-3517
			RESIDENT	1425 LILIHA ST APT 16E		HONOLULU HI 96817-3517	HONOLULU	HI	96817-3517
			RESIDENT	1425 LILIHA ST APT 16F		HONOLULU HI 96817-3517	HONOLULU	HI	96817-3517
			RESIDENT	1425 LILIHA ST APT 16G		HONOLULU HI 96817-3517	HONOLULU	HI	96817-3517
			RESIDENT	1425 LILIHA ST APT 20D		HONOLULU HI 96817-3521	HONOLULU	HI	96817-3521
			RESIDENT	1425 LILIHA ST APT 20E		HONOLULU HI 96817-3521	HONOLULU	HI	96817-3521
			RESIDENT	1425 LILIHA ST APT 20F		HONOLULU HI 96817-3521	HONOLULU	HI	96817-3521
			RESIDENT	1425 LILIHA ST APT 20G		HONOLULU HI 96817-3521	HONOLULU	HI	96817-3521
			RESIDENT	1425 LILIHA ST APT 20H		HONOLULU HI 96817-3521	HONOLULU	HI	96817-3521
			RESIDENT	1470 LILIHA ST APT 1		HONOLULU HI 96817-3524	HONOLULU	HI	96817-3524
			RESIDENT	1470 LILIHA ST APT 2		HONOLULU HI 96817-3524	HONOLULU	HI	96817-3524
			BUSINESS OCCUPANT	1472 LILIHA ST		HONOLULU HI 96817-3524	HONOLULU	HI	96817-3524
			BUSINESS OCCUPANT	1466 LILIHA ST		HONOLULU HI 96817-3524	HONOLULU	HI	96817-3524
			BUSINESS OCCUPANT	1448 LILIHA ST STE 101		HONOLULU HI 96817-3589	HONOLULU	HI	96817-3589
			BUSINESS OCCUPANT	1448 LILIHA ST STE 101		HONOLULU HI 96817-3589	HONOLULU	HI	96817-3589
			BUSINESS OCCUPANT	1448 LILIHA ST STE 101		HONOLULU HI 96817-3589	HONOLULU	HI	96817-3589
			BUSINESS OCCUPANT	1448 LILIHA ST STE 101		HONOLULU HI 96817-3589	HONOLULU	HI	96817-3589
			BUSINESS OCCUPANT	1448 LILIHA ST STE 101		HONOLULU HI 96817-3589	HONOLULU	HI	96817-3589
			RESIDENT	508 MALANAI PL APT A		HONOLULU HI 96817-3585	HONOLULU	HI	96817-3585
			RESIDENT	508 MALANAI PL APT B		HONOLULU HI 96817-3585	HONOLULU	HI	96817-3585
			RESIDENT	508 MALANAI PL APT C		HONOLULU HI 96817-3585	HONOLULU	HI	96817-3585
			RESIDENT	508 MALANAI PL APT D		HONOLULU HI 96817-3585	HONOLULU	HI	96817-3585
			RESIDENT	510 MALANAI PL APT A		HONOLULU HI 96817-3597	HONOLULU	HI	96817-3597
			RESIDENT	510 MALANAI PL APT B		HONOLULU HI 96817-3597	HONOLULU	HI	96817-3597
			RESIDENT	510 MALANAI PL APT C		HONOLULU HI 96817-3597	HONOLULU	HI	96817-3597
			RESIDENT	510 MALANAI PL APT D		HONOLULU HI 96817-3597	HONOLULU	HI	96817-3597
			RESIDENT	515 MALANAI PL		HONOLULU HI 96817-3529	HONOLULU	HI	96817-3529
			RESIDENT	529 MALANAI PL		HONOLULU HI 96817-3529	HONOLULU	HI	96817-3529
			RESIDENT	1438 LILIHA ST APT 109		HONOLULU HI 96817-6107	HONOLULU	HI	96817-6107
			RESIDENT	1438 LILIHA ST APT 110		HONOLULU HI 96817-6107	HONOLULU	HI	96817-6107
			RESIDENT	1438 LILIHA ST APT 111		HONOLULU HI 96817-6107	HONOLULU	HI	96817-6107
			RESIDENT	1438 LILIHA ST APT 101		HONOLULU HI 96817-6107	HONOLULU	HI	96817-6107
			RESIDENT	1438 LILIHA ST APT 102		HONOLULU HI 96817-6107	HONOLULU	HI	96817-6107
			RESIDENT	1438 LILIHA ST APT 103		HONOLULU HI 96817-6107	HONOLULU	HI	96817-6107
			RESIDENT	1438 LILIHA ST APT 104		HONOLULU HI 96817-6107	HONOLULU	HI	96817-6107
			RESIDENT	1438 LILIHA ST APT 105		HONOLULU HI 96817-6107	HONOLULU	HI	96817-6107
			RESIDENT	1438 LILIHA ST APT 106		HONOLULU HI 96817-6107	HONOLULU	HI	96817-6107
			RESIDENT	1438 LILIHA ST APT 107		HONOLULU HI 96817-6108	HONOLULU	HI	96817-6108
			RESIDENT	1438 LILIHA ST APT 108		HONOLULU HI 96817-6108	HONOLULU	HI	96817-6108
			RESIDENT	1438 LILIHA ST APT 201		HONOLULU HI 96817-6108	HONOLULU	HI	96817-6108

			RESIDENT	1438 LILIHA ST APT 202		HONOLULU HI 96817-6108	HONOLULU	HI	96817-6108
			RESIDENT	1438 LILIHA ST APT 203		HONOLULU HI 96817-6108	HONOLULU	HI	96817-6108
			RESIDENT	1438 LILIHA ST APT 204		HONOLULU HI 96817-6108	HONOLULU	HI	96817-6108
			RESIDENT	1438 LILIHA ST APT 205		HONOLULU HI 96817-6110	HONOLULU	HI	96817-6110
			RESIDENT	1438 LILIHA ST APT 206		HONOLULU HI 96817-6110	HONOLULU	HI	96817-6110
			RESIDENT	1438 LILIHA ST APT 207		HONOLULU HI 96817-6110	HONOLULU	HI	96817-6110
			RESIDENT	1438 LILIHA ST APT 208		HONOLULU HI 96817-6110	HONOLULU	HI	96817-6110
			RESIDENT	1438 LILIHA ST APT 209		HONOLULU HI 96817-6110	HONOLULU	HI	96817-6110
			RESIDENT	1438 LILIHA ST APT 210		HONOLULU HI 96817-6110	HONOLULU	HI	96817-6110
			RESIDENT	1438 LILIHA ST APT 211		HONOLULU HI 96817-6109	HONOLULU	HI	96817-6109
			RESIDENT	1438 LILIHA ST APT 301		HONOLULU HI 96817-6109	HONOLULU	HI	96817-6109
			RESIDENT	1438 LILIHA ST APT 302		HONOLULU HI 96817-6109	HONOLULU	HI	96817-6109
			RESIDENT	1438 LILIHA ST APT 303		HONOLULU HI 96817-6109	HONOLULU	HI	96817-6109
			RESIDENT	1438 LILIHA ST APT 304		HONOLULU HI 96817-6109	HONOLULU	HI	96817-6109
			RESIDENT	1438 LILIHA ST APT 305		HONOLULU HI 96817-6109	HONOLULU	HI	96817-6109
			RESIDENT	1438 LILIHA ST APT 306		HONOLULU HI 96817-6111	HONOLULU	HI	96817-6111
			RESIDENT	1438 LILIHA ST APT 307		HONOLULU HI 96817-6111	HONOLULU	HI	96817-6111
			RESIDENT	1438 LILIHA ST APT 308		HONOLULU HI 96817-6111	HONOLULU	HI	96817-6111
			RESIDENT	1438 LILIHA ST APT 309		HONOLULU HI 96817-6111	HONOLULU	HI	96817-6111
			RESIDENT	1438 LILIHA ST APT 310		HONOLULU HI 96817-6111	HONOLULU	HI	96817-6111
			RESIDENT	1438 LILIHA ST APT 311		HONOLULU HI 96817-6111	HONOLULU	HI	96817-6111
			BUSINESS OCCUPANT	1430 LILIHA ST STE C		HONOLULU HI 96817-6105	HONOLULU	HI	96817-6105
			BUSINESS OCCUPANT	1430 LILIHA ST STE B		HONOLULU HI 96817-6105	HONOLULU	HI	96817-6105
			BUSINESS OCCUPANT	1430 LILIHA ST STE A		HONOLULU HI 96817-6105	HONOLULU	HI	96817-6105
			RESIDENT	1432 LILIHA ST REAR		HONOLULU HI 96817-3504	HONOLULU	HI	96817-3504
			RESIDENT	1432 LILIHA ST REAR		HONOLULU HI 96817-3504	HONOLULU	HI	96817-3504
			RESIDENT	1432 LILIHA ST REAR		HONOLULU HI 96817-3504	HONOLULU	HI	96817-3504
			RESIDENT	1432 LILIHA ST REAR		HONOLULU HI 96817-3504	HONOLULU	HI	96817-3504
			BUSINESS OCCUPANT	1420 LILIHA ST		HONOLULU HI 96817-3504	HONOLULU	HI	96817-3504
			BUSINESS OCCUPANT	1408 LILIHA ST STE 101		HONOLULU HI 96817-3581	HONOLULU	HI	96817-3581
			BUSINESS OCCUPANT	1408 LILIHA ST STE 103		HONOLULU HI 96817-3581	HONOLULU	HI	96817-3581
			RESIDENT	1408 LILIHA ST APT 201		HONOLULU HI 96817-3581	HONOLULU	HI	96817-3581
			RESIDENT	1408 LILIHA ST APT 202		HONOLULU HI 96817-3581	HONOLULU	HI	96817-3581
			RESIDENT	1408 LILIHA ST APT 203		HONOLULU HI 96817-3581	HONOLULU	HI	96817-3581
			RESIDENT	1408 LILIHA ST APT 204		HONOLULU HI 96817-3581	HONOLULU	HI	96817-3581
			RESIDENT	1408 LILIHA ST APT 302		HONOLULU HI 96817-3581	HONOLULU	HI	96817-3581
			RESIDENT	1408 LILIHA ST APT 205		HONOLULU HI 96817-3581	HONOLULU	HI	96817-3581
			RESIDENT	1408 LILIHA ST APT 304		HONOLULU HI 96817-3581	HONOLULU	HI	96817-3581
			RESIDENT	1408 LILIHA ST APT 303		HONOLULU HI 96817-3581	HONOLULU	HI	96817-3581
			RESIDENT	1408 LILIHA ST APT 206		HONOLULU HI 96817-3581	HONOLULU	HI	96817-3581
			RESIDENT	1408 LILIHA ST APT 301		HONOLULU HI 96817-3581	HONOLULU	HI	96817-3581
			RESIDENT	530 WAIPA LN		HONOLULU HI 96817-3530	HONOLULU	HI	96817-3530
			RESIDENT	532 WAIPA LN		HONOLULU HI 96817-3530	HONOLULU	HI	96817-3530
			RESIDENT	1443 HOLELUA PL		HONOLULU HI 96817-3503	HONOLULU	HI	96817-3503
			RESIDENT	1440 HOLELUA PL		HONOLULU HI 96817-3502	HONOLULU	HI	96817-3502
			RESIDENT	1434 HOLELUA PL		HONOLULU HI 96817-3502	HONOLULU	HI	96817-3502
			RESIDENT	1430 HOLELUA PL APT A		HONOLULU HI 96817-3586	HONOLULU	HI	96817-3586
			RESIDENT	1424 HOLELUA PL		HONOLULU HI 96817-3502	HONOLULU	HI	96817-3502
			RESIDENT	556 WAIPA LN		HONOLULU HI 96817-3532	HONOLULU	HI	96817-3532
			RESIDENT	548 WAIPA LN		HONOLULU HI 96817-3530	HONOLULU	HI	96817-3530
			BUSINESS OCCUPANT	620 WAIPA LN		HONOLULU HI 96817-3533	HONOLULU	HI	96817-3533
			RESIDENT	622 WAIPA LN		HONOLULU HI 96817-3533	HONOLULU	HI	96817-3533
			RESIDENT	624 WAIPA LN		HONOLULU HI 96817-3533	HONOLULU	HI	96817-3533
			RESIDENT	624B WAIPA LN		HONOLULU HI 96817-3533	HONOLULU	HI	96817-3533
			RESIDENT	626 WAIPA LN		HONOLULU HI 96817-3533	HONOLULU	HI	96817-3533
			RESIDENT	628 WAIPA LN		HONOLULU HI 96817-3533	HONOLULU	HI	96817-3533
			RESIDENT	628A WAIPA LN		HONOLULU HI 96817-3533	HONOLULU	HI	96817-3533
			RESIDENT	631 WAIPA LN		HONOLULU HI 96817-3534	HONOLULU	HI	96817-3534
			RESIDENT	631A WAIPA LN		HONOLULU HI 96817-3534	HONOLULU	HI	96817-3534
			RESIDENT	631B WAIPA LN		HONOLULU HI 96817-3534	HONOLULU	HI	96817-3534
			RESIDENT	631C WAIPA LN		HONOLULU HI 96817-3534	HONOLULU	HI	96817-3534
			RESIDENT	627A WAIPA LN		HONOLULU HI 96817-3534	HONOLULU	HI	96817-3534
			RESIDENT	627B WAIPA LN		HONOLULU HI 96817-3534	HONOLULU	HI	96817-3534
			RESIDENT	627 WAIPA LN		HONOLULU HI 96817-3534	HONOLULU	HI	96817-3534
			RESIDENT	621A WAIPA LN		HONOLULU HI 96817-3534	HONOLULU	HI	96817-3534
			RESIDENT	621B WAIPA LN		HONOLULU HI 96817-3534	HONOLULU	HI	96817-3534
			RESIDENT	621B WAIPA LN		HONOLULU HI 96817-3534	HONOLULU	HI	96817-3534
			RESIDENT	619 WAIPA LN		HONOLULU HI 96817-3534	HONOLULU	HI	96817-3534
			RESIDENT	617 WAIPA LN		HONOLULU HI 96817-3534	HONOLULU	HI	96817-3534
			RESIDENT	615 WAIPA LN		HONOLULU HI 96817-3534	HONOLULU	HI	96817-3534
			RESIDENT	609 WAIPA LN		HONOLULU HI 96817-3534	HONOLULU	HI	96817-3534
			RESIDENT	607 WAIPA LN		HONOLULU HI 96817-3534	HONOLULU	HI	96817-3534

			RESIDENT	607 WAIPA LN		HONOLULU HI 96817-3534	HONOLULU	HI	96817-3534
			RESIDENT	601 WAIPA LN		HONOLULU HI 96817-3534	HONOLULU	HI	96817-3534
			RESIDENT	622B N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	622A N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	634A N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	634B N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	634C N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	634D N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	634E N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	634F N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	634G N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	634H N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	634I N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	642J N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	642I N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	642H N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	642G N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	642F N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	642D N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	642C N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	642B N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	642A N VINEYARD BLVD		HONOLULU HI 96817-3822	HONOLULU	HI	96817-3822
			RESIDENT	1411 PUA LN		HONOLULU HI 96817-3536	HONOLULU	HI	96817-3536
			RESIDENT	1423 PUA LN		HONOLULU HI 96817-3536	HONOLULU	HI	96817-3536
			RESIDENT	1427 PUA LN		HONOLULU HI 96817-3536	HONOLULU	HI	96817-3536
			RESIDENT	1431B PUA LN		HONOLULU HI 96817-3536	HONOLULU	HI	96817-3536
			RESIDENT	1431C PUA LN		HONOLULU HI 96817-3536	HONOLULU	HI	96817-3536
			RESIDENT	1431D PUA LN		HONOLULU HI 96817-3536	HONOLULU	HI	96817-3536
			RESIDENT	1428 PUA LN		HONOLULU HI 96817-3535	HONOLULU	HI	96817-3535
			RESIDENT	1422A PUA LN		HONOLULU HI 96817-3535	HONOLULU	HI	96817-3535
			RESIDENT	1422 PUA LN		HONOLULU HI 96817-3535	HONOLULU	HI	96817-3535
			RESIDENT	1416 PUA LN		HONOLULU HI 96817-3535	HONOLULU	HI	96817-3535
			RESIDENT	1416A PUA LN		HONOLULU HI 96817-3535	HONOLULU	HI	96817-3535
			RESIDENT	1416B PUA LN		HONOLULU HI 96817-3535	HONOLULU	HI	96817-3535
			RESIDENT	1416C PUA LN		HONOLULU HI 96817-3535	HONOLULU	HI	96817-3535
			RESIDENT	1412 PUA LN		HONOLULU HI 96817-3535	HONOLULU	HI	96817-3535
			RESIDENT	1408 PUA LN		HONOLULU HI 96817-3535	HONOLULU	HI	96817-3535
			RESIDENT	704 N VINEYARD BLVD		HONOLULU HI 96817-3538	HONOLULU	HI	96817-3538
			RESIDENT	714 N VINEYARD BLVD		HONOLULU HI 96817-3538	HONOLULU	HI	96817-3538
			RESIDENT	714A N VINEYARD BLVD		HONOLULU HI 96817-3538	HONOLULU	HI	96817-3538
			BUSINESS OCCUPANT	810 N VINEYARD BLVD STE 1		HONOLULU HI 96817-3590	HONOLULU	HI	96817-3590
			RESIDENT	801 N VINEYARD BLVD APT C1		HONOLULU HI 96817-3541	HONOLULU	HI	96817-3541
			RESIDENT	801 N VINEYARD BLVD APT C2		HONOLULU HI 96817-3541	HONOLULU	HI	96817-3541
			RESIDENT	801 N VINEYARD BLVD APT C3		HONOLULU HI 96817-3541	HONOLULU	HI	96817-3541
			RESIDENT	801 N VINEYARD BLVD APT C4		HONOLULU HI 96817-3541	HONOLULU	HI	96817-3541
			RESIDENT	801 N VINEYARD BLVD APT C5		HONOLULU HI 96817-3541	HONOLULU	HI	96817-3541
			RESIDENT	801 N VINEYARD BLVD APT C6		HONOLULU HI 96817-3541	HONOLULU	HI	96817-3541
			RESIDENT	801 N VINEYARD BLVD APT C7		HONOLULU HI 96817-3541	HONOLULU	HI	96817-3541
			RESIDENT	809 N VINEYARD BLVD APT E1		HONOLULU HI 96817-3546	HONOLULU	HI	96817-3546
			RESIDENT	809 N VINEYARD BLVD APT E2		HONOLULU HI 96817-3546	HONOLULU	HI	96817-3546
			RESIDENT	809 N VINEYARD BLVD APT E3		HONOLULU HI 96817-3546	HONOLULU	HI	96817-3546
			RESIDENT	809 N VINEYARD BLVD APT E4		HONOLULU HI 96817-3546	HONOLULU	HI	96817-3546
			RESIDENT	809 N VINEYARD BLVD APT E5		HONOLULU HI 96817-3546	HONOLULU	HI	96817-3546
			RESIDENT	809 N VINEYARD BLVD APT E6		HONOLULU HI 96817-3546	HONOLULU	HI	96817-3546
			RESIDENT	809 N VINEYARD BLVD APT E7		HONOLULU HI 96817-3546	HONOLULU	HI	96817-3546
			RESIDENT	801 N VINEYARD BLVD APT C8		HONOLULU HI 96817-3566	HONOLULU	HI	96817-3566
			RESIDENT	801 N VINEYARD BLVD APT C9		HONOLULU HI 96817-3566	HONOLULU	HI	96817-3566
			RESIDENT	801 N VINEYARD BLVD APT C10		HONOLULU HI 96817-3566	HONOLULU	HI	96817-3566
			RESIDENT	801 N VINEYARD BLVD APT C11		HONOLULU HI 96817-3566	HONOLULU	HI	96817-3566
			RESIDENT	801 N VINEYARD BLVD APT C12		HONOLULU HI 96817-3566	HONOLULU	HI	96817-3566
			RESIDENT	801 N VINEYARD BLVD APT C13		HONOLULU HI 96817-3566	HONOLULU	HI	96817-3566
			RESIDENT	801 N VINEYARD BLVD APT C14		HONOLULU HI 96817-3566	HONOLULU	HI	96817-3566
			RESIDENT	809 N VINEYARD BLVD APT E8		HONOLULU HI 96817-3572	HONOLULU	HI	96817-3572
			RESIDENT	809 N VINEYARD BLVD APT E9		HONOLULU HI 96817-3572	HONOLULU	HI	96817-3572
			RESIDENT	809 N VINEYARD BLVD APT E10		HONOLULU HI 96817-3572	HONOLULU	HI	96817-3572
			RESIDENT	809 N VINEYARD BLVD APT E11		HONOLULU HI 96817-3572	HONOLULU	HI	96817-3572
			RESIDENT	809 N VINEYARD BLVD APT E12		HONOLULU HI 96817-3572	HONOLULU	HI	96817-3572
			RESIDENT	809 N VINEYARD BLVD APT E13		HONOLULU HI 96817-3572	HONOLULU	HI	96817-3572
			RESIDENT	809 N VINEYARD BLVD APT E14		HONOLULU HI 96817-3572	HONOLULU	HI	96817-3572
			RESIDENT	803 N VINEYARD BLVD APT D1		HONOLULU HI 96817-3543	HONOLULU	HI	96817-3543
			RESIDENT	803 N VINEYARD BLVD APT D2		HONOLULU HI 96817-3543	HONOLULU	HI	96817-3543
			RESIDENT	803 N VINEYARD BLVD APT D3		HONOLULU HI 96817-3543	HONOLULU	HI	96817-3543

			RESIDENT	803 N VINEYARD BLVD APT D4		HONOLULU HI 96817-3543	HONOLULU	HI	96817-3543
			RESIDENT	803 N VINEYARD BLVD APT D5		HONOLULU HI 96817-3543	HONOLULU	HI	96817-3543
			RESIDENT	803 N VINEYARD BLVD APT D6		HONOLULU HI 96817-3543	HONOLULU	HI	96817-3543
			RESIDENT	809 N VINEYARD BLVD APT E15		HONOLULU HI 96817-3572	HONOLULU	HI	96817-3572
			RESIDENT	811 N VINEYARD BLVD APT F1		HONOLULU HI 96817-3573	HONOLULU	HI	96817-3573
			RESIDENT	811 N VINEYARD BLVD APT F2		HONOLULU HI 96817-3573	HONOLULU	HI	96817-3573
			RESIDENT	811 N VINEYARD BLVD APT F3		HONOLULU HI 96817-3573	HONOLULU	HI	96817-3573
			RESIDENT	811 N VINEYARD BLVD APT F4		HONOLULU HI 96817-3573	HONOLULU	HI	96817-3573
			RESIDENT	811 N VINEYARD BLVD APT F5		HONOLULU HI 96817-3573	HONOLULU	HI	96817-3573
			RESIDENT	811 N VINEYARD BLVD APT F6		HONOLULU HI 96817-3573	HONOLULU	HI	96817-3573
			RESIDENT	803 N VINEYARD BLVD APT D8		HONOLULU HI 96817-3568	HONOLULU	HI	96817-3568
			RESIDENT	803 N VINEYARD BLVD APT D9		HONOLULU HI 96817-3568	HONOLULU	HI	96817-3568
			RESIDENT	803 N VINEYARD BLVD APT D10		HONOLULU HI 96817-3568	HONOLULU	HI	96817-3568
			RESIDENT	803 N VINEYARD BLVD APT D11		HONOLULU HI 96817-3568	HONOLULU	HI	96817-3568
			RESIDENT	803 N VINEYARD BLVD APT D12		HONOLULU HI 96817-3568	HONOLULU	HI	96817-3568
			RESIDENT	803 N VINEYARD BLVD APT D13		HONOLULU HI 96817-3568	HONOLULU	HI	96817-3568
			RESIDENT	811 N VINEYARD BLVD APT F7		HONOLULU HI 96817-3547	HONOLULU	HI	96817-3547
			RESIDENT	811 N VINEYARD BLVD APT F8		HONOLULU HI 96817-3547	HONOLULU	HI	96817-3547
			RESIDENT	811 N VINEYARD BLVD APT F9		HONOLULU HI 96817-3547	HONOLULU	HI	96817-3547
			RESIDENT	811 N VINEYARD BLVD APT F10		HONOLULU HI 96817-3547	HONOLULU	HI	96817-3547
			RESIDENT	811 N VINEYARD BLVD APT F11		HONOLULU HI 96817-3547	HONOLULU	HI	96817-3547
			RESIDENT	811 N VINEYARD BLVD APT F12		HONOLULU HI 96817-3547	HONOLULU	HI	96817-3547
			RESIDENT	803 N VINEYARD BLVD APT D14		HONOLULU HI 96817-3500	HONOLULU	HI	96817-3500
			RESIDENT	803 N VINEYARD BLVD APT D15		HONOLULU HI 96817-3500	HONOLULU	HI	96817-3500
			RESIDENT	807 N VINEYARD BLVD APT A1		HONOLULU HI 96817-3569	HONOLULU	HI	96817-3569
			RESIDENT	807 N VINEYARD BLVD APT A2		HONOLULU HI 96817-3569	HONOLULU	HI	96817-3569
			RESIDENT	807 N VINEYARD BLVD APT A3		HONOLULU HI 96817-3569	HONOLULU	HI	96817-3569
			RESIDENT	807 N VINEYARD BLVD APT A4		HONOLULU HI 96817-3569	HONOLULU	HI	96817-3569
			RESIDENT	811 N VINEYARD BLVD APT F13		HONOLULU HI 96817-3584	HONOLULU	HI	96817-3584
			RESIDENT	811 N VINEYARD BLVD APT F14		HONOLULU HI 96817-3584	HONOLULU	HI	96817-3584
			RESIDENT	811 N VINEYARD BLVD APT F15		HONOLULU HI 96817-3584	HONOLULU	HI	96817-3584
			RESIDENT	815 N VINEYARD BLVD APT B1		HONOLULU HI 96817-3576	HONOLULU	HI	96817-3576
			RESIDENT	815 N VINEYARD BLVD APT B2		HONOLULU HI 96817-3576	HONOLULU	HI	96817-3576
			RESIDENT	815 N VINEYARD BLVD APT B3		HONOLULU HI 96817-3576	HONOLULU	HI	96817-3576
			RESIDENT	807 N VINEYARD BLVD APT A5		HONOLULU HI 96817-3570	HONOLULU	HI	96817-3570
			RESIDENT	807 N VINEYARD BLVD APT A6		HONOLULU HI 96817-3570	HONOLULU	HI	96817-3570
			RESIDENT	807 N VINEYARD BLVD APT A7		HONOLULU HI 96817-3570	HONOLULU	HI	96817-3570
			RESIDENT	807 N VINEYARD BLVD APT A8		HONOLULU HI 96817-3570	HONOLULU	HI	96817-3570
			RESIDENT	807 N VINEYARD BLVD APT A9		HONOLULU HI 96817-3570	HONOLULU	HI	96817-3570
			RESIDENT	807 N VINEYARD BLVD APT A10		HONOLULU HI 96817-3570	HONOLULU	HI	96817-3570
			RESIDENT	815 N VINEYARD BLVD APT B4		HONOLULU HI 96817-3548	HONOLULU	HI	96817-3548
			RESIDENT	815 N VINEYARD BLVD APT B5		HONOLULU HI 96817-3548	HONOLULU	HI	96817-3548
			RESIDENT	815 N VINEYARD BLVD APT B6		HONOLULU HI 96817-3548	HONOLULU	HI	96817-3548
			RESIDENT	815 N VINEYARD BLVD APT B7		HONOLULU HI 96817-3548	HONOLULU	HI	96817-3548
			RESIDENT	815 N VINEYARD BLVD APT B8		HONOLULU HI 96817-3548	HONOLULU	HI	96817-3548
			RESIDENT	815 N VINEYARD BLVD APT B9		HONOLULU HI 96817-3548	HONOLULU	HI	96817-3548
			RESIDENT	807 N VINEYARD BLVD APT A11		HONOLULU HI 96817-3571	HONOLULU	HI	96817-3571
			RESIDENT	807 N VINEYARD BLVD APT A12		HONOLULU HI 96817-3571	HONOLULU	HI	96817-3571
			RESIDENT	807 N VINEYARD BLVD APT A13		HONOLULU HI 96817-3571	HONOLULU	HI	96817-3571
			RESIDENT	807 N VINEYARD BLVD APT A14		HONOLULU HI 96817-3571	HONOLULU	HI	96817-3571
			RESIDENT	807 N VINEYARD BLVD APT A15		HONOLULU HI 96817-3571	HONOLULU	HI	96817-3571
			RESIDENT	815 N VINEYARD BLVD APT B10		HONOLULU HI 96817-3549	HONOLULU	HI	96817-3549
			RESIDENT	815 N VINEYARD BLVD APT B11		HONOLULU HI 96817-3549	HONOLULU	HI	96817-3549
			RESIDENT	815 N VINEYARD BLVD APT B12		HONOLULU HI 96817-3549	HONOLULU	HI	96817-3549
			RESIDENT	815 N VINEYARD BLVD APT B13		HONOLULU HI 96817-3549	HONOLULU	HI	96817-3549
			RESIDENT	815 N VINEYARD BLVD APT B14		HONOLULU HI 96817-3549	HONOLULU	HI	96817-3549
			RESIDENT	807 N VINEYARD BLVD APT A16		HONOLULU HI 96817-3544	HONOLULU	HI	96817-3544
			RESIDENT	807 N VINEYARD BLVD APT A18		HONOLULU HI 96817-3544	HONOLULU	HI	96817-3544
			RESIDENT	807 N VINEYARD BLVD APT A19		HONOLULU HI 96817-3545	HONOLULU	HI	96817-3545
			RESIDENT	807 N VINEYARD BLVD APT A20		HONOLULU HI 96817-3545	HONOLULU	HI	96817-3545
			RESIDENT	807 N VINEYARD BLVD APT A21		HONOLULU HI 96817-3545	HONOLULU	HI	96817-3545
			RESIDENT	815 N VINEYARD BLVD APT B15		HONOLULU HI 96817-3577	HONOLULU	HI	96817-3577
			RESIDENT	815 N VINEYARD BLVD APT B16		HONOLULU HI 96817-3577	HONOLULU	HI	96817-3577
			RESIDENT	815 N VINEYARD BLVD APT B17		HONOLULU HI 96817-3577	HONOLULU	HI	96817-3577
			RESIDENT	815 N VINEYARD BLVD APT B18		HONOLULU HI 96817-3578	HONOLULU	HI	96817-3578
			RESIDENT	815 N VINEYARD BLVD APT B19		HONOLULU HI 96817-3578	HONOLULU	HI	96817-3578
			RESIDENT	815 N VINEYARD BLVD APT B20		HONOLULU HI 96817-3578	HONOLULU	HI	96817-3578
			RESIDENT	819 N VINEYARD BLVD APT G1		HONOLULU HI 96817-3550	HONOLULU	HI	96817-3550
			RESIDENT	819 N VINEYARD BLVD APT G2		HONOLULU HI 96817-3550	HONOLULU	HI	96817-3550
			RESIDENT	819 N VINEYARD BLVD APT G3		HONOLULU HI 96817-3550	HONOLULU	HI	96817-3550
			RESIDENT	819 N VINEYARD BLVD APT G4		HONOLULU HI 96817-3550	HONOLULU	HI	96817-3550
			RESIDENT	819 N VINEYARD BLVD APT G5		HONOLULU HI 96817-3550	HONOLULU	HI	96817-3550

			RESIDENT	819 N VINEYARD BLVD APT G6		HONOLULU HI 96817-3550	HONOLULU	HI	96817-3550
			RESIDENT	819 N VINEYARD BLVD APT G7		HONOLULU HI 96817-3550	HONOLULU	HI	96817-3550
			RESIDENT	819 N VINEYARD BLVD APT G8		HONOLULU HI 96817-3551	HONOLULU	HI	96817-3551
			RESIDENT	819 N VINEYARD BLVD APT G9		HONOLULU HI 96817-3551	HONOLULU	HI	96817-3551
			RESIDENT	819 N VINEYARD BLVD APT G10		HONOLULU HI 96817-3551	HONOLULU	HI	96817-3551
			RESIDENT	819 N VINEYARD BLVD APT G11		HONOLULU HI 96817-3551	HONOLULU	HI	96817-3551
			RESIDENT	819 N VINEYARD BLVD APT G12		HONOLULU HI 96817-3551	HONOLULU	HI	96817-3551
			RESIDENT	819 N VINEYARD BLVD APT G13		HONOLULU HI 96817-3579	HONOLULU	HI	96817-3579
			RESIDENT	819 N VINEYARD BLVD APT G14		HONOLULU HI 96817-3579	HONOLULU	HI	96817-3579
			RESIDENT	819 N VINEYARD BLVD APT G15		HONOLULU HI 96817-3579	HONOLULU	HI	96817-3579
			RESIDENT	819 N VINEYARD BLVD APT G16		HONOLULU HI 96817-3579	HONOLULU	HI	96817-3579
			RESIDENT	819 N VINEYARD BLVD APT G17		HONOLULU HI 96817-3579	HONOLULU	HI	96817-3579
			RESIDENT	717 N VINEYARD BLVD		HONOLULU HI 96817-3539	HONOLULU	HI	96817-3539
			RESIDENT	717A N VINEYARD BLVD		HONOLULU HI 96817-3539	HONOLULU	HI	96817-3539
			RESIDENT	717B N VINEYARD BLVD		HONOLULU HI 96817-3539	HONOLULU	HI	96817-3539
			RESIDENT	717C N VINEYARD BLVD		HONOLULU HI 96817-3539	HONOLULU	HI	96817-3539
			RESIDENT	709B N VINEYARD BLVD		HONOLULU HI 96817-3539	HONOLULU	HI	96817-3539
			RESIDENT	709A N VINEYARD BLVD		HONOLULU HI 96817-3539	HONOLULU	HI	96817-3539
			RESIDENT	703 N VINEYARD BLVD		HONOLULU HI 96817-3539	HONOLULU	HI	96817-3539
			BUSINESS OCCUPANT	544 N VINEYARD BLVD		HONOLULU HI 96817-3833	HONOLULU	HI	96817-3833
			BUSINESS OCCUPANT	572 N VINEYARD BLVD		HONOLULU HI 96817-3833	HONOLULU	HI	96817-3833
			BUSINESS OCCUPANT	574 N VINEYARD BLVD		HONOLULU HI 96817-3833	HONOLULU	HI	96817-3833
			BUSINESS OCCUPANT	580 N VINEYARD BLVD		HONOLULU HI 96817-3833	HONOLULU	HI	96817-3833
			RESIDENT	608 N VINEYARD BLVD APT 101		HONOLULU HI 96817-3841	HONOLULU	HI	96817-3841
			RESIDENT	608 N VINEYARD BLVD APT 102		HONOLULU HI 96817-3841	HONOLULU	HI	96817-3841
			RESIDENT	608 N VINEYARD BLVD APT 103		HONOLULU HI 96817-3841	HONOLULU	HI	96817-3841
			RESIDENT	608 N VINEYARD BLVD APT 104		HONOLULU HI 96817-3841	HONOLULU	HI	96817-3841
			RESIDENT	608 N VINEYARD BLVD APT 105		HONOLULU HI 96817-3841	HONOLULU	HI	96817-3841
			RESIDENT	608 N VINEYARD BLVD APT 106		HONOLULU HI 96817-3841	HONOLULU	HI	96817-3841
			RESIDENT	608 N VINEYARD BLVD APT 201		HONOLULU HI 96817-3859	HONOLULU	HI	96817-3859
			RESIDENT	608 N VINEYARD BLVD APT 202		HONOLULU HI 96817-3859	HONOLULU	HI	96817-3859
			RESIDENT	608 N VINEYARD BLVD APT 203		HONOLULU HI 96817-3859	HONOLULU	HI	96817-3859
			RESIDENT	608 N VINEYARD BLVD APT 204		HONOLULU HI 96817-3859	HONOLULU	HI	96817-3859
			RESIDENT	608 N VINEYARD BLVD APT 205		HONOLULU HI 96817-3859	HONOLULU	HI	96817-3859
			RESIDENT	608 N VINEYARD BLVD APT 206		HONOLULU HI 96817-3859	HONOLULU	HI	96817-3859
			RESIDENT	608 N VINEYARD BLVD APT 301		HONOLULU HI 96817-3842	HONOLULU	HI	96817-3842
			RESIDENT	608 N VINEYARD BLVD APT 302		HONOLULU HI 96817-3842	HONOLULU	HI	96817-3842
			RESIDENT	608 N VINEYARD BLVD APT 303		HONOLULU HI 96817-3842	HONOLULU	HI	96817-3842
			RESIDENT	608 N VINEYARD BLVD APT 304		HONOLULU HI 96817-3842	HONOLULU	HI	96817-3842
			RESIDENT	608 N VINEYARD BLVD APT 305		HONOLULU HI 96817-3842	HONOLULU	HI	96817-3842
			RESIDENT	608 N VINEYARD BLVD APT 306		HONOLULU HI 96817-3842	HONOLULU	HI	96817-3842
			BUSINESS OCCUPANT	245 N KUKUI ST STE 101		HONOLULU HI 96817-3921	HONOLULU	HI	96817-3921
			BUSINESS OCCUPANT	245 N KUKUI ST STE 102		HONOLULU HI 96817-3921	HONOLULU	HI	96817-3921
			BUSINESS OCCUPANT	245 N KUKUI ST STE 103		HONOLULU HI 96817-3921	HONOLULU	HI	96817-3921
			BUSINESS OCCUPANT	245 N KUKUI ST STE 104		HONOLULU HI 96817-3921	HONOLULU	HI	96817-3921
			BUSINESS OCCUPANT	245 N KUKUI ST STE 206		HONOLULU HI 96817-3921	HONOLULU	HI	96817-3921
			BUSINESS OCCUPANT	245 N KUKUI ST STE 202		HONOLULU HI 96817-3921	HONOLULU	HI	96817-3921
			BUSINESS OCCUPANT	245 N KUKUI ST STE 203		HONOLULU HI 96817-3921	HONOLULU	HI	96817-3921
			BUSINESS OCCUPANT	245 N KUKUI ST STE 204		HONOLULU HI 96817-3921	HONOLULU	HI	96817-3921
			BUSINESS OCCUPANT	245 N KUKUI ST STE 102A		HONOLULU HI 96817-3921	HONOLULU	HI	96817-3921
			BUSINESS OCCUPANT	245 N KUKUI ST STE 207		HONOLULU HI 96817-3921	HONOLULU	HI	96817-3921
			BUSINESS OCCUPANT	215 N KUKUI ST		HONOLULU HI 96817-3951	HONOLULU	HI	96817-3951
			BUSINESS OCCUPANT	1374 NUUANU AVE OFC		HONOLULU HI 96817-4032	HONOLULU	HI	96817-4032
			RESIDENT	1323 NUUANU AVE APT 102		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 104		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 105		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 106		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 107		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 108		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 109		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 110		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 201		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 202		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 203		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 204		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 205		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 206		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 207		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 208		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 209		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 210		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 301		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000

			RESIDENT	1323 NUUANU AVE APT 302		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 303		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 304		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 305		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 306		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 307		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 308		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 309		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1323 NUUANU AVE APT 310		HONOLULU HI 96817-4000	HONOLULU	HI	96817-4000
			RESIDENT	1325 NUUANU AVE APT 301		HONOLULU HI 96817-4019	HONOLULU	HI	96817-4019
			RESIDENT	1325 NUUANU AVE APT 303		HONOLULU HI 96817-4019	HONOLULU	HI	96817-4019
			RESIDENT	1325 NUUANU AVE APT 304		HONOLULU HI 96817-4019	HONOLULU	HI	96817-4019
			RESIDENT	1325 NUUANU AVE APT 305		HONOLULU HI 96817-4019	HONOLULU	HI	96817-4019
			RESIDENT	1325 NUUANU AVE APT 306		HONOLULU HI 96817-4019	HONOLULU	HI	96817-4019
			RESIDENT	1325 NUUANU AVE APT 307		HONOLULU HI 96817-4019	HONOLULU	HI	96817-4019
			RESIDENT	1325 NUUANU AVE APT 308		HONOLULU HI 96817-4019	HONOLULU	HI	96817-4019
			RESIDENT	1325 NUUANU AVE APT 309		HONOLULU HI 96817-4019	HONOLULU	HI	96817-4019
			RESIDENT	1325 NUUANU AVE APT 310		HONOLULU HI 96817-4019	HONOLULU	HI	96817-4019
			RESIDENT	1325 NUUANU AVE APT 311		HONOLULU HI 96817-4019	HONOLULU	HI	96817-4019
			RESIDENT	1325 NUUANU AVE APT 313		HONOLULU HI 96817-4019	HONOLULU	HI	96817-4019
			RESIDENT	1325 NUUANU AVE APT 314		HONOLULU HI 96817-4019	HONOLULU	HI	96817-4019
			RESIDENT	1325 NUUANU AVE APT 315		HONOLULU HI 96817-4019	HONOLULU	HI	96817-4019
			RESIDENT	1325 NUUANU AVE APT 317		HONOLULU HI 96817-4019	HONOLULU	HI	96817-4019
			RESIDENT	1325 NUUANU AVE APT 318		HONOLULU HI 96817-4019	HONOLULU	HI	96817-4019
			RESIDENT	1325 NUUANU AVE APT 319		HONOLULU HI 96817-4019	HONOLULU	HI	96817-4019
			BUSINESS OCCUPANT	1325 NUUANU AVE STE 217		HONOLULU HI 96817-4034	HONOLULU	HI	96817-4034
			BUSINESS OCCUPANT	1325 NUUANU AVE STE 213		HONOLULU HI 96817-4034	HONOLULU	HI	96817-4034
			BUSINESS OCCUPANT	1325 NUUANU AVE STE 211		HONOLULU HI 96817-4034	HONOLULU	HI	96817-4034
			BUSINESS OCCUPANT	1325 NUUANU AVE STE 210		HONOLULU HI 96817-4034	HONOLULU	HI	96817-4034
			BUSINESS OCCUPANT	1325 NUUANU AVE STE 207		HONOLULU HI 96817-4034	HONOLULU	HI	96817-4034
			BUSINESS OCCUPANT	1325 NUUANU AVE STE 206		HONOLULU HI 96817-4034	HONOLULU	HI	96817-4034
			BUSINESS OCCUPANT	1325 NUUANU AVE STE 208		HONOLULU HI 96817-4034	HONOLULU	HI	96817-4034
			BUSINESS OCCUPANT	1325 NUUANU AVE STE 205		HONOLULU HI 96817-4034	HONOLULU	HI	96817-4034
			BUSINESS OCCUPANT	1325 NUUANU AVE STE 203		HONOLULU HI 96817-4034	HONOLULU	HI	96817-4034
			BUSINESS OCCUPANT	1325 NUUANU AVE STE 202		HONOLULU HI 96817-4034	HONOLULU	HI	96817-4034
			BUSINESS OCCUPANT	1325 NUUANU AVE STE 201		HONOLULU HI 96817-4034	HONOLULU	HI	96817-4034
			BUSINESS OCCUPANT	1327 NUUANU AVE		HONOLULU HI 96817-4033	HONOLULU	HI	96817-4033
			BUSINESS OCCUPANT	1329 NUUANU AVE		HONOLULU HI 96817-4033	HONOLULU	HI	96817-4033
			BUSINESS OCCUPANT	1333 NUUANU AVE		HONOLULU HI 96817-4033	HONOLULU	HI	96817-4033
			BUSINESS OCCUPANT	1337 NUUANU AVE		HONOLULU HI 96817-4033	HONOLULU	HI	96817-4033
			BUSINESS OCCUPANT	1339 NUUANU AVE STE A		HONOLULU HI 96817-4033	HONOLULU	HI	96817-4033
			BUSINESS OCCUPANT	1339 NUUANU AVE		HONOLULU HI 96817-4033	HONOLULU	HI	96817-4033
			BUSINESS OCCUPANT	1347 NUUANU AVE		HONOLULU HI 96817-4033	HONOLULU	HI	96817-4033
			BUSINESS OCCUPANT	1351 NUUANU AVE		HONOLULU HI 96817-4033	HONOLULU	HI	96817-4033
			BUSINESS OCCUPANT	1365 NUUANU AVE STE 1		HONOLULU HI 96817-4035	HONOLULU	HI	96817-4035
			BUSINESS OCCUPANT	1365 NUUANU AVE STE 4		HONOLULU HI 96817-4035	HONOLULU	HI	96817-4035
			BUSINESS OCCUPANT	1365 NUUANU AVE STE 6		HONOLULU HI 96817-4035	HONOLULU	HI	96817-4035
			BUSINESS OCCUPANT	1365 NUUANU AVE STE 8		HONOLULU HI 96817-4035	HONOLULU	HI	96817-4035
			BUSINESS OCCUPANT	1365 NUUANU AVE STE 10A		HONOLULU HI 96817-4045	HONOLULU	HI	96817-4045
			BUSINESS OCCUPANT	1365 NUUANU AVE STE 10B		HONOLULU HI 96817-4045	HONOLULU	HI	96817-4045
			BUSINESS OCCUPANT	1365 NUUANU AVE STE 11		HONOLULU HI 96817-4035	HONOLULU	HI	96817-4035

EXHIBIT 28

8 PUBLIC ENGAGEMENT AND EIS CONSULTATION

8.1 Public Engagement through the Conceptual Master Plan Process

HPHA and the project team have participated in several rounds of public meetings and outreach for the proposed MWH Redevelopment including resident and community meetings, area Neighborhood Board meetings, and a week-long conceptual design charrette onsite at MWH. In addition, the team has met with various stakeholders including area legislators and councilmembers, businesses, schools, churches, public agencies, and service providers to discuss their concerns and wishes for the project and encouraged them to participate throughout the planning process.

The resulting community-based vision and conceptual master plan for MWH has been a collaborative effort with various forums for community involvement. From community meetings and the establishment of a Community Advisory Committee (CAC) to a weeklong design charrette held onsite at MWH, the residents and community have participated in the development of the proposed plan and shared their input and insights to help refine the concept and inform the project team as they move forward with this environmental review, permitting, and eventual implementation. The project team is grateful for all the support and invaluable insights generously shared and will continue to seek resident and community input as they move through the process. A list of the meetings held to date is provided below.

Neighborhood Board Meetings:

- April 20, 2016 Kalihi-Pālama Neighborhood Board Meeting – Kalihi Union Church at 7:00 p.m.
- May 9, 2016 Liliha/Puʻunui/ʻĀlewa/Kamehameha Heights Neighborhood Board Meeting – Maʻemaʻe Elementary School Cafeteria, 7:00 p.m.
- May 18, 2016 Kalihi-Pālama Neighborhood Board Meeting – Kalihi Union Church at 7:00 p.m.
- October 19, 2016 Kalihi-Pālama Neighborhood Board Meeting – Kalihi Union Church at 7:00 p.m.

State Legislators

- April 5, 2016 Senator Suzanne Chun Oakland – District includes Liliha, Pālama, Iwilei, Kalihi, Nuʻuanu, Pacific Heights, Pauoa, Lower Tantalus, Downtown; Chair of the Senate Human Services Committee
- April 6, 2016 Representative Mark Hashem, Chair of House Housing Committee
- April 6, 2016 Senator Breene Harimoto, Chair of Senate Housing Committee
- April 18, 2016 Representative Karl Rhoads, District 29 Representative (Kalihi, Pālama, Iwilei, Chinatown)

Councilmembers

- April 19, 2016 Councilmember Joey Manahan, Council District 7 (Kalihi-Pālama, Kalihi-Kai, Iwilei, Māpunapuna, Salt Lake, Āliamanu, Hickam, Foster Village, and portions of Pearl Harbor, Aiea, Kalihi Valley, and Liliha)
- August 17, 2016 Councilmember Carol Fukunaga, Council District 6 (Portions of Makiki, Downtown Honolulu, Punchbowl, Pauoa Valley, Nuʻuanu, ʻĀlewa Heights, Papakōlea, Fort Shafter, Moanalua, Hālawa, ʻAiea, Kalihi Valley, and portions of Liliha and Kalihi)

Residents

- May 6, 2016 at MWH (Kick-off Meeting)
- July 20, 2016 at MWH (repeat of Community Meeting #2, Concordia Workshop)

Public Community Meetings

- May 24, 2016 at Pālama Settlement (Community Meeting #1, Kick-off Meeting)
- June 28, 2016 at Pālama Settlement (Community Meeting #2, Concordia Workshop)
- August 8-12, 2016 at MWH (Community Meeting #3, Torti Gallas + Partners Charrette)
- June 20, 2017 at MWH (Community Meeting #4, Community Update Meeting)

Stakeholder Meetings and Interviews

- July 14, 2016 – Liliha Pālama Business Association
- August 8, 2016 City and County of Honolulu, Department of Planning and Permitting
- August 8, 2016 City and County of Honolulu, Board of Water Supply
- August 8, 2016 City and County of Honolulu, Department of Transportation Services and Department of Facilities Management
- August 9, 2016 Moss Construction
- August 9, 2016 Indigo Property Management
- August 9, 2016 Local Businesses through the Kalihi-Pālama Business Association
- August 10, 2016 Legislators (Senator Harimoto, Senator Chun Oakland, Representative Rhoads, Councilmember Manahan, Councilmember Fukunaga)
- August 10, 2016 Social Services (Hawaiʻi Literacy, Kalihi-Pālama Health Center, Pālama Settlement, Principal of McKinley High School, Salvation Army, State Office of Planning, Faith Action for Community Equity)
- August 10, 2016 Safety Service Providers, City and County of Honolulu, Fire Department and Police Department
- August 10, 2016 Department of Education, Facilities Department and Principal of Likelike Elementary School

Community Advisory Committee (CAC)

- July 28, 2016 (Kick-off Meeting)
- August 10, 2016 (Charrette Week Input)
- June 15, 2017 (Master Plan Overview and Discussion)

8.2 EIS Public Engagement

In the course of master planning for the MWH Redevelopment, consultation comments were solicited from agencies and organizations that may have an interest in the project. Consultation was conducted through various meetings, as outlined in Section 8.1. The purpose of these meetings is to consult with individuals, community organizations, private groups, and government agencies with technical expertise, or an interest or will be affected by the proposed action. This process was part of the development of the conceptual master plan and helped inform the preparation of the EIS.

8.2.1 Act 172-12 EISPN Consultation

Various Federal, State, and County agencies, as well as organizations and members within the community, were consulted with or provided comments on the EIS Preparation Notice (EISPN) which aided in the preparation of the Draft EIS and Final EIS.

The EISPN was distributed for review and input to the following agencies, organizations, and individuals indicated in the table below with a check mark (√). The EISPN was also available on the OEQC website and published in the September 23, 2016 edition of *The Environmental Notice*. The EISPN was also sent to various media outlets and libraries including all public regional libraries to provide availability to the public. The public comment period was from September 23, 2016 to October 24, 2016. If comments were received on the EISPN, the date of the comment is indicated in the table next to the respective agency, organization, or individual's name. Comment letters and the respective responses can be found in Appendix N.

Table 10: Act 172-12 EISPN Consultation

AGENCY/INDIVIDUAL	EISPN/ NOTIFICATION SENT	COMMENT DATED
FEDERAL AGENCIES		
U.S. Fish and Wildlife Service	√	
U.S. Department of the Interior, U.S. Geologic Survey	√	10/13/2016
U.S. National Marine Fisheries Service	√	
U.S. Department of the Interior, National Park Service	√	
U.S.D.A., Natural Resources Conservation Service	√	
U.S. Army Corps of Engineers	√	
Department of the Navy	√	
Federal Aviation Administration	√	
Federal Transit Administration	√	
Federal Highway Administration	√	
U.S. Coast Guard	√	
Environmental Protection Agency	√	
Federal Emergency Management Agency	√	10/5/2016
STATE AGENCIES		
Hawai'i Public Housing Authority	√	
Office of Environmental Quality Control	√	10/10/2016
Department of Agriculture	√	
Department of Accounting and General Services (DAGS)	√	11/7/2016
Department of Accounting and General Services - Archives Division	√	
Department of Business Economic Development & Tourism (DBEDT)	√	
DBEDT, Strategic Industries Division (formerly Energy Resources and Technology Division)	√	
DBEDT, Office of Planning	√	10/10/2016
Department of Defense	√	10/3/2016
Department of Education	√	10/5/2016

AGENCY/INDIVIDUAL	EISPN/ NOTIFICATION SENT	COMMENT DATED
Department of Hawaiian Home Lands	√	
Department of Health, Environmental Health Administration	√	10/6/2016 via EPO
Department of Land and Natural Resources (DLNR)	√	10/21/2016 – Land Division, O'ahu District 10/28/2016 – Engineering Division
DLNR, Historic Preservation Division (SHPD)	√	11/16/2016
Department of Transportation	√	11/18/2016
Office of Hawaiian Affairs	√	
CITY & COUNTY OF HONOLULU AGENCIES		
Department of Environmental Services	√	
Department of Design and Construction	√	
Department of Facility Maintenance	√	10/11/2016
Department of Parks and Recreation	√	9/28/2016
Department of Community Services	√	
Board of Water Supply	√	10/19/2016
Honolulu Fire Department	√	10/17/2016
Department of Planning and Permitting	√	10/25/2016
Honolulu Police Department	√	10/4/2016
Department of Transportation Services	√	10/19/2016
Honolulu Authority for Rapid Transportation	√	
ELECTED OFFICIALS		
The Honorable David Ige, Governor	√	
The Honorable Brian Schatz, U.S. Senator	√	
The Honorable Mazie Hirono, U.S. Senator	√	
U.S. House of Representatives First Congressional District Office for Hawai'i	√	
The Honorable Suzanne Chun Oakland, State Senator	√	
The Honorable Donna Mercado Kim, State Senator	√	
The Honorable Breene Harimoto, State Senator	√	
The Honorable Karl Rhoads, State Representative (now Senator)	√	10/3/2016
The Honorable Mark Hashem, State Representative	√	
Councilmember Joey Manahan	√	
Councilmember Carol Fukunaga	√	
Neighborhood Board No. 15 Chair Ryan Mandado	√	
Neighborhood Board No. 14 Chair Robert Stubbs	√	
UNIVERSITY OF HAWAI'I (UH)		
UH Office of Capital Improvement	√	
UH Water Resources Research Center	√	
UH Environmental Center	√	

AGENCY/INDIVIDUAL	EISPN/ NOTIFICATION SENT	COMMENT DATED
UH Marine Program	√	
UH Office of Multicultural Student Services	√	
UH Thomas H. Hamilton Library	√	
UH at Hilo Edwin H. Mo'okini Library	√	
UH Maui College Library	√	
UH Kaua'i Community College Library	√	
LIBRARIES		
Hawai'i State Library – Hawai'i Documents Center	√	
Liliha Public Library	√	
Kaimukī Regional Library	√	
Kāne'ohe Regional Library	√	
Pearl City Regional Library	√	
Hawai'i Kai Regional Library	√	
Hilo Regional Library	√	
Kahului Regional Library	√	
Līhu'e Regional Library	√	
Legislative Reference Bureau Library	√	
City and County of Honolulu Department of Customer Services-Municipal Reference Center Library	√	
UTILITIES COMPANIES		
Hawaiian Telcom	√	10/10/2016
Hawaiian Electric Company, Inc.	√	10/12/2016
Hawai'i Gas	√	
Oceanic Time Warner Cable	√	
NEWS MEDIA		
Honolulu Star Advertiser	√	
Hawai'i Tribune Herald	√	
West Hawai'i Today	√	
The Garden Island	√	
Maui News	√	
Moloka'i Dispatch	√	
Honolulu Civil Beat	√	
SCHOOLS		
Ka'iulani Elementary School	√	
Likelike Elementary School	√	
Linapuni Elementary School	√	
Central Middle School	√	
McKinley High School	√	
Farrington High School	√	
Honolulu Community College	√	
COMMUNITY ORGANIZATIONS		
Pālama Settlement	√	
Kalihi YMCA	√	

AGENCY/INDIVIDUAL	EISPN/ NOTIFICATION SENT	COMMENT DATED
Kalihi-Pālama Hawaiian Civic Club	√	
Salvation Army	√	
Hawai'i Literacy	√	
Weed and Seed	√	
Pacific Gateway Center	√	
Kalihi-Pālama Health Center	√	
Institute for Human Services	√	
Parents and Children Together	√	
Mutual Housing Association of Hawai'i	√	
Life of the Land		10/24/2016
FACE Hawai'i: Faith Action for Community Equity	√	
BUSINESSES		
Tamashiro Market	√	
Liliha-Pālama Business Association	√	
Realty Laua	√	
CHURCHES		
Kaumakapili United Church of Christ	√	
Aldersgate United Methodist Church	√	
Co-Cathedral of Saint Theresa	√	
Hawai'i First Samoan Assembly of God	√	
Samoan Congregational Christian Church of Honolulu, UCC	√	
St. Elizabeth Episcopal Church	√	
Hawai'i Chinese Baptist Church	√	
Bluewater Mission	√	
Samoan-Tokelau Seventh-Day Adventist	√	
Su Gran Alabanza	√	

8.2.2 EIS Scoping Meeting

In addition to the EISPN, an EIS scoping meeting was held on August 1, 2017. The following is a summary of the verbal comments received at the meeting and the responses.

- A question was asked about the triggers for a federal EIS. The project team responded that since the project is applying for HUD funding, it will require a federal review under the National Environmental Policy Act (NEPA) of 1969, as amended. Because the threshold for the EIS (as opposed to an EA) is the construction of 2,500 residential units, a federal NEPA EIS ~~will also be prepared~~ was anticipated for the project. However, since the scoping meeting, the number of units to be constructed will be 2,448 and the appropriate NEPA documentation will be completed as required. The NEPA ~~EIS~~ document will be prepared as a separate document and initial coordination with the local HUD office and the State Office of Environmental Quality Control (OEQC) is underway.
- A question was asked about ongoing property management and onsite social services. MWH Partners, LLC will manage MWH after construction and while too early to know exactly which social services will be onsite, they have started to reach out to community service providers about the services that will need to be provide to residents. This process is still ongoing and

will require a full community needs assessment but they are considering services such as child care, job training, language classes, and senior care. There are medical services right across the street with the Kalihi Pālama Health Center, and coordination with Hawai'i Literacy will continue since they are currently onsite at MWH.

- A question was asked about the amount of parking being provided given the project's location in a TOD zone. The project team responded that the current plan is to provide the number of stalls required by the City's regulations. However, there will be additional coordination with DPP during permitting and detailed design.
- A question was asked if the EIS will include a discussion about the impacts to existing school facilities. The project team confirmed that the EIS will and will require further discussions with the State Department of Education (DOE) since the initial discussions with the DOE have indicated that McKinley High School and Central Middle Schools might have the capacity.
- A question was asked if the EIS would include consultation with SHPD to comply with Section 106. The project team responded that yes, coordination with SHPD has been initiated and that the archaeological inventory survey, architectural history reconnaissance level survey, and cultural impact assessment have been prepared for both the State Chapter 6E and Federal Section 106 reviews.
- A question was asked about when the construction was anticipated to start. The project team responded that there are still several steps to be completed prior to construction and therefore the schedule is subject to change. However, the overall goal is to try to complete the Final EIS by the end of the year to prepare for the next legislative session and to begin the permitting process at the beginning of 2018.

In addition to the verbal discussion, one written comment card was collected at the meeting, which noted no comments at this time and that is was a good presentation. It is attached as Appendix O.

8.2.3 Draft EIS Consultation

The Draft EIS ~~will be~~ was sent to the following agencies, organizations, stakeholders, interested individuals, and elected officials. The final distribution list for the Draft EIS ~~has been~~ was confirmed by OEQC ~~prior to the publication date~~ on August 25, 2017. The Draft EIS ~~will~~ was also ~~be~~ sent to various media outlets and libraries including all regional public libraries to provide availability to the public. Comment letters received for the Draft EIS during the public comment period and corresponding responses ~~will be~~ are included in the Final EIS in Appendix P~~. Comment letters received for the Draft EIS will be incorporated and included in the Final EIS~~ as required by Section 343-5, HRS. The public comment period started on September 8, 2017 and closed on October 23, 2017. If comments were received on the Draft EIS, the date of the comment is indicated in the table next to the respective agency, organization, or individual's name. Three comment letters were received after the public comment period closed. All comment letters received up to the last one dated December 1, 2017 have been responded to and are incorporated in this EIS.

Table 11: Draft EIS Consultation

AGENCY/INDIVIDUAL	DRAFT EIS/NOTIFICATION ~~ANTICIPATED TO BE~~ SENT	COMMENT DATED
FEDERAL AGENCIES		
U.S. Fish and Wildlife Service	√	

AGENCY/INDIVIDUAL	DRAFT EIS/NOTIFICATION ~~ANTICIPATED TO BE~~ SENT	COMMENT DATED
U.S. Department of the Interior, U.S. Geologic Survey	√	10/10/2017
U.S. National Marine Fisheries Service	√	
U.S. Department of the Interior, National Park Service	√	
U.S.D.A., Natural Resources Conservation Service	√	
U.S. Army Corps of Engineers	√	12/1/2017*
Department of the Navy	√	
Federal Aviation Administration	√	
Federal Transit Administration	√	
Federal Highway Administration	√	
U.S. Coast Guard	√	
Environmental Protection Agency	√	
Federal Emergency Management Agency	√	
STATE AGENCIES		
Hawai'i Public Housing Authority	√	
Office of Environmental Quality Control	√	
Department of Agriculture	√	
Department of Accounting and General Services (DAGS)	√	10/23/2017
DAGS - Archives Division	√	
Department of Business Economic Development & Tourism (DBEDT)	√	
DBEDT, Strategic Industries Division (formerly Energy Resources and Technology Division)	√	
DBEDT, Office of Planning	√	10/23/2017
Department of Defense	√	9/22/2017
Department of Education	√	10/18/2017
Department of Hawaiian Home Lands	√	
Department of Health, Environmental Health Administration	√	10/5/2017
Department of Land and Natural Resources (DLNR)	√	9/12/2017-Engineering Division; 9/12/2017-Land Division - O'ahu District; 10/19/2017-Division of Forestry and Wildlife
DLNR, Historic Preservation Division (SHPD)	√	
Department of Transportation	√	
Office of Hawaiian Affairs	√	
Hawai'i Housing Finance and Development Corporation (HHFDC)		11/2/2017*

AGENCY/INDIVIDUAL	DRAFT EIS/NOTIFICATION ~~ANTICIPATED TO BE~~ SENT	COMMENT DATED
CITY & COUNTY OF HONOLULU AGENCIES		
Department of Environmental Services	√	
Department of Design and Construction	√	10/10/2017
Department of Facility Maintenance	√	9/15/2017
Department of Parks and Recreation	√	
Department of Community Services	√	
Board of Water Supply	√	10/3/2017
Honolulu Fire Department	√	9/28/2017
Department of Planning and Permitting	√	10/25/2017*
Honolulu Police Department	√	9/19/2017
Department of Transportation Services	√	10/20/2017
Honolulu Authority for Rapid Transportation	√	
ELECTED OFFICIALS		
The Honorable David Ige, Governor	√	
The Honorable Brian Schatz, U.S. Senator	√	
The Honorable Mazie Hirono, U.S. Senator	√	
The Honorable Colleen Hanabusa, U.S. Representative	√	
The Honorable Karl Rhoads, State Senator	√	
The Honorable Donna Mercado Kim, State Senator	√	
The Honorable Will Espero, State Senator	√	
The Honorable Breene Harimoto, State Senator	√	
The Honorable Daniel Holt, State Representative	√	
The Honorable Tom Brower, State Representative	√	
The Honorable Nadine Nakamura, State Representative	√	
The Honorable Mark Hashem, State Representative	√	
Councilmember Joey Manahan	√	
Councilmember Carol Fukunaga	√	10/23/2017
Neighborhood Board No. 15 Chair Ryan Mandado	√	
Neighborhood Board Representative Ms. Karen Carlen	√	
Neighborhood Board Representative Mr. Firmo Dayao	√	
Neighborhood Board Representative Mr. Joe Dumayag	√	
Neighborhood Board Representative Mr. Donald Guerrero	√	
Neighborhood Board Representative Mr. Ken Farm	√	
Neighborhood Board Representative Mr. Rodolfo Ibay	√	
Neighborhood Board Representative Ms. Cathleen Pomponio	√	
Neighborhood Board Representative Mr. Jonan Sagadraca	√	
Neighborhood Board Representative Mr. Edgardo Templo	√	
Neighborhood Board Representative Ms. Amanda Ybanez	√	
Neighborhood Board No. 14 Chair Wesley Fong	√	
Neighborhood Board Representative Mr. Carl Campagna	√	
Neighborhood Board Representative Mr. John Hart	√	
Neighborhood Board Representative Ms. Mela Kealoha-Lindsey	√	

AGENCY/INDIVIDUAL	DRAFT EIS/NOTIFICATION ~~ANTICIPATED TO BE~~ SENT	COMMENT DATED
Neighborhood Board Representative Mr. Sai Weiss	√	
Neighborhood Board Representative Mr. Chad Woke	√	
Neighborhood Board Representative Mr. Brandon Mitsuda	√	
Neighborhood Board Representative Mr. Kenneth Huang	√	
Neighborhood Board Representative Ms. Carole Ka'apu	√	
Neighborhood Board Representative Mr. Donald Nitta	√	
Neighborhood Board Representative Mr. Dale White	√	
Neighborhood Board Representative Mr. Kaeo Kealoha-Lindsey	√	
Neighborhood Board Representative Mr. Bob Mon	√	
UNIVERSITY OF HAWAI'I (UH)		
UH Office of Capital Improvement	√	
UH Environmental Center	√	
UH Water Resources Research Center	√	
UH Marine Program	√	
UH Office of Multicultural Student Services	√	
UH Thomas H. Hamilton Library	√	
UH at Hilo Edwin H. Mo'okini Library	√	
UH Maui College Library	√	
UH Kaua'i Community College Library	√	
LIBRARIES		
Hawai'i State Library – Hawai'i Documents Center	√	
Liliha Public Library	√	
Kaimukī Regional Library	√	
Kāne'ohe Regional Library	√	
Pearl City Regional Library	√	
Hawai'i Kai Regional Library	√	
Hilo Regional Library	√	
Kahului Regional Library	√	
Līhu'e Regional Library	√	
Legislative Reference Bureau Library	√	
City and County of Honolulu Department of Customer Services-Municipal Reference Center Library	√	
UTILITIES COMPANIES		
Hawaiian Telcom	√	
Hawaiian Electric Company, Inc.	√	
Hawai'i Gas	√	11/6/2017*
Oceanic Time Warner Cable	√	
NEWS MEDIA		
Honolulu Star Advertiser	√	
Hawai'i Tribune Herald	√	
West Hawai'i Today	√	
The Garden Island	√	

AGENCY/INDIVIDUAL	DRAFT EIS/NOTIFICATION ~~ANTICIPATED TO BE~~ SENT	COMMENT DATED
The Maui News	√	
Moloka'i Dispatch	√	
Honolulu Civil Beat	√	
SCHOOLS		
Ka'iulani Elementary School	√	
Likelike Elementary School	√	
Linapuni Elementary School	√	
Central Middle School	√	
McKinley High School	√	
Farrington High School	√	
Honolulu Community College	√	
COMMUNITY ORGANIZATIONS		
Pālama Settlement	√	
Kalihi YMCA	√	
Kalihi-Pālama Hawaiian Civic Club	√	
Salvation Army	√	
Hawai'i Literacy	√	
Weed and Seed	√	
Pacific Gateway Center	√	
Kalihi-Pālama Health Center	√	
Institute for Human Services	√	
Parents and Children Together	√	
Mutual Housing Association of Hawai'i	√	
Life of the Land	√	
FACE Hawai'i: Faith Action for Community Equity	√	
BUSINESSES		
Tamashiro Market	√	
Liliha-Pālama Business Association	√	
CHURCHES		
Kaumakapili United Church of Christ	√	
Aldersgate United Methodist Church	√	
Co-Cathedral of Saint Theresa	√	
Hawai'i First Samoan Assembly of God	√	
Samoan Congregational Christian Church of Honolulu, UCC	√	
St. Elizabeth Episcopal Church	√	
Hawai'i Chinese Baptist Church	√	
Bluewater Mission	√	
Samoan-Tokelau Seventh-Day Adventist	√	
Su Gran Alabanza	√	
*Comments received after the close of the public comment period.		

EXHIBIT 29

From: Tatsuguchi, Ken
To: Kimi Yuen
Subject: Re: Mayor Wright Vineyard access
Date: Tuesday, June 12, 2018 6:15:07 PM

I think so, but not sure. This would be determined by our Rights-of-Way Branch at 692-7325 with Chris Yamamoto.

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On Jun 12, 2018, at 5:46 PM, Kimi Yuen <kyuen@pbrhawaii.com> wrote:

> Hi Ken: sorry, one more question. Do they still have to pay for access fees for this intersection? Hoping not since it's a state project and access to state land, but please advise.
> Thanks!
> Kimi
>
> **From:** Tatsuguchi, Ken [mailto:ken.tatsuguchi@hawaii.gov]
> **Sent:** Tuesday, June 12, 2018 5:26 PM
> **To:** Kimi Yuen <kyuen@pbrhawaii.com>
> **Subject:** RE: Mayor Wright Vineyard access
> Hi Kimi,
> Instead of Thursday, got the chance to discuss this with administration.
> Our administration is agreeable with the recommended midblock right-in-right-out access (Intersection #16) from the development onto N. Vineyard Blvd due to the TIAR data/information and the discussion provided by Sohrab in this email thread.
> And, in the future our administration prefers this analysis be provided in the TIAR. But, not to delay this development confirmation of Intersection #16 is provided in this email.
> Thanks,
> Ken
> *Ken K. Tatsuguchi, P.E.*
> *Hawaii Department of Transportation*
> *Highways Division, Planning Branch*
> *869 Punchbowl St, Rm 301*
> *Honolulu, HI 96813-5097*
> *Phone: (808) 587-1830 Fax: (808) 587-1787*
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>
> **From:** Kimi Yuen [mailto:kyuen@pbrhawaii.com]
> **Sent:** Tuesday, June 12, 2018 11:49 AM

To: Tatsuguchi, Ken <ken.tatsuguchi@hawaii.gov>
Subject: RE: Mayor Wright Vineyard access
Thanks, Ken!! Appreciate it and standing by!
Mahalo,
Kimi

From: Tatsuguchi, Ken [mailto:ken.tatsuguchi@hawaii.gov]
Sent: Tuesday, June 12, 2018 10:09 AM
To: Kimi Yuen <kyuen@pbrhawaii.com>
Subject: RE: Mayor Wright Vineyard access
Hi Kimi,

Thanks for the info from Sohrab, I agree with his findings, specifically the 4th bullet. I'm meeting with administration Thursday, then will get back to you. We may need something more formal than email. Will let you know.
Thanks again, Ken

From: Kimi Yuen [mailto:kyuen@pbrhawaii.com]
Sent: Monday, June 11, 2018 8:51 AM
To: Tatsuguchi, Ken <ken.tatsuguchi@hawaii.gov>
Subject: FW: Mayor Wright Vineyard access
Hi Ken: you weren't imagining things. We didn't include that specific analysis on the intersection, but here's Sohrab's response. Let us know if you need more done.
Mahalo,
Kimi

From: Sohrab Rashid [mailto:S.Rashid@fehrandpeers.com]
Sent: Monday, June 11, 2018 5:53 AM
To: Kimi Yuen <kyuen@pbrhawaii.com>
Subject: RE: Mayor Wright Vineyard access
Hi Kimi,
We did not specifically do the comparison that Ken is requesting. A few notes about that:

- The new "intersection" is really more of a driveway than an intersection since it is right-turn in and out only (RIRO). As such, we typically wouldn't study it from an operational perspective since it would result in a limited number of conflicts. The only noticeable delay would be experienced by vehicles waiting to turn right onto Vineyard from the project site.
- Most blocks on Vineyard west and east of the site have at least one RIRO driveway.
- The upstream intersection on Vineyard at Pua Ln (#6) will operate at LOS D or better with or without the new midblock intersection.
- The downstream intersection of Liliha St (#9) is already impacted with the midblock intersection and eliminating the proposed connection would reduce overall network connectivity. As such, operations would be similar to or likely worsen operations at Intersection 9.
- Lastly, DPP is trying to increase the street network density from an urban design perspective and make the entire area more walkable by breaking up longer

blocks visually and operationally.

All this being said, we can do the comparison as part of any future responses.

Sohrab

From: Kimi Yuen <kyuen@pbrhawaii.com>
Sent: Saturday, June 9, 2018 4:47 PM
To: Sohrab Rashid <S.Rashid@fehrandpeers.com>
Subject: FW: Mayor Wright Vineyard access

Hi Sohrab: did you folks do this analysis for Ken? I don't think you did for the TIAR… LMK. We'll need it for the next round. Thanks!

From: Tatsuguchi, Ken [mailto:ken.tatsuguchi@hawaii.gov]
Sent: Saturday, June 09, 2018 12:50 PM
To: Kimi Yuen <kyuen@pbrhawaii.com>
Subject: RE: Mayor Wright Vineyard access

Hi Kimi,

Possibly it's in the TIAR and I missed it, but couldn't find if the mid-block intersection helps or not. Looking for the Near-Term and Long-Term buildout conditions without Intersection 16 Project Dwy/ N Vineyard Blvd that compares with Near-Term and Long-Term buildout conditions with Intersection 16. The intersections that should be compared, at least, should be Intersections 6 and 9.

Let me know if there are any questions.

Thanks,

Ken

Ken K. Tatsuguchi, P.E.
Hawaii Department of Transportation
Highways Division, Planning Branch
869 Punchbowl St, Rm 301
Honolulu, HI 96813-5097
Phone: (808) 587-1830 Fax: (808) 587-1787
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---

From: Kimi Yuen [mailto:kyuen@pbrhawaii.com]
Sent: Wednesday, June 06, 2018 2:28 PM
To: Tatsuguchi, Ken <ken.tatsuguchi@hawaii.gov>
Subject: Mayor Wright Vineyard access

Hi Ken: please see the attached TIAR for the Mayor Wright Homes project and let me know if the new mid-block intersection on Vineyard is ok with the proposed mitigation. Sorry, I totally underestimated the file size… it's 22 MB so here's the dropbox location to the file.

https://www.dropbox.com/s/yaqk69psk6c2cnv/Mayor%20Wright_Final_MTA_20180108.pdf?dl=0

Let me know if you have trouble downloading the file.

Mahalo!

Kimi Mikami Yuen, LEED AP BD+C
Principal

DAVID Y. IGE
GOVERNOR

HIGHWAY DESIGN BRANCH, ROOM 688A
BRIDGE DESIGN SECTION, ROOM 611
CADASTRAL DESIGN SECTION, ROOM 600
ENVIROMENTAL DESIGN SECTION, ROOM 688A
HIGHWAY DESIGN SECTION, ROOM 609
HYDRAULIC DESIGN SECTION, ROOM 636
LANDSCAPE DESIGN SECTION, ROOM 688A
TECHNICAL DESIGN SERVICE, ROOM 688

RIGHT-OF-WAY BRANCH, ROOM 691

TRAFFIC BRANCH, ROOM 602

MOTOR VEHICLE SAFETY OFFICE, ROOM 511

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Deputy Directors
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DARRELL T. YOUNG

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION AT KAPOLEI
601 KAMOKILA BOULEVARD
KAPOLEI, HAWAII 96707

IN REPLY REFER TO:
HWY-RM 3.94776

October 3, 2018

Ms. Kimi Yuen, Principal
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 350
Honolulu, Hawaii 96813

Dear Ms. Yuen:

Subject: Vineyard Thoroughfare
Federal Aid Project No. F-098-1(2)
Palama Street to Nuuanu Avenue Section
Request for Access

Thank you for your letter dated September 11, 2018, requesting access onto North Vineyard Boulevard.

Our research shows, there are no access restrictions along North Vineyard Boulevard in the area you are requesting the access opening. Therefore, no documentation of the access is required by our office. You may contact our Oahu District Office at (808) 831-6700 for a "Permit to Perform Work Upon State Highways." Construction drawings and/or other related items may be required for the permit. Please contact their office early in your planning.

If you have any questions, please contact Jessie Hayashi at (808) 692-7389.

Sincerely,

pp

CHRIS M. YAMAMOTO
Right-of-Way Manager

EXHIBIT 30

NOTICE OF AVAILABILITY
DRAFT ENVIRONMENTAL ASSESSMENT/FINDING OF NO SIGNIFICANT IMPACT (Draft EA/FONSI)
for the Mayor Wright Homes (MWH) Redevelopment Project in Honolulu, Hawai'i

LEAD AGENCY: Hawai'i Public Housing Authority (HPHA), State of Hawai'i
FEDERAL AGENCY: U.S. Department of Housing and Urban Development (HUD)
RESPONSIBLE ENTITY: Governor of the State of Hawai'i

ACTION: Notice of Availability (NOA) of the Draft Environmental Assessment (EA)/Finding of No Significant Impact (FONSI) for the Mayor Wright Homes Redevelopment Project, prepared in compliance with the National Environmental Policy Act (NEPA) of 1969, as amended (42 U.S. Code 4321 et seq.); the Council on Environmental Quality (CEQ) regulations implementing the procedural provisions of the NEPA, Title 40 Code of Federal Regulations (CFR) Parts 1500-1508; and the Department of Housing and Urban Development (HUD) Title 24 CFR Part 58 Environmental Review Procedures for Entities Assuming HUD Environmental Responsibilities.

SUMMARY: Pursuant to Title 40 CFR §1506.6, notice is hereby given that a Draft Environmental Assessment(EA)/Finding of No Significant Impact (FONSI) for the Mayor Wright Homes (MWH) Redevelopment Project in Honolulu, Hawai'i is available for public review.

The Hawai'i Public Housing Authority (HPHA) and its development partner, MWH Partners, LLC, propose to redevelop the existing Mayor Wright Homes (MWH) site, which consists of a ~14.8-acre parcel identified as TMK: (1)1-7-029:003. The site is bounded by four existing roadways: North King Street, Pua Lane, North Vineyard Boulevard, and Liliha Street (see attached Location Map).

The proposed project includes the demolition of the existing structures and the construction of a mixed-use community consisting of 2,448 residential rental units and up to 80,000 square feet of commercial space. This includes a one-for-one replacement of the existing 364 public housing units based on the number of bedrooms in each unit, as well as up to an additional 2,084 affordable and market rental housing units that can be offered to potential residents in a range of income levels. Two-thirds of the units will be long-term affordable housing units targeting those earning up to 120 percent of the Area Median Income (AMI). The commercial space will include a mix of retail, office space, and community services to support the new residential uses and complement the surrounding neighborhood. A series of open spaces are envisioned throughout the redesigned site including a new community center and park at the heart of the project.

Because the new water systems proposed for the MWH Redevelopment project would have the capacity to serve an additional 2,500 housing units, the project meets the threshold at which an Environmental Impact Statement (EIS) is required under 24 CFR 58.37(b). However, 24 CFR 58.37(c) states, "If, on the basis of an EA, a responsible entity determines that the thresholds in paragraph (b) of this section are the sole reason for the EIS, the responsible entity may prepare a [Finding of No Significant Impact] FONSI pursuant to 40 CFR 1501.4. In such cases, the FONSI must be made available for public review for at least 30 days before the responsible entity makes the final determination whether to prepare an EIS."

The sole reason the proposed project meets the threshold for an EIS is the capacity of the new and upgraded water and sewer systems under 24 CFR 58.37(b) and therefore, a Draft EA/FONSI has been prepared as required

under the aforementioned HUD regulations. This Notice of Availability announces the availability of the Draft EA/FONSI at the following locations for the required 30-day public review.

AVAILABILITY OF THE DRAFT NEPA EA/FONSI: Electronic copies of the Draft NEPA EA/FONSI are available for download and public review at the following websites:

- HUD Exchange Environmental Review Records: https://www.hudexchange.info/programs/environmental-review/environmental-review-records/
- State of Hawai'i Office of Environmental Quality Control (available starting February 23, 2020): http://oeqc2.doh.hawaii.gov/The_Environmental_Notice/2020-02-23-TEN.pdf

Printed copies of the Draft EA/FONSI will also be available for review at the following locations during regular business hours:

- Office of the Governor, State Capitol Executive Chambers, 415 South Beretania Street, Honolulu, HI
- State Library, 478 South King Street, Honolulu, HI
- Kalihi-Pālama Library, 1325 Kalihi Street, Honolulu, HI 96819
- University of Hawai'i Mānoa, Thomas H. Hamilton Library, Room 507, 2550 McCarthy Mall, Honolulu, HI 96822

DATES AND PUBLIC COMMENT: The 30-day public comment period will begin after publication of this Notice by the State of Hawai'i Office of Environmental Quality Control (OEQC) in *The Environmental Notice* on February 23, 2020 and will end on March 24, 2020.

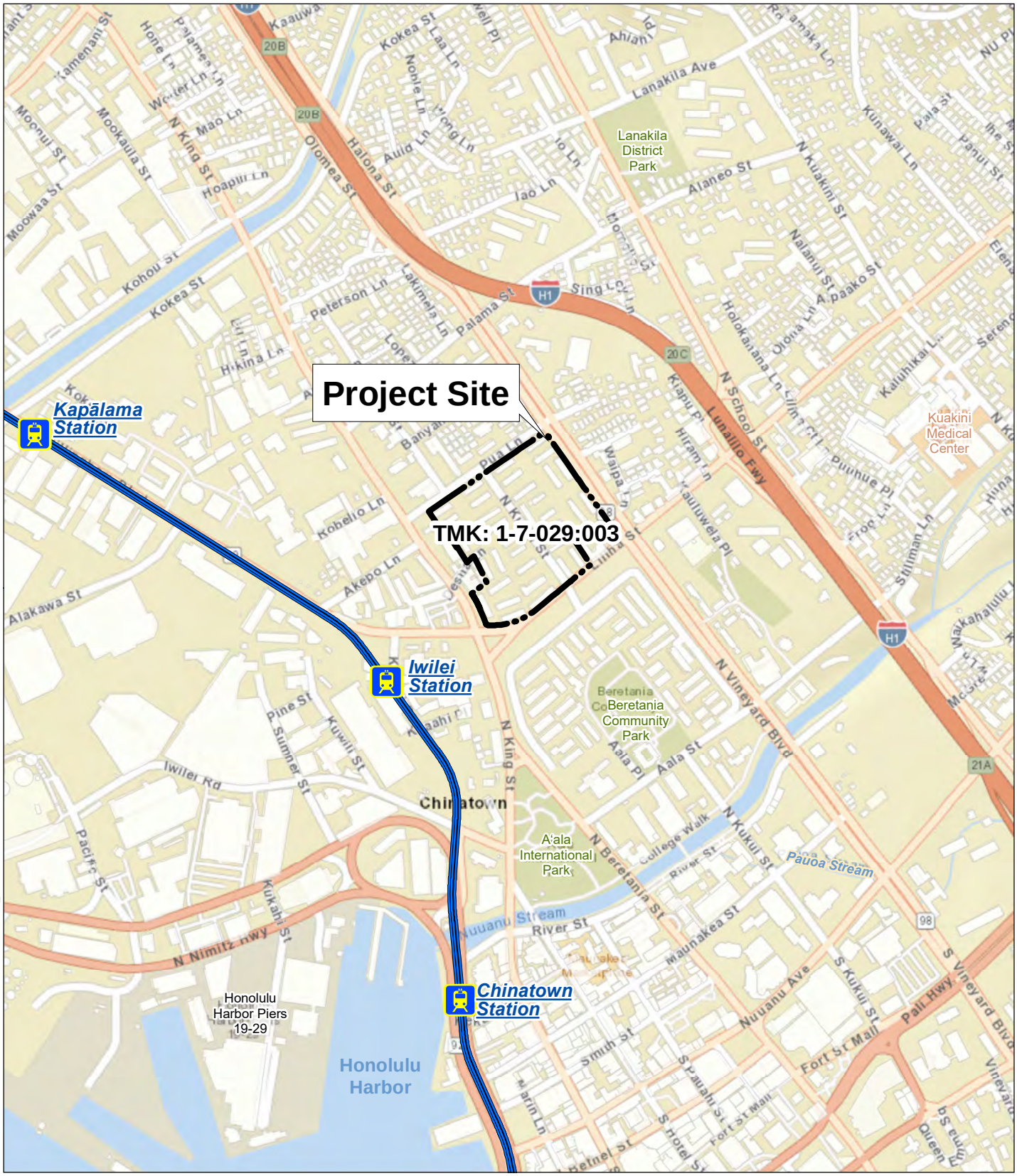
If you would like to receive an electronic version on CD (*.PDF format) or a hard copy of the Draft EA/FONSI, please contact the Consultant using the information provided below.

ADDRESSES: You may submit comments using any of the following methods:

1) Email: MWH@pbrhawaii.com
2) Mail: Ms. Kimi Yuen, PBR HAWAII & Associates, Inc., 1001 Bishop Street Suite 650, Honolulu, HI 96813
3) Hand delivery: Same as mailing address above between 9:00 AM and 5:00 PM, Monday-Friday.

FOR FURTHER INFORMATION CONTACT: Kimi Yuen or Malachi Krishok, PBR HAWAII & Associates, Inc. at (808) 521-5631

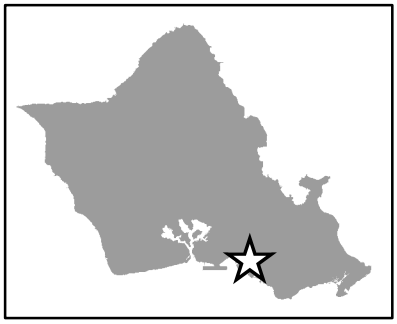
ATTACHMENT: Location Map



Path: Q:\Oahu\Mayor Wright Homes NEPA\GIS\Project\NOA_Location.mxd

LEGEND

- Project Site
- Future Rail Station



Location Map

MWH Redevelopment

Hawai'i Public Housing Authority (HPHA) — Island of O'ahu

North

Linear Scale (feet)

0 200 400 800

PBR HAWAII & ASSOCIATES, INC.

Source: Geographic Information System (GIS), ESRI World Street Map, 2016. City & County of Honolulu, 2017.

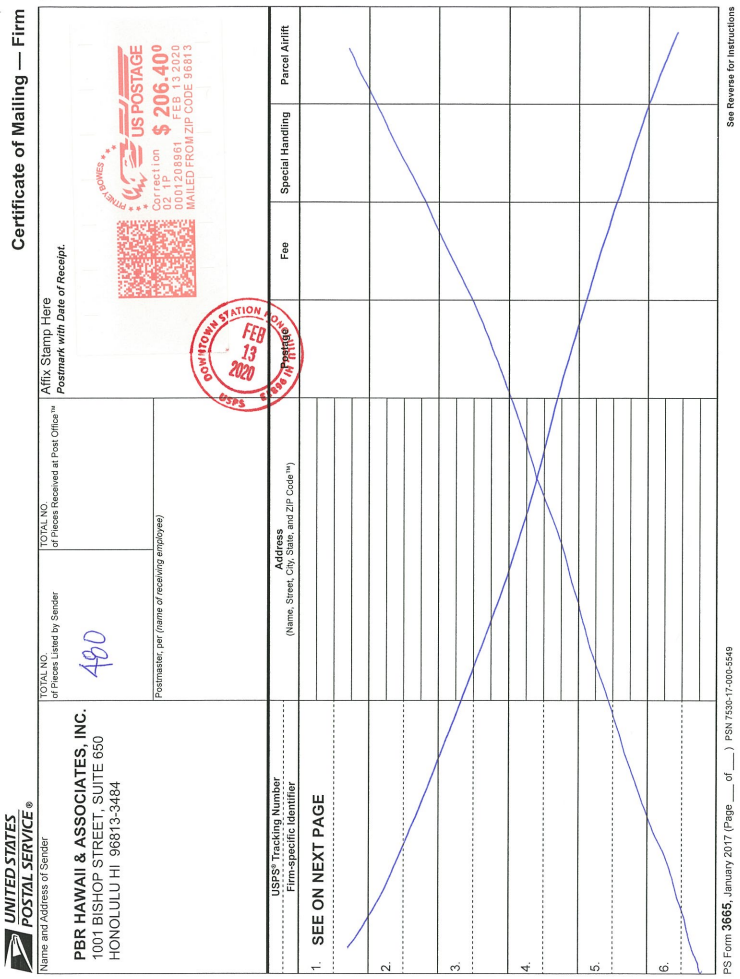
Disclaimer: This graphic has been prepared for general planning purposes only and should not be used for boundary interpretations or other spatial analysis.

MAYOR WRIGHT HOMES REDEVELOPMENT

Draft NEPA EA/FONSI – Notice of Availability and Posting for Public Comment

1. Draft EA/FONSI
    a. Preliminary FONSI Signed by Governor on 2/3
    b. Published in OEQC's *The Environmental Notice* on 2/23 initiating the 30-day public comment period, which ends on 3/24
        i. Electronic copies are available for download from the OEQC website: http://oeqc2.doh.hawaii.gov/Other_TEN_Publications/2020-02-23-OA-NEPA-DEA-Mayor-Wright-Housing-Redevelopment.pdf
        ii. PBR will check HUD HEROS website on or shortly after 2/29 (anticipated repair date).
    c. Hard Copies of the Draft EA/FONSI were delivered on 2/21 and are available for public review at the following locations:
        i. Office of the Governor
        ii. State Library – Hawai'i Document Center
        iii. Kalihi-Pālama Library
        iv. University of Hawai'i at Mānoa, Hamilton Library
    d. DPP also requested a hard copy for their internal review, which was delivered on 2/26.

2. Notice of Availability
    a. 4,214 Notice of Availability letters were mailed via USPS to government agencies and representatives, Native Hawaiian Organizations, and surrounding businesses and residents
    b. The Notice of Availability was published in the following newspapers:
        i. The Moloka'i Dispatch – Wednesday, 2/19
        ii. The Maui News – Saturday, 2/22
        iii. Star-Advertiser – Sunday, 2/23
        iv. Staradvertiser.com – Sunday, 2/23
        v. Hawai'i Tribune Herald – Sunday, 2/23
        vi. Hawaiitribuneherald.com – Sunday, 2/23
        vii. West Hawai'i Today – Sunday, 2/23
        viii. Westhawaiitoday.com – Sunday, 2/23
        ix. The Garden Island – Sunday, 2/23
    c. Notice of Availability flyers were distributed to public places and private businesses in the vicinity of the project site:
        i. Mayor Wright Homes (Barbara/Cynthia assisted)
        ii. Kapālama Satellite City Hall
        iii. Neighborhood Board Commission
        iv. Beretania Community Park
        v. Foster Botanical Gardens
        vi. Farrington HS
        vii. Honolulu CC
        viii. Likelike Elementary School
        ix. Kalihi-Pālama Library
        x. Pālama Settlement
        xi. Kalihi YMCA
        xii. Hawai'i Literacy
        xiii. Kalihi-Pālama Health Center
        xiv. Institute for Human Services
        xv. Parents and Children Together
        xvi. Liliha Professional Plaza
        xvii. Costco Iwilei
        xviii. Home Depot
        xix. Regal Theaters, Dole Cannery
        xx. Co-Cathedral of St. Theresa
        xxi. Hawai'i First Samoan Assembly of God
        xxii. Samoan Congregational Christian Church
        xxiii. Cedar Assembly of God
        xxiv. On Tong Tun Heong Society
        xxv. Cavalry Assembly of God



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PS Form 3665, January 2017 (Page ___ of ___) PSN 7530-17-000-5549

ENVIRONMENTAL PROTECTION AGENCY
1200 PENNSYLVANIA AVENUE, N.W.
WASHINGTON DC 20460

MR. HAKIM OUANSAFI
HAWAI'I PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
HONOLULU HI 96817

MR. RYAN OKAHARA
U.S. HUD, HONOLULU FIELD OFFICE
1132 BISHOP STREET, SUITE 1400
HONOLULU HI 96813

MR. JESSE WU
U.S. HUD, OFFICE OF PUBLIC HOUSING
1132 BISHOP STREET, SUITE 1400
HONOLULU HI 96813

SPECIAL APPLICATIONS CENTER
77 WEST JACKSON BLVD ROOM 2401
CHICAGO IL 60604-3507

MR. STEPHEN ANTHONY
DOI GEOLOGICAL SURVEY - PACIFIC ISLANDS WATER SCIENCE CENTER
1845 WASP BLVD BUILDING 176
HONOLULU HI 96818

MR. BRUCE PETERSEN
NATIONAL RESOURCES CONSERVATION SERVICE, PACIFIC ISLANDS AREA OFFICE
P O BOX 50004
HONOLULU HI 96850-0050

MS. LACEY SPRIGGS
FEDERAL AVIATION ADMINISTRATION, HONOLULU AIRPORTS DISTRICT OFFICE
P O BOX 50244
HONOLULU HI 96850

RADM VINCENT ATKINS
DEPARTMENT OF HOMELAND SECURITY - U.S. COAST GUARD, COMMANDER, 14TH COAST GUARD DIST.
300 ALA MOANA BLVD RM 9-204
HONOLULU HI 96850

MR. ROBERT FENTON, JR.
FEMA, REGION 9
1111 BROADWAY SUITE 1200
OAKLAND CA 94607

ENVIRONMENTAL REVIEW SECTION
HUD REGION 9
75 HAWTHORNE STREET
SAN FRANCISCO CA 94105

U.S. DEPARTMENT OF HOUSING & URBAN DEVELOPMENT
451 7TH STREET, SW
WASHINGTON DC 20410

MR. MARK CHANDLER
U.S. HUD REGION 9, COMMUNITY PLANNING AND DEVELOPMENT
1132 BISHOP STREET, SUITE 1400
HONOLULU HI 96813

MR. TODD WENDORF
HUD - CAPITAL FUND FINANCING PROGRAM
451 7TH STREET, SW
WASHINGTON DC 20410

HUD - RENTAL ASSISTANCE DEMONSTRATION SECTION 8
451 7TH STREET, SW
WASHINGTON DC 20410

MR. MICHAEL TOSATTO
NATIONAL MARINE FISHERIES SERVICE, PACIFIC ISLANDS REGIONAL OFFICE
1845 WASP BLVD BUILDING 176
HONOLULU HI 96818

MS. KATE BLISS
ATTN: CEPOD-PDC
573 BONNEY LOOP
FORT SHAFTER HI 96858

MR. LESLIE ROGERS
FEDERAL AVIATION ADMINISTRATION, REGION 9 OFFICE
90 7TH STREET SUITE 15-300
SAN FRANCISCO CA 94103

MR. DEAN HIGUCHI
ENVIRONMENTAL PROTECTION AGENCY, REGION 9, PACIFIC ISLANDS CONTACT OFFICE
P O BOX 50003
HONOLULU HI 96850

MR. LINDA CHU TAKAYAMA
STATE CAPITOL EXECUTIVE CHAMBERS
415 SOUTH BERETANIA STREET
HONOLULU HI 96813

THE HONORABLE DAVID IGE
STATE CAPITOL EXECUTIVE CHAMBERS
415 SOUTH BERETANIA STREET
HONOLULU HI 96813

MR. WAYNE SAUSEDA
HUD REGION IX OFFICE
ONE SANSOME STREET, SUITE 1200
SAN FRANCISCO CA 94104

MR. LARRY WUERSTLE
U.S. HUD REGION 9, COMMUNITY PLANNING AND DEVELOPMENT
ONE SANSOME STREET, SUITE 1200
SAN FRANCISCO CA 94104

MS. CAROLINE CLAYTON
HUD - CHOICE NEIGHBORHOOD PLANNING GRANT
451 7TH STREET S W ROOM 4130
WASHINGTON DC 20410

MS. ROBYN THORSON
U.S. FISH AND WILDLIFE SERVICE
300 ALA MOANA BLVD ROOM BOX 50088
HONOLULU HI 96850

MS. MELIA LANE-KAMAHELE
NATIONAK PARKS SERVICE, PACIFIC ISLANDS SUPPORT OFFICE
300 ALA MOANA BLVD SUITE 6-226
HONOLULU HI 96850

CAPT RICHARD HAYES, III
DEPARTMENT OF NAVY, PACIFIC DIVISION, NAVAL FACILITIES ENGINEERING COMMAND
258 MAKALAPA DR SUITE 100
PEARL HARBOR HI 96860

MR. RALPH RIZZO
FEDERAL HIGHWAYS ADMINISTRATION, HAWAI'I DIVISION, BOX 50206
300 ALA MOANA BLVD RM 3-306
HONOLULU HI 96850

EPA OFFICE OF GROUND WATER AND DRINKING WATER
1200 PENNSYLVANIA AVE, N.W.
MAIL CODE 4606M
WASHINGTON DC 20460

MR. KEVIN AUGER
HAWAI'I PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
HONOLULU HI 96817

MR. SCOTT JEPSEN
EJP CONSULTING GROUP, LLC
PO BOX 336
MANCHESTER WA 98353

MS. CHRISTINE KINIMAKA
DEPARTMENT OF ACCOUNTING & GENERAL SERVICES
P O BOX 119
HONOLULU HI 96810

MR. MIKE MCCARTNEY
DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM
P O BOX 2359
HONOLULU HI 96804

MR. SCOTT GLEN
HAWAII STATE ENERGY OFFICE / STRATEGIC INDUSTRIES DIVISION
P O BOX 2359
HONOLULU HI 96804

MR. WILLIAM AILA
DEPARTMENT OF HAWAIIAN HOME LANDS
P O BOX 1879
HONOLULU HI 96805

MR. ALEC WONG
HALE OLA BUILDING, DOH - CLEAN WATER BRANCH
2827 WAIMANO HOME RD #225
PEARL CITY HI 96782-1487

MS. MARY HELEN CATHCART
ULUAKUPU BUILDING 4, DOH - SAFE DRINKING WATER BRANCH
2385 WAIMANO HOME RD #110
PEARL CITY HI 96782-1400

MS. LYNN NAKASONE
DOH - ENVIRONMENTAL HEALTH SERVICE DIVISION
99-945 HALAWA VALLEY STREET
AIEA HI 96701-5602

MS. GRACELDA SIMMONS
DOH - VECTOR BRANCH
99-945 HALAWA VALLEY STREET
AIEA HI 96701-5602

MS. SUZANNE CASE
KALANIMOKU BUILDING, DEPARTMENT OF LAND AND NATURAL RESOURCES
1151 PUNCHBOWL STREET
HONOLULU HI 96813

MS. KATHLEEN HO
OFFICE OF ENVIRONMENTAL QUALITY CONTROL
235 S. BERETANIA STREET SUITE 702
HONOLULU HI 96813

MR. ADAM JANSEN
DAGS, ARCHIVES DIVISION RECORDS CENTER
P O BOX 119
HONOLULU HI 96810

MS. MARY ALICE EVANS
DBEDT, OFFICE OF PLANNING
P O BOX 2359
HONOLULU HI 96804

FIRST LIEUTENANT SHAO YU LEE
DEPARTMENT OF DEFENSE
3949 DIAMOND HEAD ROAD
HONOLULU HI 96816

MR. KEITH KAWAOTA
DOH, ENVIRONMENTAL HEALTH ADMINISTRATION
P O BOX 3378
HONOLULU HI 96801

HALE OLA BUILDING, DOH - ENVIRONMENTAL MANAGEMENT DIVISION
2827 WAIMANO HOME RD #222
PEARL CITY HI 96782-1487

LENE ICHINOTSUBO
KITCHEN/DINING ANNEX, DOH - SOLID & HAZARDOUS WASTE BRANCH
2827 WAIMANO HOME RD #100
PEARL CITY HI 96782-1487

MS. SHARILYNN UCHIMA
DOH - INDOOR AND RADIOLOGICAL HEALTH BRANCH
99-945 HALAWA VALLEY STREET
AIEA HI 96701-5602

MS. CYNTHIA QUIDEZ
DOH - STATE LABORATORIES DIVISION
2725 WAIMANO HOME ROAD
PEARL CITY HI 96782-1401

DR. ALAN DOWNER
KAKUHIHEWA BUILDING, DLNR - HISTORIC PRESERVATION DIVISION
601 KAMOKILA BOULEVARD RM 555
KAPOLEI HI 96707

MR. CURT OTAGURO
DEPARTMENT OF ACCOUNTING & GENERAL SERVICES
P O BOX 119
HONOLULU HI 96810

MS. PHYLLIS SHIMABUKURO-GEISER
DEPARTMENT OF AGRICULTURE
1428 S KING STREET
HONOLULU HI 96814

MR. RODNEY FUNAKOSHI
DBEDT, OFFICE OF PLANNING
P O BOX 2359
HONOLULU HI 96804

DR. CHRISTINA KISHIMOTO
DEPARTMENT OF EDUCATION
P O BOX 2360
HONOLULU HI 96804

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2827 WAIMANO HOME RD #130
PEARL CITY HI 96782-1487

MS. SINA PRUDER
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PEARL CITY HI 96782-1487

MS. FENIX GRANGE
ULUAKUPU BUILDING 4, DOH - HAZARD EVALUATION & EMERGENCY RESPONSE DIVISION
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KE'ELIKOLANI BUILDING, DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS
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HONOLULU HI 96813

MR. CURT COTTRELL
DLNR - DIVISION OF STATE PARKS
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HONOLULU HI 96809

MR. JADE BUTAY
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869 PUNCHBOWL STREET
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HAWAI'I HOUSING FINANCE AND DEVELOPMENT CORPORATION
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HONOLULU HI 96813

MR. NELSON KOYANAGI, JR.
DEPARTMENT OF BUDGET AND FISCAL SERVICES
530 SOUTH KING STREET, ROOM 208
HONOLULU HI 96813

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1000 'ULU'OHI'A ST SUITE 308
KAPOLEI HI 96707

MR. ROSS SASAMURA
KAPOLEI HALE, DEPARTMENT OF FACILITIES MANAGEMENT
1000 'ULU'OHI'A ST SUITE 215
KAPOLEI HI 96707

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BOARD OF WATER SUPPLY
631 S BERETANIA STREET
HONOLULU HI 96843

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HONOLULU HI 96813

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OFFICE OF CAPITAL IMPROVEMENT
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UNIVERSITY OF HAWAII
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HONOLULU HI 96813

MR. EXECUTIVE DIRECTOR
HAWAI'I COMMUNITY DEVELOPMENT AUTHORITY
545 QUEEN STREET
HONOLULU HI 96813

MS. HOLLY KAWANO
DEPARTMENT OF BUDGET AND FISCAL SERVICES
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HONOLULU HI 96813

MR. HIRO TOIYA
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HONOLULU HI 96813

MS. SANDRA PFUND
DEPARTMENT OF LAND MANAGEMENT
531 S KING STREET #306
HONOLULU HI 96813

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HONOLULU FIRE DEPARTMENT
637 SOUTH STREET
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MR. WES FRYSZTACKI
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HONOLULU HI 96822

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HONOLULU HI 96822

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U.S. REPRESENTATIVE, HAWAI'I DELEGATION
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HONOLULU HI 96813

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HAWAI'I HOUSING FINANCE AND DEVELOPMENT CORPORATION
678 QUEEN STREET, SUITE 300
HONOLULU HI 96813

MS. SYLVIA HUSSEY
OFFICE OF HAWAIIAN AFFAIRS
560 N NIMITZ HIGHWAY SUITE 200
HONOLULU HI 96817

MS. PAMELA WITTY-OAKLAND
DEPARTMENT OF COMMUNITY SERVICES
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HONOLULU HI 96817

MR. MARK YONAMINE
DEPARTMENT OF DESIGN AND CONSTRUCTION
651 S KING ST 11TH FLOOR
HONOLULU HI 96813

MS. MICHELE NEKOTA
KAPOLEI HALE, DEPARTMENT OF PARKS AND RECREATION
1000 'ULU'OHI'A ST., SUITE 309
KAPOLEI HI 96707

MS. KATHY SOKUGAWA
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HONOLULU HI 96813

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HONOLULU HI 96813

DR. THOMAS GIAMBELLUCA
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HONOLULU HI 96817

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HONOLULU HI 96817

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MUTUAL HOUSING ASSOCIATION OF HAWAI'I
900 FORT STREET MALL, SUITE 1690
HONOLULU HI 96813

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UH OFFICE OF MULTICULTURAL STUDENT SERVICES
STUDENT SERVICES CENTER, QLC 309
2600 CAMPUS ROAD
HONOLULU HI 96822

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802 N KING STREET
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KAPOLEI HI 96707

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CHARLES PELENUI MAHI OHANA
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KAWAIHAE HI 96743

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LAHAINA HI 96761

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MR. DENNIS KANAHELE
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MAKAWAO HI 96768

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P O BOX 700007
KAPOLEI HI 96709

MR. HAILAMA FARDEN
ASSOCIATION OF HAWAIIAN CIVIC CLUBS
P O BOX 1135
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477 SOUTH KAMEHAMEHA AVENUE
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HONOLULU HI 96805

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KAPOLEI HI 96709

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KAMEALOHA
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WAIALUA HI 96791

MS. MAHEALANI CYPHER
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KANEOHE HI 96744

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41-727 ALA KOA STREET
WAIMANALO HI 96795

MS. JAYNIE I. STONE
HUI KALELEIKI OHANA
1091 LUNAANELA STREET
KAILUA HI 96734

MS. SHARON K. PAULO
KAHA I KA PANOA KALEPONI HAWAIIAN CIVIC CLUB
P O BOX 9817
MORENO VALLEY CA 92552

MS. GAYLA M. HALINIAK-LLOYD
KALAMA'ULA HOMESTEADERS ASSOCIATION
P O BOX 1025
KAUNAKAKAI HI 96748

MS. PIILANI HANOHANO
KAMEHAMEHA SCHOOLS - COMMUNITY RELATIONS AND COMMUNICATIONS GROUP, GOVERNMENT RELATIONS
567 S KING STREET, SUITE 400
HONOLULU HI 96813

MR. SCOTT ABRIGO
KAPOLEI COMMUNITY DEVELOPMENT CORPORATION
P O BOX 75658
KAPOLEI HI 96707

MR. ROTH PUAHALA
KE ONE O KAKUHIHEWA
P O BOX 37874
HONOLULU HI 96837

MS. MAHEALANI CYPHER
KO'OLAUPOKO HAWAIIAN CIVIC CLUB
P O BOX 664
KANEOHE HI 96744

MR. LESLIE APIU AIPALENA KULOLOIO
KULOLOI'A LINEAGE - I KE KAI 'O KULOLOI'A
469 MAALO STREET
KAHULUI HI 96732

MS. LANI MA'A LAPILIO
MA'A 'OHANA C/O LANI MA'A LAPILIO
C/O AUKAHI
P O BOX 6087
KANEOHE HI 96744

MS. DAWN N. S. CHANG
HO'OKANO FAMILY LAND TRUST
P O BOX 6280
KANEOHE HI 96744

MS. MICHELLE MALIA HIRAISHI
HUI MĀLAMA OLA NĀ 'ŌIWI
69 RAILROAD AVE, STE A-3
HILO HI 96720

MR. KANEKOA KUKEA-SHULTZ
KĀKO'O 'ŌIWI
46-005 KAWA STREET #104
KANEOHE HI 96744

MS. LEIMOMI KHAN
KALIHI PALAMA HAWAIIAN CIVIC CLUB
C/O 1288 KAPIOLANI BOULEVARD, UNIT 1905
HONOLULU HI 96814

MS. VIVIAN L. AINOA
KAMILOLOA ONE ALI'I HOMESTEAD ASSOCIATION
P O BOX 1349
KAUNAKAKAI HI 96748

MS. CAROL N. JOHNSON
KAUWAHI 'ANAINA HAWAI'I HAWAIIAN CIVIC CLUB
P O BOX 50808
PROVO UT 84605

MR. DENNIS RAGSDALE
KINGDOM OF HAWAI'I
1777 ALA MOANA BLVD, #142-102
HONOLULU HI 96815

MR. GLEN KILA
KOA IKE
89-530 MOKIAWE STREET
WAIANAE HI 96792

MR. CRAIG V. KAHUI
LA'I 'ŌPUA 2020
74-5599 LUHIA STREET, E5
KAILUA KONA HI 96740

MS. BRENDA LUANA MACHADO LEE
MACHADO-AKANA-AONA-NAMAKAEHA OHANA
P O BOX 133
CAPTAIN COOK HI 96704

MS. KEONA MARK
MAHU OHANA
P O BOX 2
HALEIWA HI 96712

MS. PAULA K. KEKAHUNA
MAKU'U FARMERS ASSOCIATION
15-2131 KEAAU PAHOA HIGHWAY
PAHOA HI 96778

MR. GLEN KILA
MARAE HA'A KOA
89-530 MOKIAWE STREET
WAIANAE HI 96792

MS. JADE ALOHALANI SMITH
MOKU O KAUPO
P O BOX 1269
KULA HI 96790

MS. H. KANOEOKALANI CHEEK
NA KU'AUHAU 'O KAHIWAKANEIKOPOLEI
P O BOX 5411
KANE'OHE HI 96744

MR. NOA MAU-ESPIRITO
NA MOOKUPUNA O WAILUA
6200 OLOHENA ROAD, UNIT A
KAPA'A HI 96746

MS. LEILANI WILLIAMS-SOLOMON
NATIVE HAWAIIAN CHAMBER OF COMMERCE
P O BOX 597
HONOLULU HI 96809

MS. ERIKA VINCENT
NATIVE HAWAIIAN EDUCATION COUNCIL
735 BISHOP STREET, SUITE 224
HONOLULU HI 96813

MR. DENNIS W. RAGSDALE
ORDER OF KAMEHAMEHA I
1777 ALA MOANA BLVD, #142-102
HONOLULU HI 96815

MS. VICTORIA HOLT TAKAMINE
PA'I FOUNDATION
P O BOX 17483
HONOLULU HI 96817

MS. CHARLENE LUI
MAINLAND COUNCIL ASSOCIATION OF HAWAIIAN CIVIC CLUBS
766 NORTH 900 WEST
OREM UT 84057

MS. HOMELANI SCHAEDEL
MALU'ŌHAI RESIDENTS ASSOCIATION
P O BOX 700911
KAPOLEI HI 96709

LINDA KALEO KAWAIAEA
MELEANA KAWAIAEA, LLC
2169 KAUHANA STREET
HONOLULU HI 96816

MS. UILANI KAPU
NA AIKANE O MAUI
562A FRONT STREET
LAHAINA HI 96761

MS. DONNA KALIKO SANTOS
NĀ KULEANA O KĀNAKA 'ŌIWI
P O BOX 1541
LĪHU'E HI 96766

MS. ROXANNE HANAWAHINE
NA OHANA O PUAOI A ME HANAWAHINE
41-153 NALU STREET
WAIMANALO HI 96795

MR. KALEO PATTERSON
NATIVE HAWAIIAN CHURCH
1127 BETHEL STREET, SUITE 16
HONOLULU HI 96813

MS. POHAI RYAN
NATIVE HAWAIIAN HOSPITALITY ASSOCIATION
310 PAOAKALANI AVENUE, #201A
HONOLULU HI 96815

MR. WILLIAM W. MOEKAHI STEINER
PACIFIC AGRICULTURAL LAND MANAGEMENT SYSTEMS
P O BOX 4565
HILO HI 96720

MS. SHERI-ANN DANIELS
PAPA OLA LOKAHI
894 QUEEN STREET
HONOLULU HI 96813

MS. LU FABORITO
MĀKAHA HAWAIIAN CIVIC CLUB
P O BOX 305
WAIANAE HI 96792

MR. VINCENT MANUWAI
MANA HEALTH SERVICES, INC.
94-307 FARRINGTON HWY, UNIT B01
WAIPAHU HI 96797

MR. MICHAEL KAHUE
MENEHUNE FOUNDATION
1188 BISHOP STREET, SUITE 3004
HONOLULU HI 96813

MS. MILILANI TRASK
NA KOA IKAIKA KA LAHUI HAWAII
P O BOX 6377
HILO HI 96720

MR. HANALEI FERGERSTROM
NA KŪPUNA MOKU O KEAWE
P O BOX 951
KURTISTOWN HI 96760

MS. PAIGE KAPIOLANI BARBER
NANAKULI HOUSING CORPORATION
P O BOX 17489
HONOLULU HI 96817

MR. NAPALI WOODE
NATIVE HAWAIIAN ECONOMIC ALLIANCE
2149 LAUWILIWILI ST., STE. 200
KAPOLEI HI 96707

MS. MARAEA K. NEKAIFES
NEKAIFES OHANA
212 HIIPALI LOOP
KULA HI 96790

MR. KALEO PATTERSON
PACIFIC JUSTICE & RECONCILIATION CENTER
1127 BETHEL STREET, SUITE 16
HONOLULU HI 96813

MS. LILIA KAPUNIAI
PAPAKŌLEA COMMUNITY DEVELOPMENT CORPORATION
2150 TANTALUS DRIVE
HONOLULU HI 96813

MR. JAN E. HANOHANO DILL
PARTNERS IN DEVELOPMENT FOUNDATION
2040 BACHELOT STREET
HONOLULU HI 96817

MR. RONALD KODANI
PIIHONUA HAWAIIAN HOMESTEAD COMMUNITY ASSOCIATION
37 WAIEA PLACE
HILO HI 96720

MR. WILLIAM K. RICHARDS, JR.
THE FRIENDS OF HOKULE'A AND HAWAI'ILOA
P O BOX 696
KAILUA HI 96734

MR. LAAKEA SUGANUMA
THE MARY KAWENA PUKU'I CULTURAL PRESERVATION SOCIETY
835 AHUWALE STREET
HONOLULU HI 96821

MR. KAMAKANA M. AQUINO
WAIMĀNALO HAWAIIAN HOMES ASSOCIATION
P O BOX 353
WAIMĀNALO HI 96795

682 NORTH KING LLC
201 ONEAWA KAI PLACE
KAILUA HI 96734

ABABA, RENATO A
1213 PALAMA STREET
HONOLULU HI 96817

ALII FIRE PROTECTION
P O BOX 29057
HONOLULU HI 96820

ALOHA UNITED WAY INC
C/O COLLIER INTERNATIONAL
220 S KING STREET #1800
HONOLULU HI 96813

AMERICAN SAVINGS BANK FSB
P O BOX 2300
HONOLULU HI 96804

MS. OLINDA AIWOHI
PAUKUKALO HAWAIIAN HOMES COMMUNITY ASSOCIATION
781 KAWANANAKOA STREET
WAILUKU HI 96793

MR. L. LAAKEA SUGANUMA
ROYAL HAWAIIAN ACADEMY OF TRADITIONAL ARTS
835 AHUWALE STREET
HONOLULU HI 96821

MR. MELVIN SOONG
THE I MUA GROUP
422 ILIAINA STREET
KAILUA HI 96734

MS. MELE WORTHINGTON
WAI'ANAE HAWAIIAN CIVIC CLUB
P O BOX 687
WAI'ANAE HI 96792

1416 A PUA LANE LLC
645 ULUMALU STREET
KAILUA HI 96734

AALA PROPERTIES LLC
2153 N KING STREET #321-B
HONOLULU HI 96819

ABAD, PAULINO A
1306 PALAMA STREET
HONOLULU HI 96817

ALOHA FENDER WORKS INC
C/O B.Y. REALTY
P O BOX 22220
HONOLULU HI 96823

ALPAC CORP
815 WAIAKAMILO ROAD
HONOLULU HI 96817

AOKI, ARTHUR
233 NAMILIMILI STREET
HONOLULU HI 96813

MR. APELA PEAHI
PEAHI OHANA
41-205 LUPE STREET
WAIMANALO HI 96795

MS. ROBIN PUANANI DANNER
SOVEREIGN COUNCILS OF THE HAWAIIAN HOMELANDS ASSEMBLY
2149 LAUWILIWILI STREET, SUITE 200
KAPOLEI HI 96707

MR. EUGENE O'CONNELL
THE MĀKUA GROUP
87-282 HOLOPONO STREET
WAIANAE HI 96792

MR. ROY OLIVEIRA
WAIEHU KOU PHASE 3 ASSOCIATION
49 KAULANA NA PUA CIRCLE
WAILUKU HI 96793

515 & 529 MALANAI PLACE
CONDO MASTER
529 MALANAI PLACE
HONOLULU HI 96817

AALA PROPERTIES LLC
869 N NIMITZ HWY
HONOLULU HI 96817

ALBANO, ROBERT K O
1115 BANYAN STREET
HONOLULU HI 96817

ALOHA TOFU FACTORY INC
961 AKEPO LANE
HONOLULU HI 96817

ALVAREZ, ELENITA V TR
321 N KUAKINI STREET #510
HONOLULU HI 96817

APRIL, JANETTE
824 LOPEZ LANE
HONOLULU HI 96817

ARDIENTE, BERNARDITA R
828 B LAKIMELA LANE
HONOLULU HI 96817

AVERA, EUGENIA B
850 LOPEZ LANE
HONOLULU HI 96817

BAKKE, LOWELL V
5259 PAPAI STREET
HONOLULU HI 96821

BARTOLOME, DENNIS G
823 A LAKIMELA LANE
HONOLULU HI 96817

BONILLA, ALIPIO D/EUSEBIA TR
1202 PALAMA STREET
HONOLULU HI 96817

BUTAY, JUANITO/PATRICIA TR
1127 BANYAN STREET
HONOLULU HI 96817

CABUSLAY/ADORACION TRUST
811 LAKIMELA LANE
HONOLULU HI 96817

CALDERON, REGINA A TRUST
816 LOPEZ LANE
HONOLULU HI 96817

CAO, XIU YING
809 KANOA STREET
HONOLULU HI 96817

CHAN, DORIS Y TRUSTEE
P O BOX 1568
AIEA HI 96701

ARIOS, ROBERT R
98-777 NAALII STREET
AIEA HI 96701

B P BISHOP TRUST ESTATE
P O BOX 3466
HONOLULU HI 96801

BALBAS, IMELETA S
609 WAIPA LANE
HONOLULU HI 96817

BAUTISTA, NARCISO M
624 B N VINEYARD BLVD
HONOLULU HI 96817

BRANNER, JOHN M
940 AKEPO LANE
HONOLULU HI 96817

CABANSAGAN, PAZ
124 NORTHGATE AVE
DALY CITY CA 94015

CADIENTE, CLEMENTE/ANASTACIA
622 A N VINEYARD BLVD
HONOLULU HI 96817

CAMBIA, HONIE D
1115 BANYAN STREET
HONOLULU HI 96817

CARILLO, MARCELINO C
817 LAKIMELA LN
HONOLULU HI 96817

CHAR, STELLA O K
717 N VINEYARD BLVD
HONOLULU HI 96817

AU, KERWIN M T TRUST
5250 OIO DRIVE
HONOLULU HI 96821

BAGWAN, MARY ANN
621 A WAIPA LANE
HONOLULU HI 96817

BANYAN HOUSING LP
1700 7TH AVE STE 200
>
SEATTLE WA 98101

BOIRUM, EMILY J
1127 BANYAN STREET
HONOLULU HI 96817

BUCK TOY CLUB
572 N VINEYARD BLVD
HONOLULU HI 96817

CABUSLAY, CHERRYLIN
811 A LAKIMELA LANE
HONOLULU HI 96817

CALDERON, ALFREDO B
816 LOPEZ LANE
HONOLULU HI 96817

CANDELARIO, JOINT TRUST
1416 PUA LANE
HONOLULU HI 96817

CEDAR ASSEMBLY OF GOD
P O BOX 201429
HONOLULU HI 96820

CHEN, DENNIS L
1230 PUA LANE #1
HONOLULU HI 96817

CHING, CHECK HUNG
1121 BANYAN STREET
HONOLULU HI 96817

CHING, CHRISTOPHER K F
521 KIAPU PLACE
HONOLULU HI 96825

CHIYOKO TOGUCHI INC
1155 KAUMAILUNA PL
HONOLULU HI 96817

CHOY, WALTER W F TR
C/O EDMUND CHOY
3030 PUIWA LANE
HONOLULU HI 96817

CHUA, WILLIAM A
538 N JUDD STREET
HONOLULU HI 96817

CHUN, PRESCOTT D M TR
98-138 KALIKE PLACE
AIEA HI 96701

CHUN, RICHARD N T TRUST
646 WYLLIE STREET
HONOLULU HI 96817

CHUN, TAI MOY TR
817 A LAKIMELA LANE
HONOLULU HI 96817

CHUN, TONY Y F
4834 KAHALA AVENUE
HONOLULU HI 96816

CHUNG, FRED W C
1938 PALA STREET
HONOLULU HI 96817

CHUNG, LILLIAN L Y
1422 A PUA LANE
HONOLULU HI 96817

CHUNG, PEARL L G
1428 PUA LANE
HONOLULU HI 96817

CITY AND COUNTY OF HONOLULU
BERETANIA COMMUNITY PARK
1290 AALA STREET
HONOLULU HI 96817

CITY AND COUNTY OF HONOLULU
DEPARTMENT OF LAND
MANAGEMENT
530 S KING STREET ROOM 306
HONOLULU HI 96813

CITY AND COUNTY OF HONOLULU
DEPARTMENT OF PARKS AND
RECREATION
1000 ULUOHIA STREET SUITE 309
KAPOLEI HI 96707

CITY AND COUNTY OF HONOLULU
DEPARTMENT OF TRANSPORTATION
SERVICES
650 S KING STREET, 3RD FLOOR
HONOLULU HI 96813

COCKETT, RUDOLPH C TR EST
205 HALEMAUMAU STREET
HONOLULU HI 96821

CORPUZ, REMEDIOS S TR
634 E N VINEYARD BLVD
HONOLULU HI 96817

CUPBOARD LLC
1616 LILIHA STREET 3RD FLOOR
HONOLULU HI 96817

DAN DUDDEN INC.
122 KAAPUNI STREET
KAILUA HI 96734

DE VERA, BENITA T
642 F N VINEYARD BLVD
HONOLULU HI 96817

DEVICTORIA, CARLOTA P
1108 HULAKUI DRIVE
HONOLULU HI 96818

DHARMA REALM BUDDHIST ASSN
1777 MURCHISON DR
BURLINGAME CA 94010

DINIEGA, ORLANDO V TR
3528 ALIAMANU STREET
HONOLULU HI 96818

DOLOR, FAUSTO A TRUST
811 LAKIMELA LANE
HONOLULU HI 96817

DOMINGO, MIRIAM P
513 KIAPU PLACE
HONOLULU HI 96817

DOUGLAS EMMETT RESIDENTIAL 2014
LLC
ATTN: JOHN MEEHAN
808 WILSHIRE BLVD STE 200
SANTA MONICA CA 90401

DOWNTOWN AFFORDABLES LLC
215 N KING STREET #1000
HONOLULU HI 96817

DUTTA, SUMITA
950 PAULSBORO DRIVE
ROCKVILLE MD 20850

ESPERAS, ALICE M TR
C/O MR. & MRS. CHARLES ESPERAS
94-345 KAUKALIA STREET
MILILANI HI 96789

ETERNAL LIGHT LLC
700 BISHOP STREET #1104
HONOLULU HI 96813

FANG, CARDY J H C
P O BOX 235693
HONOLULU HI 96823

FELCOR 1 LLC
1419 TAMARISK DRIVE
SAINT GEORGE UT 84790

FELCOR 2 LLC
1419 TAMARISK DRIVE
SAINT GEORGE UT 84790

FHB PROPERTIES INC
C/O BANK PROPERTIES DEPT
P O BOX 3200
HONOLULU HI 96847

FIRST HAWAIIAN BANK
C/O BANK PROPERTIES DEPT
P O BOX 3200
HONOLULU HI 96847

FONG, SUZANNE S QUALIF DOMESTIC
TR
1200 14TH AVENUE
HONOLULU HI 96816

FOODMAKER INC
C/O EPROPERTY TAX DEPT 401
P O BOX 4900
SCOTTSDALE AZ 85261

FORONDA, FEDERICO T
601 WAIPA LANE
HONOLULU HI 96817

FORONDA, LYNDON P
1240 PALAMA STREET
HONOLULU HI 96817

FUJII FAMILY PARTNERSHIP
P O BOX 30607
HONOLULU HI 96820

G VON HAMM TEXTILES INC
916 KAAAHI PLACE
HONOLULU HI 96817

GANSIT, FERNANDO C TR
1137 AUSTIN LANE
HONOLULU HI 96817

GANSIT, FERNANDO C TRUST
P O BOX 19052
HONOLULU HI 96817

GAO, JI KANG
722 PANUI STREET
HONOLULU HI 96817

GROANING, JOSEPH E
642 A N VINEYARD BLVD
HONOLULU HI 96817

GUEVARRA, ALFREDO B
1119 BANYAN STREET
HONOLULU HI 96817

GUZMAN, DOLORES D
634 A N VINEYARD BLVD
HONOLULU HI 96817

HALE O KANOA
CONDO MASTER
1110 BANYAN STREET
HONOLULU HI 96817

HAWAII CONFERENCE FOUNDATION
1848 NUUANU AVENUE
HONOLULU HI 96817

HAWAII HOUSING FINANCE AND DEV.
CORP.
677 QUEEN STREET #300
HONOLULU HI 96813

HAWAII PUBLIC HOUSING AUTHORITY
1002 N SCHOOL STREET
HONOLULU HI 96817

HAWAIIUSA FCU
1226 COLLEGE WALK
HONOLULU HI 96817

HAWN ASSN 7TH DAY ADVENTIST
2728 PALI HWY
HONOLULU HI 96817

HAWN DIV TENSHO-KOTAI JINGU
888 KING STREET
HONOLULU HI 96817

HEALING, EUGENE H
642 C N VINEYARD BLVD
HONOLULU HI 96817

HEE, HENRY T K
P O BOX 17116
HONOLULU HI 96817

HIGGINS PROPERTIES LLC
255 WASHINGTON STREET #230
NEWTON MA 02458

HO, KIM CHI THI
642 N VINEYARD BLVD
HONOLULU HI 96817

HO, PRIYA K
215 N KING STREET #1007
HONOLULU HI 96817

HPL CO LLC
ATTN: ILC & SWELL REALTY LLC
1441 KAPIOLANI BLVD #1915
HONOLULU HI 96814

HUANG, AIMING
823 B LAKIMELA LANE
HONOLULU HI 96817

HUSAIN, SANTIAGO T JR
608 N VINEYARD BLVD 202
HONOLULU HI 96817

IES RETAIL LLC
ATTN: TIM PARKER
91-480 MALAKOLE ST
EWA BEACH HI 96706

INSTITUTE FOR HUMAN SERVICES
546 KAAAHI STREET
HONOLULU HI 96817

ISHIHARA, KAREN C
623 B WAIPA LANE
HONOLULU HI 96817

ISLAND-WEST INVESTMENT CORP
P O BOX 905
TERRY MT 59349

IWANAGA, CAROL ANN Y
622 B N VINEYARD BLVD
HONOLULU HI 96817

IZAWA INVESTMENT LLC
P O BOX 19164
HONOLULU HI 96817

IZUMO TAISHAKYO MISS OF HAW
215 N KUKUI STREET
HONOLULU HI 96817

JAVIER, MARLON
819 KANOA STREET
HONOLULU HI 96817

JKA TRUST
C/O JOYCE K ALMEIDA
41-020 MANANA ST #A
WAIMANALO HI 96795

JOSE, JOSEPHINE TR
938 C AKEPO LANE
HONOLULU HI 96817

K SUMIYOSHI INC
918 HAO STREET
HONOLULU HI 96821

KAAAHI DEVELOPMENT
921 KAAMAHU PLACE
HONOLULU HI 96817

KAGEYAMA, SY S
634 C N VINEYARD BLVD
HONOLULU HI 96817

KAULUWELA 1
C/O HAWAIIANA MANAGEMENT CO
711 KAPIOLANI BLVD STE 700
HONOLULU HI 96813

KAULUWELA 2
C/O HAWAIIANA MGMT CO LTD
711 KAPIOLANI BLVD STE 700
HONOLULU HI 96813

KAYA, THOMAS T TRUST
1118 PALAMA STREET
HONOLULU HI 96817

KEOLA HOONANEA
C/O HAWAIIANA MGMT CO, LTD
711 KAPIOLANI BLVD #700
HONOLULU HI 96813

KIKUKAWA, DAVID A
631 WAIPA LANE #3
HONOLULU HI 96817

KINGSGATE PLAZA CO
C/O LAU, MERTON
2920 S KING ST # 1001
HONOLULU HI 96826

KO, KALVIN Y D
2711 PALI HWY
HONOLULU HI 96817

KOREAN CHRISTIAN CHURCH
1832 LILIHA STREET
HONOLULU HI 96817

KUKUI CHILDRENS FOUNDATION
245 N KUKUI STREET
HONOLULU HI 96817

KWA, NATALIE A
1430 HOLELUA PLACE
HONOLULU HI 96817

LAM, LAMBERT K Y
17 KEPOLA PLACE
HONOLULU HI 96817

LAM, LAMBERT K Y TR
17 KEPOLA PLACE
HONOLULU HI 96817

LAM, TAT CHUEN/SERLIN P C TRUST
717 N VINEYARD BLVD
HONOLULU HI 96817

LAM, TRAM T
704 N VINEYARD BLVD
HONOLULU HI 96817

LANIO PROPERTIES CORP
C/O WARREN HO/LANI PROPERTIES
50 S BERETANIA ST C209
HONOLULU HI 96813

LAU, PING HUNG
634 I N VINEYARD BLVD
HONOLULU HI 96817

LEE, AH FEI
1119 BANYAN STREET
HONOLULU HI 96817

LEE, ALAN K C/JANIE Y Y TR
622 WAIPA LANE
HONOLULU HI 96817

LEE, DANNY W K
814 LAKIMELA LANE
HONOLULU HI 96817

LEE, DORIS Y M TR
642 J N VINEYARD BLVD
HONOLULU HI 96817

LEE, FREDERICK C T
1624 KANUNU STREET #508
HONOLULU HI 96814

LEE, MING WAI TRUST
59 WINDCREST LANCE
SOUTH SAN FRANCISCO CA 94080

LEE, RICHARD K W TR
642 J N VINEYARD BLVD
HONOLULU HI 96817

LEE, YUE HUNG L
1121 B BANYAN STREET
HONOLULU HI 96817

LI, DE XING
2114 KAHAHA STREET
HONOLULU HI 96819

LI, RI R TR
2521 PUAENA PLACE
HONOLULU HI 96822

LIANG, JOE
507 KIAPU PLACE
HONOLULU HI 96817

LIANG, SIO C
624 WAIPA LANE #4
HONOLULU HI 96817

LIANG, XU MING
532 WAIPA LANE
HONOLULU HI 96817

LILIHA PROFESSIONAL BUILDING LLC
1200 QUAIL STREET #235
NEWPORT BEACH CA 92660

LIN, JIAN WEN
607 WAIPA LANE
HONOLULU HI 96817

LIN, LEO
2101 ROUND TOP DR
HONOLULU HI 96822

LIU, WILSON
1638 OO LANE
HONOLULU HI 96817

LLAMAS, REMY C
627 WAIPA LANE
HONOLULU HI 96817

LO, RENEE
99-904 LALAWAI DRIVE
AIEA HI 96701

LOO, WILLIAM W M
1203 PALAMA STREET
HONOLULU HI 96817

LU, XIAO JIE LIANG
1430 A HOLELUA PLACE
HONOLULU HI 96817

LUIS, ROBERT G
820 LAKIMELA LANE
HONOLULU HI 96817

LUM, EULALIA W M TR
P O BOX 11480
HONOLULU HI 96828

LUM, RITA L
23 KAUILA STREET #4
HONOLULU HI 96813

LUM, WING YEE LAU
1416 B PUA LANE
HONOLULU HI 96817

LUNG KONG KUNG SHAW SOCIETY
1432 LILIHA STREET
HONOLULU HI 96817

M & S PROPERTIES LLC
4563 WAIKUI STREET
HONOLULU HI 96821

MA, NGAI
C/O ERIC MA
1217 OLINO STREET
HONOLULU HI 96818

MADDELA, FLORENTINO G JR
642 N VINEYARD BLVD
HONOLULU HI 96817

MAH, YONG CHUN
1380 LILIHA ST
HONOLULU HI 96817

MARIPOSA PROPERTIES LTD PTN
2117 MAUNA PLACE
HONOLULU HI 96822

MATEO, IRIS A
2860 WAIALAE AVENUE #209
HONOLULU HI 96826

MATSUBARA, HERBERT H TRUST
709 N VINEYARD BLVD
HONOLULU HI 96817

MCDONALD, MARTIN L
634 D N VINEYARD BLVD
HONOLULU HI 96817

MCNALL, CHONG SON
1412 PUA LANE
HONOLULU HI 96817

MENOR, NICANOR G
815 LOPEZ LANE
HONOLULU HI 96817

METHODIST EPISCOPAL CHURCH
1352 LILIHA STREET
HONOLULU HI 96817

MIKAMI, MARIKO TR
703 N VINEYARD BLVD
HONOLULU HI 96817

MOLINA, TIMMY C TR
675 N KING ST # 200
HONOLULU HI 96817

NAKAHARA, JUNE H
1118 PUA LANE # 310
HONOLULU HI 96817

NAKAMURA, DAVID M
1001 DILLINGHAM BLVD APT 208
HONOLULU HI 96817

NAKAOKA INVESTMENTS INC
515 MAUI STREET
HONOLULU HI 96817

NG, LARRY/PAZ TR
95-1005 HALEKUA STREET
MILILANI HI 96789

NGUYEN, SAMSON
1131 B BANYAN STREET
HONOLULU HI 96817

NUUANU CHINESE BAPTIST CHURCH
477 N KING STREET
HONOLULU HI 96817

ON TONG TUNG HEONG SOCIETY
544 N VINEYARD BLVD
HONOLULU HI 96817

PADAYAO, DIEGO R
634 B N VINEYARD BLVD
HONOLULU HI 96817

PAGADUAN, HERMIE M
823 LAKIMELA LANE
HONOLULU HI 96817

PALAMA PROPERTY LIMITED
1633 ANAPUNI ST
HONOLULU HI 96822

PALAMA SETTLEMENT
810 N VINEYARD BLVD
HONOLULU HI 96817

PASCUA, CATALINO M
1440 HOLELUA PLACE
HONOLULU HI 96817

PASCUA, VILLAMOR S
1012 PALAMA STREET
HONOLULU HI 96817

PATRICIO, ANTONIO L
717 VINEYARD BLVD
HONOLULU HI 96817

POBRE, ORNELIO S JR
811 LAKIMELA LANE
HONOLULU HI 96817

PRECISION INDUSTRIES LTD
928 KAAMAHU PLACE
HONOLULU HI 96817

PROPERTY INVESTMENTS LLC
C/O T.J. MAHONEY & ASSOCIATES, INC
8068 W. SAHARA AVE, STE E
LAS VEGAS NV 89117

PUALANI MANOR CORP
C/O HAWAIIAN PROPERTIES LTD
P O BOX 38078
HONOLULU HI 96837

QIN, WEI-JIAN
530 WAIPA LANE
HONOLULU HI 96817

Certificate of Mailing — Firm

UNITED STATES POSTAL SERVICE®

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PBR HAWAII & ASSOCIATES, INC.
1001 BISHOP STREET, SUITE 650
HONOLULU HI 96813-3484

USPS® Tracking Number
Firm-specific Identifier

1. SEE ON NEXT PAGE

TOTAL NO. of Pieces Listed by Sender: 1960

Postmaster, per (name of receiving employee)

TOTAL NO. of Pieces Received at Post Office™

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Postmark with Date of Receipt.

US POSTAGE $ 580.50
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FEB 13 2020
MAILED FROM ZIP CODE 96813

HONOLULU HI 96813 FEB 13 2020 $4.50

Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
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6.				

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PS Form 3665, January 2017 (Page ___ of ___) PSN 7530-17-000-5549

R & D CONTRACTORS
2227 ALA MAHAMOE STREET
HONOLULU HI 96819

ROBELLO GROUP LLC
350 WARD AVENUE #27
HONOLULU HI 96814

SALAZAR, PAUL D S
334 LEWIS ROAD
NEW BRITAIN CT 06053

SALVATION ARMY THE
P O BOX 620
HONOLULU HI 96809

SANCHEZ, JACINTO
811 LOPEZ LANE
HONOLULU HI 96817

SEBASTIAN, FLORANTE S LLC
2008 PUUKAPU STREET
HONOLULU HI 96819

SEDYANA, PADMA
709 N VINEYARD BLVD
HONOLULU HI 96817

SERENO, SILVERIO C JR
621 WAIPA LANE
HONOLULU HI 96819

SETO, FULTON L TRUST
C/O GOODWIN SETO TR
3730 SIERRA DR
HONOLULU HI 96816

SHEN, LIANNE
1115 A BANYAN STREET
HONOLULU HI 96817

SHIGAKI, ROBERT S TR EST
1051 KIKEKE AVENUE
HONOLULU HI 96816

SHIRAI GROUP LLC
1448 LILIHA STREET
HONOLULU HI 96817

SIRISUMPHANT, APIWAT
1127 BANYAN STREET
HONOLULU HI 96817

ST ELIZABETH'S EPISCOPAL CHURCH
720 N KING STREET
HONOLULU HI 96817

STATE OF HAWAII
DEPARTMENT OF EDUCATION
P O BOX 2360
HONOLULU HI 96804

STATE OF HAWAII
DEPARTMENT OF HUMAN SERVICES
1390 MILLER STREET SUITE 209
HONOLULU HI 96813

STATE OF HAWAII
DEPARTMENT OF HUMAN SERVICES
333 N KING STREET
HONOLULU HI 96817

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
1151 PUNCHBOWL STREET
HONOLULU HI 96817

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
869 PUNCHBOWL STREET ROOM 509
HONOLULU HI 96813

STATE OF HAWAII
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES
1151 PUNCHBOWL STREET
HONOLULU HI 96817

STATE OF HAWAII
KAIULANI ELEMENTARY SCHOOL
783 N KING STREET
HONOLULU HI 96817

STATE OF HAWAII
KAULUWELA ELEMENTARY SCHOOL
1486 AALA STREET
HONOLULU HI 96817

STATE OF HAWAII
LILIHA PUBLIC LIBRARY
1515 LILIHA STREET
HONOLULU HI 96817

SUH, YONG BUM
1090 KEOLU DRIVE #101
KAILUA HI 96734

SUNRISE DRAGON LLC
C/O TOM SHINSATO REALTY, INC
1744 LILIHA STREET #306
HONOLULU HI 96817

TABIOS, AURORA T TRUST
P O BOX 1254
KANEOHE HI 96744

TAM, MICHAEL K W
P O BOX 29389
HONOLULU HI 96820

TAMASHIRO, WALTER H TRUSTEE
C/O TAMASHIRO, CYRUS TRUSTEE
802 N KING STREET
HONOLULU HI 96817

TANAKA, SACHIKO TR
1633 ANAPUNI STREET
HONOLULU HI 96822

TANG, DENNIS
1110 PALAMA STREET
HONOLULU HI 96817

THOM, BUCK K FAMILY PRTNSP
C/O LOWELL THOM
P O BOX 23380
HONOLULU HI 96823

TOGUCHI CHIYOKO INC
1155 KAUMAILUNA PL
HONOLULU HI 96817

TOMITA, VIVIAN T TRUST
P O BOX 1858
AIEA HI 96701

TOYAMA, IVAN K/FAY K TR
1565 ST LOUIS DRIVE
HONOLULU HI 96816

TRAN, CUONG HOANG TRUST
125 MOKAUEA STREET
HONOLULU HI 96819

TRAN, HOANG T
801 KANOA STREET
HONOLULU HI 96817

TRANG, GEORGE G N TR
930 N KING STREET
HONOLULU HI 96817

TSANG, NGAR SEUNG
515 HIRAM LANE
HONOLULU HI 96817

TSR PARTNERS
P O BOX 10242
HONOLULU HI 96816

TSURUDA, RICHARD M/TOKUKO GEN TRF TR
C/O FRANKLIN TSURUDA
6220 S 153RD ST #2
SEATTLE WA 98188

TUPPIL, MARCELINO P
1411 PUA LANE
HONOLULU HI 96817

UEHARA, SEIJI
1425 LILIHA STREET 6E
HONOLULU HI 96817

UNIVERSITY OF HAWAII
HONOLULU COMMUNITY COLLEGE
874 DILLINGHAM BLVD
HONOLULU HI 96817

UYENO, JEANNIE
958 AKEPO LANE
HONOLULU HI 96817

VALENZUELA, CELIA G TR
1416 C PUA LANE
HONOLULU HI 96817

VASS LLC
1222A ALANI STREET
HONOLULU HI 96817

VIDAD, CEASAR R V
627 B WAIPA LANE
HONOLULU HI 96817

VIETNAMESE BUDDHIST ASSN HONOLULU PROPERTY MANAGEMENT LLC
1003 BISHOP ST STE 2250
HONOLULU HI 96813

WALLACE, TO-NU LU
1260 RICHARD LANE #B604
HONOLULU HI 96819

WHITING, SANYBOY S
824 LOPEZ LANE
HONOLULU HI 96817

WONG, ALTON S TR
PALACE REALTY
1314 S KING ST #1463
HONOLULU HI 96814

WONG, PHILIP Y F
615 WAIPA LANE
HONOLULU HI 96817

WONG, RANDAL S/YVONNE M TR
1443 HOLELUA PLACE
HONOLULU HI 96817

WU, XIUFANG
824 LOPEZ LANE
HONOLULU HI 96817

XI, ZHANG NIAN
1310 PALAMA STREET
HONOLULU HI 96817

XIAO, GUO Y
556 WAIPA LANE
HONOLULU HI 96817

YAGYAGAN, ELISA I TRUST
811 D LAKIMELA LANE
HONOLULU HI 96817

YI, DOLE K S
87-1059 D PAPAYA RD
WAIANAE HI 96792

YOUNG, CLIFFORD M G
1127 BANYAN STREET
HONOLULU HI 96817

ZHANG, HENRY Y
1408 PUA LANE
HONOLULU HI 96817

ZHU, TENG HAN
811 E LAKIMELA LANE
HONOLULU HI 96817

BUSINESS OCCUPANT
935 DILLINGHAM BLVD
HONOLULU HI 96817-4506

BUSINESS OCCUPANT
874 DILLINGHAM BLVD
HONOLULU HI 96817-4505

BUSINESS OCCUPANT
925 DILLINGHAM BLVD
HONOLULU HI 96817-4506

BUSINESS OCCUPANT
909 DILLINGHAM BLVD
HONOLULU HI 96817-4540

BUSINESS OCCUPANT
801 DILLINGHAM BLVD STE 101
HONOLULU HI 96817-4529

BUSINESS OCCUPANT
801 DILLINGHAM BLVD STE 103
HONOLULU HI 96817-4529

BUSINESS OCCUPANT
801 DILLINGHAM BLVD STE 105
HONOLULU HI 96817-4529

BUSINESS OCCUPANT
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HONOLULU HI 96817-4529

BUSINESS OCCUPANT
801 DILLINGHAM BLVD STE 108
HONOLULU HI 96817-4529

BUSINESS OCCUPANT
801 DILLINGHAM BLVD STE 200
HONOLULU HI 96817-4529

BUSINESS OCCUPANT
801 DILLINGHAM BLVD STE 300
HONOLULU HI 96817-4529

RESIDENT
1238 PUA LN
HONOLULU HI 96817-3815

RESIDENT
1232 PUA LN
HONOLULU HI 96817-3815

RESIDENT
1230 PUA LN APT 1
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RESIDENT
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RESIDENT
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HONOLULU HI 96817-3283

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RESIDENT
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RESIDENT
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1216 PUA LN APT 602
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RESIDENT
1216 PUA LN APT 603
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1216 PUA LN APT 604
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RESIDENT
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HONOLULU HI 96817-3829

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RESIDENT
1216 PUA LN APT 807
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RESIDENT
1216 PUA LN APT 808
HONOLULU HI 96817-3829

BUSINESS OCCUPANT
1216 PUA LN OFC 901
HONOLULU HI 96817-3829

RESIDENT
1202 PUA LN APT 9
HONOLULU HI 96817-3818

RESIDENT
1202 PUA LN APT 10
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1202 PUA LN APT 11
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1202 PUA LN APT 12
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1202 PUA LN APT 14
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RESIDENT
1202 PUA LN APT 1
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1202 PUA LN APT 2
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1202 PUA LN APT 3
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1202 PUA LN APT 7
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1202 PUA LN APT 8
HONOLULU HI 96817-3817

RESIDENT
1120 PUA LN APT 101
HONOLULU HI 96817-3803

RESIDENT
1120 PUA LN APT 102
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1120 PUA LN APT 103
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1120 PUA LN APT 201
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1120 PUA LN APT 202
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1120 PUA LN APT 303
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RESIDENT
1118 PUA LN APT 101
HONOLULU HI 96817-3808

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RESIDENT
1118 PUA LN APT 213
HONOLULU HI 96817-3811

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1118 PUA LN APT 111
HONOLULU HI 96817-3809

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RESIDENT
1118 PUA LN APT 307
HONOLULU HI 96817-3812

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HONOLULU HI 96817-3812

RESIDENT
1118 PUA LN APT 205
HONOLULU HI 96817-3810

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RESIDENT
1118 PUA LN APT 211
HONOLULU HI 96817-3810

RESIDENT
1118 PUA LN APT 212
HONOLULU HI 96817-3810

RESIDENT
1220 AALA ST APT 100
HONOLULU HI 96817-3904

RESIDENT
1220 AALA ST APT 101
HONOLULU HI 96817-3904

RESIDENT
1220 AALA ST APT 102
HONOLULU HI 96817-3904

RESIDENT
1220 AALA ST APT 103
HONOLULU HI 96817-3904

RESIDENT
1220 AALA ST APT 104
HONOLULU HI 96817-3904

RESIDENT
1220 AALA ST APT 105
HONOLULU HI 96817-3904

RESIDENT
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HONOLULU HI 96817-4657

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RESIDENT
273 N VINEYARD BLVD APT 102
HONOLULU HI 96817-3942

RESIDENT
273 N VINEYARD BLVD APT 103
HONOLULU HI 96817-3942

RESIDENT
273 N VINEYARD BLVD APT 201
HONOLULU HI 96817-3942

RESIDENT
273 N VINEYARD BLVD APT 202
HONOLULU HI 96817-3942

RESIDENT
273 N VINEYARD BLVD APT 203
HONOLULU HI 96817-3942

RESIDENT
273 N VINEYARD BLVD APT 204
HONOLULU HI 96817-3942

RESIDENT
273 N VINEYARD BLVD APT 205
HONOLULU HI 96817-3942

RESIDENT
273 N VINEYARD BLVD APT 206
HONOLULU HI 96817-3942

RESIDENT
275 N VINEYARD BLVD APT 101
HONOLULU HI 96817-3966

RESIDENT
275 N VINEYARD BLVD APT 102
HONOLULU HI 96817-3966

RESIDENT
275 N VINEYARD BLVD APT 103
HONOLULU HI 96817-3966

RESIDENT
275 N VINEYARD BLVD APT 104
HONOLULU HI 96817-3966

RESIDENT
275 N VINEYARD BLVD APT 201
HONOLULU HI 96817-3943

RESIDENT
275 N VINEYARD BLVD APT 202
HONOLULU HI 96817-3943

RESIDENT
275 N VINEYARD BLVD APT 203
HONOLULU HI 96817-3943

RESIDENT
275 N VINEYARD BLVD APT 204
HONOLULU HI 96817-3943

RESIDENT
275 N VINEYARD BLVD APT 205
HONOLULU HI 96817-3943

RESIDENT
275 N VINEYARD BLVD APT 206
HONOLULU HI 96817-3943

RESIDENT
275 N VINEYARD BLVD APT 207
HONOLULU HI 96817-3943

RESIDENT
275 N VINEYARD BLVD APT 208
HONOLULU HI 96817-3943

RESIDENT
277 N VINEYARD BLVD APT 101
HONOLULU HI 96817-3944

RESIDENT
277 N VINEYARD BLVD APT 102
HONOLULU HI 96817-3944

RESIDENT
277 N VINEYARD BLVD APT 103
HONOLULU HI 96817-3944

RESIDENT
277 N VINEYARD BLVD APT 104
HONOLULU HI 96817-3944

RESIDENT
277 N VINEYARD BLVD APT 105
HONOLULU HI 96817-3944

RESIDENT
277 N VINEYARD BLVD APT 201
HONOLULU HI 96817-3944

RESIDENT
277 N VINEYARD BLVD APT 202
HONOLULU HI 96817-3944

RESIDENT
277 N VINEYARD BLVD APT 203
HONOLULU HI 96817-3944

RESIDENT
277 N VINEYARD BLVD APT 204
HONOLULU HI 96817-3924

RESIDENT
277 N VINEYARD BLVD APT 205
HONOLULU HI 96817-3924

RESIDENT
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HONOLULU HI 96817-3924

RESIDENT
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HONOLULU HI 96817-3924

RESIDENT
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HONOLULU HI 96817-3924

RESIDENT
277 N VINEYARD BLVD APT 209
HONOLULU HI 96817-3924

RESIDENT
277 N VINEYARD BLVD APT 210
HONOLULU HI 96817-3924

RESIDENT
281 N VINEYARD BLVD APT 101
HONOLULU HI 96817-3945

RESIDENT
281 N VINEYARD BLVD APT 102
HONOLULU HI 96817-3945

RESIDENT
281 N VINEYARD BLVD APT 103
HONOLULU HI 96817-3945

RESIDENT
281 N VINEYARD BLVD APT 105
HONOLULU HI 96817-3945

RESIDENT
281 N VINEYARD BLVD APT 106
HONOLULU HI 96817-3945

RESIDENT
281 N VINEYARD BLVD APT 107
HONOLULU HI 96817-3945

RESIDENT
281 N VINEYARD BLVD APT 201
HONOLULU HI 96817-3930

RESIDENT
281 N VINEYARD BLVD APT 202
HONOLULU HI 96817-3930

RESIDENT
281 N VINEYARD BLVD APT 203
HONOLULU HI 96817-3930

RESIDENT
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HONOLULU HI 96817-3930

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HONOLULU HI 96817-3930

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HONOLULU HI 96817-3930

RESIDENT
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HONOLULU HI 96817-3930

RESIDENT
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HONOLULU HI 96817-3930

RESIDENT
281 N VINEYARD BLVD APT 210
HONOLULU HI 96817-3930

RESIDENT
281 N VINEYARD BLVD APT 211
HONOLULU HI 96817-3930

RESIDENT
281 N VINEYARD BLVD APT 212
HONOLULU HI 96817-3930

RESIDENT
281 N VINEYARD BLVD APT 213
HONOLULU HI 96817-3930

BUSINESS OCCUPANT
1320 AALA ST
HONOLULU HI 96817-3918

RESIDENT
1507 LILIHA ST APT 1
HONOLULU HI 96817-3552

RESIDENT
1507 LILIHA ST APT 2
HONOLULU HI 96817-3552

RESIDENT
1507 LILIHA ST APT 3
HONOLULU HI 96817-3552

RESIDENT
1507 LILIHA ST APT 4
HONOLULU HI 96817-3552

RESIDENT
1507 LILIHA ST APT 5
HONOLULU HI 96817-3552

RESIDENT
1507 LILIHA ST APT 6
HONOLULU HI 96817-3552

RESIDENT
1507 LILIHA ST APT 7
HONOLULU HI 96817-3552

RESIDENT
1507 LILIHA ST APT 8
HONOLULU HI 96817-3553

RESIDENT
1507 LILIHA ST APT 9
HONOLULU HI 96817-3553

RESIDENT
1507 LILIHA ST APT 10
HONOLULU HI 96817-3553

RESIDENT
1507 LILIHA ST APT 11
HONOLULU HI 96817-3553

RESIDENT
1507 LILIHA ST APT 12
HONOLULU HI 96817-3553

RESIDENT
1507 LILIHA ST APT 14
HONOLULU HI 96817-3553

RESIDENT
1507 LILIHA ST APT 15
HONOLULU HI 96817-3553

RESIDENT
1507 LILIHA ST APT 16
HONOLULU HI 96817-3554

RESIDENT
1507 LILIHA ST APT 17
HONOLULU HI 96817-3554

RESIDENT
1507 LILIHA ST APT 18
HONOLULU HI 96817-3554

BUSINESS OCCUPANT
1515 LILIHA ST
HONOLULU HI 96817-3526

BUSINESS OCCUPANT
525 KIAPU PL
HONOLULU HI 96817-3531

RESIDENT
521 KIAPU PL
HONOLULU HI 96817-3531

RESIDENT
519 KIAPU PL
HONOLULU HI 96817-3531

RESIDENT
513 KIAPU PL
HONOLULU HI 96817-3531

RESIDENT
511 KIAPU PL
HONOLULU HI 96817-3531

RESIDENT
509 KIAPU PL
HONOLULU HI 96817-3531

RESIDENT
507 KIAPU PL
HONOLULU HI 96817-3531

RESIDENT
507 KIAPU PL APT A
HONOLULU HI 96817-3531

BUSINESS OCCUPANT
1520 LILIHA ST STE 101
HONOLULU HI 96817-3588

BUSINESS OCCUPANT
1520 LILIHA ST STE 201
HONOLULU HI 96817-3563

BUSINESS OCCUPANT
1520 LILIHA ST STE 203
HONOLULU HI 96817-3563

BUSINESS OCCUPANT
1520 LILIHA ST STE 204
HONOLULU HI 96817-3563

BUSINESS OCCUPANT
1520 LILIHA ST STE 205
HONOLULU HI 96817-3563

BUSINESS OCCUPANT
1520 LILIHA ST STE 301
HONOLULU HI 96817-3563

BUSINESS OCCUPANT
1520 LILIHA ST STE 303
HONOLULU HI 96817-3563

BUSINESS OCCUPANT
1520 LILIHA ST STE 401
HONOLULU HI 96817-3563

BUSINESS OCCUPANT
1520 LILIHA ST STE 403
HONOLULU HI 96817-3563

BUSINESS OCCUPANT
1520 LILIHA ST STE 404
HONOLULU HI 96817-3563

BUSINESS OCCUPANT
1520 LILIHA ST STE 405
HONOLULU HI 96817-3563

BUSINESS OCCUPANT
1520 LILIHA ST STE 502
HONOLULU HI 96817-3564

BUSINESS OCCUPANT
1520 LILIHA ST STE 503
HONOLULU HI 96817-3564

BUSINESS OCCUPANT
1520 LILIHA ST STE 601
HONOLULU HI 96817-3564

BUSINESS OCCUPANT
1520 LILIHA ST STE 606
HONOLULU HI 96817-3564

BUSINESS OCCUPANT
1520 LILIHA ST STE 607
HONOLULU HI 96817-3564

BUSINESS OCCUPANT
1520 LILIHA ST STE 701
HONOLULU HI 96817-3564

BUSINESS OCCUPANT
1520 LILIHA ST STE 703
HONOLULU HI 96817-3564

BUSINESS OCCUPANT
1520 LILIHA ST STE 705
HONOLULU HI 96817-3564

BUSINESS OCCUPANT
1520 LILIHA ST STE 711
HONOLULU HI 96817-3564

BUSINESS OCCUPANT
1520 LILIHA ST STE 707
HONOLULU HI 96817-3564

RESIDENT
519 HIRAM LN
HONOLULU HI 96817-3501

RESIDENT
519 HIRAM LN APT A
HONOLULU HI 96817-3501

RESIDENT
519 HIRAM LN APT B
HONOLULU HI 96817-3501

RESIDENT
515 HIRAM LN
HONOLULU HI 96817-3501

RESIDENT
511 HIRAM LN
HONOLULU HI 96817-3501

BUSINESS OCCUPANT
1502 LILIHA ST
HONOLULU HI 96817-3525

BUSINESS OCCUPANT
1502 LILIHA ST STE 2
HONOLULU HI 96817-3525

BUSINESS OCCUPANT
961 AKEPO LN
HONOLULU HI 96817-4503

BUSINESS OCCUPANT
958 AKEPO LN STE 1
HONOLULU HI 96817-6502

RESIDENT
955 AKEPO LN APT 100
HONOLULU HI 96817-5710

RESIDENT
955 AKEPO LN APT 101
HONOLULU HI 96817-5710

RESIDENT
955 AKEPO LN APT 102
HONOLULU HI 96817-5710

RESIDENT
955 AKEPO LN APT 103
HONOLULU HI 96817-5710

RESIDENT
955 AKEPO LN APT 104
HONOLULU HI 96817-5710

RESIDENT
955 AKEPO LN APT 105
HONOLULU HI 96817-5710

RESIDENT
955 AKEPO LN APT 106
HONOLULU HI 96817-5710

RESIDENT
955 AKEPO LN APT 107
HONOLULU HI 96817-5710

RESIDENT
955 AKEPO LN APT 108
HONOLULU HI 96817-5710

RESIDENT
955 AKEPO LN APT 109
HONOLULU HI 96817-5710

RESIDENT
955 AKEPO LN APT 110
HONOLULU HI 96817-5710

RESIDENT
955 AKEPO LN APT 111
HONOLULU HI 96817-5717

RESIDENT
955 AKEPO LN APT 112
HONOLULU HI 96817-5717

RESIDENT
955 AKEPO LN APT 113
HONOLULU HI 96817-5717

RESIDENT
955 AKEPO LN APT 114
HONOLULU HI 96817-5717

RESIDENT
955 AKEPO LN APT 115
HONOLULU HI 96817-5717

RESIDENT
955 AKEPO LN APT 116
HONOLULU HI 96817-5717

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955 AKEPO LN APT 117
HONOLULU HI 96817-5717

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955 AKEPO LN APT 118
HONOLULU HI 96817-5717

RESIDENT
955 AKEPO LN APT 119
HONOLULU HI 96817-5717

RESIDENT
955 AKEPO LN APT 120
HONOLULU HI 96817-5717

RESIDENT
955 AKEPO LN APT 201
HONOLULU HI 96817-5716

RESIDENT
955 AKEPO LN APT 202
HONOLULU HI 96817-5716

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HONOLULU HI 96817-5716

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955 AKEPO LN APT 204
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HONOLULU HI 96817-5716

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HONOLULU HI 96817-5716

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955 AKEPO LN APT 209
HONOLULU HI 96817-5716

RESIDENT
955 AKEPO LN APT 211
HONOLULU HI 96817-5711

RESIDENT
955 AKEPO LN APT 212
HONOLULU HI 96817-5711

RESIDENT
955 AKEPO LN APT 213
HONOLULU HI 96817-5711

RESIDENT
955 AKEPO LN APT 214
HONOLULU HI 96817-5711

RESIDENT
955 AKEPO LN APT 215
HONOLULU HI 96817-5711

RESIDENT
955 AKEPO LN APT 216
HONOLULU HI 96817-5711

RESIDENT
955 AKEPO LN APT 217
HONOLULU HI 96817-5711

RESIDENT
955 AKEPO LN APT 218
HONOLULU HI 96817-5711

RESIDENT
955 AKEPO LN APT 219
HONOLULU HI 96817-5711

RESIDENT
955 AKEPO LN APT 220
HONOLULU HI 96817-5729

RESIDENT
955 AKEPO LN APT 221
HONOLULU HI 96817-5729

RESIDENT
955 AKEPO LN APT 222
HONOLULU HI 96817-5729

RESIDENT
955 AKEPO LN APT 223
HONOLULU HI 96817-5729

RESIDENT
955 AKEPO LN APT 224
HONOLULU HI 96817-5729

RESIDENT
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HONOLULU HI 96817-5729

RESIDENT
955 AKEPO LN APT 226
HONOLULU HI 96817-5729

RESIDENT
955 AKEPO LN APT 227
HONOLULU HI 96817-5729

RESIDENT
955 AKEPO LN APT 228
HONOLULU HI 96817-5729

RESIDENT
955 AKEPO LN APT 301
HONOLULU HI 96817-5728

RESIDENT
955 AKEPO LN APT 302
HONOLULU HI 96817-5728

RESIDENT
955 AKEPO LN APT 303
HONOLULU HI 96817-5728

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955 AKEPO LN APT 304
HONOLULU HI 96817-5728

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955 AKEPO LN APT 305
HONOLULU HI 96817-5728

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HONOLULU HI 96817-5728

RESIDENT
955 AKEPO LN APT 311
HONOLULU HI 96817-5712

RESIDENT
955 AKEPO LN APT 312
HONOLULU HI 96817-5712

RESIDENT
955 AKEPO LN APT 313
HONOLULU HI 96817-5712

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955 AKEPO LN APT 314
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HONOLULU HI 96817-5712

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955 AKEPO LN APT 316
HONOLULU HI 96817-5712

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HONOLULU HI 96817-5712

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HONOLULU HI 96817-5712

RESIDENT
955 AKEPO LN APT 319
HONOLULU HI 96817-5712

RESIDENT
955 AKEPO LN APT 320
HONOLULU HI 96817-5712

RESIDENT
955 AKEPO LN APT 321
HONOLULU HI 96817-5732

RESIDENT
955 AKEPO LN APT 322
HONOLULU HI 96817-5732

RESIDENT
955 AKEPO LN APT 323
HONOLULU HI 96817-5731

RESIDENT
955 AKEPO LN APT 324
HONOLULU HI 96817-5731

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HONOLULU HI 96817-5731

RESIDENT
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HONOLULU HI 96817-5731

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HONOLULU HI 96817-5731

RESIDENT
955 AKEPO LN APT 328
HONOLULU HI 96817-5731

RESIDENT
955 AKEPO LN APT 401
HONOLULU HI 96817-5731

RESIDENT
955 AKEPO LN APT 402
HONOLULU HI 96817-5731

RESIDENT
955 AKEPO LN APT 403
HONOLULU HI 96817-5730

RESIDENT
955 AKEPO LN APT 404
HONOLULU HI 96817-5730

RESIDENT
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HONOLULU HI 96817-5730

RESIDENT
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HONOLULU HI 96817-5730

RESIDENT
955 AKEPO LN APT 407
HONOLULU HI 96817-5730

RESIDENT
955 AKEPO LN APT 409
HONOLULU HI 96817-5730

RESIDENT
955 AKEPO LN APT 410
HONOLULU HI 96817-5730

RESIDENT
955 AKEPO LN APT 411
HONOLULU HI 96817-5730

RESIDENT
955 AKEPO LN APT 412
HONOLULU HI 96817-5730

RESIDENT
955 AKEPO LN APT 413
HONOLULU HI 96817-5713

RESIDENT
955 AKEPO LN APT 415
HONOLULU HI 96817-5713

RESIDENT
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HONOLULU HI 96817-5713

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HONOLULU HI 96817-5713

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HONOLULU HI 96817-5713

RESIDENT
955 AKEPO LN APT 419
HONOLULU HI 96817-5713

RESIDENT
955 AKEPO LN APT 420
HONOLULU HI 96817-5713

RESIDENT
955 AKEPO LN APT 421
HONOLULU HI 96817-5713

RESIDENT
955 AKEPO LN APT 422
HONOLULU HI 96817-5713

RESIDENT
955 AKEPO LN APT 423
HONOLULU HI 96817-5733

RESIDENT
955 AKEPO LN APT 424
HONOLULU HI 96817-5733

RESIDENT
955 AKEPO LN APT 425
HONOLULU HI 96817-5733

RESIDENT
955 AKEPO LN APT 426
HONOLULU HI 96817-5733

RESIDENT
955 AKEPO LN APT 427
HONOLULU HI 96817-5733

RESIDENT
955 AKEPO LN APT 428
HONOLULU HI 96817-5733

BUSINESS OCCUPANT
949 AKEPO LN STE 1
HONOLULU HI 96817-4503

RESIDENT
954 AKEPO LN APT 1
HONOLULU HI 96817-4562

RESIDENT
954 AKEPO LN APT 2
HONOLULU HI 96817-4562

RESIDENT
954 AKEPO LN APT 3
HONOLULU HI 96817-4562

RESIDENT
954 AKEPO LN APT 4
HONOLULU HI 96817-4562

RESIDENT
954 AKEPO LN APT 5
HONOLULU HI 96817-4562

RESIDENT
954 AKEPO LN APT 6
HONOLULU HI 96817-4563

RESIDENT
954 AKEPO LN APT 7
HONOLULU HI 96817-4563

RESIDENT
954 AKEPO LN APT 8
HONOLULU HI 96817-4563

RESIDENT
954 AKEPO LN APT 9
HONOLULU HI 96817-4563

RESIDENT
954 AKEPO LN APT 10
HONOLULU HI 96817-4563

RESIDENT
954 AKEPO LN APT 11
HONOLULU HI 96817-4564

RESIDENT
954 AKEPO LN APT 12
HONOLULU HI 96817-4564

RESIDENT
954 AKEPO LN APT 13
HONOLULU HI 96817-4564

RESIDENT
954 AKEPO LN APT 14
HONOLULU HI 96817-4564

RESIDENT
954 AKEPO LN APT 15
HONOLULU HI 96817-4564

BUSINESS OCCUPANT
944 AKEPO LN STE 1
HONOLULU HI 96817-4588

BUSINESS OCCUPANT
944 AKEPO LN STE 2
HONOLULU HI 96817-4588

BUSINESS OCCUPANT
944 AKEPO LN STE 3
HONOLULU HI 96817-4588

RESIDENT
938 AKEPO LN
HONOLULU HI 96817-4501

RESIDENT
942 AKEPO LN
HONOLULU HI 96817-4501

RESIDENT
942 AKEPO LN
HONOLULU HI 96817-4501

RESIDENT
942 AKEPO LN
HONOLULU HI 96817-4501

RESIDENT
942 AKEPO LN
HONOLULU HI 96817-4501

RESIDENT
942 AKEPO LN APT C
HONOLULU HI 96817-4501

RESIDENT
938 AKEPO LN APT A
HONOLULU HI 96817-5704

RESIDENT
938 AKEPO LN APT B
HONOLULU HI 96817-5704

RESIDENT
940 AKEPO LN
HONOLULU HI 96817-4501

RESIDENT
940 AKEPO LN
HONOLULU HI 96817-4501

RESIDENT
940 AKEPO LN
HONOLULU HI 96817-4501

RESIDENT
940 AKEPO LN
HONOLULU HI 96817-4501

RESIDENT
938 AKEPO LN APT C
HONOLULU HI 96817-5704

RESIDENT
938 AKEPO LN APT D
HONOLULU HI 96817-5704

BUSINESS OCCUPANT
935 AKEPO LN
HONOLULU HI 96817-4503

BUSINESS OCCUPANT
939 AKEPO LN
HONOLULU HI 96817-4503

BUSINESS OCCUPANT
935 AKEPO LN STE B1
HONOLULU HI 96817-5770

RESIDENT
410 N BERETANIA ST APT 101
HONOLULU HI 96817-4734

RESIDENT
410 N BERETANIA ST APT 102
HONOLULU HI 96817-4734

RESIDENT
410 N BERETANIA ST APT 103
HONOLULU HI 96817-4734

RESIDENT
410 N BERETANIA ST APT 104
HONOLULU HI 96817-4734

RESIDENT
410 N BERETANIA ST APT 105
HONOLULU HI 96817-4734

RESIDENT
410 N BERETANIA ST APT 201
HONOLULU HI 96817-4734

RESIDENT
410 N BERETANIA ST APT 202
HONOLULU HI 96817-4734

RESIDENT
410 N BERETANIA ST APT 203
HONOLULU HI 96817-4734

RESIDENT
410 N BERETANIA ST APT 204
HONOLULU HI 96817-4734

RESIDENT
410 N BERETANIA ST APT 205
HONOLULU HI 96817-4734

RESIDENT
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HONOLULU HI 96817-4734

RESIDENT
410 N BERETANIA ST APT 207
HONOLULU HI 96817-4734

RESIDENT
410 N BERETANIA ST APT 208
HONOLULU HI 96817-4734

RESIDENT
410 N BERETANIA ST APT 209
HONOLULU HI 96817-4734

RESIDENT
410 N BERETANIA ST APT 210
HONOLULU HI 96817-4734

RESIDENT
412 N BERETANIA ST APT 101
HONOLULU HI 96817-4733

RESIDENT
412 N BERETANIA ST APT 102
HONOLULU HI 96817-4735

RESIDENT
412 N BERETANIA ST APT 103
HONOLULU HI 96817-4735

RESIDENT
412 N BERETANIA ST APT 104
HONOLULU HI 96817-4735

RESIDENT
412 N BERETANIA ST APT 105
HONOLULU HI 96817-4735

RESIDENT
412 N BERETANIA ST APT 106
HONOLULU HI 96817-4735

RESIDENT
412 N BERETANIA ST APT 107
HONOLULU HI 96817-4735

RESIDENT
412 N BERETANIA ST APT 201
HONOLULU HI 96817-4735

RESIDENT
412 N BERETANIA ST APT 202
HONOLULU HI 96817-4735

RESIDENT
412 N BERETANIA ST APT 203
HONOLULU HI 96817-4735

RESIDENT
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HONOLULU HI 96817-4735

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HONOLULU HI 96817-4735

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RESIDENT
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HONOLULU HI 96817-4735

RESIDENT
412 N BERETANIA ST APT 208
HONOLULU HI 96817-4735

RESIDENT
412 N BERETANIA ST APT 209
HONOLULU HI 96817-4735

RESIDENT
412 N BERETANIA ST APT 210
HONOLULU HI 96817-4735

RESIDENT
420 N KING ST APT 101
HONOLULU HI 96817-4705

RESIDENT
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RESIDENT
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HONOLULU HI 96817-4722

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HONOLULU HI 96817-4718

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HONOLULU HI 96817-4740

RESIDENT
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HONOLULU HI 96817-4622

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HONOLULU HI 96817-4624

RESIDENT
1001 LILIHA ST APT 314
HONOLULU HI 96817-4624

RESIDENT
1101 LILIHA ST APT 101
HONOLULU HI 96817-4694

BUSINESS OCCUPANT
1101 LILIHA ST APT 102
HONOLULU HI 96817-4694

RESIDENT
1101 LILIHA ST APT 103
HONOLULU HI 96817-4694

RESIDENT
1101 LILIHA ST APT 104
HONOLULU HI 96817-4694

RESIDENT
1101 LILIHA ST APT 105
HONOLULU HI 96817-4694

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1101 LILIHA ST APT 106
HONOLULU HI 96817-4694

RESIDENT
1101 LILIHA ST APT 107
HONOLULU HI 96817-4629

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HONOLULU HI 96817-4629

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HONOLULU HI 96817-4629

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HONOLULU HI 96817-4629

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RESIDENT
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HONOLULU HI 96817-4661

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1101 LILIHA ST APT 213
HONOLULU HI 96817-4661

RESIDENT
1101 LILIHA ST APT 214
HONOLULU HI 96817-4661

RESIDENT
1103 LILIHA ST APT 101
HONOLULU HI 96817-4632

BUSINESS OCCUPANT
1103 LILIHA ST APT 102
HONOLULU HI 96817-4632

RESIDENT
1103 LILIHA ST APT 103
HONOLULU HI 96817-4632

RESIDENT
1103 LILIHA ST APT 201
HONOLULU HI 96817-4632

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1103 LILIHA ST APT 205
HONOLULU HI 96817-4632

RESIDENT
1103 LILIHA ST APT 206
HONOLULU HI 96817-4632

BUSINESS OCCUPANT
408 N BERETANIA ST
HONOLULU HI 96817-4728

RESIDENT
1105 LILIHA ST APT 101
HONOLULU HI 96817-4636

RESIDENT
1105 LILIHA ST APT 102
HONOLULU HI 96817-4636

RESIDENT
1105 LILIHA ST APT 201
HONOLULU HI 96817-4636

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HONOLULU HI 96817-4636

RESIDENT
1107 LILIHA ST APT 101
HONOLULU HI 96817-4664

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RESIDENT
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RESIDENT
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HONOLULU HI 96817-4645

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RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
1207 LILIHA ST APT 210
HONOLULU HI 96817-4679

BUSINESS OCCUPANT
1226 COLLEGE WALK
HONOLULU HI 96817-3946

RESIDENT
1012 AULD LN
HONOLULU HI 96817-3415

RESIDENT
1018 AULD LN
HONOLULU HI 96817-3415

RESIDENT
1017 AULD LN
HONOLULU HI 96817-3416

RESIDENT
1102 AULD LN
HONOLULU HI 96817-3417

RESIDENT
1103 AULD LN
HONOLULU HI 96817-3418

RESIDENT
1114 AULD LN
HONOLULU HI 96817-3417

RESIDENT
1106 AULD LN APT A
HONOLULU HI 96817-3497

RESIDENT
1106 AULD LN APT B
HONOLULU HI 96817-3497

RESIDENT
1106 AULD LN APT C
HONOLULU HI 96817-3497

RESIDENT
1106 AULD LN APT D
HONOLULU HI 96817-3497

RESIDENT
1009 RAWLINS LN
HONOLULU HI 96817-3457

RESIDENT
1008 RAWLINS LN
HONOLULU HI 96817-3457

RESIDENT
1008 RAWLINS LN
HONOLULU HI 96817-3457

RESIDENT
1010 RAWLINS LN APT A
HONOLULU HI 96817-3499

RESIDENT
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HONOLULU HI 96817-3499

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HONOLULU HI 96817-3499

RESIDENT
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HONOLULU HI 96817-3499

RESIDENT
1010 RAWLINS LN APT G
HONOLULU HI 96817-3499

RESIDENT
1010 RAWLINS LN APT H
HONOLULU HI 96817-3499

RESIDENT
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HONOLULU HI 96817-3499

RESIDENT
1010 RAWLINS LN APT O
HONOLULU HI 96817-3499

RESIDENT
1010 RAWLINS LN APT P
HONOLULU HI 96817-3499

RESIDENT
1010 RAWLINS LN APT Q
HONOLULU HI 96817-3499

RESIDENT
1010 RAWLINS LN APT R
HONOLULU HI 96817-3499

RESIDENT
1010 RAWLINS LN APT S
HONOLULU HI 96817-3499

RESIDENT
1010 RAWLINS LN APT T
HONOLULU HI 96817-3447

RESIDENT
1010 RAWLINS LN APT U
HONOLULU HI 96817-3499

RESIDENT
1123 AULD LN
HONOLULU HI 96817-3418

RESIDENT
1124 AULD LN
HONOLULU HI 96817-3417

RESIDENT
1128 AULD LN
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1128 AULD LN
HONOLULU HI 96817-3417

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1202 AULD LN
HONOLULU HI 96817-3419

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1202 AULD LN
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RESIDENT
1202 AULD LN
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RESIDENT
1203 AULD LN
HONOLULU HI 96817-3420

RESIDENT
1207 AULD LN
HONOLULU HI 96817-3420

RESIDENT
1240 AULD LN APT H
HONOLULU HI 96817-6425

RESIDENT
1214 AULD LN APT B
HONOLULU HI 96817-3419

RESIDENT
1240 AULD LN APT E
HONOLULU HI 96817-6425

RESIDENT
1210 AULD LN APT D
HONOLULU HI 96817-6426

RESIDENT
1210 AULD LN APT D1
HONOLULU HI 96817-6426

RESIDENT
1240 AULD LN APT C
HONOLULU HI 96817-6425

RESIDENT
1210 AULD LN APT A
HONOLULU HI 96817-6426

RESIDENT
1209 AULD LN
HONOLULU HI 96817-3420

RESIDENT
1211 AULD LN
HONOLULU HI 96817-3420

RESIDENT
1221 AULD LN
HONOLULU HI 96817-3420

RESIDENT
1226 AULD LN
HONOLULU HI 96817-3419

RESIDENT
1222 AULD LN
HONOLULU HI 96817-3419

RESIDENT
1217 IAO LN
HONOLULU HI 96817-5509

RESIDENT
1225 IAO LN
HONOLULU HI 96817-5509

RESIDENT
927 OLOMEA ST
HONOLULU HI 96817-3458

RESIDENT
913 OLOMEA ST
HONOLULU HI 96817-3458

RESIDENT
1310 PALAMA ST
HONOLULU HI 96817-3451

RESIDENT
1306 PALAMA ST
HONOLULU HI 96817-3451

BUSINESS OCCUPANT
1311 PALAMA ST
HONOLULU HI 96817-3400

BUSINESS OCCUPANT
1420 PALAMA ST
HONOLULU HI 96817-3491

RESIDENT
934 HALONA ST
HONOLULU HI 96817-2933

RESIDENT
934 HALONA ST
HONOLULU HI 96817-2933

RESIDENT
938 HALONA ST APT D
HONOLULU HI 96817-2957

RESIDENT
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938 HALONA ST APT A
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1465 AALA ST APT 101
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1465 AALA ST APT 305
HONOLULU HI 96817-3607

Certificate of Mailing — Firm

UNITED STATES POSTAL SERVICE®

Name and Address of Sender

PBR HAWAII & ASSOCIATES, INC.
1001 BISHOP STREET, SUITE 650
HONOLULU HI 96813-3484

TOTAL NO. of Pieces Listed by Sender: 140

TOTAL NO. of Pieces Received at Post Office™

Postmaster, per (name of receiving employee)

Affix Stamp Here
Postmark with Date of Receipt.

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Fee	Special Handling	Parcel Airlift
1. SEE ON NEXT PAGE				
2.				
3.				
4.				
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6.				

DOWNTOWN STATION HONOLULU HI FEB 14 2020 Postage USPS

US POSTAGE PITNEY BOWES
Correction
02 1P
0001208961
$ 606.30
FEB 14 2020
MAILED FROM ZIP CODE 96813

PS Form 3665, January 2017 (Page ___ of ___) PSN 7530-17-000-5549

See Reverse for Instructions

RESIDENT
1465 AALA ST APT 1508
HONOLULU HI 96817-3609

RESIDENT
1465 AALA ST APT 1601
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RESIDENT
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RESIDENT
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HONOLULU HI 96817-3606

BUSINESS OCCUPANT
1450 AALA ST STE 100
HONOLULU HI 96817-3606

BUSINESS OCCUPANT
675 N KING ST STE 200
HONOLULU HI 96817-4526

RESIDENT
675 N KING ST APT 300
HONOLULU HI 96817-4526

BUSINESS OCCUPANT
663 N KING ST
HONOLULU HI 96817-4510

BUSINESS OCCUPANT
580 N KING ST
HONOLULU HI 96817-4603

BUSINESS OCCUPANT
582 N KING ST
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590 N KING ST
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594 N KING ST
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RESIDENT
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RESIDENT
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BUSINESS OCCUPANT
555 N KING ST STE 102
HONOLULU HI 96817-4649

BUSINESS OCCUPANT
555 N KING ST STE 103
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BUSINESS OCCUPANT
555 N KING ST STE 104
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BUSINESS OCCUPANT
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BUSINESS OCCUPANT
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BUSINESS OCCUPANT
555 N KING ST STE 108
HONOLULU HI 96817-4649

RESIDENT
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RESIDENT
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HONOLULU HI 96817-5727

RESIDENT
607 N KING ST APT 473
HONOLULU HI 96817-5727

RESIDENT
607 N KING ST APT 475
HONOLULU HI 96817-5727

RESIDENT
607 N KING ST APT 477
HONOLULU HI 96817-5727

RESIDENT
607 N KING ST APT 479
HONOLULU HI 96817-5727

RESIDENT
607 N KING ST APT 481
HONOLULU HI 96817-5759

RESIDENT
607 N KING ST APT 485
HONOLULU HI 96817-5759

RESIDENT
607 N KING ST APT 487
HONOLULU HI 96817-5759

RESIDENT
607 N KING ST APT 489
HONOLULU HI 96817-5759

RESIDENT
607 N KING ST APT 139
HONOLULU HI 96817-5759

BUSINESS OCCUPANT
607 N KING ST OFC
HONOLULU HI 96817-5718

BUSINESS OCCUPANT
609 N KING ST
HONOLULU HI 96817-4509

RESIDENT
607 N KING ST APT 423
HONOLULU HI 96817-5754

RESIDENT
607 N KING ST APT 424
HONOLULU HI 96817-5754

RESIDENT
607 N KING ST APT 425
HONOLULU HI 96817-5754

RESIDENT
607 N KING ST APT 426
HONOLULU HI 96817-5754

RESIDENT
607 N KING ST APT 427
HONOLULU HI 96817-5754

RESIDENT
607 N KING ST APT 428
HONOLULU HI 96817-5754

RESIDENT
607 N KING ST APT 429
HONOLULU HI 96817-5754

RESIDENT
607 N KING ST APT 431
HONOLULU HI 96817-5753

RESIDENT
607 N KING ST APT 432
HONOLULU HI 96817-5753

RESIDENT
607 N KING ST APT 433
HONOLULU HI 96817-5767

RESIDENT
607 N KING ST APT 434
HONOLULU HI 96817-5767

RESIDENT
607 N KING ST APT 435
HONOLULU HI 96817-5756

RESIDENT
607 N KING ST APT 436
HONOLULU HI 96817-5756

RESIDENT
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HONOLULU HI 96817-5756

RESIDENT
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HONOLULU HI 96817-5756

RESIDENT
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HONOLULU HI 96817-5756

RESIDENT
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HONOLULU HI 96817-5726

RESIDENT
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HONOLULU HI 96817-5726

RESIDENT
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HONOLULU HI 96817-5726

RESIDENT
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HONOLULU HI 96817-5726

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HONOLULU HI 96817-5726

RESIDENT
607 N KING ST APT 445
HONOLULU HI 96817-5708

RESIDENT
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HONOLULU HI 96817-5708

RESIDENT
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HONOLULU HI 96817-5708

RESIDENT
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HONOLULU HI 96817-5708

RESIDENT
607 N KING ST APT 449
HONOLULU HI 96817-5708

RESIDENT
607 N KING ST APT 450
HONOLULU HI 96817-5757

RESIDENT
607 N KING ST APT 451
HONOLULU HI 96817-5757

RESIDENT
607 N KING ST APT 452
HONOLULU HI 96817-5757

RESIDENT
607 N KING ST APT 453
HONOLULU HI 96817-5757

RESIDENT
607 N KING ST APT 375
HONOLULU HI 96817-5751

RESIDENT
607 N KING ST APT 377
HONOLULU HI 96817-5751

RESIDENT
607 N KING ST APT 379
HONOLULU HI 96817-5751

RESIDENT
607 N KING ST APT 381
HONOLULU HI 96817-5750

RESIDENT
607 N KING ST APT 383
HONOLULU HI 96817-5750

RESIDENT
607 N KING ST APT 385
HONOLULU HI 96817-5750

RESIDENT
607 N KING ST APT 387
HONOLULU HI 96817-5750

RESIDENT
607 N KING ST APT 389
HONOLULU HI 96817-5750

RESIDENT
607 N KING ST APT 400
HONOLULU HI 96817-5749

RESIDENT
607 N KING ST APT 401
HONOLULU HI 96817-5749

RESIDENT
607 N KING ST APT 402
HONOLULU HI 96817-5749

RESIDENT
607 N KING ST APT 403
HONOLULU HI 96817-5755

RESIDENT
607 N KING ST APT 404
HONOLULU HI 96817-5755

RESIDENT
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HONOLULU HI 96817-5755

RESIDENT
607 N KING ST APT 407
HONOLULU HI 96817-5755

RESIDENT
607 N KING ST APT 408
HONOLULU HI 96817-5755

RESIDENT
607 N KING ST APT 409
HONOLULU HI 96817-5755

RESIDENT
607 N KING ST APT 410
HONOLULU HI 96817-5725

RESIDENT
607 N KING ST APT 411
HONOLULU HI 96817-5725

RESIDENT
607 N KING ST APT 412
HONOLULU HI 96817-5725

RESIDENT
607 N KING ST APT 413
HONOLULU HI 96817-5725

RESIDENT
607 N KING ST APT 414
HONOLULU HI 96817-5725

RESIDENT
607 N KING ST APT 415
HONOLULU HI 96817-5725

RESIDENT
607 N KING ST APT 416
HONOLULU HI 96817-5725

RESIDENT
607 N KING ST APT 417
HONOLULU HI 96817-5725

RESIDENT
607 N KING ST APT 418
HONOLULU HI 96817-5725

RESIDENT
607 N KING ST APT 419
HONOLULU HI 96817-5725

RESIDENT
607 N KING ST APT 420
HONOLULU HI 96817-5754

RESIDENT
607 N KING ST APT 421
HONOLULU HI 96817-5754

RESIDENT
607 N KING ST APT 422
HONOLULU HI 96817-5754

BUSINESS OCCUPANT
399 N KING ST
HONOLULU HI 96817-4702

BUSINESS OCCUPANT
403 N KING ST
HONOLULU HI 96817-4704

BUSINESS OCCUPANT
409 N KING ST
HONOLULU HI 96817-4704

BUSINESS OCCUPANT
411 N KING ST
HONOLULU HI 96817-4704

BUSINESS OCCUPANT
421 N KING ST
HONOLULU HI 96817-4704

BUSINESS OCCUPANT
423 N KING ST
HONOLULU HI 96817-4704

BUSINESS OCCUPANT
425 N KING ST
HONOLULU HI 96817-4704

BUSINESS OCCUPANT
355 N KING ST
HONOLULU HI 96817-4702

BUSINESS OCCUPANT
357 N KING ST
HONOLULU HI 96817-4702

BUSINESS OCCUPANT
333 N KING ST
HONOLULU HI 96817-4702

BUSINESS OCCUPANT
333 N KING ST STE 100
HONOLULU HI 96817-4707

BUSINESS OCCUPANT
333 N KING ST STE 100
HONOLULU HI 96817-4707

BUSINESS OCCUPANT
333 N KING ST STE 100
HONOLULU HI 96817-4707

BUSINESS OCCUPANT
333 N KING ST STE 100
HONOLULU HI 96817-4707

RESIDENT
1023 DESHA LN APT 1
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 6
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 7
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 8
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 9
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 10
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 11
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 12
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 13
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 14
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 15
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 16
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 18
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 19
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 20
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 21
HONOLULU HI 96817-4615

RESIDENT
407 N KING ST APT E3
HONOLULU HI 96817-4729

RESIDENT
407 N KING ST APT B1
HONOLULU HI 96817-4729

RESIDENT
407 N KING ST APT B2
HONOLULU HI 96817-4729

RESIDENT
407 N KING ST APT A3
HONOLULU HI 96817-4729

RESIDENT
407 N KING ST APT A2
HONOLULU HI 96817-4729

RESIDENT
407 N KING ST APT A1
HONOLULU HI 96817-4729

RESIDENT
407 N KING ST APT A4
HONOLULU HI 96817-4729

RESIDENT
417 N KING ST APT 22
HONOLULU HI 96817-4796

RESIDENT
417 N KING ST APT 24
HONOLULU HI 96817-4796

RESIDENT
417 N KING ST APT 21
HONOLULU HI 96817-4799

RESIDENT
417 N KING ST APT 23
HONOLULU HI 96817-4799

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417 N KING ST APT 25
HONOLULU HI 96817-4799

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417 N KING ST APT 27
HONOLULU HI 96817-4799

RESIDENT
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HONOLULU HI 96817-4799

RESIDENT
417 N KING ST APT 28
HONOLULU HI 96817-4792

RESIDENT
417 N KING ST APT 30
HONOLULU HI 96817-4792

RESIDENT
417 N KING ST APT 32
HONOLULU HI 96817-4792

RESIDENT
417 N KING ST APT 34
HONOLULU HI 96817-4792

RESIDENT
417 N KING ST APT 36
HONOLULU HI 96817-4792

RESIDENT
417 N KING ST APT 38
HONOLULU HI 96817-4792

RESIDENT
417 N KING ST APT 40
HONOLULU HI 96817-4792

RESIDENT
417 N KING ST APT 31
HONOLULU HI 96817-4769

RESIDENT
417 N KING ST APT 33
HONOLULU HI 96817-4769

RESIDENT
417 N KING ST APT 35
HONOLULU HI 96817-4769

RESIDENT
417 N KING ST APT 37
HONOLULU HI 96817-4769

RESIDENT
417 N KING ST APT 39
HONOLULU HI 96817-4769

RESIDENT
417 N KING ST APT 41
HONOLULU HI 96817-4769

RESIDENT
417 N KING ST APT 42
HONOLULU HI 96817-4769

BUSINESS OCCUPANT
395 N KING ST
HONOLULU HI 96817-4702

BUSINESS OCCUPANT
395 N KING ST STE 10
HONOLULU HI 96817-6712

BUSINESS OCCUPANT
525 N KING ST
HONOLULU HI 96817-4604

BUSINESS OCCUPANT
477 N KING ST
HONOLULU HI 96817-4704

BUSINESS OCCUPANT
445 N KING ST
HONOLULU HI 96817-4704

RESIDENT
419 N KING ST APT 2
HONOLULU HI 96817-4787

RESIDENT
419 N KING ST APT 4
HONOLULU HI 96817-4787

RESIDENT
419 N KING ST APT 6
HONOLULU HI 96817-4787

RESIDENT
419 N KING ST APT 8
HONOLULU HI 96817-4787

RESIDENT
419 N KING ST APT 10
HONOLULU HI 96817-4787

RESIDENT
419 N KING ST APT 12
HONOLULU HI 96817-4787

RESIDENT
419 N KING ST APT 1
HONOLULU HI 96817-4790

RESIDENT
419 N KING ST APT 3
HONOLULU HI 96817-4790

RESIDENT
419 N KING ST APT 5
HONOLULU HI 96817-4790

RESIDENT
419 N KING ST APT 7
HONOLULU HI 96817-4790

RESIDENT
419 N KING ST APT 9
HONOLULU HI 96817-4790

RESIDENT
419 N KING ST APT 11
HONOLULU HI 96817-4790

RESIDENT
419 N KING ST APT 13
HONOLULU HI 96817-4790

RESIDENT
419 N KING ST APT 14
HONOLULU HI 96817-4766

RESIDENT
419 N KING ST APT 16
HONOLULU HI 96817-4766

RESIDENT
419 N KING ST APT 18
HONOLULU HI 96817-4766

RESIDENT
419 N KING ST APT 20
HONOLULU HI 96817-4766

RESIDENT
419 N KING ST APT 17
HONOLULU HI 96817-4794

RESIDENT
419 N KING ST APT 19
HONOLULU HI 96817-4794

BUSINESS OCCUPANT
415 N KING ST
HONOLULU HI 96817-4704

RESIDENT
407 N KING ST APT F4
HONOLULU HI 96817-4729

RESIDENT
407 N KING ST APT F1
HONOLULU HI 96817-4729

RESIDENT
407 N KING ST APT F2
HONOLULU HI 96817-4729

RESIDENT
407 N KING ST APT F3
HONOLULU HI 96817-4729

RESIDENT
407 N KING ST APT E4
HONOLULU HI 96817-4729

RESIDENT
407 N KING ST APT E1
HONOLULU HI 96817-4729

RESIDENT
407 N KING ST APT E2
HONOLULU HI 96817-4729

RESIDENT
555 N KING ST APT B11
HONOLULU HI 96817-4600

RESIDENT
555 N KING ST APT B12
HONOLULU HI 96817-4600

BUSINESS OCCUPANT
555 N KING ST STE 109
HONOLULU HI 96817-4649

BUSINESS OCCUPANT
555 N KING ST STE 110
HONOLULU HI 96817-4649

BUSINESS OCCUPANT
555 N KING ST STE 111
HONOLULU HI 96817-4649

BUSINESS OCCUPANT
555 N KING ST STE 115
HONOLULU HI 96817-4649

BUSINESS OCCUPANT
555 N KING ST STE A
HONOLULU HI 96817-4649

BUSINESS OCCUPANT
555 N KING ST
HONOLULU HI 96817-4604

BUSINESS OCCUPANT
570 DILLINGHAM BLVD STE 100
HONOLULU HI 96817-6603

BUSINESS OCCUPANT
580 DILLINGHAM BLVD STE 1
HONOLULU HI 96817-4601

BUSINESS OCCUPANT
590 DILLINGHAM BLVD STE F
HONOLULU HI 96817-4692

BUSINESS OCCUPANT
590 DILLINGHAM BLVD STE B
HONOLULU HI 96817-4692

BUSINESS OCCUPANT
590 DILLINGHAM BLVD STE D
HONOLULU HI 96817-4692

BUSINESS OCCUPANT
590 DILLINGHAM BLVD STE E
HONOLULU HI 96817-4692

BUSINESS OCCUPANT
602 DILLINGHAM BLVD
HONOLULU HI 96817-4504

BUSINESS OCCUPANT
620 DILLINGHAM BLVD
HONOLULU HI 96817-4504

BUSINESS OCCUPANT
525 KAAAHI ST
HONOLULU HI 96817-4634

BUSINESS OCCUPANT
519 KAAAHI ST
HONOLULU HI 96817-4634

BUSINESS OCCUPANT
513 KAAAHI ST
HONOLULU HI 96817-4634

BUSINESS OCCUPANT
916 KAAAHI PL STE A
HONOLULU HI 96817-6604

BUSINESS OCCUPANT
916 KAAAHI PL STE A
HONOLULU HI 96817-6604

BUSINESS OCCUPANT
916 KAAAHI PL STE A
HONOLULU HI 96817-6604

BUSINESS OCCUPANT
914 KAAAHI PL STE B
HONOLULU HI 96817-4607

BUSINESS OCCUPANT
914 KAAAHI PL STE B
HONOLULU HI 96817-4607

BUSINESS OCCUPANT
914 KAAAHI PL STE B
HONOLULU HI 96817-4607

BUSINESS OCCUPANT
906 KAAAHI PL
HONOLULU HI 96817-4607

BUSINESS OCCUPANT
581 DILLINGHAM BLVD STE A
HONOLULU HI 96817-4602

BUSINESS OCCUPANT
581 DILLINGHAM BLVD STE B
HONOLULU HI 96817-4602

BUSINESS OCCUPANT
551 DILLINGHAM BLVD
HONOLULU HI 96817-4602

BUSINESS OCCUPANT
535 DILLINGHAM BLVD
HONOLULU HI 96817-4602

RESIDENT
380 N BERETANIA ST APT 204
HONOLULU HI 96817-4727

RESIDENT
380 N BERETANIA ST APT 205
HONOLULU HI 96817-4727

RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
380 N BERETANIA ST APT 301
HONOLULU HI 96817-4727

RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
380 N BERETANIA ST APT 306
HONOLULU HI 96817-4727

RESIDENT
402 N BERETANIA ST APT 101
HONOLULU HI 96817-4736

RESIDENT
402 N BERETANIA ST APT 102
HONOLULU HI 96817-4736

RESIDENT
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RESIDENT
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HONOLULU HI 96817-4730

RESIDENT
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HONOLULU HI 96817-4730

RESIDENT
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RESIDENT
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RESIDENT
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HONOLULU HI 96817-4730

RESIDENT
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HONOLULU HI 96817-4730

RESIDENT
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RESIDENT
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RESIDENT
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HONOLULU HI 96817-4730

RESIDENT
370 N BERETANIA ST APT 102
HONOLULU HI 96817-4732

RESIDENT
370 N BERETANIA ST APT 103
HONOLULU HI 96817-4732

RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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HONOLULU HI 96817-4726

RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
370 N BERETANIA ST APT 212
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RESIDENT
380 N BERETANIA ST APT 101
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RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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HONOLULU HI 96817-4743

RESIDENT
350 N BERETANIA ST APT 302
HONOLULU HI 96817-4720

RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
360 N BERETANIA ST APT 101
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RESIDENT
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HONOLULU HI 96817-4721

RESIDENT
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HONOLULU HI 96817-4721

RESIDENT
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HONOLULU HI 96817-4721

RESIDENT
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HONOLULU HI 96817-4725

RESIDENT
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HONOLULU HI 96817-4725

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HONOLULU HI 96817-4725

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RESIDENT
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RESIDENT
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HONOLULU HI 96817-4725

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HONOLULU HI 96817-4725

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HONOLULU HI 96817-4725

RESIDENT
360 N BERETANIA ST APT 209
HONOLULU HI 96817-4725

RESIDENT
360 N BERETANIA ST APT 210
HONOLULU HI 96817-4725

RESIDENT
360 N BERETANIA ST APT 211
HONOLULU HI 96817-4725

RESIDENT
360 N BERETANIA ST APT 212
HONOLULU HI 96817-6700

RESIDENT
370 N BERETANIA ST APT 101
HONOLULU HI 96817-4732

RESIDENT
1023 DESHA LN APT 22
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 23
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 24
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 26
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 27
HONOLULU HI 96817-4615

RESIDENT
1023 DESHA LN APT 28
HONOLULU HI 96817-4615

BUSINESS OCCUPANT
600 N KING ST
HONOLULU HI 96817-4508

BUSINESS OCCUPANT
624 N KING ST
HONOLULU HI 96817-4508

BUSINESS OCCUPANT
626 N KING ST
HONOLULU HI 96817-4508

BUSINESS OCCUPANT
628 N KING ST
HONOLULU HI 96817-4508

BUSINESS OCCUPANT
638 N KING ST
HONOLULU HI 96817-4508

BUSINESS OCCUPANT
666 N KING ST
HONOLULU HI 96817-4508

RESIDENT
350 N BERETANIA ST APT 101
HONOLULU HI 96817-4719

RESIDENT
350 N BERETANIA ST APT 102
HONOLULU HI 96817-4719

RESIDENT
350 N BERETANIA ST APT 103
HONOLULU HI 96817-4719

RESIDENT
350 N BERETANIA ST APT 104
HONOLULU HI 96817-4719

RESIDENT
350 N BERETANIA ST APT 105
HONOLULU HI 96817-4719

RESIDENT
350 N BERETANIA ST APT 106
HONOLULU HI 96817-4719

RESIDENT
350 N BERETANIA ST APT 107
HONOLULU HI 96817-4719

RESIDENT
350 N BERETANIA ST APT 109
HONOLULU HI 96817-4719

RESIDENT
350 N BERETANIA ST APT 201
HONOLULU HI 96817-4719

RESIDENT
350 N BERETANIA ST APT 202
HONOLULU HI 96817-4719

RESIDENT
350 N BERETANIA ST APT 203
HONOLULU HI 96817-4719

RESIDENT
350 N BERETANIA ST APT 204
HONOLULU HI 96817-4719

RESIDENT
350 N BERETANIA ST APT 205
HONOLULU HI 96817-4719

RESIDENT
350 N BERETANIA ST APT 206
HONOLULU HI 96817-4719

RESIDENT
350 N BERETANIA ST APT 207
HONOLULU HI 96817-4719

RESIDENT
350 N BERETANIA ST APT 208
HONOLULU HI 96817-4720

RESIDENT
350 N BERETANIA ST APT 209
HONOLULU HI 96817-4720

RESIDENT
350 N BERETANIA ST APT 301
HONOLULU HI 96817-4720

RESIDENT
918 HIKINA LN APT E
HONOLULU HI 96817-4538

RESIDENT
918 HIKINA LN APT F
HONOLULU HI 96817-4538

RESIDENT
915 HIKINA LN APT 1
HONOLULU HI 96817-4568

RESIDENT
915 HIKINA LN APT 2
HONOLULU HI 96817-4568

RESIDENT
915 HIKINA LN APT 3
HONOLULU HI 96817-4568

RESIDENT
915 HIKINA LN APT 4
HONOLULU HI 96817-4568

RESIDENT
915 HIKINA LN APT 5
HONOLULU HI 96817-4568

RESIDENT
915 HIKINA LN APT 6
HONOLULU HI 96817-4568

RESIDENT
915 HIKINA LN APT 7
HONOLULU HI 96817-4568

RESIDENT
915 HIKINA LN APT 8
HONOLULU HI 96817-4568

BUSINESS OCCUPANT
912 HIKINA LN STE A
HONOLULU HI 96817-5775

BUSINESS OCCUPANT
912 HIKINA LN STE B
HONOLULU HI 96817-5775

BUSINESS OCCUPANT
912 HIKINA LN
HONOLULU HI 96817-4536

BUSINESS OCCUPANT
904 HIKINA LN
HONOLULU HI 96817-4536

BUSINESS OCCUPANT
905 HIKINA LN STE 1
HONOLULU HI 96817-4537

BUSINESS OCCUPANT
905 HIKINA LN
HONOLULU HI 96817-4537

BUSINESS OCCUPANT
879 N KING ST
HONOLULU HI 96817-4514

BUSINESS OCCUPANT
938 AUSTIN LN STE I
HONOLULU HI 96817-4594

RESIDENT
938 AUSTIN LN APT G1
HONOLULU HI 96817-4574

RESIDENT
938 AUSTIN LN APT G2
HONOLULU HI 96817-4574

RESIDENT
938 AUSTIN LN APT G3
HONOLULU HI 96817-4574

RESIDENT
938 AUSTIN LN APT G4
HONOLULU HI 96817-4574

RESIDENT
938 AUSTIN LN APT G5
HONOLULU HI 96817-4574

RESIDENT
938 AUSTIN LN APT G6
HONOLULU HI 96817-4574

BUSINESS OCCUPANT
938 AUSTIN LN STE E
HONOLULU HI 96817-4594

BUSINESS OCCUPANT
938 AUSTIN LN
HONOLULU HI 96817-4532

BUSINESS OCCUPANT
938 AUSTIN LN STE 200
HONOLULU HI 96817-4574

BUSINESS OCCUPANT
930 AUSTIN LN
HONOLULU HI 96817-4532

BUSINESS OCCUPANT
938 AUSTIN LN STE 201
HONOLULU HI 96817-4574

BUSINESS OCCUPANT
930 AUSTIN LN STE D
HONOLULU HI 96817-4500

RESIDENT
931 HIKINA LN APT 1
HONOLULU HI 96817-4541

RESIDENT
931 HIKINA LN APT 2
HONOLULU HI 96817-4541

RESIDENT
931 HIKINA LN APT 3
HONOLULU HI 96817-4541

RESIDENT
931 HIKINA LN APT 4
HONOLULU HI 96817-4541

RESIDENT
931 HIKINA LN APT 5
HONOLULU HI 96817-4541

RESIDENT
931 HIKINA LN APT 6
HONOLULU HI 96817-4541

RESIDENT
931 HIKINA LN APT 7
HONOLULU HI 96817-4541

RESIDENT
931 HIKINA LN APT 8
HONOLULU HI 96817-4541

RESIDENT
931 HIKINA LN APT 9
HONOLULU HI 96817-4541

RESIDENT
931 HIKINA LN APT 10
HONOLULU HI 96817-4541

RESIDENT
905 EU LN
HONOLULU HI 96817-4535

RESIDENT
909 EU LN
HONOLULU HI 96817-4535

RESIDENT
911 EU LN
HONOLULU HI 96817-4535

RESIDENT
915 EU LN
HONOLULU HI 96817-4535

RESIDENT
915C EU LN
HONOLULU HI 96817-4535

RESIDENT
916D EU LN
HONOLULU HI 96817-4534

RESIDENT
916E EU LN
HONOLULU HI 96817-4534

RESIDENT
916A EU LN APT A
HONOLULU HI 96817-5796

RESIDENT
916A EU LN APT B
HONOLULU HI 96817-5796

BUSINESS OCCUPANT
923 HIKINA LN
HONOLULU HI 96817-4537

BUSINESS OCCUPANT
924 HIKINA LN
HONOLULU HI 96817-4536

BUSINESS OCCUPANT
923 HIKINA LN STE A
HONOLULU HI 96817-4537

RESIDENT
918 HIKINA LN APT 1
HONOLULU HI 96817-4538

RESIDENT
918 HIKINA LN APT 2
HONOLULU HI 96817-4538

RESIDENT
918 HIKINA LN APT 3
HONOLULU HI 96817-4538

RESIDENT
918 HIKINA LN APT 4
HONOLULU HI 96817-4538

RESIDENT
918 HIKINA LN APT A
HONOLULU HI 96817-4538

RESIDENT
918 HIKINA LN APT B
HONOLULU HI 96817-4538

RESIDENT
918 HIKINA LN APT C
HONOLULU HI 96817-4538

RESIDENT
918 HIKINA LN APT D
HONOLULU HI 96817-4538

BUSINESS OCCUPANT
951 N KING ST
HONOLULU HI 96817-4552

BUSINESS OCCUPANT
933 N KING ST
HONOLULU HI 96817-4552

BUSINESS OCCUPANT
931 N KING ST
HONOLULU HI 96817-4552

BUSINESS OCCUPANT
927 N KING ST
HONOLULU HI 96817-4552

BUSINESS OCCUPANT
925 N KING ST STE 2
HONOLULU HI 96817-5792

BUSINESS OCCUPANT
881 N KING ST
HONOLULU HI 96817-4554

RESIDENT
940 HIKINA LN APT A
HONOLULU HI 96817-4542

RESIDENT
940 HIKINA LN APT B
HONOLULU HI 96817-4542

RESIDENT
940 HIKINA LN APT C
HONOLULU HI 96817-4542

RESIDENT
940 HIKINA LN APT D
HONOLULU HI 96817-4542

RESIDENT
940 HIKINA LN APT E
HONOLULU HI 96817-4542

RESIDENT
940 HIKINA LN APT F
HONOLULU HI 96817-4542

RESIDENT
940 HIKINA LN APT G
HONOLULU HI 96817-4542

RESIDENT
940 HIKINA LN APT H
HONOLULU HI 96817-4542

RESIDENT
940 HIKINA LN APT I
HONOLULU HI 96817-4542

RESIDENT
905 AKAU LN APT B
HONOLULU HI 96817-4531

RESIDENT
905 AKAU LN
HONOLULU HI 96817-4531

RESIDENT
909 AKAU LN
HONOLULU HI 96817-4531

RESIDENT
915 AKAU LN
HONOLULU HI 96817-4531

RESIDENT
915 AKAU LN
HONOLULU HI 96817-4531

RESIDENT
915 AKAU LN
HONOLULU HI 96817-4531

RESIDENT
915 AKAU LN
HONOLULU HI 96817-4531

RESIDENT
915 AKAU LN
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RESIDENT
915 AKAU LN
HONOLULU HI 96817-4531

RESIDENT
915 AKAU LN
HONOLULU HI 96817-4531

RESIDENT
915 AKAU LN
HONOLULU HI 96817-4531

RESIDENT
915 AKAU LN
HONOLULU HI 96817-4531

RESIDENT
915 AKAU LN
HONOLULU HI 96817-4531

RESIDENT
919 AKAU LN
HONOLULU HI 96817-4531

RESIDENT
921 AKAU LN
HONOLULU HI 96817-4531

RESIDENT
402 N BERETANIA ST APT 210
HONOLULU HI 96817-4730

RESIDENT
402 N BERETANIA ST APT 211
HONOLULU HI 96817-4730

RESIDENT
402 N BERETANIA ST APT 212
HONOLULU HI 96817-4737

RESIDENT
404 N BERETANIA ST APT 101
HONOLULU HI 96817-4731

RESIDENT
404 N BERETANIA ST APT 102
HONOLULU HI 96817-4731

RESIDENT
404 N BERETANIA ST APT 103
HONOLULU HI 96817-4731

RESIDENT
404 N BERETANIA ST APT 104
HONOLULU HI 96817-4731

RESIDENT
404 N BERETANIA ST APT 105
HONOLULU HI 96817-4731

RESIDENT
404 N BERETANIA ST APT 106
HONOLULU HI 96817-4731

RESIDENT
404 N BERETANIA ST APT 108
HONOLULU HI 96817-4731

RESIDENT
404 N BERETANIA ST APT 109
HONOLULU HI 96817-4731

RESIDENT
404 N BERETANIA ST APT 201
HONOLULU HI 96817-4731

RESIDENT
404 N BERETANIA ST APT 202
HONOLULU HI 96817-4731

RESIDENT
404 N BERETANIA ST APT 203
HONOLULU HI 96817-4731

RESIDENT
404 N BERETANIA ST APT 204
HONOLULU HI 96817-4731

RESIDENT
404 N BERETANIA ST APT 205
HONOLULU HI 96817-4731

RESIDENT
404 N BERETANIA ST APT 206
HONOLULU HI 96817-4731

RESIDENT
404 N BERETANIA ST APT 207
HONOLULU HI 96817-4741

RESIDENT
404 N BERETANIA ST APT 208
HONOLULU HI 96817-4741

RESIDENT
404 N BERETANIA ST APT 209
HONOLULU HI 96817-4741

RESIDENT
404 N BERETANIA ST APT 210
HONOLULU HI 96817-4741

RESIDENT
404 N BERETANIA ST APT 211
HONOLULU HI 96817-4741

RESIDENT
404 N BERETANIA ST APT 212
HONOLULU HI 96817-4741

BUSINESS OCCUPANT
1023 N KING ST
HONOLULU HI 96817-4516

RESIDENT
1023 N KING ST APT B
HONOLULU HI 96817-4524

BUSINESS OCCUPANT
1017 N KING ST
HONOLULU HI 96817-4516

BUSINESS OCCUPANT
1013 N KING ST STE B
HONOLULU HI 96817-4550

BUSINESS OCCUPANT
1013 N KING ST STE A
HONOLULU HI 96817-4550

BUSINESS OCCUPANT
1001 N KING ST STE A
HONOLULU HI 96817-5793

BUSINESS OCCUPANT
1001 N KING ST STE B
HONOLULU HI 96817-5793

BUSINESS OCCUPANT
961 ROBELLO LN
HONOLULU HI 96817-4546

BUSINESS OCCUPANT
999 ROBELLO LN
HONOLULU HI 96817-4546

BUSINESS OCCUPANT
717 N KING ST STE B
HONOLULU HI 96817-6500

BUSINESS OCCUPANT
720 N KING ST
HONOLULU HI 96817-4511

RESIDENT
1115 BANYAN ST APT B
HONOLULU HI 96817-3429

RESIDENT
1119C BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1119 BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1121D BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1127B BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1127 BANYAN ST
HONOLULU HI 96817-3427

BUSINESS OCCUPANT
979 ROBELLO LN STE A
HONOLULU HI 96817-5768

BUSINESS OCCUPANT
719 N KING ST STE A
HONOLULU HI 96817-4502

BUSINESS OCCUPANT
717 N KING ST
HONOLULU HI 96817-4502

BUSINESS OCCUPANT
766 N KING ST
HONOLULU HI 96817-4559

RESIDENT
1115 BANYAN ST APT A
HONOLULU HI 96817-3429

RESIDENT
1119B BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1121 BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1121A BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1127C BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1131A BANYAN ST
HONOLULU HI 96817-3427

BUSINESS OCCUPANT
979 ROBELLO LN STE C
HONOLULU HI 96817-5768

BUSINESS OCCUPANT
717 N KING ST STE A
HONOLULU HI 96817-6500

BUSINESS OCCUPANT
701 N KING ST
HONOLULU HI 96817-4502

RESIDENT
1115 BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1115 BANYAN ST APT C
HONOLULU HI 96817-3429

RESIDENT
1119A BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1121C BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1121B BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1127D BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1131B BANYAN ST
HONOLULU HI 96817-3427

BUSINESS OCCUPANT
961 ROBELLO LN
HONOLULU HI 96817-4546

RESIDENT
750 KANOA ST APT 304
HONOLULU HI 96817-3435

RESIDENT
750 KANOA ST APT 305
HONOLULU HI 96817-3435

RESIDENT
750 KANOA ST APT 306
HONOLULU HI 96817-3435

RESIDENT
750 KANOA ST APT 307
HONOLULU HI 96817-3435

RESIDENT
750 KANOA ST APT 308
HONOLULU HI 96817-3435

RESIDENT
750 KANOA ST APT 401
HONOLULU HI 96817-3436

RESIDENT
750 KANOA ST APT 204
HONOLULU HI 96817-3434

RESIDENT
750 KANOA ST APT 205
HONOLULU HI 96817-3434

RESIDENT
750 KANOA ST APT 206
HONOLULU HI 96817-3434

RESIDENT
750 KANOA ST APT 207
HONOLULU HI 96817-3434

RESIDENT
750 KANOA ST APT 208
HONOLULU HI 96817-3434

RESIDENT
750 KANOA ST APT 301
HONOLULU HI 96817-3434

RESIDENT
750 KANOA ST APT 302
HONOLULU HI 96817-3434

RESIDENT
750 KANOA ST APT 402
HONOLULU HI 96817-3436

RESIDENT
750 KANOA ST APT 403
HONOLULU HI 96817-3436

RESIDENT
750 KANOA ST APT 404
HONOLULU HI 96817-3436

RESIDENT
750 KANOA ST APT 405
HONOLULU HI 96817-3436

RESIDENT
750 KANOA ST APT 406
HONOLULU HI 96817-3436

RESIDENT
750 KANOA ST APT 408
HONOLULU HI 96817-3436

RESIDENT
1203 PALAMA ST APT A
HONOLULU HI 96817-3450

RESIDENT
1203 PALAMA ST APT A
HONOLULU HI 96817-3450

RESIDENT
1213 PALAMA ST APT C
HONOLULU HI 96817-3496

RESIDENT
1207 PALAMA ST
HONOLULU HI 96817-3450

RESIDENT
1207 PALAMA ST
HONOLULU HI 96817-3450

RESIDENT
1207 PALAMA ST
HONOLULU HI 96817-3450

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1207 PALAMA ST
HONOLULU HI 96817-3450

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1207 PALAMA ST
HONOLULU HI 96817-3450

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1207 PALAMA ST
HONOLULU HI 96817-3450

RESIDENT
1207 PALAMA ST
HONOLULU HI 96817-3450

RESIDENT
1207 PALAMA ST
HONOLULU HI 96817-3450

RESIDENT
1122 BANYAN ST APT 415
HONOLULU HI 96817-3472

RESIDENT
1122 BANYAN ST APT 416
HONOLULU HI 96817-3472

RESIDENT
1122 BANYAN ST APT 417
HONOLULU HI 96817-3472

RESIDENT
1110 BANYAN ST APT 101
HONOLULU HI 96817-3428

RESIDENT
1110 BANYAN ST APT 102
HONOLULU HI 96817-3428

RESIDENT
1110 BANYAN ST APT 103
HONOLULU HI 96817-3428

RESIDENT
1110 BANYAN ST APT 104
HONOLULU HI 96817-3428

RESIDENT
1110 BANYAN ST APT 105
HONOLULU HI 96817-3428

RESIDENT
1110 BANYAN ST APT 201
HONOLULU HI 96817-3428

RESIDENT
1110 BANYAN ST APT 202
HONOLULU HI 96817-3428

RESIDENT
1110 BANYAN ST APT 203
HONOLULU HI 96817-3428

RESIDENT
1110 BANYAN ST APT 204
HONOLULU HI 96817-3428

RESIDENT
1110 BANYAN ST APT 205
HONOLULU HI 96817-3428

RESIDENT
1110 BANYAN ST APT 301
HONOLULU HI 96817-3430

RESIDENT
1110 BANYAN ST APT 302
HONOLULU HI 96817-3430

RESIDENT
1110 BANYAN ST APT 303
HONOLULU HI 96817-3430

RESIDENT
1110 BANYAN ST APT 304
HONOLULU HI 96817-3430

RESIDENT
1110 BANYAN ST APT 401
HONOLULU HI 96817-3430

RESIDENT
1110 BANYAN ST APT 402
HONOLULU HI 96817-3430

RESIDENT
1110 BANYAN ST APT 403
HONOLULU HI 96817-3430

RESIDENT
1110 BANYAN ST APT 404
HONOLULU HI 96817-3430

RESIDENT
1110 BANYAN ST APT 405
HONOLULU HI 96817-3430

RESIDENT
750 KANOA ST APT 101
HONOLULU HI 96817-3433

RESIDENT
750 KANOA ST APT 102
HONOLULU HI 96817-3433

RESIDENT
750 KANOA ST APT 103
HONOLULU HI 96817-3433

RESIDENT
750 KANOA ST APT 104
HONOLULU HI 96817-3433

RESIDENT
750 KANOA ST APT 201
HONOLULU HI 96817-3433

RESIDENT
750 KANOA ST APT 202
HONOLULU HI 96817-3433

RESIDENT
750 KANOA ST APT 203
HONOLULU HI 96817-3433

RESIDENT
750 KANOA ST APT 303
HONOLULU HI 96817-3435

RESIDENT
1122 BANYAN ST APT 303
HONOLULU HI 96817-3471

RESIDENT
1122 BANYAN ST APT 304
HONOLULU HI 96817-3471

RESIDENT
1122 BANYAN ST APT 305
HONOLULU HI 96817-3471

RESIDENT
1122 BANYAN ST APT 306
HONOLULU HI 96817-3471

RESIDENT
1122 BANYAN ST APT 307
HONOLULU HI 96817-3471

RESIDENT
1122 BANYAN ST APT 308
HONOLULU HI 96817-3471

RESIDENT
1122 BANYAN ST APT 309
HONOLULU HI 96817-3471

RESIDENT
1122 BANYAN ST APT 310
HONOLULU HI 96817-3471

RESIDENT
1122 BANYAN ST APT 311
HONOLULU HI 96817-3471

RESIDENT
1122 BANYAN ST APT 312
HONOLULU HI 96817-3471

RESIDENT
1122 BANYAN ST APT 313
HONOLULU HI 96817-3471

RESIDENT
1122 BANYAN ST APT 314
HONOLULU HI 96817-3471

RESIDENT
1122 BANYAN ST APT 315
HONOLULU HI 96817-3471

RESIDENT
1122 BANYAN ST APT 316
HONOLULU HI 96817-3471

RESIDENT
1122 BANYAN ST APT 317
HONOLULU HI 96817-3471

RESIDENT
1122 BANYAN ST APT 400
HONOLULU HI 96817-3472

RESIDENT
1122 BANYAN ST APT 401
HONOLULU HI 96817-3472

RESIDENT
1122 BANYAN ST APT 402
HONOLULU HI 96817-3472

RESIDENT
1122 BANYAN ST APT 403
HONOLULU HI 96817-3472

RESIDENT
1122 BANYAN ST APT 404
HONOLULU HI 96817-3472

RESIDENT
1122 BANYAN ST APT 405
HONOLULU HI 96817-3472

RESIDENT
1122 BANYAN ST APT 406
HONOLULU HI 96817-3472

RESIDENT
1122 BANYAN ST APT 407
HONOLULU HI 96817-3472

RESIDENT
1122 BANYAN ST APT 408
HONOLULU HI 96817-3472

RESIDENT
1122 BANYAN ST APT 409
HONOLULU HI 96817-3472

RESIDENT
1122 BANYAN ST APT 410
HONOLULU HI 96817-3472

RESIDENT
1122 BANYAN ST APT 411
HONOLULU HI 96817-3472

RESIDENT
1122 BANYAN ST APT 412
HONOLULU HI 96817-3472

RESIDENT
1122 BANYAN ST APT 413
HONOLULU HI 96817-3472

RESIDENT
1122 BANYAN ST APT 414
HONOLULU HI 96817-3472

RESIDENT
1131C BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1131D BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1155A BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1155B BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1155C BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1155D BANYAN ST
HONOLULU HI 96817-3427

RESIDENT
1155 BANYAN ST
HONOLULU HI 96817-3427

BUSINESS OCCUPANT
1128 BANYAN ST
HONOLULU HI 96817-3426

RESIDENT
1122 BANYAN ST APT 100
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 200
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 201
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 202
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 203
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 204
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 205
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 206
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 207
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 208
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 209
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 210
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 211
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 212
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 213
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 214
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 215
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 216
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 217
HONOLULU HI 96817-3402

RESIDENT
1122 BANYAN ST APT 300
HONOLULU HI 96817-3471

RESIDENT
1122 BANYAN ST APT 301
HONOLULU HI 96817-3471

RESIDENT
1122 BANYAN ST APT 302
HONOLULU HI 96817-3471

RESIDENT
1118 AUSTIN LN
HONOLULU HI 96817-3424

RESIDENT
1114 AUSTIN LN
HONOLULU HI 96817-3424

RESIDENT
1110 AUSTIN LN
HONOLULU HI 96817-3424

RESIDENT
1106 AUSTIN LN
HONOLULU HI 96817-3424

RESIDENT
1104 AUSTIN LN
HONOLULU HI 96817-3424

RESIDENT
828B KANOA ST
HONOLULU HI 96817-3439

RESIDENT
828C KANOA ST
HONOLULU HI 96817-3439

RESIDENT
828D KANOA ST
HONOLULU HI 96817-3439

RESIDENT
828A KANOA ST
HONOLULU HI 96817-3439

RESIDENT
836 KANOA ST
HONOLULU HI 96817-3439

RESIDENT
838 KANOA ST
HONOLULU HI 96817-3439

RESIDENT
846 KANOA ST APT 1
HONOLULU HI 96817-3442

RESIDENT
846 KANOA ST APT 3
HONOLULU HI 96817-3442

RESIDENT
846 KANOA ST APT 4
HONOLULU HI 96817-3442

RESIDENT
846 KANOA ST APT 5
HONOLULU HI 96817-3442

RESIDENT
846 KANOA ST APT 6
HONOLULU HI 96817-3442

RESIDENT
846 KANOA ST APT A
HONOLULU HI 96817-3442

RESIDENT
846 KANOA ST APT B
HONOLULU HI 96817-3441

RESIDENT
846 KANOA ST APT C
HONOLULU HI 96817-3441

RESIDENT
846 KANOA ST APT D
HONOLULU HI 96817-3441

RESIDENT
846 KANOA ST APT E
HONOLULU HI 96817-3441

RESIDENT
846 KANOA ST APT F
HONOLULU HI 96817-3441

RESIDENT
846 KANOA ST APT G
HONOLULU HI 96817-3441

RESIDENT
846 KANOA ST APT H
HONOLULU HI 96817-3441

RESIDENT
1112 PETERSON LN
HONOLULU HI 96817-3454

RESIDENT
1112 PETERSON LN APT A
HONOLULU HI 96817-3454

RESIDENT
1112 PETERSON LN APT A
HONOLULU HI 96817-3454

RESIDENT
1114 PETERSON LN
HONOLULU HI 96817-3454

RESIDENT
1114 PETERSON LN
HONOLULU HI 96817-3454

RESIDENT
1114 PETERSON LN APT A
HONOLULU HI 96817-3454

RESIDENT
1131 AUSTIN LN
HONOLULU HI 96817-3425

RESIDENT
1137 AUSTIN LN
HONOLULU HI 96817-3425

RESIDENT
815 LOPEZ LN
HONOLULU HI 96817-3446

RESIDENT
811 LOPEZ LN
HONOLULU HI 96817-3446

RESIDENT
808 LOPEZ LN
HONOLULU HI 96817-3445

RESIDENT
808A LOPEZ LN
HONOLULU HI 96817-3445

RESIDENT
816 LOPEZ LN
HONOLULU HI 96817-3445

RESIDENT
816 LOPEZ LN
HONOLULU HI 96817-3445

RESIDENT
816 LOPEZ LN
HONOLULU HI 96817-3445

RESIDENT
816 LOPEZ LN
HONOLULU HI 96817-3445

RESIDENT
824A LOPEZ LN
HONOLULU HI 96817-3445

RESIDENT
824C LOPEZ LN
HONOLULU HI 96817-3445

RESIDENT
824 LOPEZ LN
HONOLULU HI 96817-3445

RESIDENT
850 LOPEZ LN
HONOLULU HI 96817-3445

RESIDENT
850 LOPEZ LN
HONOLULU HI 96817-3445

RESIDENT
852 LOPEZ LN
HONOLULU HI 96817-3445

RESIDENT
815C LOPEZ LN
HONOLULU HI 96817-3446

RESIDENT
815D LOPEZ LN
HONOLULU HI 96817-3446

RESIDENT
815E LOPEZ LN
HONOLULU HI 96817-3446

RESIDENT
815F LOPEZ LN
HONOLULU HI 96817-3446

RESIDENT
815G LOPEZ LN
HONOLULU HI 96817-3446

RESIDENT
815H LOPEZ LN
HONOLULU HI 96817-3446

RESIDENT
815I LOPEZ LN
HONOLULU HI 96817-3446

RESIDENT
815 LOPEZ LN APT D1
HONOLULU HI 96817-5504

RESIDENT
815 LOPEZ LN APT E1
HONOLULU HI 96817-5504

RESIDENT
815 LOPEZ LN APT F1
HONOLULU HI 96817-5504

RESIDENT
815 LOPEZ LN APT G1
HONOLULU HI 96817-5504

RESIDENT
815 LOPEZ LN APT H1
HONOLULU HI 96817-5502

RESIDENT
815 LOPEZ LN APT I1
HONOLULU HI 96817-5504

RESIDENT
1120 AUSTIN LN
HONOLULU HI 96817-3424

BUSINESS OCCUPANT
930 N KING ST
HONOLULU HI 96817-4543

BUSINESS OCCUPANT
952 N KING ST
HONOLULU HI 96817-4556

BUSINESS OCCUPANT
1010 N KING ST
HONOLULU HI 96817-4515

RESIDENT
1007 PETERSON LN APT 1
HONOLULU HI 96817-5505

RESIDENT
1007 PETERSON LN APT 4
HONOLULU HI 96817-5505

RESIDENT
1007 PETERSON LN APT 3
HONOLULU HI 96817-5505

RESIDENT
1007 PETERSON LN APT 2
HONOLULU HI 96817-5505

RESIDENT
1017 PETERSON LN
HONOLULU HI 96817-3453

RESIDENT
857 KANOA ST
HONOLULU HI 96817-3440

RESIDENT
819 KANOA ST
HONOLULU HI 96817-3438

RESIDENT
815A KANOA ST
HONOLULU HI 96817-3438

RESIDENT
815 KANOA ST
HONOLULU HI 96817-3438

RESIDENT
809 KANOA ST
HONOLULU HI 96817-3438

RESIDENT
805 KANOA ST
HONOLULU HI 96817-3438

RESIDENT
801 KANOA ST
HONOLULU HI 96817-3438

BUSINESS OCCUPANT
1104 PALAMA ST
HONOLULU HI 96817-3448

RESIDENT
1104 PALAMA ST APT A
HONOLULU HI 96817-3448

RESIDENT
1104 PALAMA ST APT B
HONOLULU HI 96817-3448

RESIDENT
1104 PALAMA ST APT B
HONOLULU HI 96817-3448

RESIDENT
810 KANOA ST
HONOLULU HI 96817-3437

RESIDENT
810B KANOA ST
HONOLULU HI 96817-3437

RESIDENT
814 KANOA ST
HONOLULU HI 96817-3437

RESIDENT
814 KANOA ST APT A1
HONOLULU HI 96817-3495

RESIDENT
814 KANOA ST APT A2
HONOLULU HI 96817-3495

RESIDENT
814 KANOA ST APT B1
HONOLULU HI 96817-3495

RESIDENT
814 KANOA ST APT B2
HONOLULU HI 96817-3495

RESIDENT
814C KANOA ST
HONOLULU HI 96817-3437

RESIDENT
1125 AUSTIN LN
HONOLULU HI 96817-3425

RESIDENT
1127 AUSTIN LN
HONOLULU HI 96817-3425

RESIDENT
1129 AUSTIN LN
HONOLULU HI 96817-3425

RESIDENT
1207 PALAMA ST
HONOLULU HI 96817-3450

RESIDENT
1207 PALAMA ST
HONOLULU HI 96817-3450

RESIDENT
1213 PALAMA ST
HONOLULU HI 96817-3450

RESIDENT
1213 PALAMA ST APT A
HONOLULU HI 96817-3496

RESIDENT
1213 PALAMA ST APT B
HONOLULU HI 96817-3496

RESIDENT
1240 PALAMA ST
HONOLULU HI 96817-3449

RESIDENT
1218 PALAMA ST
HONOLULU HI 96817-3449

RESIDENT
1218 PALAMA ST APT A
HONOLULU HI 96817-6428

RESIDENT
1214 PALAMA ST
HONOLULU HI 96817-3449

RESIDENT
1214 PALAMA ST APT A
HONOLULU HI 96817-6427

RESIDENT
1210 PALAMA ST APT A
HONOLULU HI 96817-3493

RESIDENT
1210 PALAMA ST APT A
HONOLULU HI 96817-3493

RESIDENT
1210 PALAMA ST APT C
HONOLULU HI 96817-3493

RESIDENT
1124 PALAMA ST
HONOLULU HI 96817-3448

RESIDENT
1120 PALAMA ST
HONOLULU HI 96817-3448

RESIDENT
1118 PALAMA ST
HONOLULU HI 96817-3448

RESIDENT
1110 PALAMA ST
HONOLULU HI 96817-3448

RESIDENT
1012 PALAMA ST
HONOLULU HI 96817-3469

BUSINESS OCCUPANT
802 N KING ST
HONOLULU HI 96817-4513

RESIDENT
842 N KING ST
HONOLULU HI 96817-4513

BUSINESS OCCUPANT
844 N KING ST
HONOLULU HI 96817-4513

BUSINESS OCCUPANT
850 N KING ST
HONOLULU HI 96817-4513

RESIDENT
1007 AUSTIN LN
HONOLULU HI 96817-3423

RESIDENT
1007 AUSTIN LN
HONOLULU HI 96817-3423

RESIDENT
1007 AUSTIN LN
HONOLULU HI 96817-3423

RESIDENT
1007 AUSTIN LN
HONOLULU HI 96817-3423

RESIDENT
1007 AUSTIN LN
HONOLULU HI 96817-3423

RESIDENT
1007 AUSTIN LN
HONOLULU HI 96817-3423

RESIDENT
1015 AUSTIN LN
HONOLULU HI 96817-3423

BUSINESS OCCUPANT
888 N KING ST
HONOLULU HI 96817-4553

RESIDENT
1102 DESHA LN APT H
HONOLULU HI 96817-4614

RESIDENT
1102 DESHA LN APT G
HONOLULU HI 96817-4614

RESIDENT
1102 DESHA LN APT F
HONOLULU HI 96817-4614

RESIDENT
1102 DESHA LN APT L
HONOLULU HI 96817-4614

RESIDENT
1102 DESHA LN APT K
HONOLULU HI 96817-4614

RESIDENT
1102 DESHA LN APT J
HONOLULU HI 96817-4614

RESIDENT
1105 DESHA LN APT B
HONOLULU HI 96817-4671

RESIDENT
1105 DESHA LN APT A
HONOLULU HI 96817-4671

RESIDENT
1102 DESHA LN APT M
HONOLULU HI 96817-4614

RESIDENT
1105 DESHA LN APT E
HONOLULU HI 96817-4616

RESIDENT
1105 DESHA LN APT D
HONOLULU HI 96817-4671

RESIDENT
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HONOLULU HI 96817-4671

RESIDENT
1105 DESHA LN APT H
HONOLULU HI 96817-4616

RESIDENT
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HONOLULU HI 96817-4616

RESIDENT
1105 DESHA LN APT F
HONOLULU HI 96817-4616

RESIDENT
1105 DESHA LN APT L
HONOLULU HI 96817-4616

RESIDENT
1105 DESHA LN APT K
HONOLULU HI 96817-4616

RESIDENT
1105 DESHA LN APT J
HONOLULU HI 96817-4616

RESIDENT
1120 DESHA LN APT B
HONOLULU HI 96817-4618

RESIDENT
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HONOLULU HI 96817-4618

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1105 DESHA LN APT M
HONOLULU HI 96817-4616

RESIDENT
1120 DESHA LN APT E
HONOLULU HI 96817-4618

RESIDENT
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HONOLULU HI 96817-4618

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1120 DESHA LN APT L
HONOLULU HI 96817-4678

RESIDENT
1120 DESHA LN APT K
HONOLULU HI 96817-4678

RESIDENT
1120 DESHA LN APT J
HONOLULU HI 96817-4678

RESIDENT
1122 PETERSON LN APT A
HONOLULU HI 96817-3454

RESIDENT
1122 PETERSON LN
HONOLULU HI 96817-3454

RESIDENT
1118 PETERSON LN
HONOLULU HI 96817-3454

RESIDENT
1207 PETERSON LN APT A
HONOLULU HI 96817-3456

RESIDENT
1207 PETERSON LN APT A
HONOLULU HI 96817-3456

RESIDENT
1203 PETERSON LN
HONOLULU HI 96817-3456

RESIDENT
1206 PETERSON LN
HONOLULU HI 96817-3455

RESIDENT
1207 PETERSON LN APT A
HONOLULU HI 96817-3456

RESIDENT
1207 PETERSON LN APT A
HONOLULU HI 96817-3456

RESIDENT
1208 PETERSON LN
HONOLULU HI 96817-3455

RESIDENT
1211 PETERSON LN APT A
HONOLULU HI 96817-6429

RESIDENT
1210 PETERSON LN
HONOLULU HI 96817-3455

RESIDENT
1211 PETERSON LN APT B
HONOLULU HI 96817-6429

RESIDENT
1216 PETERSON LN
HONOLULU HI 96817-3455

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1211 PETERSON LN
HONOLULU HI 96817-3456

RESIDENT
1216 PETERSON LN APT A
HONOLULU HI 96817-3455

RESIDENT
1219 PETERSON LN
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RESIDENT
1216 PETERSON LN
HONOLULU HI 96817-3455

RESIDENT
1220 PETERSON LN
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RESIDENT
1220 PETERSON LN
HONOLULU HI 96817-3455

RESIDENT
1226 PETERSON LN
HONOLULU HI 96817-3455

RESIDENT
835 LAKIMELA LN APT A
HONOLULU HI 96817-6430

RESIDENT
834 LAKIMELA LN
HONOLULU HI 96817-3443

RESIDENT
835 LAKIMELA LN APT B
HONOLULU HI 96817-6430

RESIDENT
832 LAKIMELA LN
HONOLULU HI 96817-3443

RESIDENT
829 LAKIMELA LN APT C
HONOLULU HI 96817-3498

RESIDENT
829 LAKIMELA LN APT B
HONOLULU HI 96817-3498

RESIDENT
829 LAKIMELA LN APT A
HONOLULU HI 96817-3498

RESIDENT
829 LAKIMELA LN APT F
HONOLULU HI 96817-3498

RESIDENT
829 LAKIMELA LN APT E
HONOLULU HI 96817-3498

RESIDENT
829 LAKIMELA LN APT I
HONOLULU HI 96817-3422

RESIDENT
829 LAKIMELA LN APT H
HONOLULU HI 96817-3422

RESIDENT
829 LAKIMELA LN APT L
HONOLULU HI 96817-3422

RESIDENT
829 LAKIMELA LN APT K
HONOLULU HI 96817-3422

RESIDENT
829 LAKIMELA LN APT J
HONOLULU HI 96817-3422

RESIDENT
829 LAKIMELA LN APT G
HONOLULU HI 96817-3422

RESIDENT
829 LAKIMELA LN APT D
HONOLULU HI 96817-3498

RESIDENT
828 LAKIMELA LN
HONOLULU HI 96817-3443

RESIDENT
824 LAKIMELA LN
HONOLULU HI 96817-3444

RESIDENT
817 LAKIMELA LN
HONOLULU HI 96817-3444

RESIDENT
823 LAKIMELA LN APT B
HONOLULU HI 96817-6429

RESIDENT
823 LAKIMELA LN APT A
HONOLULU HI 96817-6431

RESIDENT
823 LAKIMELA LN
HONOLULU HI 96817-3444

RESIDENT
817 LAKIMELA LN APT A
HONOLULU HI 96817-3444

RESIDENT
811 LAKIMELA LN APT D
HONOLULU HI 96817-5507

RESIDENT
823 LAKIMELA LN APT B
HONOLULU HI 96817-6431

RESIDENT
811 LAKIMELA LN APT E
HONOLULU HI 96817-5507

RESIDENT
811 LAKIMELA LN APT C
HONOLULU HI 96817-5507

RESIDENT
811 LAKIMELA LN APT A
HONOLULU HI 96817-5507

RESIDENT
814 LAKIMELA LN
HONOLULU HI 96817-3443

RESIDENT
811 LAKIMELA LN
HONOLULU HI 96817-3444

RESIDENT
820 LAKIMELA LN
HONOLULU HI 96817-3443

RESIDENT
1102 DESHA LN APT A
HONOLULU HI 96817-4614

RESIDENT
1102 DESHA LN APT B
HONOLULU HI 96817-4614

RESIDENT
1102 DESHA LN APT C
HONOLULU HI 96817-4614

RESIDENT
1102 DESHA LN APT D
HONOLULU HI 96817-4614

RESIDENT
1102 DESHA LN APT E
HONOLULU HI 96817-4614

UNITED STATES POSTAL SERVICE®

Certificate of Mailing — Firm

Name and Address of Sender

PBR HAWAII & ASSOCIATES, INC.
1001 BISHOP STREET, SUITE 650
HONOLULU HI 96813-3484

TOTAL NO. of Pieces Listed by Sender: 974

TOTAL NO. of Pieces Received at Post Office™: 974

Postmaster, per *(name of receiving employee)*

Affix Stamp Here
Postmark with Date of Receipt.

POSTMARK: HONOLULU HI 96813-USPS FEB 18 2020

PITNEY BOWES US POSTAGE
Correction
02 1P $ 418.82⁰
0001208961 FEB 18 2020
MAILED FROM ZIP CODE 96813

USPS® Tracking Number / Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1. SEE ON NEXT PAGE					
2.					
3.					
4.					
5.					
6.					

PS Form **3665**, January 2017 (Page ___ of ___) PSN 7530-17-000-5549

See Reverse for Instructions

RESIDENT
1120 DESHA LN APT M
HONOLULU HI 96817-4678

RESIDENT
1123 DESHA LN APT A
HONOLULU HI 96817-4620

RESIDENT
1123 DESHA LN APT B
HONOLULU HI 96817-4620

RESIDENT
1123 DESHA LN APT C
HONOLULU HI 96817-4620

RESIDENT
1123 DESHA LN APT D
HONOLULU HI 96817-4620

RESIDENT
1123 DESHA LN APT E
HONOLULU HI 96817-4620

RESIDENT
1123 DESHA LN APT F
HONOLULU HI 96817-4620

RESIDENT
1123 DESHA LN APT G
HONOLULU HI 96817-4620

RESIDENT
1123 DESHA LN APT H
HONOLULU HI 96817-4620

RESIDENT
1123 DESHA LN APT J
HONOLULU HI 96817-4620

RESIDENT
1123 DESHA LN APT K
HONOLULU HI 96817-4620

RESIDENT
1123 DESHA LN APT L
HONOLULU HI 96817-4620

RESIDENT
1123 DESHA LN APT M
HONOLULU HI 96817-4620

RESIDENT
550 N KING ST APT A
HONOLULU HI 96817-4650

RESIDENT
550 N KING ST APT B
HONOLULU HI 96817-4650

RESIDENT
550 N KING ST APT C
HONOLULU HI 96817-4650

RESIDENT
550 N KING ST APT D
HONOLULU HI 96817-4650

RESIDENT
550 N KING ST APT E
HONOLULU HI 96817-4650

RESIDENT
550 N KING ST APT F
HONOLULU HI 96817-4650

RESIDENT
550 N KING ST APT G
HONOLULU HI 96817-4605

RESIDENT
550 N KING ST APT H
HONOLULU HI 96817-4605

RESIDENT
550 N KING ST APT J
HONOLULU HI 96817-4605

RESIDENT
550 N KING ST APT K
HONOLULU HI 96817-4605

RESIDENT
550 N KING ST APT M
HONOLULU HI 96817-4605

RESIDENT
550 N KING ST APT N
HONOLULU HI 96817-4605

RESIDENT
550 N KING ST APT P
HONOLULU HI 96817-4605

RESIDENT
550 N KING ST APT Q
HONOLULU HI 96817-4605

RESIDENT
550 N KING ST APT R
HONOLULU HI 96817-4605

RESIDENT
550 N KING ST APT S
HONOLULU HI 96817-6600

RESIDENT
550 N KING ST APT T
HONOLULU HI 96817-6600

RESIDENT
568 N KING ST APT A
HONOLULU HI 96817-4606

RESIDENT
568 N KING ST APT B
HONOLULU HI 96817-4606

RESIDENT
568 N KING ST APT C
HONOLULU HI 96817-4606

RESIDENT
568 N KING ST APT D
HONOLULU HI 96817-4606

RESIDENT
568 N KING ST APT E
HONOLULU HI 96817-4606

RESIDENT
568 N KING ST APT F
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RESIDENT
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RESIDENT
568 N KING ST APT H
HONOLULU HI 96817-4606

RESIDENT
568 N KING ST APT J
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RESIDENT
568 N KING ST APT K
HONOLULU HI 96817-4606

RESIDENT
568 N KING ST APT L
HONOLULU HI 96817-4606

RESIDENT
568 N KING ST APT M
HONOLULU HI 96817-4606

RESIDENT
520 N KUKUI ST APT A
HONOLULU HI 96817-3847

RESIDENT
520 N KUKUI ST APT B
HONOLULU HI 96817-3847

RESIDENT
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HONOLULU HI 96817-3847

RESIDENT
520 N KUKUI ST APT D
HONOLULU HI 96817-3847

RESIDENT
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HONOLULU HI 96817-3847

RESIDENT
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HONOLULU HI 96817-3847

RESIDENT
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HONOLULU HI 96817-3847

RESIDENT
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HONOLULU HI 96817-3847

RESIDENT
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HONOLULU HI 96817-3847

RESIDENT
520 N KUKUI ST APT K
HONOLULU HI 96817-3847

RESIDENT
520 N KUKUI ST APT L
HONOLULU HI 96817-3847

RESIDENT
520 N KUKUI ST APT M
HONOLULU HI 96817-3847

RESIDENT
545 N KUKUI ST APT A
HONOLULU HI 96817-3861

RESIDENT
545 N KUKUI ST APT B
HONOLULU HI 96817-3861

RESIDENT
545 N KUKUI ST APT C
HONOLULU HI 96817-3861

RESIDENT
545 N KUKUI ST APT D
HONOLULU HI 96817-3861

RESIDENT
545 N KUKUI ST APT E
HONOLULU HI 96817-3849

RESIDENT
545 N KUKUI ST APT F
HONOLULU HI 96817-3849

RESIDENT
545 N KUKUI ST APT G
HONOLULU HI 96817-3849

RESIDENT
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HONOLULU HI 96817-3849

RESIDENT
545 N KUKUI ST APT J
HONOLULU HI 96817-3849

RESIDENT
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HONOLULU HI 96817-3849

RESIDENT
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RESIDENT
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HONOLULU HI 96817-3849

RESIDENT
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HONOLULU HI 96817-3850

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RESIDENT
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HONOLULU HI 96817-3865

RESIDENT
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HONOLULU HI 96817-3865

RESIDENT
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HONOLULU HI 96817-3851

RESIDENT
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HONOLULU HI 96817-3851

RESIDENT
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HONOLULU HI 96817-3851

RESIDENT
565 N KUKUI ST APT D
HONOLULU HI 96817-3851

RESIDENT
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HONOLULU HI 96817-3852

RESIDENT
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HONOLULU HI 96817-3852

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HONOLULU HI 96817-3852

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RESIDENT
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HONOLULU HI 96817-3852

RESIDENT
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HONOLULU HI 96817-3852

RESIDENT
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HONOLULU HI 96817-3820

RESIDENT
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HONOLULU HI 96817-3820

RESIDENT
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RESIDENT
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HONOLULU HI 96817-3867

RESIDENT
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HONOLULU HI 96817-3854

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RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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HONOLULU HI 96817-3853

RESIDENT
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HONOLULU HI 96817-3862

RESIDENT
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HONOLULU HI 96817-3862

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HONOLULU HI 96817-3862

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HONOLULU HI 96817-3862

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HONOLULU HI 96817-3862

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HONOLULU HI 96817-3862

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HONOLULU HI 96817-3862

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HONOLULU HI 96817-3862

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HONOLULU HI 96817-3862

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HONOLULU HI 96817-3862

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HONOLULU HI 96817-3862

RESIDENT
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HONOLULU HI 96817-3862

RESIDENT
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HONOLULU HI 96817-3864

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HONOLULU HI 96817-3864

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HONOLULU HI 96817-3864

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HONOLULU HI 96817-3864

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HONOLULU HI 96817-3864

RESIDENT
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HONOLULU HI 96817-3864

RESIDENT
651 N KUKUI ST APT M
HONOLULU HI 96817-3864

RESIDENT
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HONOLULU HI 96817-4626

RESIDENT
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HONOLULU HI 96817-4626

RESIDENT
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HONOLULU HI 96817-4626

RESIDENT
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HONOLULU HI 96817-4626

RESIDENT
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HONOLULU HI 96817-4626

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HONOLULU HI 96817-4626

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HONOLULU HI 96817-4626

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HONOLULU HI 96817-4626

RESIDENT
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RESIDENT
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HONOLULU HI 96817-4654

RESIDENT
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HONOLULU HI 96817-4654

RESIDENT
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HONOLULU HI 96817-4654

RESIDENT
1104 LILIHA ST APT A
HONOLULU HI 96817-4627

RESIDENT
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HONOLULU HI 96817-4627

RESIDENT
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HONOLULU HI 96817-4627

RESIDENT
1104 LILIHA ST APT D
HONOLULU HI 96817-4627

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HONOLULU HI 96817-4627

RESIDENT
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HONOLULU HI 96817-4635

RESIDENT
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HONOLULU HI 96817-4635

RESIDENT
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RESIDENT
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RESIDENT
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HONOLULU HI 96817-4635

RESIDENT
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HONOLULU HI 96817-4635

RESIDENT
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HONOLULU HI 96817-3877

RESIDENT
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HONOLULU HI 96817-3877

RESIDENT
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HONOLULU HI 96817-3877

RESIDENT
1104 LILIHA ST APT T
HONOLULU HI 96817-3877

RESIDENT
1216 LILIHA ST APT A
HONOLULU HI 96817-4651

RESIDENT
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HONOLULU HI 96817-4651

RESIDENT
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HONOLULU HI 96817-4651

RESIDENT
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HONOLULU HI 96817-4619

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HONOLULU HI 96817-4619

RESIDENT
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HONOLULU HI 96817-4619

RESIDENT
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HONOLULU HI 96817-4619

RESIDENT
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HONOLULU HI 96817-4619

RESIDENT
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HONOLULU HI 96817-4619

RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
1330 LILIHA ST APT L
HONOLULU HI 96817-6602

RESIDENT
1330 LILIHA ST APT M
HONOLULU HI 96817-6602

RESIDENT
1035 PUA LN APT A
HONOLULU HI 96817-3802

RESIDENT
1035 PUA LN APT B
HONOLULU HI 96817-3802

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HONOLULU HI 96817-3802

RESIDENT
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RESIDENT
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HONOLULU HI 96817-3802

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HONOLULU HI 96817-3802

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HONOLULU HI 96817-3802

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HONOLULU HI 96817-3802

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HONOLULU HI 96817-3802

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HONOLULU HI 96817-3802

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HONOLULU HI 96817-3802

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HONOLULU HI 96817-3804

RESIDENT
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HONOLULU HI 96817-3882

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RESIDENT
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RESIDENT
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RESIDENT
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HONOLULU HI 96817-3819

RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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HONOLULU HI 96817-3830

RESIDENT
1235 PUA LN APT M
HONOLULU HI 96817-3830

RESIDENT
529 N VINEYARD BLVD APT A
HONOLULU HI 96817-3835

RESIDENT
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HONOLULU HI 96817-3835

RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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HONOLULU HI 96817-3886

RESIDENT
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RESIDENT
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RESIDENT
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HONOLULU HI 96817-3837

RESIDENT
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HONOLULU HI 96817-3837

RESIDENT
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RESIDENT
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HONOLULU HI 96817-3888

RESIDENT
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HONOLULU HI 96817-3814

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RESIDENT
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HONOLULU HI 96817-3814

RESIDENT
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HONOLULU HI 96817-3814

RESIDENT
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HONOLULU HI 96817-3840

RESIDENT
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HONOLULU HI 96817-3840

RESIDENT
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HONOLULU HI 96817-3840

RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
649 N VINEYARD BLVD APT A
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RESIDENT
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HONOLULU HI 96817-3844

RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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RESIDENT
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HONOLULU HI 96817-3844

RESIDENT
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HONOLULU HI 96817-3844

RESIDENT
649 N VINEYARD BLVD APT L
HONOLULU HI 96817-3844

RESIDENT
649 N VINEYARD BLVD APT M
HONOLULU HI 96817-3844

BUSINESS OCCUPANT
521 N KUKUI ST
HONOLULU HI 96817-3846

BUSINESS OCCUPANT
517 N VINEYARD BLVD
HONOLULU HI 96817-3834

BUSINESS OCCUPANT
515 N VINEYARD BLVD
HONOLULU HI 96817-3834

BUSINESS OCCUPANT
511 N VINEYARD BLVD
HONOLULU HI 96817-3834

BUSINESS OCCUPANT
1380 LILIHA ST
HONOLULU HI 96817-4653

RESIDENT
1370 LILIHA ST APT A
HONOLULU HI 96817-4690

RESIDENT
1370 LILIHA ST APT B
HONOLULU HI 96817-4690

RESIDENT
1370 LILIHA ST APT C
HONOLULU HI 96817-4690

RESIDENT
1370 LILIHA ST APT D
HONOLULU HI 96817-4690

RESIDENT
1370 LILIHA ST APT E
HONOLULU HI 96817-4690

RESIDENT
1370 LILIHA ST APT F
HONOLULU HI 96817-4690

RESIDENT
1370 LILIHA ST APT G
HONOLULU HI 96817-4663

RESIDENT
1370 LILIHA ST APT H
HONOLULU HI 96817-4663

RESIDENT
1370 LILIHA ST APT I
HONOLULU HI 96817-4663

RESIDENT
1370 LILIHA ST APT J
HONOLULU HI 96817-4663

RESIDENT
1370 LILIHA ST APT K
HONOLULU HI 96817-4663

BUSINESS OCCUPANT
1340 LILIHA ST
HONOLULU HI 96817-4653

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 100
HONOLULU HI 96817-3938

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 200
HONOLULU HI 96817-3938

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 210
HONOLULU HI 96817-3938

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 220
HONOLULU HI 96817-3938

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 230
HONOLULU HI 96817-3938

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 300
HONOLULU HI 96817-3922

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 310
HONOLULU HI 96817-3938

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 315
HONOLULU HI 96817-3952

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 320
HONOLULU HI 96817-3938

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 325
HONOLULU HI 96817-3938

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 330
HONOLULU HI 96817-3938

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 410
HONOLULU HI 96817-3952

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 274
HONOLULU HI 96817-3952

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 270
HONOLULU HI 96817-3922

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 420
HONOLULU HI 96817-3952

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 425
HONOLULU HI 96817-3952

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 430
HONOLULU HI 96817-3952

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 265
HONOLULU HI 96817-3922

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 501
HONOLULU HI 96817-3952

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 506
HONOLULU HI 96817-3952

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 508
HONOLULU HI 96817-3952

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 253
HONOLULU HI 96817-3952

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 260
HONOLULU HI 96817-3950

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 700
HONOLULU HI 96817-3952

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 271
HONOLULU HI 96817-3938

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 151
HONOLULU HI 96817-3938

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 152
HONOLULU HI 96817-3938

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 153
HONOLULU HI 96817-3938

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 251
HONOLULU HI 96817-3950

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 259
HONOLULU HI 96817-3952

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 257
HONOLULU HI 96817-3952

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 263
HONOLULU HI 96817-3922

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 261
HONOLULU HI 96817-3922

BUSINESS OCCUPANT
200 N VINEYARD BLVD STE 256
HONOLULU HI 96817-3938

BUSINESS OCCUPANT
296 N VINEYARD BLVD
HONOLULU HI 96817-3917

RESIDENT
366 N VINEYARD BLVD APT F16
HONOLULU HI 96817-3662

RESIDENT
366 N VINEYARD BLVD APT F17
HONOLULU HI 96817-3662

RESIDENT
366 N VINEYARD BLVD APT F25
HONOLULU HI 96817-6203

RESIDENT
366 N VINEYARD BLVD APT F26
HONOLULU HI 96817-6203

RESIDENT
366 N VINEYARD BLVD APT F35
HONOLULU HI 96817-3691

RESIDENT
366 N VINEYARD BLVD APT F36
HONOLULU HI 96817-3691

RESIDENT
370 N VINEYARD BLVD APT F14
HONOLULU HI 96817-3664

RESIDENT
370 N VINEYARD BLVD APT F15
HONOLULU HI 96817-3664

RESIDENT
370 N VINEYARD BLVD APT F23
HONOLULU HI 96817-6204

RESIDENT
370 N VINEYARD BLVD APT F24
HONOLULU HI 96817-6204

RESIDENT
370 N VINEYARD BLVD APT F33
HONOLULU HI 96817-3661

RESIDENT
370 N VINEYARD BLVD APT F34
HONOLULU HI 96817-3661

RESIDENT
374 N VINEYARD BLVD APT F11
HONOLULU HI 96817-3665

RESIDENT
374 N VINEYARD BLVD APT F12
HONOLULU HI 96817-3665

RESIDENT
374 N VINEYARD BLVD APT F21
HONOLULU HI 96817-6205

RESIDENT
374 N VINEYARD BLVD APT F22
HONOLULU HI 96817-6205

RESIDENT
374 N VINEYARD BLVD APT F31
HONOLULU HI 96817-3673

RESIDENT
374 N VINEYARD BLVD APT F32
HONOLULU HI 96817-3673

RESIDENT
378 N VINEYARD BLVD APT D11
HONOLULU HI 96817-3666

RESIDENT
378 N VINEYARD BLVD APT D12
HONOLULU HI 96817-3666

RESIDENT
378 N VINEYARD BLVD APT D21
HONOLULU HI 96817-6206

RESIDENT
378 N VINEYARD BLVD APT D22
HONOLULU HI 96817-6206

RESIDENT
378 N VINEYARD BLVD APT D31
HONOLULU HI 96817-3684

RESIDENT
378 N VINEYARD BLVD APT D32
HONOLULU HI 96817-3684

RESIDENT
382 N VINEYARD BLVD APT B11
HONOLULU HI 96817-3667

RESIDENT
382 N VINEYARD BLVD APT B12
HONOLULU HI 96817-3667

RESIDENT
382 N VINEYARD BLVD APT B21
HONOLULU HI 96817-6207

RESIDENT
382 N VINEYARD BLVD APT B22
HONOLULU HI 96817-6207

RESIDENT
382 N VINEYARD BLVD APT B31
HONOLULU HI 96817-3687

RESIDENT
382 N VINEYARD BLVD APT B32
HONOLULU HI 96817-3687

RESIDENT
386 N VINEYARD BLVD APT B14
HONOLULU HI 96817-3611

RESIDENT
386 N VINEYARD BLVD APT B15
HONOLULU HI 96817-3611

RESIDENT
386 N VINEYARD BLVD APT B23
HONOLULU HI 96817-3611

RESIDENT
386 N VINEYARD BLVD APT B24
HONOLULU HI 96817-3679

RESIDENT
386 N VINEYARD BLVD APT B33
HONOLULU HI 96817-3644

RESIDENT
386 N VINEYARD BLVD APT B34
HONOLULU HI 96817-3644

RESIDENT
392 N VINEYARD BLVD APT B16
HONOLULU HI 96817-3612

RESIDENT
392 N VINEYARD BLVD APT B17
HONOLULU HI 96817-3612

RESIDENT
392 N VINEYARD BLVD APT B25
HONOLULU HI 96817-3612

RESIDENT
392 N VINEYARD BLVD APT B26
HONOLULU HI 96817-3681

RESIDENT
392 N VINEYARD BLVD APT B35
HONOLULU HI 96817-3668

RESIDENT
392 N VINEYARD BLVD APT B36
HONOLULU HI 96817-3668

RESIDENT
404 N VINEYARD BLVD APT A16
HONOLULU HI 96817-3613

RESIDENT
404 N VINEYARD BLVD APT A17
HONOLULU HI 96817-3613

RESIDENT
404 N VINEYARD BLVD APT A25
HONOLULU HI 96817-3613

RESIDENT
404 N VINEYARD BLVD APT A26
HONOLULU HI 96817-3694

RESIDENT
404 N VINEYARD BLVD APT A35
HONOLULU HI 96817-3672

RESIDENT
404 N VINEYARD BLVD APT A36
HONOLULU HI 96817-3672

RESIDENT
408 N VINEYARD BLVD APT A14
HONOLULU HI 96817-3614

RESIDENT
408 N VINEYARD BLVD APT A15
HONOLULU HI 96817-3614

RESIDENT
408 N VINEYARD BLVD APT A23
HONOLULU HI 96817-3614

RESIDENT
408 N VINEYARD BLVD APT A24
HONOLULU HI 96817-3695

RESIDENT
408 N VINEYARD BLVD APT A33
HONOLULU HI 96817-3674

RESIDENT
408 N VINEYARD BLVD APT A34
HONOLULU HI 96817-3674

RESIDENT
412 N VINEYARD BLVD APT A11
HONOLULU HI 96817-3615

RESIDENT
412 N VINEYARD BLVD APT A12
HONOLULU HI 96817-3615

RESIDENT
412 N VINEYARD BLVD APT A21
HONOLULU HI 96817-3696

RESIDENT
412 N VINEYARD BLVD APT A22
HONOLULU HI 96817-3696

RESIDENT
412 N VINEYARD BLVD APT A31
HONOLULU HI 96817-3678

RESIDENT
412 N VINEYARD BLVD APT A32
HONOLULU HI 96817-3678

RESIDENT
418 N VINEYARD BLVD APT C11
HONOLULU HI 96817-3616

RESIDENT
418 N VINEYARD BLVD APT C12
HONOLULU HI 96817-3616

RESIDENT
418 N VINEYARD BLVD APT C21
HONOLULU HI 96817-3697

RESIDENT
418 N VINEYARD BLVD APT C22
HONOLULU HI 96817-3697

RESIDENT
418 N VINEYARD BLVD APT C31
HONOLULU HI 96817-3680

RESIDENT
418 N VINEYARD BLVD APT C32
HONOLULU HI 96817-3680

RESIDENT
424 N VINEYARD BLVD APT E11
HONOLULU HI 96817-3617

RESIDENT
424 N VINEYARD BLVD APT E12
HONOLULU HI 96817-3617

RESIDENT
424 N VINEYARD BLVD APT E21
HONOLULU HI 96817-3698

RESIDENT
424 N VINEYARD BLVD APT E22
HONOLULU HI 96817-3698

RESIDENT
424 N VINEYARD BLVD APT E31
HONOLULU HI 96817-3683

RESIDENT
424 N VINEYARD BLVD APT E32
HONOLULU HI 96817-3683

RESIDENT
430 N VINEYARD BLVD APT E14
HONOLULU HI 96817-3618

RESIDENT
430 N VINEYARD BLVD APT E15
HONOLULU HI 96817-3618

RESIDENT
430 N VINEYARD BLVD APT E23
HONOLULU HI 96817-3618

RESIDENT
430 N VINEYARD BLVD APT E24
HONOLULU HI 96817-3699

RESIDENT
430 N VINEYARD BLVD APT E33
HONOLULU HI 96817-3685

RESIDENT
430 N VINEYARD BLVD APT E34
HONOLULU HI 96817-3685

RESIDENT
436 N VINEYARD BLVD APT E16
HONOLULU HI 96817-3619

RESIDENT
436 N VINEYARD BLVD APT E17
HONOLULU HI 96817-3619

RESIDENT
436 N VINEYARD BLVD APT E25
HONOLULU HI 96817-6208

RESIDENT
436 N VINEYARD BLVD APT E26
HONOLULU HI 96817-6208

RESIDENT
436 N VINEYARD BLVD APT E35
HONOLULU HI 96817-3689

RESIDENT
436 N VINEYARD BLVD APT E36
HONOLULU HI 96817-3689

BUSINESS OCCUPANT
1425 LILIHA ST STE 1
HONOLULU HI 96817-3582

BUSINESS OCCUPANT
1425 LILIHA ST STE 2
HONOLULU HI 96817-3582

BUSINESS OCCUPANT
1425 LILIHA ST STE 3
HONOLULU HI 96817-3582

BUSINESS OCCUPANT
1425 LILIHA ST STE 6
HONOLULU HI 96817-3582

BUSINESS OCCUPANT
1425 LILIHA ST STE 8
HONOLULU HI 96817-3582

BUSINESS OCCUPANT
1425 LILIHA ST STE 9
HONOLULU HI 96817-3582

BUSINESS OCCUPANT
1425 LILIHA ST STE 11
HONOLULU HI 96817-3582

RESIDENT
1425 LILIHA ST APT 3A
HONOLULU HI 96817-3506

RESIDENT
1425 LILIHA ST APT 3B
HONOLULU HI 96817-3506

RESIDENT
1425 LILIHA ST APT 3C
HONOLULU HI 96817-3506

RESIDENT
1425 LILIHA ST APT 3D
HONOLULU HI 96817-3506

RESIDENT
1425 LILIHA ST APT 3E
HONOLULU HI 96817-3506

RESIDENT
1425 LILIHA ST APT 3F
HONOLULU HI 96817-3506

RESIDENT
1425 LILIHA ST APT 7C
HONOLULU HI 96817-3510

RESIDENT
1425 LILIHA ST APT 7D
HONOLULU HI 96817-3510

RESIDENT
1425 LILIHA ST APT 7E
HONOLULU HI 96817-3510

RESIDENT
1425 LILIHA ST APT 7F
HONOLULU HI 96817-3510

RESIDENT
1425 LILIHA ST APT 7G
HONOLULU HI 96817-3510

RESIDENT
1425 LILIHA ST APT 7H
HONOLULU HI 96817-3510

RESIDENT
1425 LILIHA ST APT 3G
HONOLULU HI 96817-3506

RESIDENT
1425 LILIHA ST APT 3H
HONOLULU HI 96817-3506

RESIDENT
1425 LILIHA ST APT 4A
HONOLULU HI 96817-3506

RESIDENT
1425 LILIHA ST APT 4B
HONOLULU HI 96817-3506

RESIDENT
1425 LILIHA ST APT 4C
HONOLULU HI 96817-3507

RESIDENT
1425 LILIHA ST APT 4D
HONOLULU HI 96817-3507

RESIDENT
1425 LILIHA ST APT 4E
HONOLULU HI 96817-3507

RESIDENT
1425 LILIHA ST APT 8A
HONOLULU HI 96817-3593

RESIDENT
1425 LILIHA ST APT 8B
HONOLULU HI 96817-3593

RESIDENT
1425 LILIHA ST APT 8C
HONOLULU HI 96817-3593

RESIDENT
1425 LILIHA ST APT 8D
HONOLULU HI 96817-3593

RESIDENT
1425 LILIHA ST APT 8E
HONOLULU HI 96817-3593

RESIDENT
1425 LILIHA ST APT 8F
HONOLULU HI 96817-3593

RESIDENT
1425 LILIHA ST APT 8G
HONOLULU HI 96817-3593

RESIDENT
1425 LILIHA ST APT 4F
HONOLULU HI 96817-3507

RESIDENT
1425 LILIHA ST APT 4G
HONOLULU HI 96817-3507

RESIDENT
1425 LILIHA ST APT 4H
HONOLULU HI 96817-3507

RESIDENT
1425 LILIHA ST APT 5A
HONOLULU HI 96817-3507

RESIDENT
1425 LILIHA ST APT 5B
HONOLULU HI 96817-3507

RESIDENT
1425 LILIHA ST APT 5C
HONOLULU HI 96817-3507

RESIDENT
1425 LILIHA ST APT 5D
HONOLULU HI 96817-3507

RESIDENT
1425 LILIHA ST APT 8H
HONOLULU HI 96817-3511

RESIDENT
1425 LILIHA ST APT 9A
HONOLULU HI 96817-3511

RESIDENT
1425 LILIHA ST APT 9B
HONOLULU HI 96817-3511

RESIDENT
1425 LILIHA ST APT 9C
HONOLULU HI 96817-3511

RESIDENT
1425 LILIHA ST APT 9D
HONOLULU HI 96817-3511

RESIDENT
1425 LILIHA ST APT 9E
HONOLULU HI 96817-3511

RESIDENT
1425 LILIHA ST APT 9F
HONOLULU HI 96817-3511

RESIDENT
1425 LILIHA ST APT 5E
HONOLULU HI 96817-3508

RESIDENT
1425 LILIHA ST APT 5F
HONOLULU HI 96817-3508

RESIDENT
1425 LILIHA ST APT 5G
HONOLULU HI 96817-3508

RESIDENT
1425 LILIHA ST APT 5H
HONOLULU HI 96817-3508

RESIDENT
1425 LILIHA ST APT 6A
HONOLULU HI 96817-3508

RESIDENT
1425 LILIHA ST APT 6B
HONOLULU HI 96817-3508

RESIDENT
1425 LILIHA ST APT 6C
HONOLULU HI 96817-3508

RESIDENT
1425 LILIHA ST APT 9G
HONOLULU HI 96817-3512

RESIDENT
1425 LILIHA ST APT 9H
HONOLULU HI 96817-3512

RESIDENT
1425 LILIHA ST APT 10A
HONOLULU HI 96817-3512

RESIDENT
1425 LILIHA ST APT 10B
HONOLULU HI 96817-3512

RESIDENT
1425 LILIHA ST APT 10C
HONOLULU HI 96817-3512

RESIDENT
1425 LILIHA ST APT 10D
HONOLULU HI 96817-3512

RESIDENT
1425 LILIHA ST APT 10E
HONOLULU HI 96817-3512

RESIDENT
1425 LILIHA ST APT 6D
HONOLULU HI 96817-3509

RESIDENT
1425 LILIHA ST APT 6E
HONOLULU HI 96817-3509

RESIDENT
1425 LILIHA ST APT 6F
HONOLULU HI 96817-3509

RESIDENT
1425 LILIHA ST APT 6G
HONOLULU HI 96817-3509

RESIDENT
1425 LILIHA ST APT 6H
HONOLULU HI 96817-3509

RESIDENT
1425 LILIHA ST APT 7A
HONOLULU HI 96817-3509

RESIDENT
1425 LILIHA ST APT 7B
HONOLULU HI 96817-3509

RESIDENT
1425 LILIHA ST APT 10F
HONOLULU HI 96817-3523

RESIDENT
1425 LILIHA ST APT 10G
HONOLULU HI 96817-3523

RESIDENT
1425 LILIHA ST APT 10H
HONOLULU HI 96817-3523

RESIDENT
1425 LILIHA ST APT 11A
HONOLULU HI 96817-3523

RESIDENT
1425 LILIHA ST APT 11B
HONOLULU HI 96817-3523

RESIDENT
1425 LILIHA ST APT 11C
HONOLULU HI 96817-3523

RESIDENT
1425 LILIHA ST APT 11D
HONOLULU HI 96817-3523

RESIDENT
1425 LILIHA ST APT 11E
HONOLULU HI 96817-3514

RESIDENT
1425 LILIHA ST APT 11F
HONOLULU HI 96817-3514

RESIDENT
1425 LILIHA ST APT 11G
HONOLULU HI 96817-3514

RESIDENT
1425 LILIHA ST APT 11H
HONOLULU HI 96817-3514

RESIDENT
1425 LILIHA ST APT 12A
HONOLULU HI 96817-3514

RESIDENT
1425 LILIHA ST APT 12B
HONOLULU HI 96817-3514

RESIDENT
1425 LILIHA ST APT 12C
HONOLULU HI 96817-3514

RESIDENT
1425 LILIHA ST APT 16H
HONOLULU HI 96817-3518

RESIDENT
1425 LILIHA ST APT 17A
HONOLULU HI 96817-3518

RESIDENT
1425 LILIHA ST APT 17B
HONOLULU HI 96817-3518

RESIDENT
1425 LILIHA ST APT 17C
HONOLULU HI 96817-3518

RESIDENT
1425 LILIHA ST APT 17D
HONOLULU HI 96817-3518

RESIDENT
1425 LILIHA ST APT 17E
HONOLULU HI 96817-3518

RESIDENT
1425 LILIHA ST APT 17F
HONOLULU HI 96817-3518

RESIDENT
1425 LILIHA ST APT 12D
HONOLULU HI 96817-3515

RESIDENT
1425 LILIHA ST APT 12E
HONOLULU HI 96817-3515

RESIDENT
1425 LILIHA ST APT 12F
HONOLULU HI 96817-3515

RESIDENT
1425 LILIHA ST APT 12G
HONOLULU HI 96817-3515

RESIDENT
1425 LILIHA ST APT 12H
HONOLULU HI 96817-3515

RESIDENT
1425 LILIHA ST APT 14A
HONOLULU HI 96817-3515

RESIDENT
1425 LILIHA ST APT 14B
HONOLULU HI 96817-3515

RESIDENT
1425 LILIHA ST APT 17G
HONOLULU HI 96817-3519

RESIDENT
1425 LILIHA ST APT 17H
HONOLULU HI 96817-3519

RESIDENT
1425 LILIHA ST APT 18A
HONOLULU HI 96817-3519

RESIDENT
1425 LILIHA ST APT 18B
HONOLULU HI 96817-3519

RESIDENT
1425 LILIHA ST APT 18C
HONOLULU HI 96817-3519

RESIDENT
1425 LILIHA ST APT 18D
HONOLULU HI 96817-3519

RESIDENT
1425 LILIHA ST APT 18E
HONOLULU HI 96817-3519

RESIDENT
1425 LILIHA ST APT 14C
HONOLULU HI 96817-3516

RESIDENT
1425 LILIHA ST APT 14D
HONOLULU HI 96817-3516

RESIDENT
1425 LILIHA ST APT 14E
HONOLULU HI 96817-3516

RESIDENT
1425 LILIHA ST APT 14F
HONOLULU HI 96817-3516

RESIDENT
1425 LILIHA ST APT 14G
HONOLULU HI 96817-3516

RESIDENT
1425 LILIHA ST APT 14H
HONOLULU HI 96817-3516

RESIDENT
1425 LILIHA ST APT 15A
HONOLULU HI 96817-3516

RESIDENT
1425 LILIHA ST APT 18F
HONOLULU HI 96817-3520

RESIDENT
1425 LILIHA ST APT 18G
HONOLULU HI 96817-3520

RESIDENT
1425 LILIHA ST APT 18H
HONOLULU HI 96817-3520

RESIDENT
1425 LILIHA ST APT 19A
HONOLULU HI 96817-3520

RESIDENT
1425 LILIHA ST APT 19B
HONOLULU HI 96817-3520

RESIDENT
1425 LILIHA ST APT 19C
HONOLULU HI 96817-3520

RESIDENT
1425 LILIHA ST APT 19D
HONOLULU HI 96817-3520

RESIDENT
1425 LILIHA ST APT 15B
HONOLULU HI 96817-3594

RESIDENT
1425 LILIHA ST APT 15C
HONOLULU HI 96817-3594

RESIDENT
1425 LILIHA ST APT 15D
HONOLULU HI 96817-3594

RESIDENT
1425 LILIHA ST APT 15E
HONOLULU HI 96817-3594

RESIDENT
1425 LILIHA ST APT 15F
HONOLULU HI 96817-3594

RESIDENT
1425 LILIHA ST APT 15G
HONOLULU HI 96817-3594

RESIDENT
1425 LILIHA ST APT 15H
HONOLULU HI 96817-3594

RESIDENT
1425 LILIHA ST APT 19E
HONOLULU HI 96817-3595

RESIDENT
1425 LILIHA ST APT 19F
HONOLULU HI 96817-3595

RESIDENT
1425 LILIHA ST APT 19G
HONOLULU HI 96817-3595

RESIDENT
1425 LILIHA ST APT 19H
HONOLULU HI 96817-3595

RESIDENT
1425 LILIHA ST APT 20A
HONOLULU HI 96817-3595

RESIDENT
1425 LILIHA ST APT 20C
HONOLULU HI 96817-3521

RESIDENT
1425 LILIHA ST APT 16A
HONOLULU HI 96817-3517

RESIDENT
1425 LILIHA ST APT 16B
HONOLULU HI 96817-3517

RESIDENT
1425 LILIHA ST APT 16C
HONOLULU HI 96817-3517

RESIDENT
1425 LILIHA ST APT 16D
HONOLULU HI 96817-3517

RESIDENT
1425 LILIHA ST APT 16E
HONOLULU HI 96817-3517

RESIDENT
1425 LILIHA ST APT 16F
HONOLULU HI 96817-3517

RESIDENT
1425 LILIHA ST APT 16G
HONOLULU HI 96817-3517

RESIDENT
1425 LILIHA ST APT 20D
HONOLULU HI 96817-3521

RESIDENT
1425 LILIHA ST APT 20E
HONOLULU HI 96817-3521

RESIDENT
1425 LILIHA ST APT 20F
HONOLULU HI 96817-3521

RESIDENT
1425 LILIHA ST APT 20G
HONOLULU HI 96817-3521

RESIDENT
1425 LILIHA ST APT 20H
HONOLULU HI 96817-3521

RESIDENT
1470 LILIHA ST APT 1
HONOLULU HI 96817-3524

RESIDENT
1470 LILIHA ST APT 2
HONOLULU HI 96817-3524

BUSINESS OCCUPANT
1472 LILIHA ST
HONOLULU HI 96817-3524

BUSINESS OCCUPANT
1466 LILIHA ST
HONOLULU HI 96817-3524

BUSINESS OCCUPANT
1448 LILIHA ST STE 101
HONOLULU HI 96817-3589

BUSINESS OCCUPANT
1448 LILIHA ST STE 101
HONOLULU HI 96817-3589

BUSINESS OCCUPANT
1448 LILIHA ST STE 101
HONOLULU HI 96817-3589

BUSINESS OCCUPANT
1448 LILIHA ST STE 101
HONOLULU HI 96817-3589

BUSINESS OCCUPANT
1448 LILIHA ST STE 101
HONOLULU HI 96817-3589

RESIDENT
508 MALANAI PL APT A
HONOLULU HI 96817-3585

RESIDENT
508 MALANAI PL APT B
HONOLULU HI 96817-3585

RESIDENT
508 MALANAI PL APT C
HONOLULU HI 96817-3585

RESIDENT
508 MALANAI PL APT D
HONOLULU HI 96817-3585

RESIDENT
510 MALANAI PL APT A
HONOLULU HI 96817-3597

RESIDENT
510 MALANAI PL APT B
HONOLULU HI 96817-3597

RESIDENT
510 MALANAI PL APT C
HONOLULU HI 96817-3597

RESIDENT
510 MALANAI PL APT D
HONOLULU HI 96817-3597

RESIDENT
515 MALANAI PL
HONOLULU HI 96817-3529

RESIDENT
529 MALANAI PL
HONOLULU HI 96817-3529

RESIDENT
1438 LILIHA ST APT 109
HONOLULU HI 96817-6107

RESIDENT
1438 LILIHA ST APT 110
HONOLULU HI 96817-6107

RESIDENT
1438 LILIHA ST APT 111
HONOLULU HI 96817-6107

RESIDENT
1438 LILIHA ST APT 101
HONOLULU HI 96817-6107

RESIDENT
1438 LILIHA ST APT 102
HONOLULU HI 96817-6107

RESIDENT
1438 LILIHA ST APT 103
HONOLULU HI 96817-6107

RESIDENT
1438 LILIHA ST APT 104
HONOLULU HI 96817-6107

RESIDENT
1438 LILIHA ST APT 105
HONOLULU HI 96817-6107

RESIDENT
1438 LILIHA ST APT 106
HONOLULU HI 96817-6107

RESIDENT
1438 LILIHA ST APT 107
HONOLULU HI 96817-6108

RESIDENT
1438 LILIHA ST APT 108
HONOLULU HI 96817-6108

RESIDENT
1438 LILIHA ST APT 201
HONOLULU HI 96817-6108

RESIDENT
1438 LILIHA ST APT 202
HONOLULU HI 96817-6108

RESIDENT
1438 LILIHA ST APT 203
HONOLULU HI 96817-6108

RESIDENT
1438 LILIHA ST APT 204
HONOLULU HI 96817-6108

RESIDENT
1438 LILIHA ST APT 205
HONOLULU HI 96817-6110

RESIDENT
1438 LILIHA ST APT 206
HONOLULU HI 96817-6110

RESIDENT
1438 LILIHA ST APT 207
HONOLULU HI 96817-6110

RESIDENT
1438 LILIHA ST APT 208
HONOLULU HI 96817-6110

RESIDENT
1438 LILIHA ST APT 209
HONOLULU HI 96817-6110

RESIDENT
1438 LILIHA ST APT 210
HONOLULU HI 96817-6110

RESIDENT
1438 LILIHA ST APT 211
HONOLULU HI 96817-6109

RESIDENT
1438 LILIHA ST APT 301
HONOLULU HI 96817-6109

RESIDENT
1438 LILIHA ST APT 302
HONOLULU HI 96817-6109

RESIDENT
1438 LILIHA ST APT 303
HONOLULU HI 96817-6109

RESIDENT
1438 LILIHA ST APT 304
HONOLULU HI 96817-6109

RESIDENT
1438 LILIHA ST APT 305
HONOLULU HI 96817-6109

RESIDENT
1438 LILIHA ST APT 306
HONOLULU HI 96817-6111

RESIDENT
1438 LILIHA ST APT 307
HONOLULU HI 96817-6111

RESIDENT
1438 LILIHA ST APT 308
HONOLULU HI 96817-6111

RESIDENT
1438 LILIHA ST APT 309
HONOLULU HI 96817-6111

RESIDENT
1438 LILIHA ST APT 310
HONOLULU HI 96817-6111

RESIDENT
1438 LILIHA ST APT 311
HONOLULU HI 96817-6111

BUSINESS OCCUPANT
1430 LILIHA ST STE C
HONOLULU HI 96817-6105

BUSINESS OCCUPANT
1430 LILIHA ST STE B
HONOLULU HI 96817-6105

BUSINESS OCCUPANT
1430 LILIHA ST STE A
HONOLULU HI 96817-6105

RESIDENT
1432 LILIHA ST REAR
HONOLULU HI 96817-3504

RESIDENT
1432 LILIHA ST REAR
HONOLULU HI 96817-3504

RESIDENT
1432 LILIHA ST REAR
HONOLULU HI 96817-3504

BUSINESS OCCUPANT
1420 LILIHA ST
HONOLULU HI 96817-3504

BUSINESS OCCUPANT
1408 LILIHA ST STE 101
HONOLULU HI 96817-3581

BUSINESS OCCUPANT
1408 LILIHA ST STE 103
HONOLULU HI 96817-3581

RESIDENT
1408 LILIHA ST APT 201
HONOLULU HI 96817-3581

RESIDENT
1408 LILIHA ST APT 202
HONOLULU HI 96817-3581

RESIDENT
1408 LILIHA ST APT 203
HONOLULU HI 96817-3581

RESIDENT
1408 LILIHA ST APT 204
HONOLULU HI 96817-3581

RESIDENT
1408 LILIHA ST APT 302
HONOLULU HI 96817-3581

RESIDENT
1408 LILIHA ST APT 205
HONOLULU HI 96817-3581

RESIDENT
1408 LILIHA ST APT 304
HONOLULU HI 96817-3581

RESIDENT
1408 LILIHA ST APT 303
HONOLULU HI 96817-3581

RESIDENT
1408 LILIHA ST APT 206
HONOLULU HI 96817-3581

RESIDENT
1408 LILIHA ST APT 301
HONOLULU HI 96817-3581

RESIDENT
530 WAIPA LN
HONOLULU HI 96817-3530

RESIDENT
532 WAIPA LN
HONOLULU HI 96817-3530

RESIDENT
1443 HOLELUA PL
HONOLULU HI 96817-3503

RESIDENT
1440 HOLELUA PL
HONOLULU HI 96817-3502

RESIDENT
1434 HOLELUA PL
HONOLULU HI 96817-3502

RESIDENT
1430 HOLELUA PL APT A
HONOLULU HI 96817-3586

RESIDENT
1424 HOLELUA PL
HONOLULU HI 96817-3502

RESIDENT
556 WAIPA LN
HONOLULU HI 96817-3532

RESIDENT
548 WAIPA LN
HONOLULU HI 96817-3530

BUSINESS OCCUPANT
620 WAIPA LN
HONOLULU HI 96817-3533

RESIDENT
622 WAIPA LN
HONOLULU HI 96817-3533

RESIDENT
624 WAIPA LN
HONOLULU HI 96817-3533

RESIDENT
624B WAIPA LN
HONOLULU HI 96817-3533

RESIDENT
626 WAIPA LN
HONOLULU HI 96817-3533

RESIDENT
628 WAIPA LN
HONOLULU HI 96817-3533

RESIDENT
628A WAIPA LN
HONOLULU HI 96817-3533

RESIDENT
631 WAIPA LN
HONOLULU HI 96817-3534

RESIDENT
631A WAIPA LN
HONOLULU HI 96817-3534

RESIDENT
631B WAIPA LN
HONOLULU HI 96817-3534

RESIDENT
631C WAIPA LN
HONOLULU HI 96817-3534

RESIDENT
627A WAIPA LN
HONOLULU HI 96817-3534

RESIDENT
627B WAIPA LN
HONOLULU HI 96817-3534

RESIDENT
627 WAIPA LN
HONOLULU HI 96817-3534

RESIDENT
621A WAIPA LN
HONOLULU HI 96817-3534

RESIDENT
621B WAIPA LN
HONOLULU HI 96817-3534

RESIDENT
621B WAIPA LN
HONOLULU HI 96817-3534

RESIDENT
619 WAIPA LN
HONOLULU HI 96817-3534

RESIDENT
617 WAIPA LN
HONOLULU HI 96817-3534

RESIDENT
615 WAIPA LN
HONOLULU HI 96817-3534

RESIDENT
609 WAIPA LN
HONOLULU HI 96817-3534

RESIDENT
607 WAIPA LN
HONOLULU HI 96817-3534

RESIDENT
607 WAIPA LN
HONOLULU HI 96817-3534

RESIDENT
601 WAIPA LN
HONOLULU HI 96817-3534

RESIDENT
622B N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
622A N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
634A N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
634B N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
634C N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
634D N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
634E N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
634F N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
634G N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
634H N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
634I N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
642J N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
642I N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
642H N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
642G N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
642F N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
642D N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
642C N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
642B N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
642A N VINEYARD BLVD
HONOLULU HI 96817-3822

RESIDENT
1411 PUA LN
HONOLULU HI 96817-3536

RESIDENT
1423 PUA LN
HONOLULU HI 96817-3536

RESIDENT
1427 PUA LN
HONOLULU HI 96817-3536

RESIDENT
1431B PUA LN
HONOLULU HI 96817-3536

RESIDENT
1431C PUA LN
HONOLULU HI 96817-3536

RESIDENT
1431D PUA LN
HONOLULU HI 96817-3536

RESIDENT
1428 PUA LN
HONOLULU HI 96817-3535

RESIDENT
1422A PUA LN
HONOLULU HI 96817-3535

RESIDENT
1422 PUA LN
HONOLULU HI 96817-3535

RESIDENT
1416 PUA LN
HONOLULU HI 96817-3535

RESIDENT
1416A PUA LN
HONOLULU HI 96817-3535

RESIDENT
1416B PUA LN
HONOLULU HI 96817-3535

RESIDENT
1416C PUA LN
HONOLULU HI 96817-3535

RESIDENT
1412 PUA LN
HONOLULU HI 96817-3535

RESIDENT
1408 PUA LN
HONOLULU HI 96817-3535

RESIDENT
704 N VINEYARD BLVD
HONOLULU HI 96817-3538

RESIDENT
714 N VINEYARD BLVD
HONOLULU HI 96817-3538

RESIDENT
714A N VINEYARD BLVD
HONOLULU HI 96817-3538

BUSINESS OCCUPANT
810 N VINEYARD BLVD STE 1
HONOLULU HI 96817-3590

RESIDENT
801 N VINEYARD BLVD APT C1
HONOLULU HI 96817-3541

RESIDENT
801 N VINEYARD BLVD APT C2
HONOLULU HI 96817-3541

RESIDENT
801 N VINEYARD BLVD APT C3
HONOLULU HI 96817-3541

RESIDENT
801 N VINEYARD BLVD APT C4
HONOLULU HI 96817-3541

RESIDENT
801 N VINEYARD BLVD APT C5
HONOLULU HI 96817-3541

RESIDENT
801 N VINEYARD BLVD APT C6
HONOLULU HI 96817-3541

RESIDENT
801 N VINEYARD BLVD APT C7
HONOLULU HI 96817-3541

RESIDENT
809 N VINEYARD BLVD APT E1
HONOLULU HI 96817-3546

RESIDENT
809 N VINEYARD BLVD APT E2
HONOLULU HI 96817-3546

RESIDENT
809 N VINEYARD BLVD APT E3
HONOLULU HI 96817-3546

RESIDENT
809 N VINEYARD BLVD APT E4
HONOLULU HI 96817-3546

RESIDENT
809 N VINEYARD BLVD APT E5
HONOLULU HI 96817-3546

RESIDENT
809 N VINEYARD BLVD APT E6
HONOLULU HI 96817-3546

RESIDENT
809 N VINEYARD BLVD APT E7
HONOLULU HI 96817-3546

RESIDENT
801 N VINEYARD BLVD APT C8
HONOLULU HI 96817-3566

RESIDENT
801 N VINEYARD BLVD APT C9
HONOLULU HI 96817-3566

RESIDENT
801 N VINEYARD BLVD APT C10
HONOLULU HI 96817-3566

RESIDENT
801 N VINEYARD BLVD APT C11
HONOLULU HI 96817-3566

RESIDENT
801 N VINEYARD BLVD APT C12
HONOLULU HI 96817-3566

RESIDENT
801 N VINEYARD BLVD APT C13
HONOLULU HI 96817-3566

RESIDENT
801 N VINEYARD BLVD APT C14
HONOLULU HI 96817-3566

RESIDENT
809 N VINEYARD BLVD APT E8
HONOLULU HI 96817-3572

RESIDENT
809 N VINEYARD BLVD APT E9
HONOLULU HI 96817-3572

RESIDENT
809 N VINEYARD BLVD APT E10
HONOLULU HI 96817-3572

RESIDENT
809 N VINEYARD BLVD APT E11
HONOLULU HI 96817-3572

RESIDENT
809 N VINEYARD BLVD APT E12
HONOLULU HI 96817-3572

RESIDENT
809 N VINEYARD BLVD APT E13
HONOLULU HI 96817-3572

RESIDENT
809 N VINEYARD BLVD APT E14
HONOLULU HI 96817-3572

RESIDENT
803 N VINEYARD BLVD APT D1
HONOLULU HI 96817-3543

RESIDENT
803 N VINEYARD BLVD APT D2
HONOLULU HI 96817-3543

RESIDENT
803 N VINEYARD BLVD APT D3
HONOLULU HI 96817-3543

RESIDENT
803 N VINEYARD BLVD APT D4
HONOLULU HI 96817-3543

RESIDENT
803 N VINEYARD BLVD APT D5
HONOLULU HI 96817-3543

RESIDENT
803 N VINEYARD BLVD APT D6
HONOLULU HI 96817-3543

RESIDENT
809 N VINEYARD BLVD APT E15
HONOLULU HI 96817-3572

RESIDENT
811 N VINEYARD BLVD APT F1
HONOLULU HI 96817-3573

RESIDENT
811 N VINEYARD BLVD APT F2
HONOLULU HI 96817-3573

RESIDENT
811 N VINEYARD BLVD APT F3
HONOLULU HI 96817-3573

RESIDENT
811 N VINEYARD BLVD APT F4
HONOLULU HI 96817-3573

RESIDENT
811 N VINEYARD BLVD APT F5
HONOLULU HI 96817-3573

RESIDENT
811 N VINEYARD BLVD APT F6
HONOLULU HI 96817-3573

RESIDENT
803 N VINEYARD BLVD APT D8
HONOLULU HI 96817-3568

RESIDENT
803 N VINEYARD BLVD APT D9
HONOLULU HI 96817-3568

RESIDENT
803 N VINEYARD BLVD APT D10
HONOLULU HI 96817-3568

RESIDENT
803 N VINEYARD BLVD APT D11
HONOLULU HI 96817-3568

RESIDENT
803 N VINEYARD BLVD APT D12
HONOLULU HI 96817-3568

RESIDENT
803 N VINEYARD BLVD APT D13
HONOLULU HI 96817-3568

RESIDENT
811 N VINEYARD BLVD APT F7
HONOLULU HI 96817-3547

RESIDENT
811 N VINEYARD BLVD APT F8
HONOLULU HI 96817-3547

RESIDENT
811 N VINEYARD BLVD APT F9
HONOLULU HI 96817-3547

RESIDENT
811 N VINEYARD BLVD APT F10
HONOLULU HI 96817-3547

RESIDENT
811 N VINEYARD BLVD APT F11
HONOLULU HI 96817-3547

RESIDENT
811 N VINEYARD BLVD APT F12
HONOLULU HI 96817-3547

RESIDENT
803 N VINEYARD BLVD APT D14
HONOLULU HI 96817-3500

RESIDENT
803 N VINEYARD BLVD APT D15
HONOLULU HI 96817-3500

RESIDENT
807 N VINEYARD BLVD APT A1
HONOLULU HI 96817-3569

RESIDENT
807 N VINEYARD BLVD APT A2
HONOLULU HI 96817-3569

RESIDENT
807 N VINEYARD BLVD APT A3
HONOLULU HI 96817-3569

RESIDENT
807 N VINEYARD BLVD APT A4
HONOLULU HI 96817-3569

RESIDENT
811 N VINEYARD BLVD APT F13
HONOLULU HI 96817-3584

RESIDENT
811 N VINEYARD BLVD APT F14
HONOLULU HI 96817-3584

RESIDENT
811 N VINEYARD BLVD APT F15
HONOLULU HI 96817-3584

RESIDENT
815 N VINEYARD BLVD APT B1
HONOLULU HI 96817-3576

RESIDENT
815 N VINEYARD BLVD APT B2
HONOLULU HI 96817-3576

RESIDENT
815 N VINEYARD BLVD APT B3
HONOLULU HI 96817-3576

RESIDENT
807 N VINEYARD BLVD APT A5
HONOLULU HI 96817-3570

RESIDENT
807 N VINEYARD BLVD APT A6
HONOLULU HI 96817-3570

RESIDENT
807 N VINEYARD BLVD APT A7
HONOLULU HI 96817-3570

RESIDENT
807 N VINEYARD BLVD APT A8
HONOLULU HI 96817-3570

RESIDENT
807 N VINEYARD BLVD APT A9
HONOLULU HI 96817-3570

RESIDENT
807 N VINEYARD BLVD APT A10
HONOLULU HI 96817-3570

RESIDENT
815 N VINEYARD BLVD APT B4
HONOLULU HI 96817-3548

RESIDENT
815 N VINEYARD BLVD APT B5
HONOLULU HI 96817-3548

RESIDENT
815 N VINEYARD BLVD APT B6
HONOLULU HI 96817-3548

RESIDENT
815 N VINEYARD BLVD APT B7
HONOLULU HI 96817-3548

RESIDENT
815 N VINEYARD BLVD APT B8
HONOLULU HI 96817-3548

RESIDENT
815 N VINEYARD BLVD APT B9
HONOLULU HI 96817-3548

RESIDENT
807 N VINEYARD BLVD APT A11
HONOLULU HI 96817-3571

RESIDENT
807 N VINEYARD BLVD APT A12
HONOLULU HI 96817-3571

RESIDENT
807 N VINEYARD BLVD APT A13
HONOLULU HI 96817-3571

RESIDENT
807 N VINEYARD BLVD APT A14
HONOLULU HI 96817-3571

RESIDENT
807 N VINEYARD BLVD APT A15
HONOLULU HI 96817-3571

RESIDENT
815 N VINEYARD BLVD APT B10
HONOLULU HI 96817-3549

RESIDENT
815 N VINEYARD BLVD APT B11
HONOLULU HI 96817-3549

RESIDENT
815 N VINEYARD BLVD APT B12
HONOLULU HI 96817-3549

RESIDENT
815 N VINEYARD BLVD APT B13
HONOLULU HI 96817-3549

RESIDENT
815 N VINEYARD BLVD APT B14
HONOLULU HI 96817-3549

RESIDENT
807 N VINEYARD BLVD APT A16
HONOLULU HI 96817-3544

RESIDENT
807 N VINEYARD BLVD APT A18
HONOLULU HI 96817-3544

RESIDENT
807 N VINEYARD BLVD APT A19
HONOLULU HI 96817-3545

RESIDENT
807 N VINEYARD BLVD APT A20
HONOLULU HI 96817-3545

RESIDENT
807 N VINEYARD BLVD APT A21
HONOLULU HI 96817-3545

RESIDENT
815 N VINEYARD BLVD APT B15
HONOLULU HI 96817-3577

RESIDENT
815 N VINEYARD BLVD APT B16
HONOLULU HI 96817-3577

RESIDENT
815 N VINEYARD BLVD APT B17
HONOLULU HI 96817-3577

RESIDENT
815 N VINEYARD BLVD APT B18
HONOLULU HI 96817-3578

RESIDENT
815 N VINEYARD BLVD APT B19
HONOLULU HI 96817-3578

RESIDENT
815 N VINEYARD BLVD APT B20
HONOLULU HI 96817-3578

RESIDENT
819 N VINEYARD BLVD APT G1
HONOLULU HI 96817-3550

RESIDENT
819 N VINEYARD BLVD APT G2
HONOLULU HI 96817-3550

RESIDENT
819 N VINEYARD BLVD APT G3
HONOLULU HI 96817-3550

RESIDENT
819 N VINEYARD BLVD APT G4
HONOLULU HI 96817-3550

RESIDENT
819 N VINEYARD BLVD APT G5
HONOLULU HI 96817-3550

RESIDENT
819 N VINEYARD BLVD APT G6
HONOLULU HI 96817-3550

RESIDENT
819 N VINEYARD BLVD APT G7
HONOLULU HI 96817-3550

RESIDENT
819 N VINEYARD BLVD APT G8
HONOLULU HI 96817-3551

RESIDENT
819 N VINEYARD BLVD APT G9
HONOLULU HI 96817-3551

RESIDENT
819 N VINEYARD BLVD APT G10
HONOLULU HI 96817-3551

RESIDENT
819 N VINEYARD BLVD APT G11
HONOLULU HI 96817-3551

RESIDENT
819 N VINEYARD BLVD APT G12
HONOLULU HI 96817-3551

RESIDENT
819 N VINEYARD BLVD APT G13
HONOLULU HI 96817-3579

RESIDENT
819 N VINEYARD BLVD APT G14
HONOLULU HI 96817-3579

RESIDENT
819 N VINEYARD BLVD APT G15
HONOLULU HI 96817-3579

RESIDENT
819 N VINEYARD BLVD APT G16
HONOLULU HI 96817-3579

RESIDENT
819 N VINEYARD BLVD APT G17
HONOLULU HI 96817-3579

RESIDENT
717 N VINEYARD BLVD
HONOLULU HI 96817-3539

RESIDENT
717A N VINEYARD BLVD
HONOLULU HI 96817-3539

RESIDENT
717B N VINEYARD BLVD
HONOLULU HI 96817-3539

RESIDENT
717C N VINEYARD BLVD
HONOLULU HI 96817-3539

RESIDENT
709B N VINEYARD BLVD
HONOLULU HI 96817-3539

RESIDENT
709A N VINEYARD BLVD
HONOLULU HI 96817-3539

RESIDENT
703 N VINEYARD BLVD
HONOLULU HI 96817-3539

BUSINESS OCCUPANT
544 N VINEYARD BLVD
HONOLULU HI 96817-3833

BUSINESS OCCUPANT
572 N VINEYARD BLVD
HONOLULU HI 96817-3833

BUSINESS OCCUPANT
574 N VINEYARD BLVD
HONOLULU HI 96817-3833

BUSINESS OCCUPANT
580 N VINEYARD BLVD
HONOLULU HI 96817-3833

RESIDENT
608 N VINEYARD BLVD APT 101
HONOLULU HI 96817-3841

RESIDENT
608 N VINEYARD BLVD APT 102
HONOLULU HI 96817-3841

RESIDENT
608 N VINEYARD BLVD APT 103
HONOLULU HI 96817-3841

RESIDENT
608 N VINEYARD BLVD APT 104
HONOLULU HI 96817-3841

RESIDENT
608 N VINEYARD BLVD APT 105
HONOLULU HI 96817-3841

RESIDENT
608 N VINEYARD BLVD APT 106
HONOLULU HI 96817-3841

RESIDENT
608 N VINEYARD BLVD APT 201
HONOLULU HI 96817-3859

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HONOLULU HI 96817-3859

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HONOLULU HI 96817-3859

RESIDENT
608 N VINEYARD BLVD APT 301
HONOLULU HI 96817-3842

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HONOLULU HI 96817-3842

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HONOLULU HI 96817-3842

RESIDENT
608 N VINEYARD BLVD APT 306
HONOLULU HI 96817-3842

BUSINESS OCCUPANT
245 N KUKUI ST STE 101
HONOLULU HI 96817-3921

BUSINESS OCCUPANT
245 N KUKUI ST STE 102
HONOLULU HI 96817-3921

BUSINESS OCCUPANT
245 N KUKUI ST STE 103
HONOLULU HI 96817-3921

BUSINESS OCCUPANT
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HONOLULU HI 96817-3921

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BUSINESS OCCUPANT
245 N KUKUI ST STE 102A
HONOLULU HI 96817-3921

BUSINESS OCCUPANT
245 N KUKUI ST STE 207
HONOLULU HI 96817-3921

BUSINESS OCCUPANT
215 N KUKUI ST
HONOLULU HI 96817-3951

BUSINESS OCCUPANT
1374 NUUANU AVE OFC
HONOLULU HI 96817-4032

RESIDENT
1323 NUUANU AVE APT 102
HONOLULU HI 96817-4000

RESIDENT
1323 NUUANU AVE APT 104
HONOLULU HI 96817-4000

RESIDENT
1323 NUUANU AVE APT 105
HONOLULU HI 96817-4000

RESIDENT
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HONOLULU HI 96817-4000

RESIDENT
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HONOLULU HI 96817-4000

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HONOLULU HI 96817-4000

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HONOLULU HI 96817-4000

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HONOLULU HI 96817-4000

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1323 NUUANU AVE APT 310
HONOLULU HI 96817-4000

RESIDENT
1325 NUUANU AVE APT 301
HONOLULU HI 96817-4019

RESIDENT
1325 NUUANU AVE APT 303
HONOLULU HI 96817-4019

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RESIDENT
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HONOLULU HI 96817-4019

RESIDENT
1325 NUUANU AVE APT 317
HONOLULU HI 96817-4019

RESIDENT
1325 NUUANU AVE APT 318
HONOLULU HI 96817-4019

RESIDENT
1325 NUUANU AVE APT 319
HONOLULU HI 96817-4019

BUSINESS OCCUPANT
1325 NUUANU AVE STE 217
HONOLULU HI 96817-4034

BUSINESS OCCUPANT
1325 NUUANU AVE STE 213
HONOLULU HI 96817-4034

BUSINESS OCCUPANT
1325 NUUANU AVE STE 211
HONOLULU HI 96817-4034

BUSINESS OCCUPANT
1325 NUUANU AVE STE 210
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BUSINESS OCCUPANT
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BUSINESS OCCUPANT
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BUSINESS OCCUPANT
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BUSINESS OCCUPANT
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HONOLULU HI 96817-4034

BUSINESS OCCUPANT
1325 NUUANU AVE STE 201
HONOLULU HI 96817-4034

BUSINESS OCCUPANT
1327 NUUANU AVE
HONOLULU HI 96817-4033

BUSINESS OCCUPANT
1329 NUUANU AVE
HONOLULU HI 96817-4033

BUSINESS OCCUPANT
1333 NUUANU AVE
HONOLULU HI 96817-4033

BUSINESS OCCUPANT
1337 NUUANU AVE
HONOLULU HI 96817-4033

BUSINESS OCCUPANT
1339 NUUANU AVE STE A
HONOLULU HI 96817-4033

BUSINESS OCCUPANT
1339 NUUANU AVE
HONOLULU HI 96817-4033

BUSINESS OCCUPANT
1347 NUUANU AVE
HONOLULU HI 96817-4033

BUSINESS OCCUPANT
1351 NUUANU AVE
HONOLULU HI 96817-4033

BUSINESS OCCUPANT
1365 NUUANU AVE STE 1
HONOLULU HI 96817-4035

BUSINESS OCCUPANT
1365 NUUANU AVE STE 4
HONOLULU HI 96817-4035

BUSINESS OCCUPANT
1365 NUUANU AVE STE 6
HONOLULU HI 96817-4035

BUSINESS OCCUPANT
1365 NUUANU AVE STE 8
HONOLULU HI 96817-4035

BUSINESS OCCUPANT
1365 NUUANU AVE STE 10A
HONOLULU HI 96817-4045

BUSINESS OCCUPANT
1365 NUUANU AVE STE 10B
HONOLULU HI 96817-4045

BUSINESS OCCUPANT
1365 NUUANU AVE STE 11
HONOLULU HI 96817-4035

EXHIBIT 31

MAYOR WRIGHT HOUSING REDEVELOPMENT
Responses to Public Comments on the Draft NEPA EA/FONSI
May 8, 2020

A. PURPOSE

This summary documents the consideration of comments received on the Draft Environmental Assessment (Draft EA)/Finding of No Significant Impact (FONSI) for the proposed Mayor Wright Homes Redevelopment project. Availability of the Draft EA/FONSI for a 30-day public comment period was published in the State of Hawai'i's Office of Environmental Quality Control's (OEQC) *The Environmental Notice* on Februrary 23, 2020 and in newspapers statewide; and mailed to Federal, State, and local government stakeholders, and businesses and residents in the project vicinity (see attached distribution list). The Draft EA/FONSI was made available electronically online at the OEQC website (http://oeqc2.doh.hawaii.gov/Other_TEN_Publications/2020-02-23-OA-NEPA-DEA-Mayor-Wright-Housing-Redevelopment.pdf) and hard copies were provided at the following locations for public review during regular business hours:

- Office of the Governor, State Capitol Executive Chambers, 415 South Beretania Street, Honolulu, HI
- State Library, 478 South King Street, Honolulu, HI
- Kalihi-Pālama Library, 1325 Kalihi Street, Honolulu, HI
- University of Hawai'i Mānoa, Thomas H. Hamilton Library, Room 507, 2550 McCarthy Mall, Honolulu, HI

The 30-day public comment period on the Draft EA/FONSI closed on March 24, 2020. A total of 11 comment letters were received on or by the deadline. All were from public agencies or entities with the exception of one received from Spectrum, a local telecommunications company.

Although the Council on Environmental Quality ("CEQ") regulations do not require response to comments on a Draft Environmental Assessment, the United States Department of Housing and Urban Development (HUD) regulations (24 CFR §58.43(c)) require responsible entities to consider the comments of the public and make modifications, if appropriate, in response to the comments, before it completes its environmental certification and before the recipient submits its Request for Release of Funds (RROF). The following sections include the substantive comments received, responses, and summaries of modifications to the EA where applicable.

B. LETTERS RECEIVED WITH COMMENTS

Eight letters with comments were received on or by March 24, 2020 from:

- Federal Emergency Management Agency (dated February 20, 2020)
- US Fish and Wildlife Services (dated March 4, 2020)
- Spectrum (email received March 5, 2020)
- City & County of Honolulu Board of Water Supply (dated March 16, 2020)
- State of Hawai'i Department of Education (dated March 18, 2020)
- City & County of Honolulu Police Department (dated March 18, 2020)
- State of Hawai'i Department of Transportation (dated March 23, 2020)
- City & County of Honolulu Department of Planning and Permitting (dated March 24, 2020)

C. LETTERS RECEIVED WITH NO COMMENTS

Three letters with no comments or objections were received on or by March 24, 2020 from:

- University of Hawai'i at Mānoa (dated February 27, 2020)
- City & County of Honolulu Department of Design and Construction (dated March 3, 2020)
- State of Hawai'i Department of Human Services (dated March 16, 2020)

D. COMMENTS & RESPONSES

Compliance with 24 CFR §50.4, §58.5 and §58.6 Laws and Authorities

1. Airport Hazards – Clear Zones and Accident Potential Zones, 24 CFR Part 51 Subpart D

1.1 COMMENT – Hawai'i DOT – Airports Division:

The proposed project area is approximately two miles from the Daniel K. Inouye International Airport (HNL). All projects within five miles from Hawaii State airports are advised to read the Technical Assistance Memorandum (TAM) for guidance with development and activities that may require further review and permits.

> ***RESPONSE:***
> Mahalo for the comment regarding the Technical Assistance Memorandum (TAM). As advised, future development activities related to this project that require further review and permits will follow any relevant guidance in the TAM. This information will be added to the EA.

1.2 COMMENT – Hawai'i DOT – Airports Division:

Federal Aviation Administration (FAA) regulation requires the submittal of FAA Form 7460-1 Notice of Proposed Construction or alteration pursuant to the Code of Federal Regulations, Title 14, Part 77.9, if the construction or alteration is within 20,000 feet of a public use or military airport which exceeds a 100:1 surface from any point on the runway of each airport with its longest runway more than 3,200 feet. Construction equipment and staging area heights, including heights of temporary construction cranes, need to be included in the submittal.

> ***RESPONSE:***
> Mahalo for the comment regarding submittal of FAA Form 7460-1 Notice of Proposed Construction or Alternation (Title 14, Part 77.9). Because the nearest runway (26L) at Daniel K. Inouye International Airport is approximately 14,300 feet from the project site, which is within 20,000 feet, the project team recognizes that a FAA FORM 7460-1 will be required for future construction and will include construction equipment and staging area heights, including temporary construction crane heights in the submittal. This information will be added to the EA.

1.3 COMMENT – Hawai'i DOT – Airports Division:

Although the use of solar panels is not mentioned as part of the proposed building architecture, be aware that photovoltaic (PV) systems located in or near the approach path of aircrafts, can create a hazardous condition for pilots because of possible glint and glare reflected from the PV array. If glint or glare from the PV array creates a hazardous condition for pilots, the owner of the PV system shall be prepared to immediately mitigate the hazard upon notification by the HDOT-A

and/or FAA. PV systems have also been known to emit radio frequency interference (RFI) to aviation dedicated radio signals, thereby disrupting the reliability of air-to-ground communications. Again, the owner of the PV system shall be prepared to immediately mitigate the RFI hazard upon notification by the HDOT-A and/or FAA.

RESPONSE:

We appreciate the information regarding the potential hazards photovoltaic arrays may create for aircrafts. As the project moves into design and construction phases this information will be considered should photovoltaics be included in the project.

2. Flood Insurance - Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]

2.1 COMMENT - FEMA:

Please review the current effective Flood Insurance Rate Maps (FIRMs) for the City and County of Honolulu (Community Number 150001), Maps revised November 5, 2014. Please note that the City and County of Honolulu, Hawai‘i are participants in the National Flood Insurance Program (NFIP). The minimum, basic NFIP floodplain management building requirements are described in Vol. 44 Code of Federal Regulations (44 CFR), Sections 59 through 65.

RESPONSE:

This comment addresses the FIRM referenced in the Compliance with 24 CFR §50.4, §58.5 and §58.6 Laws and Authorities section of the draft Environmental Review Record in the Flood Insurance subsection (page 6 of 51). The Federal Emergency Management Agency (FEMA) issued a revalidation letter dated November 4, 2014 that includes the list of revisions to FIRM panel 15003C0354G. None of the revisions were located at or near the project site. The FEMA Flood Map Service Center website (https://msc.fema.gov/portal/home) was also checked again on April 8, 2020 for the latest FIRM panel and found the same FIRM panel. As such, the FIRM information included in Exhibit 2 for the site shows the special flood hazard areas for the project site. The November 4, 2014 revalidation letter has been added to Exhibit 2 and the above language has been added to the Flood Insurance section of the NEPA EA for clarity.

3. Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93

3.1 COMMENT – Hawai‘i DOT – Airports Division

Due to the proximity of the airport to the project location, there is a potential for fumes, smoke, vibrations, odors, etc., that may result from aircraft operations over the proposed development.

RESPONSE:

Mahalo for the information on the potential for fumes, smoke, vibrations, odors, etc. due to the proximity of the site to the airport. No exceedances of any of the National Ambient Air Quality Standards have been recorded at any O‘ahu monitoring stations in the last 5 years. Furthermore, the HI2016AQD report, indicates that values for criteria pollutant from air samples collected from the Sand Island and Honolulu stations are below State and Federal ambient air quality levels.

4. Endangered Species Act – Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402

4.1 COMMENT – USFWS, Pacific Islands Fish and Wildlife Office:
There is no federally designated critical habitat within the immediate vicinity of the proposed project. Our data indicate the following federally listed species may occur or transit through the vicinity of the proposed project area: endangered Hawaiian hoary bat (*Lasiurus cinereus semotus*); endangered Hawaiian petrel (*Pterodroma sandwichensis*), threatened Newell's shearwater (*Puffinus auricularis newelli*), and endangered Hawaii Distinct Population Segment (DPS) of the bandrumped storm-petrel (*Oceanodroma castro*).

4.2 COMMENT – USFWS, Pacific Islands Fish and Wildlife Office:
The Hawaiian hoary bat roosts in both exotic and native woody vegetation across all islands and will leave young unattended in trees and shrubs when they forage. If trees or shrubs 15 feet or taller are cleared during the pupping season, there is a risk that young bats could inadvertently be harmed or killed since they are too young to fly or may not move away.

To avoid and minimize impacts to the endangered Hawaiian hoary bat we recommend you consider incorporating the following applicable measures into your project description:

- Do not disturb, remove, or trim woody plants greater than 15 feet tall during the bat birthing and pup rearing season (June 1 through September 15).
- Do not use barbed wire for fencing.

Hawaiian seabirds may traverse the project area at night during the breeding, nesting and fledging seasons (March 1 to December 15). Outdoor lighting could result in seabird disorientation, fallout, and injury or mortality. Seabirds are attracted to lights and after circling the lights they may become exhausted and collide with nearby wires, buildings, or other structures or they may land on the ground. Downed seabirds are subject to increased mortality due to collision with automobiles, starvation, and predation by dogs, cats, and other predators. Young birds (fledglings) traversing the project area between September 15 and December 15, in their first flights from their mountain nests to the sea, are particularly vulnerable.

To avoid and minimize potential project impacts to seabirds we recommend you incorporate the following applicable measures into your project description:

- Fully shield all outdoor lights so the bulb can only be seen from below bulb height and only use when necessary.
- Install automatic motion sensor switches and controls on all outdoor lights or turn off lights when human activity is not occurring in the lighted area.
- Avoid nighttime construction during the seabird fledging period, September 15 through December 15.

RESPONSE:
We appreciate the confirmation that no federally designated critical habitats are within the immediate vicinity of the proposed project. The ERR has been revised to include all of the species listed that may occur or transit through the vicinity of the project area including the endangered Hawaiian hoary bat (*Lasiurus cinereus semotus*); endangered Hawaiian petrel (*Pterodroma*

sandwichensis), threatened Newell's shearwater (*Puffinus auricularis newelli*), and endangered Hawai'i Distinct Population Segment (DPS) of the bandrumped storm-petrel (*Oceanodroma castro*).

We also appreciate your inclusion of suggested mitigation related to the Hawaiian hoary bat and Hawaiian seabirds who may occur or transit through the project area. The impact code will be changed to 3 and the language in the mitigation section related to endangered and threatened species has been revised to include the recommended USFWS measures related to the Hawaiian hoary bat and Hawaiian seabirds. These changes can be found on pages 14-15 as Mitigation Measures in Attachment 10.

5. Historic Preservation - National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800

5.1 COMMENT – City & County of Honolulu DPP, Planning Division

It should be noted that all building permits will be routed to the Department of Land and Natural Resources Historic Preservation for review.

RESPONSE:

Mahalo for your comment regarding building permit review by the Department of Land and Natural Resources State Historic Preservation Division (SHPD). Language noting that all building permits will be routed to SHPD has been added to the discussion related to the National Historic Preservation Act of 1966, which can be found in the in the Mitigation Measures and Conditions Table on page 2 of Attachment 10.

6. Noise Abatement and Control – Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B

6.1 COMMENT – Hawai'i DOT – Airports Division

The subject development lies near the ingress and egress routes to HNL for both military helicopters and light civil aircraft. Most civil air operations occur during daylight hours; however, most military flight activity is day and night. The proposed site is within the 55 to 60 DNL (Day-Night Average Noise Level) noise contour. Additionally, existing development and any subsequent proposed project may be subject to single event noise from aircraft operations which may exceed the 65 DNL.

RESPONSE:

Mahalo for the information regarding noise generated from aircraft operations from Daniel K. Inouye International Airport (HNL). The DNL noise contour is referenced in the draft NEPA EA and it is noted that the Federal Aviation Administration (FAA) guidelines indicate that residential land uses are compatible with areas exposed to aircraft-related noise levels of less than 65 dBA Ldn. It is also noted that single event noise from aircraft operations exceeding 65 DNL may be audible at the project site, however single event noise levels as measured at the site were not found to be excessive during day or night time periods.

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27]

7. Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design

7.1 COMMENT – City & County of Honolulu DPP, Transit-Oriented Development (TOD) Division

a. Conformance to TOD Planning: We support the identified goals and intended use of the Project as it is consistent with the Downtown Neighborhood TOD Plan principle to expand and provide housing opportunities and a range of housing types, and develop a vibrant mixed-use neighborhood with buildings oriented towards the streets. More specifically, the Project is also consistent with the development vision for the Iwilei station area within the TOD Plan.

b. Massing: While Attachment 9 addresses the massing alternatives, there is no comparable three-dimensional graphic in this document that represents the Project's actual preferred Conceptual Master Plan (CMP) (Figure 3).

c. Frontage: Regarding the Project's CMP (Figure 3), we commend that a number of proposed parking structures are being incorporated within residential blocks. However, we note that one parking structure fronts a sizable portion of Vineyard Boulevard. We strongly encourage that this structure be wrapped behind commercial and/or housing uses, especially on the ground floor. The TOD Plan designates mixed-use medium density along Vineyard Boulevard, Liliha Street, North King Street, and Pua Lane (Figure 2-4 of TOD Plan), while encouraging active frontages and requiring pedestrian-oriented design along Vineyard Boulevard, Liliha Street, and North King Street (Figure 2-5 of TOD Plan).

RESPONSE:

Mahalo for your support and confirmation of the project's consistency with the vision for the Iwilei station area within the Downtown Neighborhood TOD Plan. Regarding massing, while the exact location, design, or mix of uses for each structure beyond the conceptual level of design is not currently known, we have included a three-dimensional graphic that illustrates the preferred conceptual master plan. Please note that the exact building configurations, massing, and locations including the four high rises are subject to change and may vary from the image when constructed.

Mahalo for your recommendations on street frontages. Street frontages will be activated wherever possible with commercial uses or housing. Where there are parking structures facing streets, screen walls and landscaping will be used to mitigate this in order to keep construction costs lower. When all sides of parking structures are wrapped by such spaces, construction costs can increase due to required firewalls and mechanical ventilation systems, inefficient design related to single-loaded corridors, additional lighting, etc. Reducing these construction costs will help keep the units affordable. It will also reduce ongoing maintenance and operational costs. When parking structures are open to natural air and light, they can also help increase the feeling of safety within the parking structures. The screen walls where they occur will be designed to be visually interesting and streets will be landscaped to contribute to the pedestrian environment as outined in the TOD Special District Guidelines for Structured Parking and Podiums. Market demand will also dictate whether providing that much

commercial space is viable as vacant storefronts are also undesirable street frontages. Parking structures could also be designed with flat decks to provide flexibility of use and converted to commercial spaces along street fronts should demand develop in the future.

7.2 COMMENT – City & County of Honolulu DPP, Planning Division

The Final EA should refer to specific views on the Primary Urban Center Development Plan (PUC DP) Significant Public Views map and suggest proposed mitigation.

RESPONSE:

Mahalo for your comment regarding the PUC DP's Signficant Public Views map. Although not a required Environmental Assessment Factor for NEPA reviews, an analysis of this projects impact on viewplanes and a new Figure 31 showing the PUC DP Significant Panoramic Views has been added to the "Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design" section of the EA. The analysis notes that the MWH Redevelopment may impact distant panoramic views of natural landmarks such as Lēʻahi Crater, Pūowaina Crater, Āliamanu Crater, and the Koʻolau Mountain Range from certain viewpoints. As such, an impact score of 3 is identified in the EA factors analysis in Attachment 6 and mitigation is included in Attachment 10. This mitigation section includes the following discussion and measures:

> "Visual impacts from the project must take into consideration the highly urban nature of this viewshed with buildings in Downtown Honolulu extending up to about 430 feet in height. While views to specific landmarks from various viewpoints within the Primary Urban Center may be altered by the proposed project, the overall urban character of this viewshed will not be significantly altered. The plan attempts to mitigate visual impacts by:
>
> - Providing fewer towers with low- and mid-rise buildings comprising most of the street-facing building massing and space between the towers to preserve distant views where possible;
> - Activating the street level views with landscaping and pedestrian-friendly streetscapes, commercial uses, and lower- and mid-rise residential buildings where possible;
> - Creating a more interesting skyline by varying building heights;
> - Setting the towers 50 feet back from Pua Lane and Liliha Streets to minimize their visual impacts from the street level of adjacent neighborhoods; and
> - Orienting the towers with their narrower sides facing the mauka and makai sides of the site and their wider side facing east and west to preserve mauka to makai views."

7.3 COMMENT – City & County of Honolulu DPP, TOD

We stand by our previous comments in the Department of Planning and Permitting's (OPP) letter dated October 25, 2017, for the Project's Hawaii Revised Statutes Chapter 343 Final EIS requirement (2017/ELOG-1820), which included more details.

RESPONSE:

We have attached your October 25, 2017 comment letter from the state EIS process and related response letter as a new Exhibit 33 in the NEPA EA.

7.4 COMMENT – City & County of Honolulu DPP, Land Use Permit Division

The Final EA should include the Project's status of the 201H process; describe the proposed program phases.

RESPONSE:

Updated language stating that the project team anticipates submitting the 201 H application to DPP in Spring 2020 has been added to the EA section, "Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design," which is included in the EA as attachment 6 and added to the Mitigation Measures in Attachment 10.

The proposed phasing plan estimates that the site will be redeveloped in five phases, each taking roughly two years to complete for a total of 10+ years.

8. Soil Suitablity Soil Suitability / Slope/ Erosion / Drainage and Storm Water Runoff

8.1 COMMENT – City & County of Honolulu DPP, Civil Engineering

a. A trenching permit may be required.
b. A drain connection license is required.
c. The Project shall comply with the prevailing "Rules Relating to Water Quality." The Project is categorized as Priority A.
d. The Project shall comply with the prevailing "Storm Drainage Standards." The effects of sea level rise shall be addressed in the drainage report.

RESPONSE:

Mahalo for the comment. We acknowledge that trenching permits and drain connection license will be required for the project. As discussed in the in the "Soil Suitability/ Slope/Erosion/ Drainage/Storm Water Runoff" EA section, the project's engineering team will coordinate with the City to ensure that the project is designed to comply with the prevailing "Rules Relating to Water Quality" (noting the project is categorized as Priority A) and "Storm Drainage Standards." Additional language has been added the section clarifying that the effects of sea level rise will be addressed in the projects drainage report(s).

9. Educational and Cultural Facilities (Access and Capacity)

9.1 COMMENT – Hawai'i Department of Education (HIDOE)

The MWH Partners, LLC should continue discussion with HIDOE to address impacts on student relocation during Project demolition and execute an educational contribution agreement to satisfy school impact fee requirements.

RESPONSE:

We appreciate this comment and HIDOE's engagement in the planning process to-date. As the project moves into design and construction, MWH Partners will continue discussions with HIDOE regarding impacts on student relocation and transition during the various phases of this project. MWH Partners will coordinate with DOE to execute the educational contribution agreement to satisfy the school impact fee requirements. This information will be added to the EA.

10. Waste Water and Sanitary Sewers (Feasibility and Capacity)

10.1 COMMENT – City & County of Honolulu DPP, Wastewater Branch

Wastewater Branch: The previously approved Sewer Connection Application (2017/SCA-0438) has expired. Please submit a new Sewer Connection Application for approval.

RESPONSE:

We appreciate the notice that the previously approved Sewer Connection Application (2017/SCA-0438) has expired. The project team has submitted a new Sewer Connection Application for approval to DPP Wastewater Branch and will continue this process for each of the development phases.

11. Water Supply (Feasibility & Capacity)

11.1 COMMENT – City & County of Honolulu Board of Water Supply (BWS)

a. The existing water system is adequate to accommodate the domestic demands and off-site fire protection to the proposed redevelopment. However, please be advised that this information is based upon current data, and therefore, the Board of Water Supply (BWS) reserves the right to change any position or information stated herein up until the final approval of the building permit application. The final decision on the availability of water will be confirmed when the building permit application is submitted for approval.

b. BWS may waive the Water System Facilities Charges (WSFC) and new meter cost for qualified on-site affordable or homeless dwelling units, up to 500 dwellings units per year, on a first come first served basis. The waivers will be granted when the building permit is submitted for approval. To qualify, the dwelling units must be certified as either affordable or homeless dwelling units by the appropriate agency of the City and County of Honolulu and the certification must be provided when the building permit application is submitted for BWS review and approval. For non-qualifying units, the applicant will be required to pay our WSFC for resource development, transmission and daily storage.

c. Water conservation measures are required for the proposed redevelopment. These measures include utilization of non-potable water for irrigation using rain catchment, drought tolerant plants, xeriscape landscaping, efficient irrigation systems, such as a drip system and moisture sensors and the use of water sense labeled ultra-low-flow water fixtures and toilets.

d. As proposed in Exhibit 25 of the MWH Draft Environmental Assessment, Preliminary Engineering Report, Figure 13, we acknowledge that the existing 12-inch water main running through the property along North Kukui Street, between Pua Lane and Liliha Street, will be cut and plugged. A new potable water connection will be made to the 12-inch distribution main and a 10-inch master meter is to be installed at the intersection of North Kukui Street and Liliha Street. The construction plans should be

submitted for BWS review and approval. The construction schedule should be coordinated with BWS to minimize impacts on the water system.

e. The proposed project is subject to BWS Cross-Connection Control and Backflow Prevention requirements prior to the issuance of the Building Permit Applications.

f. Proposed mixed use developments are required to install separate domestic water meters and laterals serving the residential and non-residential spaces.

RESPONSE:

Mahalo for confirming that the water system is adequate to accomodate the water demands associated with the proposed redevelopment. We understand that the final decision n the availability of water will be confirmed when the building permit application is submited for approval.

Mahalo for the information regarding the Water System Facilities Charges and new meter waivers. The project team will take this into consideration for the qualifying affordable units in the proposed redevelopment.

As noted in the "Water Supply" analysis in the Environmental Assessment Factors table included as Attachment 6, all efforts will be made to include water reducing design elements in the proposed proiect. The project team will coordinate with BWS to minimize impacts on the water system throughout the construction phases and submit construction plans for BWS review and approval including required cross-connection controls, backflow prevention, and separate domestic water meters and laterals. Furthermore, the project design will comply will all applicable City standards at the time building permits are submitted to DPP and the project design team will coordinate with BWS and other relevant departments leading up to the submittals to ensure compliance with requirements.

12. Public Safety – Police, Fire and Emergency Medical

12.1 COMMENT – BWS

The on-site fire protection requirements should be coordinated with the Fire Prevention Bureau of the Honolulu Fire Department.

RESPONSE:

Mahalo for your comment regarding fire protection. As noted in the "Public Safety" analysis in the Environmental Assessment Factors table included as Attachment 6, onsite fire protection requirements will be coordinated with the Fire Prevention Bureau of the Honolulu Fire Department and the design of the future facilities will meet Honolulu Fire Department requirements.

13. Transportation and Accessibiity (Access & Capacity)

13.1 COMMENT – Hawai'i Department of Transportation, Highways Division (HDOT-HWY)

We support the redevelopment project and the long-term beneficial impacts on multimodal transportation; however, the additional 8,000 (approximate) daily trips would have adverse impacts on State roadways. Roadway improvements to mitigate the impacts are proposed, but they have not been approved by HDOT-HWY. Clarify the rationale for the impact code of "2, No impact anticipated" for Transportation and Accessibility (Attachment 6) in the context of NEPA guidance for U.S. Department of Housing and Urban Development.

RESPONSE:

Mahalo for catching this inconsistency between the selected impact code and described impacts related to the transportation systems accessiability and capacity. The impact code has been revised to level 3 – "Minor Adverse Impact – May require mitigation." Additionally, language clarifying that state roadway improvement to mitigate adverse impacts related to additional vehicle demand are subject to HDOT-HWY approval has been added to the discussion of mitigation measures in Attachment 6 and Attachment 10.

13.2 COMMENT – HDOT-HWY

The proposed driveway on North Vineyard Boulevard has not been approved by HDOT-HWY. The distance between Pua Lane and Liliha Street intersections is approximately 1,000 feet. The proposed driveway is approximately midway between the two intersections. New driveways on principal arterials is generally discouraged, especially when the driveway is 500 feet or less distance from the nearest intersection. In this case, the driveway is about 500 feet from two intersections. The proposed right-in-right-out restriction at the proposed driveway reduces the potential impact. Mention in the EA that the proposed access and mitigation are subject to HDOT-HWY approval.

RESPONSE:

Mahalo for your comment regarding the new driveway proposed on Vineyard Boulevard. Please note that in emails from June 2018 with Ken Tatsuguchi, State Department of Transportation (DOT), Highways Division Planning Branch, he confirmed that DOT Administration was agreeable with this mid-block intersection on Vineyard Boulevard. Please see Exhibit 29 in the NEPA EA. We have also attached a letter dated October 3, 2018 from Chris M. Yamamoto, DOT Right-of-Way Manager (Reference HWY-RM 3.94776) in this exhibit that states there are no access restrictions along North Vineyard Boulevard in the area of the project and that no documentation of the access is therefore required by their office.

13.3 COMMENT – HDOT-HWY

The project will be responsible for providing the transportation improvements as recommended in pages 64-67 of the 2018 MTA (subject to final approval of HDOT). Mitigation for direct impacts to State roadways will be provided at no cost to the State. Regional improvements will be provided on a pro-rated basis. These improvements shall be constructed on a schedule acceptable to the HDOT-HWY.

RESPONSE:

Language clarifying the project's relative responsibilities for roadway improvements, as recommended in the 2018 MTA has been added to the Mitigation Measures in Attachment 10.

13.4 COMMENT – HDOT-HWY

Provide the total number of parking spaces proposed in the current conceptual design. The HDOT-HWY supports Travel Demand Management strategies to reduce the number of parking spaces and trips generated.

RESPONSE:

Mahalo for the comment regarding total number of parking space proposed in the Project's conceptual design. The following text has been added to the "Transportation and Accessibility" section of the Envrionmental Assessment Factors table in Attachment 6:

> "Off-street parking is proposed as structured parking to increase site efficiencies. The number of parking stalls are estimated at a minimum of 2,448 parking stalls based on City's TOD ordinance and up to roughly 3,300 stalls depending on the needs of the commercial uses and residential demand for parking. This includes resident, guest, and ADA-accessible stalls. The parking may also be decoupled from non-public housing residential units in order to give future residents the option of having or not having a parking stall, given the easy access to public transportation and proximity to job centers."

Mahalo for your comment supporting the proposed mitigation measures related to transportation demand management strategies. As noted, efforts will be made which may lead to reduced trips generated and use of alternative modes of transportation.

13.5 COMMENT – HDOT-HWY

The potential overlap of project construction with the Honolulu Authority for Rapid Transportation (HART) facilities (alignment and Iwilei Station) construction on Dillingham Boulevard could result in indirect and cumulative adverse impacts to State roads, including freight corridors. The HART construction would not be adjacent to the project site but would likely divert traffic to roadways in the vicinity. Identify the potential impact of overlapping project and HART construction in the EA. As mentioned in the Draft EA, a Traffic Management Plan (TMP) is required and coordination among stakeholders is important for mitigating these impacts.

RESPONSE:

The current HART rail construction involves the relocation of utilities (also known as the City Center Utility Relocation) in the Dillingham Boulevard corridor and the closure of one lane in each direction on that roadway for an estimated period of two years. This construction configuration, also known as the Controlled Access scenario, is expected to divert traffic to other streets including N. King Street, Liliha Street, and N. Vineyard Boulevard adjacent to the Mayor Wright Housing project site. This diversion would primarily occur in the peak commute periods with lower levels of diversion expected outside the peak periods. Subsequent to utility relocation, the rail guideway will be constructed in the Dillingham Boulevard corridor. Because the Mayor Wright Housing project will be built in phases over an extended period of time, traffic conditions on the surrounding streets are expected to change due to HART construction activities and cannot be reasonably projected at this time.

However, prior to construction being initiated on the Mayor Wright site, the project will prepare a construction traffic management plan (CTMP) to address how trucks and construction worker traffic will access and circulate around the project site. The current conditions on streets fronting the site at the time project construction is initiated will be used to make recommendations on construction traffic circulation, time periods to avoid, and other management strategies. The CTMP will be made available for review and comment by City and County Department of Planning and Permitting (DPP) and State of Hawaii Department of Transportation – Highways Division (HDOT-HWY) staff because both agencies will need to authorize encroachment and/or building-related permits. At that time, the project contractor will work with the affected agencies and coordinate with stakeholders to minimize construction traffic impacts, identify any potential circulation issues, and implement strategies to reduce or eliminate impacts.

Language reflecting the response above has been added to the EA factors analysis for "Transportation and Access" in Attachment 6 and the "Transportation" section of the "Mitigation Measures and Conditions" table in Attachment 10.

13.6 COMMENT – HDOT-HWY

Describe pipeline and other infrastructure alignments that may be removed or constructed within the HDOT Right-of-Way (ROW). A Use and Occupancy Permit approved by the HDOT Highways Division, ROW Branch is required for proposed use of the ROW. Add this to the list of permits, if applicable.

RESPONSE:

Proposed improvements affecting the surrounding city and state road rights-of-way include new private driveway and sidewalk connections and underground and overhead utility infrastructure. The proposed underground utility infrastructure includes gravity sewer and water service improvements within Pua Lane, N. King Street and Liliha Street. Underground electrical primary distribution facilities are proposed within N. King Street as well as Liliha Street and Dillingham Boulevard. Language has been added clarifying that access requests, as required, and construction plans will be submitted to the HDOT Highways Division and to DPP for approval. HDOT Use and Occupancy Permits will be obtained for the improvements within state rights-of-way. These changes can be found in the "Transportation" section of the "Mitigation Measures and Conditions" table in Attachment 10.

13.7 COMMENT – HDOT-HWY

As noted in the Draft EA, a Permit to Perform Work Upon State Highways and TMP be required for any work within the State ROW. Construction plans prepared by a Hawaii licensed engineer shall be submitted for review and approval prior to applying for a permit to perform work.

RESPONSE:

The project team includes and will include engineers licensed in the state of Hawaii who will prepare the project's construction plans and will coordinate with HDOT on plan submittals, reviews, and approvals. This language has been added to the EA in the "Transportation" section of the "Mitigation Measures and Conditions" table in Attachment 10.

13.8 COMMENT – Honolulu Police Department (HPD)

The Honolulu Police Department (HPD) anticipates short-term impacts to vehicular traffic around the project area. The HPD recommends that all necessary signs, lights, barricades, and other safety equipment be installed and maintained by the contractor during the construction phase of the project. Based on the report, an additional 2,084 housing units will be added to this redevelopment project to include retail/office space and community services areas. The HPD would like to be included when these sections are to be planned or discussed with the stakeholders in the area, as there may be a need for additional police services.

RESPONSE:

Mahalo for your comments regarding short-term impacts to vehicular traffic and recommendations to mitigate these impacts. This information has been added to the EA in the "Transportation" section of the "Mitigation Measures and Conditions" table in Attachment 10. The project team will be sure to coordinate with HPD as the project moves through implementation of the project.

Public Outreach [24 CFR 58.43]

14. Stakeholder Outreach

14.1 COMMENT - Spectrum

Spectrum would like to participate in the planning of this project to determine the extent of any relocation to the existing aerial and underground facilities. Spectrum is also requesting to be included in any coordination/planning meetings with the other utilities. Spectrum currently maintains coax and fiber facilities both aerial and underground within the project area; however, services provided for residential, commercial, DOE, State and County entities extend beyond the project's boundaries. Should you have any questions or concerns, please feel free to contact me.

Response:

Mahalo for your comments. We understand the concerns with your existing infrastructure. The project design team will coordinate with Spectrum as more detailed design and planning is developed for the various construction phases.

E. PHONE CORRESPONDENCE

In addition to the written comments, six phone calls were received in response to the Draft EA/FONSI. A Phone Correspondence Record of the discussions is attached to the EA as Exhibit 32.

EXHIBIT 32

PBR HAWAII
& ASSOCIATES, INC.

THOMAS S. WITTEN, FASLA
Chairman / Principal

R. STAN DUNCAN, ASLA
President / Principal

RUSSELL Y. J. CHUNG, FASLA, LEED® AP BD+C
Executive Vice-President / Principal

VINCENT SHIGEKUNI
Senior Vice-President / Principal

GRANT T. MURAKAMI, AICP, LEED® AP BD+C
Vice-President / Principal

TOM SCHNELL, AICP
Principal

KIMI MIKAMI YUEN, LEED® AP BD+C
Principal

W. FRANK BRANDT, FASLA
Chairman Emeritus

ANN MIKIKO BOUSLOG, PhD
Project Director

RAMSAY R. M. TAUM
Cultural Sustainability Planner

RAYMOND T. HIGA, ASLA
Senior Associate

CATIE CULLISON, AICP
Senior Associate

MARC SHIMATSU, ASLA
Senior Associate

DACHENG DONG, LEED® AP
Senior Associate

MICAH McMILLEN, ASLA, LEED® AP
Associate

NATHALIE RAZO
Associate

GRACE ZHENG, ASLA, LEED® GA, SITES® AP
Associate

BRIAN WOLF, ASLA, LEED® AP
Associate

BLAINE ONISHI, ASLA
Associate

HONOLULU OFFICE
1001 Bishop Street, Suite 650
Honolulu, Hawai'i 96813-3484
Tel: (808) 521-5631
Fax: (808) 523-1402
E-mail: sysadmin@pbrhawaii.com

printed on recycled paper

PHONE CORRESPONDENCE RECORD

DATE: March 24, 2020

SUBJECT: Mayor Wright Homes (MWR) Redevelopment Draft EA/FONSI Questions and Comments Received via Telephone between February 19, 2020 and March 24, 2020

1. February 19, 2020 2:53 PM – Andrew Nakoa

a. Andrew Nakoa, current MWH resident, called with a concern regarding water ponding under his car in the existing MWH parking lot and the potential issue with groundwater infiltration at the future redevelopment. The location of his parking stall is on the Vineyard Blvd. side of the site. (Received by Kimi Yuen)

b. Response: This may be an issue that current management could assist with as the location of his current parking stall is at the higher elevation of the site. The future project will be designed to manage drainage, but his concern will be noted and shared with the project team with regards to the design of future development.

2. February 19, 2020 3:26 PM – Trina

a. Trina, a current resident, asked about the project timing. She recently moved to a unit that she hopes will be in a later phase of construction. (Received by Kimi Yuen)

b. Response: the exact timing is still unknown. However, the NEPA EA and 201H application is targeting completion by this year so design and construction would follow.

3. March 2, 2020 8:20 AM – Māhealani

a. Māhealani, a current resident, called to ask whether her building, building 19, is slated to be demolished soon and whether she will receive any help relocating when it is demolished. (Received by Malachi Krishok)

b. Response: The phasing of the phasing of the project is still being planned, but any demolition and relocation of residents will not occur this year. When a relocation schedule is planned and accepted the residents will be given advanced notice and will receive assistance relocating to different housing from HPHA. Once the new public housing units are built, current residents will have the option to return.

4. March 5, 2020 9:41 AM – Mi Ja Kim

a. Mi Ja, a current MWH resident, asked if the housing project had been purchased and if she would have to move or re-apply with a credit check to live there in the future. (Received by Malachi Krishok)
b. Response: The project is a redevelopment project for Mayor Wright Homes and is a partnership between the HPHA and a private developer. The public housing currently existing will be replaced and made available in the new development. Current residents will have the option to return.

5. March 20, 2020 3:10 PM – Matt

a. Matt, a current resident of MWH, called to find out more about the redevelopment project and timing. (Received by Kimi Yuen)
b. Response: The existing MWH will be redeveloped in phases into a mixed-use, mixed income community with a one-for-one replacement of the existing public housing units based on the number of bedrooms. The housing units will all be rentals with two-thirds targeted for affordable housing for those earning up to 120% area median income (AMI). The project is still going through environmental review and permits, and residents will be notified in advance of when demolition and construction will occur. The development partner will also be in touch to help with transition and relocation of existing residents.

6. February 18, 2020 – Cynthia Delima message

a. Several attempts were made to call back Ms. Delima but have not been successful as her voice mailbox has been full and no one has picked up the line.

This is our understanding of the topics discussed and the conclusions reached.

EXHIBIT 33

DEPARTMENT OF PLANNING AND PERMITTING
CITY AND COUNTY OF HONOLULU
650 SOUTH KING STREET, 7TH FLOOR • HONOLULU, HAWAII 96813
PHONE: (808) 768-8000 FAX: (808) 768-6041
DEPT. WEB SITE: www.honolulu.gov/dpp WEB SITE: www.honolulu.gov

KIRK CALDWELL
MAYOR

KATHY K. SOKUGAWA
ACTING DIRECTOR

TIMOTHY F. T. HIU
DEPUTY DIRECTOR

2017/ELOG-1820(at)

October 25, 2017

Ms. Kimi Yuen
Principal
PBR HAWAII & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

Dear Ms. Yuen:

SUBJECT: Draft Environmental Impact Statement (DEIS)
Mayor Wright Homes (MWH) Redevelopment; Tax Map Key: 1-7-029:003

In response to your letter dated September 5, 2017, soliciting comments on the DEIS for the MWH Redevelopment in the Kalihi area of the Primary Urban Center, the Department of Planning and Permitting (DPP) offers the following comments. In general, the DPP supports the MWH redevelopment project and its effort to increase much needed affordable housing, while improving the livability of this urban neighborhood.

Conformance with Existing Plans

1. The proposed redevelopment is consistent with the General Plan (GP) as described in Section 5.3.1 of the DEIS.

2. The proposed redevelopment is consistent with the Primary Urban Center Development Plan (PUC DP), especially Section 2.3 (The PUC Offers In-Town Housing Choices for People of All Ages and Incomes) and Section 3.2.2.3 (Policies for In-Town Residential Neighborhoods). Section 5.3.2 of the DEIS also describes the project's conformance to PUC DP.

3. The DEIS identifies the planned energy-efficient and sustainable building practices that are being considered for this project, including optimal siting and natural ventilation and lighting, water use reductions through low-flow fixtures, efficient irrigation, Energy Star appliances, and other elements. These design features are supported by the GP Housing Objective A, Policy 10 (Promote construction of affordable dwellings which take advantage of O'ahu's year-round moderate climate), and the PUC DP Policies 4.1.2 (Adapt water conservation

practices in the design of new developments and modification of existing uses, including landscaped areas), and 4.3.2 (Promote and implement energy conservation measures and integrated resource planning).

4. The DEIS describes the potential impacts of the project on viewsheds that are identified as significant in the PUC DP, especially view objects such as the Koʻolau Mountain Range, Lēʻahi Crater (Diamond Head), and Pūowaina Crater (Punchbowl), and lists potential mitigation measures. The project should make every effort to implement mitigation measures as described in Section 4.6 of the DEIS.

5. The proposed redevelopment is also consistent with the recently adopted Downtown Neighborhood Transit-Oriented Development (TOD) Plan principle to expand and provide housing opportunities and a range of housing types, and develop a vibrant mixed-use downtown. The project is also consistent with the development vision for the Iwilei station area. Section 5.3.4 of the DEIS also describes the project's conformance to the TOD Plan.

   Section 5.3.3 of the Final Environmental Impact Statement (EIS) should specify that the Downtown TOD Plan was adopted under City Council Resolution No.16-247, CD1, FD1, on September 6, 2017.

6. Because the DEIS states that two-thirds of the current senior population of MWH are physically disabled, the project should incorporate recommendations from the Honolulu Age-Friendly City Action Plan. Appropriate plans may include zero-step entrances for ground-floor units and other accessible universal design measures, indoors and out.

Land Use Permitting

7. The MWH redevelopment should make every effort to meet or approximate City park requirements and open space policies by including active and passive recreation opportunities, public and private open spaces, and visual access to green spaces within the development.

8. The Final EIS should fully explain what modifications or waivers will be sought from City codes and requirements, including the zoning code, fees, and park dedication. It should also include a full exploration of the permits that could be utilized for the project, and a determination of which permits the Applicant intends to use. For example, as a public use and structure, the project could qualify for a Zoning Waiver to waive zoning requirements under the provisions of Chapter 21-2.130 of the Land Use Ordinance (LUO). As an affordable housing project, it could qualify for exemptions under a Chapter 201H approval.

Because it is within the area covered by the TOD Plan and the future TOD Special District, it could qualify for an Interim Planned Development-Transit (IPD-T) permit.

9. The Applicant is exploring use of more than one land use permit to accomplish the plan (i.e., Chapter 201H and/or IPD-T). The Final EIS should explain the planned permitting strategy and which provisions can be approved or modified through that permit or permits.

Project Master Plan

10. Figure 1, the "Conceptual Master Plan," should provide additional detail. Information regarding the use of each area or building should be shown on the plan. In addition, we request that the corner of the project at King Street and Liliha Street be considered as a major entry focal point to MWH, as well as a placemaking and wayfinding element for the neighborhood.

11. Section 2.3.1 of the DEIS states that the project will include a building with as many as nine stories and range up to 380 feet in height. We suspect that some of the planned towers will be more than nine stories high. The Final EIS should clarify this.

12. The DEIS should provide elevation or renderings of the project from public vantage points, such as surrounding roadways and open spaces.

13. Any proposed tall buildings in the Final EIS should take into consideration the shadow impact on adjacent low-rise buildings, especially across Pua Lane.

14. Consider implementing proposed community amenities (community park, community center, multi-purpose hale) in earlier phases of the project.

Connectivity

15. Figure 1-3 of the TOD Plan shows a "Proposed Street" extending Desha Lane from King Street to North Vineyard Boulevard. We note that the MWH Conceptual Plan will not accommodate this proposed street and should be addressed in the Final EIS. The Traffic Impact Report should provide an analysis that includes this "Proposed Street." At minimum, a pedestrian and bicycle connection should be considered from Desha Lane.

16. High-quality pedestrian facilities and safe, convenient access to transit centers are essential components of successful TOD. While the DEIS has offered limited pedestrian infrastructure upgrades, the Applicant should consider

additional off-site improvements to North Vinyard Boulevard, Liliha Street, North King Street, and Dillingham Boulevard, including the busy Dillingham Boulevard/North King Street/Liliha Street intersection and the North Vineyard Boulevard/Liliha Street intersection, to encourage non-vehicular trips and improve access to the future Iwilei rail station.

17. The sidewalks along external streets should be designed and landscaped as envisioned in Section 4.2 of the TOD Plan. Canopy trees should be provided for sun shading, and planter strips with street trees should be located between the street curb and sidewalk to buffer pedestrians from vehicular traffic.

18. Convenient and secure bicycle parking within the MWH development should be a part of the bicycle facilities improvement in the Final EIS. Provision of bike share sites is also recommended.

Parking

19. Page 2-12 of the Draft EIS, related to parking, states that the number of parking stalls constructed will be based on City and County of Honolulu standards. However, it also suggests that the IPD-T permit process, which allows for modifications to these standards, could be used to reduce parking. The Final EIS should specify the number of parking stalls currently on the site, the approximate number that will be provided with the redevelopment project, the number required under the LUO, and a comparison of these numbers. It may be useful to know how many current tenants own cars and discuss future demand for parking spaces.

20. If the Applicant pursues an IPD-T permit, the TOD Plan recommends that existing parking requirements be reduced by at least 50 percent from current LUO requirements. Projects that provide conventional levels of parking will attract residents, commercial tenants, and customers who do not plan to walk, bike, or take transit, and the resulting traffic will overwhelm already crowded, existing area streets. Car share programs and facilities such as passenger drop-offs and pick-ups should be encouraged on-site for convenience and reduce necessity for car ownership. Projects that do not reduce their parking provision should not be allowed to build beyond the densities allowed under current zoning.

Traffic Review

While not necessarily required for the FEIS, the following comments below, Nos.21. – 30., should be addressed in future discretionary permits downstream.

21. An overall timeline should be provided for the five proposed phases of the development. This overall timeline should include the components of each phase. Each of the five phases should have its own timeline or phasing plan of the anticipated dates to obtain major building permit(s) for demolition/construction work, including the projected date of occupancy, prepared by the Applicant in a format acceptable to the DPP. The timeline should identify when the construction management plan (CMP), the traffic management plan (TMP), updates and/or validation to the findings of the initial traffic impact analysis report (TIAR), and off-site roadway work will be submitted for review and approval in relation to when approvals for construction plans, building and occupancy permits will be necessary. Typically, the CMP should be submitted for review and approval prior to the issuance of demolition/building permits for major construction work. The TMP or subsequent updates should be submitted and approved prior to the issuance of the (temporary) certificate of occupancy. An updated TIAR, including supplemental studies or subsequent updates, should be submitted and approved for each phase, or for every 500 residential units after the (temporary) certificate of occupancy. A new TIAR may be required if there is a significant change to the scope or timing of the major work items contained in the initial report. It is recommended that this overall timeline be provided to DPP as soon as possible.

22. The CMP shall identify the type, frequency, and routing of heavy trucks and construction related vehicles. Every effort shall be made to minimize impacts from these vehicles and related construction activities. The CMP should identify and limit vehicular activity related to construction to periods outside of the peak periods of traffic, utilizing alternate routes for heavy trucks, provisions for either on-site or off-site staging areas for construction related workers and vehicles to limit the use of on-street parking around the project site, and other mitigation measures related to traffic and potential neighborhood impacts. Preliminary or conceptual traffic control plans should also be included in the CMP. The Applicant shall document the condition of roadways prior to the start of construction activities and provide remedial measures, as necessary, such as restriping, road resurfacing, and/or reconstruction if the condition of the roadways has deteriorated as a result of the related construction activities.

23. A TMP shall include traffic demand management (TDM) strategies to minimize the amount of vehicular trips for daily activities by residents and employees. TDM strategies could include carpooling and ride sharing programs, transit, bicycle and pedestrian incentives, and other similar TDM measures. A pedestrian and bicycle circulation plan should also be included to provide accessibility and connectivity to and along the surrounding public sidewalks and at street intersections, as it relates to complete streets and access to the Iwilei rail station. A post TMP will be required after the near term build-out, and after

full build-out, to validate the relative effectiveness of the various TDM strategies identified in the initial report.

24. Updates to the TIAR will be required approximately one year after the issuance of the certificate of occupancy for each phase, or for every 500 residential units, to validate the traffic projections, trip reduction rates, distribution, and assignment contained in the initial TIAR. If additional traffic mitigation measures or modifications are necessary to support related traffic impacts directly attributable to this development, the Applicant will be required to implement these measures. TIAR updates should also include an evaluation of the relative effectiveness of the TDM strategies as the development progresses, making sure that the trip reduction rates are valid.

25. Construction plans for all work within or affecting public streets should be submitted for review and approval. Traffic control plans during construction should also be submitted for review and approval, as required. Vehicular access points shall be constructed as standard City dropped driveways. Adequate vehicular sight distance shall be provided and maintained at all driveways for pedestrians and other vehicles. Driveway grades shall not exceed 5 percent for a minimum distance of 25 feet from the back of the designated pedestrian walkway. Any entry gates or guard shacks, if used, should be recessed as far into the driveway as necessary to avoid any queuing onto public streets. All loading and parking areas shall be designed such that vehicles enter and exit, front first.

26. The TIAR should include an assessment of Pua Lane. Improvements within the existing right-of-way, such as widening sidewalks (this can be done within the property with pedestrian easements), bike facilities, removing parking, providing turn lanes into the project site, restriping intersections (additional laneage) to provide additional capacity, should all be evaluated/considered.

27. In the TIAR, please clarify the 35 percent reduction of residential trips used in Tables 4 & 5. The narrative on page 29 states a 25 and 30 percent reduction.

28. The number of on-site parking stalls should be justified and validated in the TIAR and TMP.

29. The TIAR should include an extended assessment of the King Street/Liliha Street/Dillingham Boulevard intersection operations; mainly, what are the operations beyond the peak AM and PM hours. All intersection improvements to ease level-of-service should be considered. These include, but are not limited to, elevated pedestrian crossings, all-way pedestrian crossing, limiting turn movements, etc.

30. A separate pedestrian assessment report should be provided to the DPP together with the updated TIAR to determine the sidewalk widths needed to accommodate the increased pedestrian activity around the project site. This should be completed early on prior to final design phase, so wider sidewalks, if needed, can be incorporated into the design.

Wastewater

31. On pages 4-46 under Section 4.9.2, Wastewater System, the first paragraph in "Potential Impacts and Mitigation Measures," states there is a table for projected wastewater contributions from Phase 1. However, there is no table included.

Storm Drainage

32. The existing drainage system in Iwilei is already substandard and experiences frequent flooding. The DPP commends the DEIS for considering various reuse and on-site retention methods (i.e., green roofs, rain gardens, bioswales, etc.) for the proposed development. We request that the project's mitigation measures not only prevent an increase in runoff generated by the new development but also help decrease pre-development runoff quantities.

33. The project's compliance with the City's Storm Drainage Standards and Rules Relating to Water Quality will be verified at the time that the construction/grading plans are submitted to the DPP for review.

Should you have any questions, please contact Andrew Tang of our staff, at 768-8123.

Very truly yours,

Kathy K. Sokugawa
Acting Director

cc: Hakim Ouansafi, Hawaii Public Housing Authority