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CITY AND COUNTY OF HONOLULU
715 SOUTH KING STREET, SUITE 311 ● HONOLULU, HAWAII 96813 ● AREA CODE 808 ● PHONE: 768-7762 ● FAX: 768-7792

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SEP 08 2015

KIRK CALDWELL
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GARY K. NAKATA
DIRECTOR

BARBARA YAMASHITA
DEPUTY DIRECTOR

August 26, 2015

RECEIVED
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OFC. OF ENVIRONMENTAL QUALITY CONTROL

Ms. Jessica Wooley
Director
Office of Environmental Quality Control
Department of Health, State of Hawai'i
235 South Beretania Street, Suite 702
Honolulu, Hawai'i 96813

Dear Ms. Wooley:

SUBJECT: Consolidated Kalihi-Palama Health Center (KPHC)
Final Environmental Assessment and Finding of No Significant Impact (FEA-FONSI)

With this letter, the Department of Community Services hereby transmits the Final Environmental Assessment and Finding of No Significant Impact (FEA-FONSI) for the Consolidated Kalihi-Palama Health Center situated at TMK: 1-7-031:052, in the Honolulu District on the island of O'ahu, for publication in the next available edition of the Environmental Notice, September 8, 2015.

Enclosed is a completed OEQC Publication Form, two copies of the FEA-FONSI, and an Adobe Acrobat PDF file of the same. Simultaneous with this letter, we have submitted the completed OEQC Publication Form in a text file by electronic mail to your office.

If there are any questions, please contact Keith Ishida at (808) 768-7750.

Sincerely,

Gary K. Nakata
Director

GKN:ki

Enclosures

APPLICANT ACTION
SECTION 343-5(e), HRS
PUBLICATION FORM

Project Name: Consolidated Kalihi-Palama Health Center (KPHC)

HRS §343-5 Trigger(s): (1) Propose the use of state or county lands or the use of state or county funds, other than funds to be used for feasibility or planning studies for possible future programs or projects that the agency has not approved, adopted, or funded, or funds to be used for the acquisition of unimproved real property; provided that the agency shall consider environmental factors and available alternatives in its feasibility or planning studies; provided further that an environmental assessment for proposed uses under section 205-2(d)(11) or 205-4.5(a)(13) shall only be required pursuant to section 205-5(b).

Island: O‘ahu

District: Honolulu

TMK: 1-7-031:052

Permits: ADA Accessibility; Sewer Connection Permits; Department of Health Wastewater Permit; Grubbing, Grading and Stockpiling Permit; Building Permits

Approving Agency:

City and County of Honolulu
Department of Community Services
715 S. King Street, Suite 311
Honolulu, HI 96813
Contact: Stephen Karel; Phone: (808) 768-7750; Fax (808) 768-7792

Applicant:

Kalihi-Palama Health Center
P.O. Box 17460
Honolulu, HI 96817
Contact: Emmanuel Kintu; Phone: (808) 848-1438

Consultant:

PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, HI 96813
Contact: Vincent Shigekuni; Phone: (808) 521-5631; Fax (808) 523-1402

Status (check one only):

__DEA-AFNSI — Submit the approving agency notice of determination/transmittal on agency letterhead, a hard copy of DEA, a completed OEQC publication form, along with an electronic word processing summary and a PDF copy (you may send both summary and PDF to oeqchawaii@doh.hawaii.gov; a 30-day comment period ensues upon publication in the periodic bulletin.

_X_FEA-FONSI — Submit the approving agency notice of determination/transmittal on agency letterhead, a hard copy of the FEA, an OEQC publication form, along with an electronic word processing summary and a PDF copy (send both summary and PDF to oeqchawaii@doh.hawaii.gov; no comment period ensues upon publication in the periodic bulletin.

__FEA-EISPN — Submit the approving agency notice of determination/transmittal on agency letterhead, a hard copy of the FEA, an OEQC publication form, along with an electronic word processing summary and PDF copy (you may send both summary and PDF to oeqchawaii@doh.hawaii.gov; a 30-day consultation period ensues upon publication in the periodic bulletin.

__Act 172-12 EISPN — Submit the approving agency notice of determination on agency letterhead, an OEQC publication form, and an electronic word processing summary (you may send the summary to oeqchawaii@doh.hawaii.gov. NO environmental assessment is required and a 30-day consultation period upon publication in the periodic bulletin.

__DEIS — The applicant simultaneously transmits to both the OEQC and the approving agency, a hard copy of the DEIS, a completed OEQC publication form, a distribution list, along with an electronic word processing summary and PDF copy of the DEIS (you may send both the summary and PDF to oeqc@doh.hawaii.gov); a 45-day comment period ensues upon publication in the periodic bulletin.

__FEIS — The applicant simultaneously transmits to both the OEQC and the approving agency, a hard copy of the FEIS, a completed OEQC publication form, a distribution list, along with an electronic word processing summary and PDF copy of the FEIS (you may send both the summary and PDF to oeqc@doh.hawaii.gov); no comment period ensues upon publication in the periodic bulletin.

__ Section 11-200-23

Determination	The approving agency simultaneous transmits its determination of acceptance or nonacceptance (pursuant to Section 11-200-23, HAR) of the FEIS to both OEQC and the applicant. No comment period ensues upon publication in the periodic bulletin.
__Statutory hammer Acceptance	The approving agency simultaneously transmits its notice to both the applicant and the OEQC that it failed to timely make a determination on the acceptance or nonacceptance of the applicant's FEIS under Section 343-5(c), HRS, and that the applicant's FEIS is deemed accepted as a matter of law.
__Section 11-200-27 Determination	The approving agency simultaneously transmits its notice to both the applicant and the OEQC that it has reviewed (pursuant to Section 11-200-27, HAR) the previously accepted FEIS and determines that a supplemental EIS is not required. No EA is required and no comment period ensues upon publication in the periodic bulletin.
__Withdrawal (explain)	

Summary (Provide proposed action and purpose/need in less than 200 words. Please keep the summary brief and on this one page)**:**

The Kalihi-Palama Health Center (KPHC) proposes to redevelop a commercial building and a parking lot, by adding a new building (with parking) over the existing parking lot and renovating the existing building. The project site is located at the Ewa/mauka corner of North King Street and Pua Lane.

The proposed development will consolidate the three existing Kalihi facilities within a single structure, while at the same time increasing the square footage in order to serve a growing number of patients and to provide space for new services. The Chinatown location will remain. The Kalihi-Palama Health Center will have beneficial impacts on the existing community by providing additional health services and improved facilities to administer health programs. The consolidated facility will make it easier for patients to access multiple services in a single visit.

Final Environmental Assessment/
Finding of No Significant Impact

Consolidated Kalihi-Palama Health Center (KPHC)

Applicant:

Kalihi Palama Health Center
Hale Ho'ola Hou—House of New Life
Emmanuel Kintu, Executive Director

Approving Agency:

City and County of Honolulu
Department of Community Services

Prepared by

PBR HAWAII
& ASSOCIATES, INC.
1001 Bishop Street, Suite 650
Honolulu, Hawai'i 96813

August 26, 2015

2015

Consolidated Kalihi-Palama Health Center (KPHC)

FINAL ENVIRONMENTAL ASSESSMENT/FINDING OF NO SIGNIFICANT IMPACT

August 26, 2015

Applicant:
Kalihi-Palama Health Center
Emmanuel Kintu, Executive Director

Approving Agency:
City and County of Honolulu
Department of Community Services

Prepared by:

PBR HAWAII
& ASSOCIATES, INC.

1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

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1.

Introduction

1. INTRODUCTION

This Environmental Assessment (EA) has been prepared in compliance with the environmental review requirements of Chapter 343, Hawaii Revised Statutes (HRS) for the proposed development of the Kalihi-Palama Health Center (KPHC), Honolulu District, Island of O'ahu, State of Hawai'i.

1.1 PROJECT SUMMARY

Project Name:	Kalihi-Palama Health Center (KPHC)
Location:	710 N. King Street/1040 A Pua Lane, Kalihi-Palama, Honolulu, O'ahu, Hawai'i
Judicial District:	Honolulu Judicial District, O'ahu
Tax Map Key (TMK):	1-7-031:052
Land Area:	12,409 square feet
Applicant:	Kalihi-Palama Health Center; Emmanuel Kintu, Executive Director
Approving Agency:	City and County of Honolulu, Department of Community Services
Landowner:	St. Elizabeth's Episcopal Church
Existing Use:	Existing building is currently vacant of all tenants. The structure formerly housed a market, restaurant, check cashing shop, and hairdresser.
Proposed Action:	The initial phase of development will include the construction of a new two story structure (with parking) over the existing parking lot at 710 N. King Street, 1040 A Pua Lane for the KPHC. State and/or County funds trigger the need for environmental clearances under the Hawai'i Environmental Protection Act (HEPA).
Current Land Use Designations:	*State Land Use:* Urban *County Zoning:* BMX-3 *County Primary Urban Center Development Plan:* District Commercial
SMA:	The subject property is not in the Special Management Area (SMA).

Alternatives Considered: Three alternatives were considered:

- No Action: The existing facilities are scattered in three locations in Kalihi.
- Alternative Sites: Other sites on O'ahu were evaluated but would result in further distance from the communities being served. A feasibility study was completed for a parcel at the corner of King and Hikina Lane, the lot directly across Hikina Lane from KPHC's existing building at 915 King Street. The result of the study was that the small footprint of the lot made parking difficult and costly and minimized the floor plate for KPHC's medical operations.
- Alternative Site Layouts: Conceptual plan alternatives were developed. Two options were developed around October 2010, and another from November 2011. The consultant team synthesized the plans and prepared the Ultimate Site Plan - the plan subject to this environmental assessment (see Figure 7 for the Ultimate Site Plan, and Appendix F for previous alternatives).

Potential Impacts and Mitigation Measures: The project will utilize an existing urbanized and heavily modified lot with an existing building at 710 N. King Street/ 1040 A Pua Lane in order to develop a health center for the Kalihi-Palama community. The project involves developing and building a new, two story structure over the existing parking lot. The Kalihi-Palama Health Center will have beneficial impacts to the existing community by providing additional health services and improved facilities to administer health programs. The potential adverse impacts, while minimal can be mitigated:

- The potential for short-term construction impacts to air quality, noise, solid waste generation, storm water quality/quantity are anticipated, if not mitigated. The project will address and mitigate these impacts through compliance with County and State rules, regulations, permit, and variance requirements regarding fugitive dust, community noise control, and non-point source discharges. In addition, best management practices that include structural and non-structural controls designed to inhibit run-off, erosion, fugitive dust will be implemented.
- It is anticipated that there will be little change in storm water quantity from current conditions, as the site is already fully improved and covered with impervious surfaces. To the extent possible, the project will be designed to ensure storm water quality/quantity is not increased or degraded.
- The Project is not anticipated to impact species listed by the U.S. Fish and Wildlife Service as Threatened or Endangered or their habitat, wetlands or any know archaeological or cultural resources. The site is not located within agricultural zoned lands, nor within flood or tsunami zones.

Determination: Finding of No Significant Impact (FONSI)

1.2 LOCATION

The two ahupuaʻa closely associated with this project site are Kalihi and Kapālama. Kalihi means the "edge" or "boundary. Prior to development, the lower part of Kalihi Valley was noted as being terraced on both sides of Kalihi Stream. Bennet describes the valley as "human dwellings and cultivated lands were very few, or scattered thinly… of probably the finest soil in the world" (Handy & Handy , 1972). According to a 1959 map by the Bishop Museum, the Kalihi *ahupuaʻa* boundary is west of what we know today as Kalihi Street. Much of what we consider Kalihi, areas east of Kalihi Street, including landmarks such as Kamehameha Shopping Center, Farrington High School, Kalākaua Middle School and Kalihi-Kai Elementary School, fall within the boundaries of Kapālama.

While the project site is more accurately located in the *ahupuaʻa* of Kapālama, this EA will refer to the general region as Kalihi.

The project site is bounded on three sides by existing streets: North King Street, Pua Lane and Kanoa Street. The fourth side is bounded by St. Elizabeth's Episcopal Church, the owner of the subject property (Figure 1). The site consists of one parcel identified as TMK: 1-7-031:052 (Figure 2).

1.3 LAND OWNERSHIP

The landowner is St. Elizabeth's Episcopal Church.

The Kalihi-Palama Health Center took possession of the property and began paying the lease and insuring the property at the start of February 2014, the lease for the property was owned by St. Elizabeth's Episcopal Church.

1.4 IDENTIFICATION OF APPLICANT

The applicant is Kalihi-Palama Health Center (KPHC), a Hawaiʻi Nonprofit corporation. Kalihi-Palama Health Center grew out of a health clinic that opened in 1975, in the basement of Kaumakapili Church.

Contact: Kalihi-Palama Health Center
ATTN: Emmanuel Kintu, Executive Director
938-E Austin Lane
Honolulu, HI 96817
Telephone: 808-848-1438

1.5 IDENTIFICATION OF APPROVING AGENCY

The approving agency is the City and County of Honolulu, Department of Community Services.

Contact: City and County of Honolulu, Department of Community Services
Stephen Karel
715 S. King Street, Suite 311
Honolulu, HI 96813
Phone: (808) 768-7750
Fax: (808) 768-7792

1.6 IDENTIFICATION OF AGENCIES CONSULTED

In the course of preparing this environmental assessment, the following agencies (or agency documents and maps), community organizations and individuals were consulted and/or provided information.

CITY AND COUNTY OF HONOLULU

- Board of Water Supply
- Department of Community Services
- Department of Design and Construction
- Department of Environmental Services
- Department of Facility Maintenance
- Department of Parks and Recreation
- Department of Planning and Permitting
- Department of Transportation Services
- Fire Department
- Police Department
- Kalihi-Palama Neighborhood Board No. 15

STATE AGENCIES

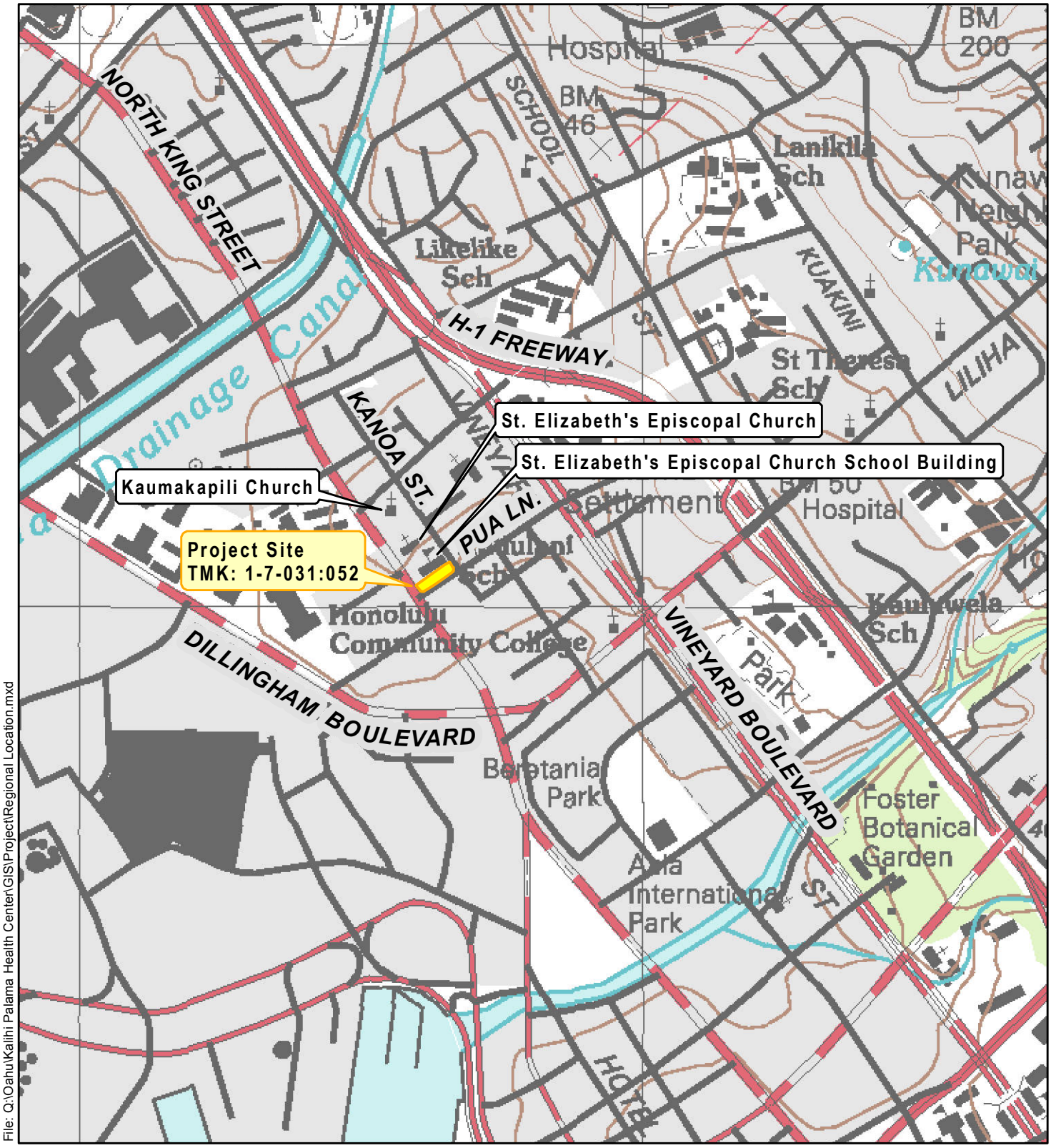
- Department of Business Economic Development and Tourism, Hawaii Coastal Zone Management Program
- Department of Business Economic Development and Tourism, State Office of Planning
- Department of Defense
- Department of Health
- Department of Land and Natural Resources
- State Historic Preservation District
- Department of Land and Natural Resources- State Parks
- Department of Education, Office of School Facilities
- Office of Hawaiian Affairs
- Water Resources Research Center- University of Hawaiʻi at Mānoa
- Department of Accounting and General Services

FEDERAL AGENCIES

- Department of Hawaiian Home Lands
- U.S. Army Engineer District, Honolulu
- U.S. Fish and Wildlife Service

COMMUNITY ORGANIZATIONS AND INDIVIDUALS

- Karl Rhoads, District 29 State Representative
- Joey Manahan, City Council
- Suzanne Chun Oakland, District 13 State Senator



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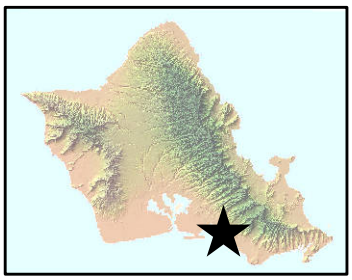
Date: 2/21/2014



LEGEND

Project Site

Figure 1

Regional Location Map

KPHC - Health and Healing Home

KALIHI - PALAMA HEALTH CENTER

ISLAND OF O'AHU

NORTH

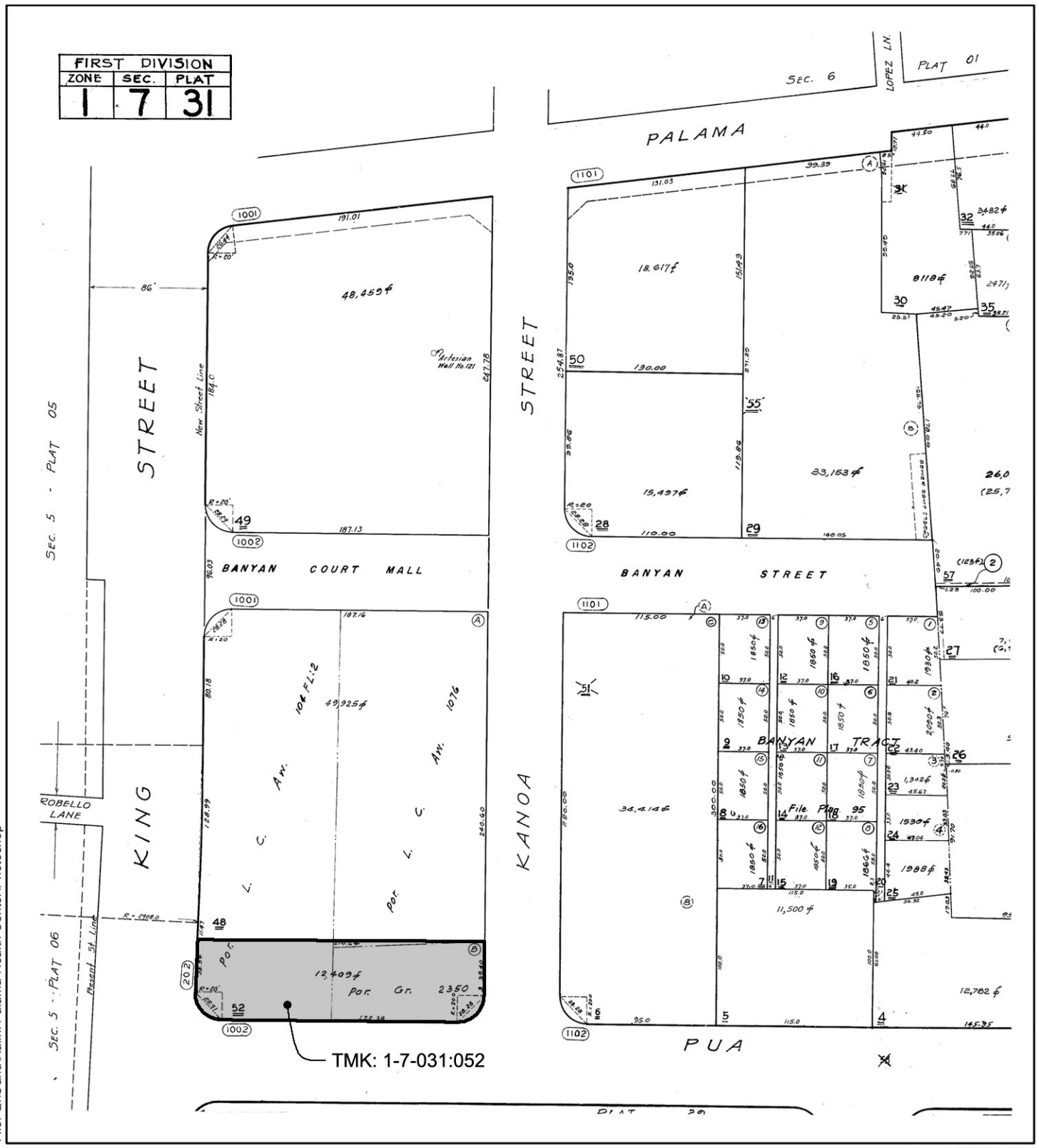
LINEAR SCALE (FEET)

0 400 800

PBR HAWAII & ASSOCIATES, INC.

Source: U.S. Geological Survey

Disclaimer: This graphic has been prepared for general planning purposes only.



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Date: 2/2/2014

LEGEND

Project Site

Figure 2

Tax Map Key

KPHC - Health and Healing Home

KALIHI - PALAMA HEALTH CENTER

ISLAND OF O'AHU

NORTH

LINEAR SCALE (FEET)

0 50 100

PBR HAWAII & ASSOCIATES, INC.

Source: City and County of Honolulu Tax Map (Zone1, Section7, Plat31)
Disclaimer: This graphic has been prepared for general planning purposes only.

1.7 ENVIRONMENTAL REQUIREMENTS

This environmental assessment has been prepared in accordance and compliance with the environmental requirements of the State of Hawai'i Environmental Impact Statement Law (Chapter 343, HRS) because the State and/or County may be contributing funding to the project.

Because Chapter 343, HRS is applicable to the project, this environmental assessment has been prepared to identify whether "significant environmental effects" will result from the proposed Kalihi-Palama Health Center facility. According to the Department of Health Rules which are governed by Chapter 343, HRS implementation, if "significant environmental effects" are not identified by an environmental assessment, preparation of a full environmental impact statement is not required, and a "finding of no significant impact" is issued by the approving authority. Otherwise, a notice of preparation is issued and processing of a full environmental impact statement is required.

1.7.1 Environmental Consultant

PBR HAWAII analyzed the project based on the factors of location, existing conditions, existing uses, and environmental considerations; according to the results from analysis, the plans for the project appear to comply with all environmental laws.

Contact: Vincent Shigekuni

PBR HAWAII & Associates, Inc.

1001 Bishop Street, Suite 650

Honolulu, Hawai'i 96813

Phone: (808) 521-5631

Fax: (808) 523-1402

1.7.2 Compliance with State of Hawai'i environmental laws

Preparation of this document is in accordance with the provisions of Chapter 343, HRS and Title 11, Chapter 200, Hawai'i Administrative Rules (HAR) pertaining to Environmental Impact Statements. Section 343-5, HRS established nine types of actions that "trigger" compliance, which requires either an EA or an Environmental Impact Statement (EIS). The use of State or County funds is one of these "triggers." Because the Kalihi-Palama Health Center may secure and use State and County funds, the preparation of an Environmental Assessment is required.

1.7.3 Studies Contributing to this Environmental Assessment

The information contained in this report has been developed from site visits, generally available information regarding the characteristics of the Site and surrounding areas, and a technical study. The site has been heavily developed, with structures existing on since the 1950's. There is no existing flora on the paved site and endangered fauna is not located in the nearby vicinity. The technical studies needed to supplement the above information is provided in Appendix A, C, E, G, and H of this EA. The studies include:

- Appendix A: Archaeological Assessment
- Appendix C: EDR Radius Map Report

- Appendix E: Enviroquest Inspection Report
- Appendix G: Soil Study
- Appendix H: Transportation Assessment

2.

Project Description, Objective,and Need

2. PROJECT DESCRIPTION, OBJECTIVE, & NEED

This section provides background information, identifies the project's goals and objectives, describes the proposed improvements, and delineates construction activities and approximate costs.

2.1 BACKGROUND INFORMATION

Kalihi-Palama Health Center (KPHC) is a non-profit organization that will operate the proposed project. KPHC is a Hawai'i nonprofit corporation that grew out of a free walk-in health clinic that opened in 1975, in the basement of the Kaumakapili Church. The KPHC emerged out of the need to provide primary health services to low-income Native Hawaiians and New Americans and their extended families, populations that typically face significant barriers when accessing healthcare. The mission started as a way to address the needs of the whole person of these marginalized residents - ranging from access to food, housing, and ability to participate in community life. In 1999, KPHC became a Federally Qualified Community Health Center (FQHC) that provides comprehensive, integrated, healthcare, and social services (Kalihi-Palama Health Center, 2013).

KPHC continues to serve new residents with a staff that mirrors the clients that seek services. Most of the facilities of the KPHC are located in the Kalihi-Palama community (with one location in Chinatown), home to approximately 63,820 residents. In 2011, KPHC served over 20,000 patients annually, which represented 17 different languages and cultures. Of those served, 1,600 clients were homeless and 300 received housing and/or homelessness prevention assistance. KPHC's annual budget is $19 million. KPHC's current services include behavioral health, dental care, health care for the homeless, health education, language access, medical care, nutrition, optometry, a pharmacy, social services, and woman, infant, and children (WIC) services. The existing facilities are spread among four locations; three in Kalihi and one at 89 North King Street in Chinatown (Blakely, 2013).

The proposed development will consolidate the three existing Kalihi facilities within a single structure, while at the same time increasing the square footage in order to serve a growing number of patients and to provide space for new services (Blakely, 2013). The Chinatown location will remain. The Kalihi-Palama Health Center will have beneficial impacts on the existing community by providing additional health services and improved facilities to administer health programs. The KPHC consolidated Kalihi-Palama location will make it easier for patients to access multiple services in a single visit.

The project will improve the existing facilities at 710 N. King Street/ 1040 A Pua Lane (TMK: 1-7-031:052). The project site is bounded on three sides by existing streets: North King Street, Pua Lane and Kanoa Street. The fourth side is bounded by St. Elizabeth's Episcopal Church. The site measures approximately 12,409 square feet in area. The property, owned by St. Elizabeth's Episcopal Church, has an existing building that is currently vacant of all tenants. The structure formerly housed a market, restaurant, check cashing shop, and hairdresser. The objective of this project is to redevelop the commercial building and a parking lot, by adding a new building (with parking) over the existing parking lot and renovating the existing building in a subsequent phase.

The current service area of the Kalihi-Palama Health Center is the Kalihi-Palama area. It is within walking distance of the surrounding residential areas (predominately low-income rental housing)

and the following bus routes: A, C, 1, 1L, 2, 2L, 3, 9, 11, 13, 40, 42, 43, 52, 53, 54, 62, 81, 83, 84, 84A, 88A, 90, 91, 92, 93, 96, 97, and 98.

When the project is fully completed, the combined buildings will include:

- Women, Children, and Infant Facilities,
- A Pharmacy,
- Pediatrics Facilities,
- Family Practice Facilities,
- Women's Health Facilities, and
- Common spaces.

2.1.1 Location and Property Description

710 N. King Street/1040 A Pua Lane (the "Site") is located in Kalihi-Palama, Honolulu District, Island of O'ahu (Figure 1). The approximately 12,409 square foot site is identified as TMK: 1-7-031:052 (Figure 2).

The project site is bounded on three sides by existing streets: North King Street, Pua Lane and Kanoa Street. The fourth side is bounded by St. Elizabeth's Episcopal Church (the owner of the subject property) (Figure 1). The site is generally located between Vineyard Boulevard *mauka* of the site and Dillingham Boulevard *makai* of the site, and Liliha Street to the southeast, and Kokea Street to the northwest. It is near Honolulu Community College.

The existing structure on the site formerly housed a market, restaurant, check cashing shop, and hairdresser with approximately half the property currently used for parking. The objective of this project phase is to add a new, two story building (with parking) over the parking lot.

The site is designated Urban within the State Land Use district, and BMX-3 (Business Mixed Use-Community) within the County Zoning. It is not located within the Special Management Area.

Since the site has been previously developed, there is no significant vegetation on the site. Site photos of the area are provided in Figure 3.

Vehicle access to the Site is currently from both Pua Lane and King Street.

2.1.2 Existing Land Use Designations

Current land use designations for the Site are:

- State Land Use: Urban (Figure 4)
- County Zoning: BMX-3 (Figure 5)
- County Primary Urban Center Development Plan: District Commercial (Figure 6)
- Special Management Area (SMA): Not in SMA

1 View from the Intersection of North King Street and Pua Lane

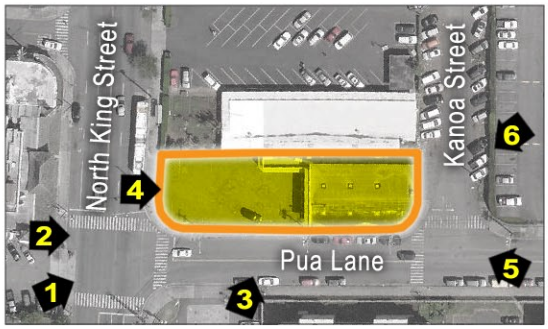
2 View across North King Street down Pua Lane

3 View from Puna Lane

4 Existing Buildings and Parking Lot

5 View from the Intersection of Pua Lane and Kanoa Street

6 View from Kanoa Street



Source: PBR Hawaii & Associates, Inc. (2014)
Disclaimer: This graphic has been prepared for general planning purposes only.

Figure 3

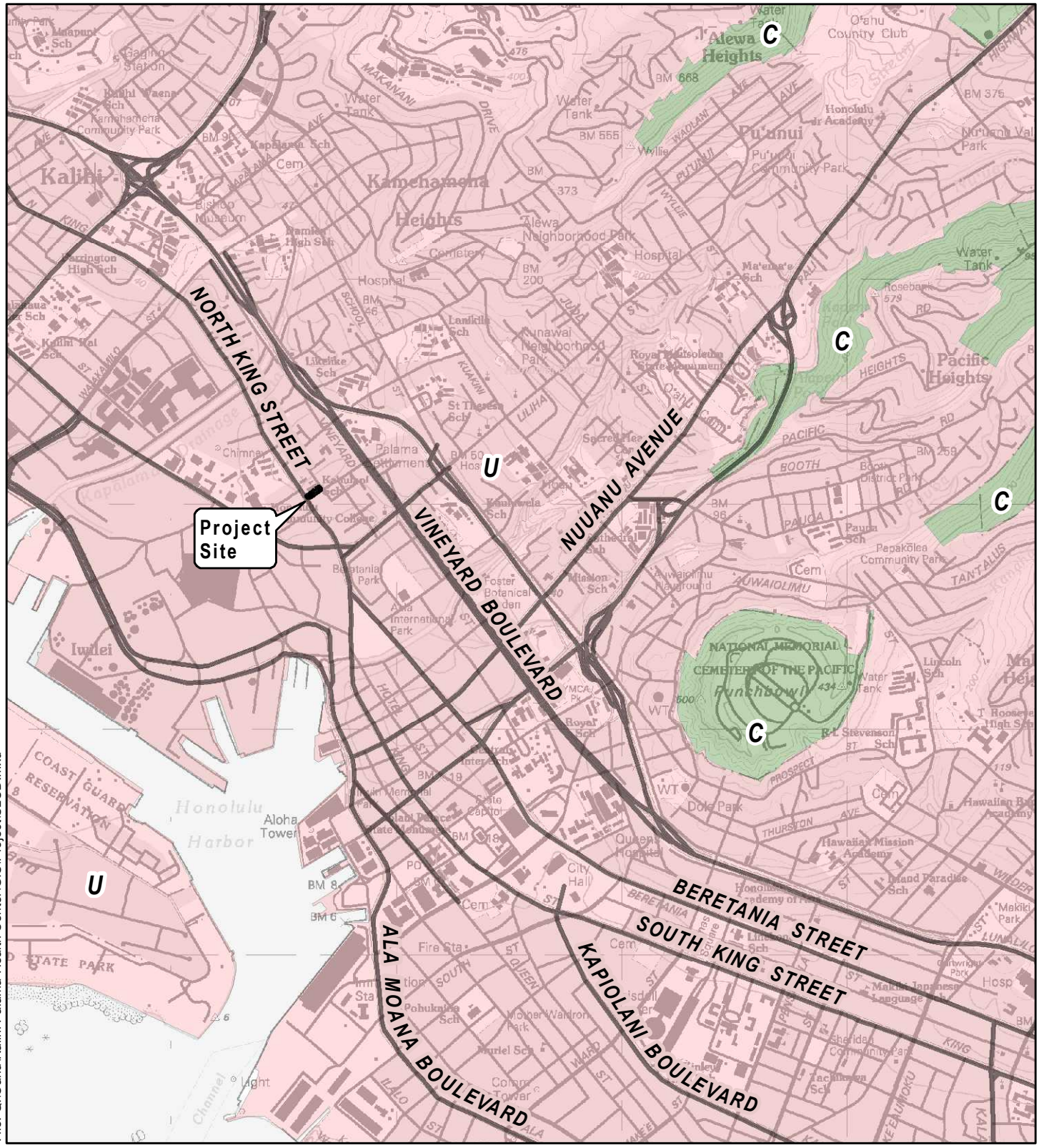
Site Photographs

KPHC - Health and Healing Home

KALIHI - PALAMA HEALTH CENTER ISLAND OF OAHU

Date: 2/7/2014

PBR HAWAII & ASSOCIATES, INC.



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LEGEND

- Project Site
- U: Urban District
- C: Conservation District

Figure 4
State Land Use District

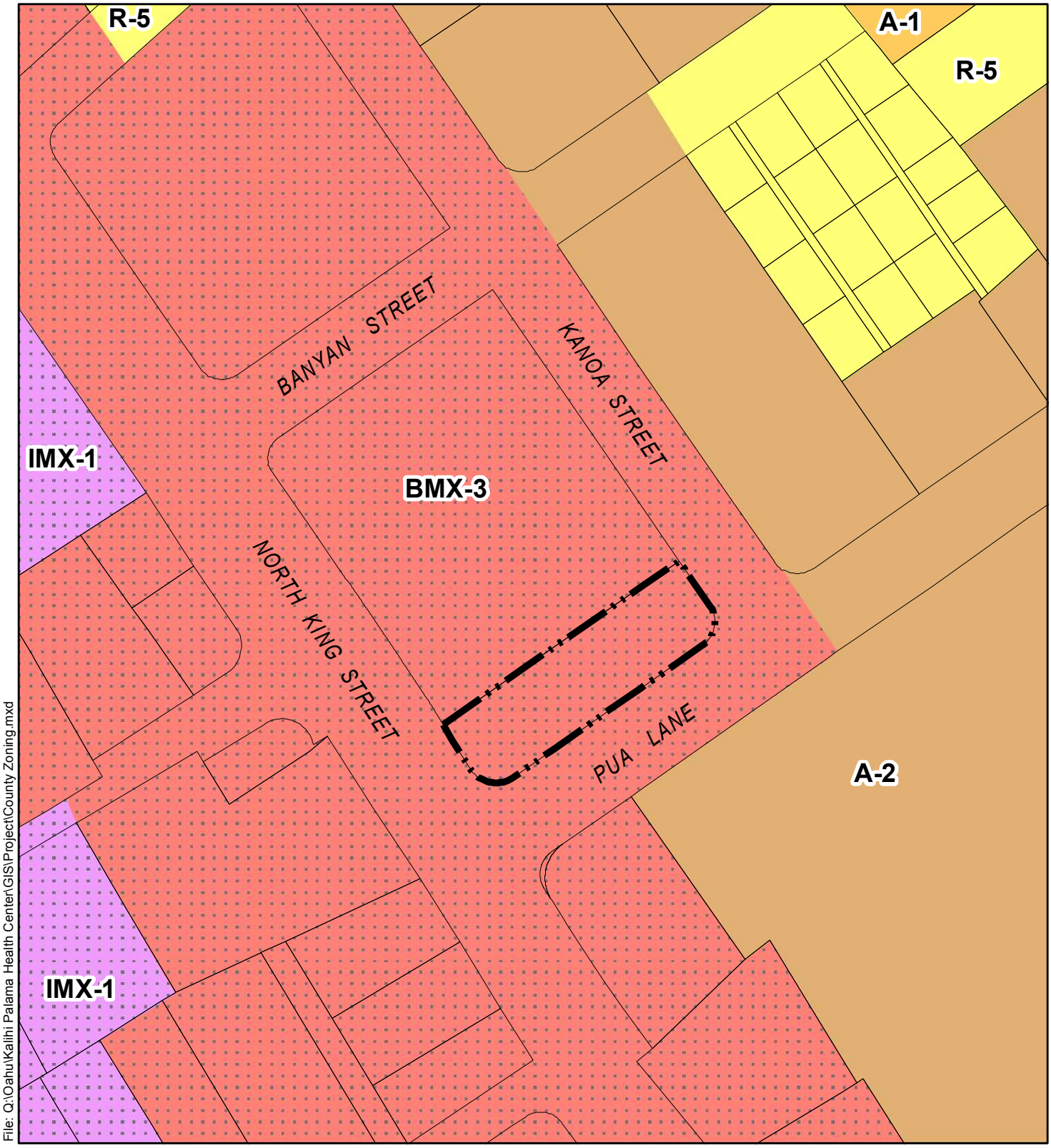
KPHC - Health and Healing Home

KALIHI - PALAMA HEALTH CENTER
ISLAND OF O'AHU

NORTH
LINEAR SCALE (FEET)
0 1,000 2,000

PBR HAWAII & ASSOCIATES, INC.

Source: State Land Use Commission (2013)
Disclaimer: This graphic has been prepared for general planning purposes only.



File: Q:\Oahu\Kalihi Palama Health Center\GIS\Project\County Zoning.mxd

Date: 2/21/2014

LEGEND

- Project Site
- BMX-3: Business Mixed
- IMX-1: Industrial Mixed
- A-1: Apartment
- A-2: Apartment
- R-5: Residential

Source: City and County of Honolulu (2013)
Disclaimer: This graphic has been prepared for general planning purposes only.

Figure 5
County Zoning

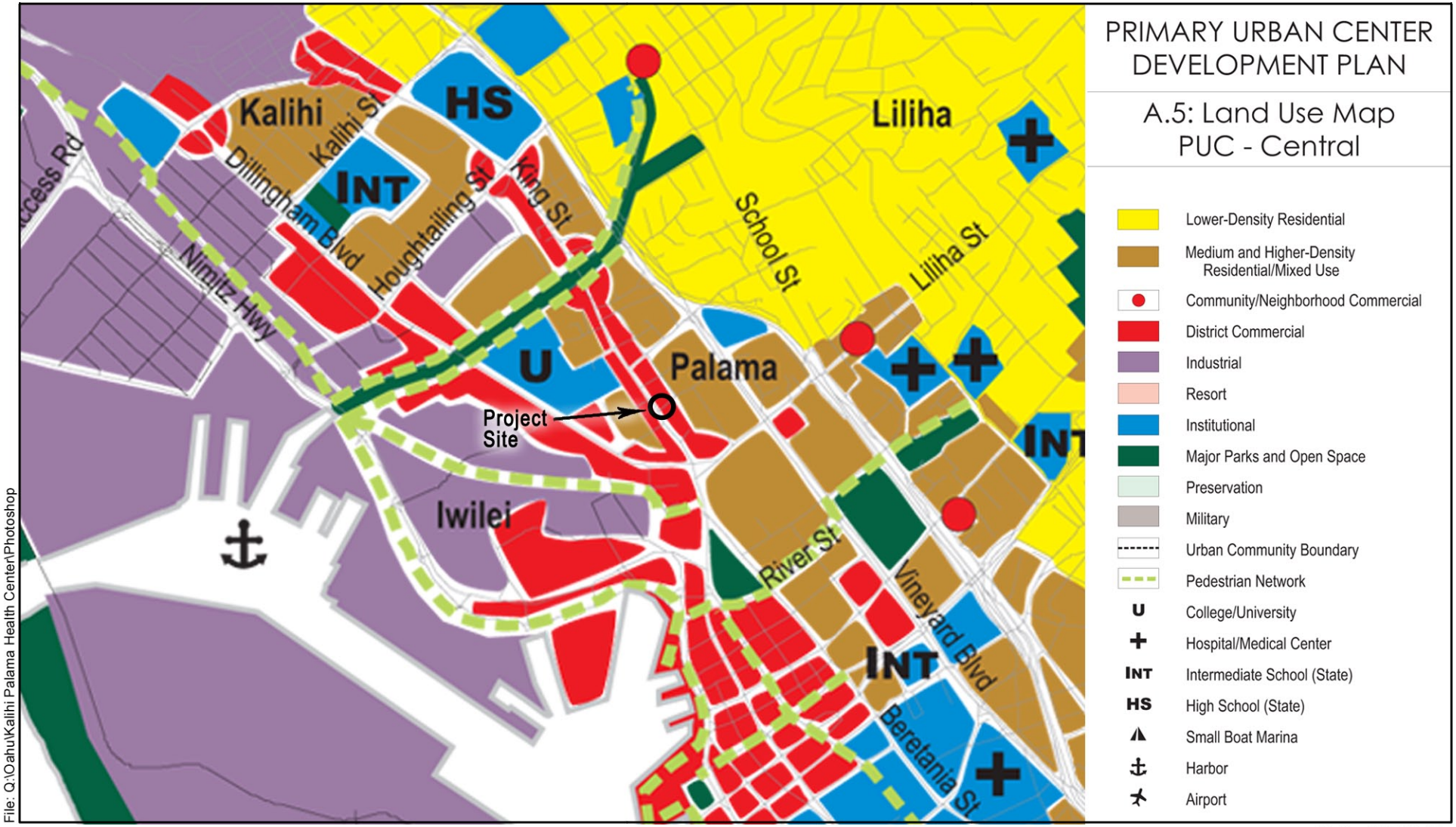
KPHC - Health and Healing Home

KALIHI - PALAMA HEALTH CENTER
ISLAND OF O'AHU

NORTH

LINEAR SCALE (FEET)
0 50 100

PBR HAWAII & ASSOCIATES, INC.



File: Q:\Oahu\Kalihi Palama Health Center\Photoshop

Date: 2/7/2014

LEGEND

Project Site

Figure 6

Primary Urban Center Development Plan
Land Use Map PUC - Central

KPHC - Health and Healing Home

KALIHI - PALAMA HEALTH CENTER

ISLAND OF OAHU

NORTH

(NOT TO SCALE)

PBR HAWAII & ASSOCIATES, INC.

Source: City and County of Honolulu (2004)
Disclaimer: This graphic has been prepared for general planning purposes only.

2.2 SURROUNDING USES

The project site is bounded on three sides by existing streets: North King Street, Pua Lane and Kanoa Street. The fourth side is bounded by St. Elizabeth's Episcopal Church (the owner of the subject property) (Figure 1). The site consists of one parcel identified as TMK: 1-7-031:052 (Figure 2).

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.

2.3 NEED AND OBJECTIVE

The primary function of the KPHC is to provide primary health services to low income Native Hawaiians and New Americans and their extended families, populations that typically face significant barriers when accessing healthcare. The objective of the project is to consolidate the three existing Kalihi facilities within a single structure, while at the same time increasing square footage in order to serve a growing number of patients and to add new services (Blakely, 2013). The potential to expand services to the residents from the Kalihi neighborhood remains strong.

The KPHC will have beneficial impacts on the existing community by providing additional health services and improved facilities to administer health programs. The KPHC consolidated Kalihi-Palama location will make it easier for patients to access multiple services in a single trip.

2.4 PROJECT DESCRIPTION

The Kalihi-Palama Health Center has received funding from the State of Hawaii and expects funding through the Community Development Block Grant (CDBG) and private foundations, for the proposed facility.

Due to the lack of available funding, the proposed project will be developed in two phases, as described below:

Makai Phase:

- Construct a new 10,000± square foot, two-story building to include facilities for pediatrics and women's health services:
    - Waiting Area (2 total)
    - Reception Area (2 total)
    - Nurse / Medical Assistant Area (4 total)
    - Exam Rooms (16 total)
    - Toilet Rooms (8 total)
    - Lab (2 total)
    - Clean & Dirty Utility Rooms (4 total)
    - Electrical / IT Rooms (2 total)
    - Provider's Office (4 total)
    - Office / Work Areas (10 Total)
    - Storage (4 total);
- Provide parking for 12 cars, with two ingress/egress points onsite with additional shared parking in the shared church lot; and
- Landscaping along the King Street and Pua Lane sides of the building.

Mauka Phase:

- Renovate the existing building on the site; and
- Construct a new three story elevator and stair tower.

For a site plan and project rendering see Figure 7 and Figure 8.

2.5 DEVELOPMENT TIMELINE AND PRELIMINARY COSTS

The approximate cost for the proposed project is preliminarily estimated to be $9 million. The proposed improvements are expected to be implemented in two phases. Current plans are for the construction of the Mauka Phase to start after funding has been secured and approvals have been obtained.

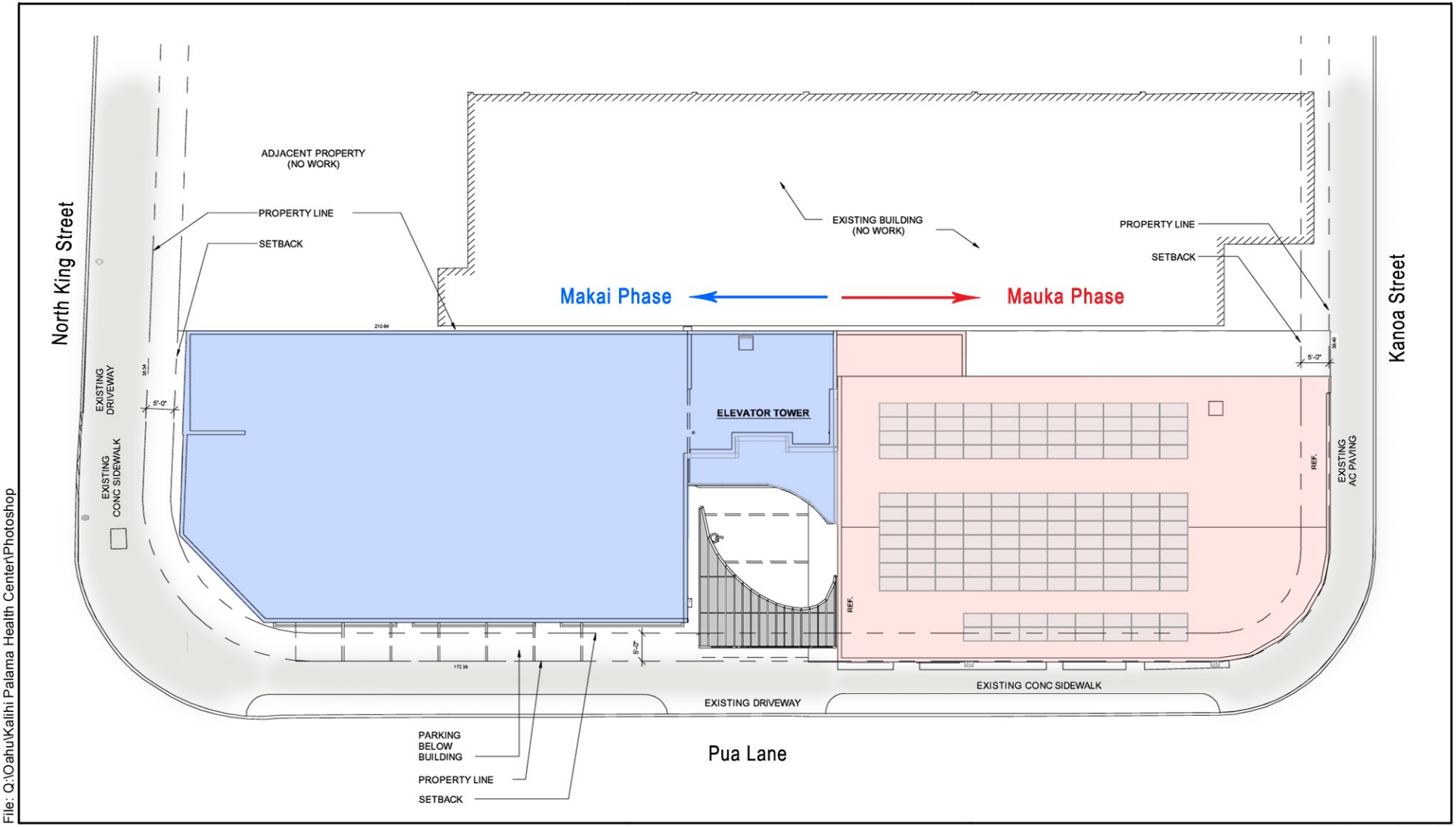
2.6 SUSTAINABLE PLANNING AND DESIGN

The Office of Environmental Quality Control has issued "Guidelines for Sustainable Building Design in Hawai'i: A planner's checklist" (OEQC, 2004) (Adopted by OEQC October 1999 from the 2004 Guidebook for the Hawaii State Environmental Review Process) and has requested that consideration be made in applying sustainable building techniques to projects. The OEQC Guidelines state that "[a] sustainable building is built to minimize energy use, expense, waste and impact on the environment. It seeks to improve the region's sustainability by meeting the needs of Hawai'i's residents and visitors today without compromising the needs of future generations."

In support of sustainable design the following will be considered in planning the proposed Kalihi-Palama Health Center building:

1) Building envelope insulation and tinted window glazing to reduce thermal heat gain, which reduces the HVAC load/size;
2) Building wall screen design that will reduce the amount of solar heat gain through the exterior wall;
3) Electric light ballast;
4) Durable building materials to reduce maintenance requirements;
5) PV Ready roof design;
6) Water conserving plumbing fixtures; and
7) Indigenous and Polynesian introduced plants for use in landscaping.

Where appropriate, other techniques from "Guidelines for Sustainable Building Design in Hawai'i: A planner's checklist" will be considered for inclusion in the proposed KPHC development.



File: Q:\Oahu\Kalihi Palama Health Center\Photoshop

Date: 2/7/2014

Figure 7

Project Site Plan

KPHC - Health and Healing Home

KALIHI - PALAMA HEALTH CENTER

ISLAND OF OAHU

NORTH

(NOT TO SCALE)

PBR HAWAII & ASSOCIATES, INC.

Source: InForm Design, Inc. (2013)
Disclaimer: This graphic has been prepared for general planning purposes only.

File: Q:\Oahu\Kalihi Palama Health Center\Photoshop

Date: 2/2/2014

Figure 8
Project Rendering

KPHC - Health and Healing Home

KALIHI - PALAMA HEALTH CENTER ISLAND OF O'AHU

PBR HAWAII & ASSOCIATES, INC.

Source: InForm Design, Inc. (2013)
Disclaimer: This graphic has been prepared for general planning purposes only.

3.

Land Use Conformance

3. LAND USE CONFORMANCE

The State of Hawai'i and the City and County of Honolulu land use plans, policies, and ordinances relevant to the KPHC are described below.

3.1 STATE OF HAWAI'I

3.1.1 State Land Use District

Chapter 205, HRS, establishes the State Land Use Commission (LUC) and gives this body the authority to designate all lands in the State into one of four districts: Urban, Rural, Agriculture, or Conservation. The Site is located within the Urban district.

Chapter 205, HRS, also delegates uses in the Urban district to the County, however the Land Use Commission's rules state, in part: "[the Urban district] shall include land characterized by 'city-like' concentrations of people, structures, streets, urban level of services and other related land uses." As such, the proposed KPHC development is consistent with the Urban district, and no reclassification is required to implement the proposed project.

3.1.2 Hawaii State Coastal Zone Management Program

The entire state of Hawai'i is defined as being within the Coastal Zone Management Area (State of Hawai'i, 2001), which are: "all lands of the State and the area extending seaward from the shoreline to the limit of the State's police power and management authority, including the United States territorial sea." (State of Hawai'i, 2001)

The relevant objectives and policies of the Hawai'i Coastal Zone Management (CZM) Program, along with a detailed discussion of how the proposed project's improvements conform to these objectives and policies, is discussed below.

Recreational Resources

Objective: *Provide coastal recreational opportunities accessible to the public.*

Policies

- *(A) Improve coordination and funding of coastal recreational planning and management; and*
- *(B) Provide adequate, accessible, and diverse recreational opportunities in the coastal zone management area by:*
  - *(i) Protecting coastal resources uniquely suited for recreational activities that cannot be provided in other areas;*
  - *(ii) Requiring replacement of coastal resources having significant recreational value including, but not limited to surfing sites, fishponds, and sand beaches, when such resources will be unavoidably damaged by development; or requiring reasonable monetary compensation to the State for recreation when replacement is not feasible or desirable;*
  - *(iii) Providing and managing adequate public access, consistent with conservation of natural resources, to and along shorelines with recreational value;*
  - *(iv) Providing an adequate supply of shoreline parks and other recreational facilities suitable for public recreation;*

(v) Ensuring public recreational uses of county, state, and federally owned or controlled shoreline lands and waters having recreational value consistent with public safety standards and conservation of natural resources;

(vi) Adopting water quality standards and regulating point and nonpoint sources of pollution to protect, and where feasible, restore the recreational value of coastal waters;

(vii) Developing new shoreline recreational opportunities, where appropriate, such as artificial lagoons, artificial beaches, and artificial reefs for surfing and fishing; and

(viii) Encouraging reasonable dedication of shoreline areas with recreational value for public use as part of discretionary approvals or permits by the land use commission, board of land and natural resources, and county authorities; and crediting such dedication against the requirements of section 46-6;

Discussion: The Consolidated KPHC is not a coastal development, is not located on the coastline, and is not in the SMA; therefore, policies regarding shoreline recreation resources are not applicable; however to protect marine resources for purposes including recreation, the State of Hawai'i has adopted water quality standards.

Historic Resources

Objective*: Protect, preserve, and, where desirable, restore those natural and manmade historic and prehistoric resources in the coastal zone management area that are significant in Hawaiian and American history and culture.*

Policies

(A) Identify and analyze significant archaeological resources;

(B) Maximize information retention through preservation of remains and artifacts or salvage operations; and

(C) Support state goals for protection, restoration, interpretation, and display of historic resources;

Discussion: During the Pre-Assessment Consultation process, the State Historic Preservation Division (SHPD) wrote:

> *"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."*

In response to SHPD's letter, the Kalihi-Palama Health Center contracted an archaeological investigation (including subsurface testing). The combination of a pedestrian survey and a total of four mechanically excavated trenches within the project area boundaries did not reveal the presence of cultural or historic sites on the ground surface or within subsurface contexts. All four trenches revealed the presence of fill matrices atop alluvial sediment atop coral reef substrate. Isolated pieces of modern debris (loose, broken bricks and ceramic fragments) were observed in the fill material.

Although the archaeological investigation through pedestrian survey and mechanical excavation of the project area did not reveal archaeological sites or deposits, because of the proximity to previously discovered human burials, archaeological monitoring is recommended for future ground disturbance in the project area. The Archaeological Assessment (Appendix A) was received by SHPD on May 8, 2014 for its review and approval.

The Consolidated KPHC will not adversely affect historic resources as the site has long been extensively modified.

Scenic and Open Space Resources

Objective*: Protect, preserve, and, where desirable, restore or improve the quality of coastal scenic and open space resources.*

Policies

- *(A) Identify valued scenic resources in the coastal zone management area;*
- *(B) Ensure that new developments are compatible with their visual environment by designing and locating such developments to minimize the alteration of natural landforms and existing public views to and along the shoreline;*
- *(C) Preserve, maintain, and, where desirable, improve and restore shoreline open space and scenic resources; and*
- *(D) Encourage those developments that are not coastal dependent to locate in inland areas;*

Discussion: The Consolidated KPHC will be located inland, away from the shoreline; therefore, it is anticipated that there will be no direct effect on the quality of the coastal scenic resources. The implementation of erosion control during construction and connection to the municipal wastewater system will ensure that there will not be impacts to surface or groundwater at the site or secondary impacts to downstream coastal resources.

Coastal Ecosystems

Objective: *Protect valuable coastal ecosystems, including reefs, from disruption and minimize adverse impacts on all coastal ecosystems.*

Policies

- *(A) Exercise an overall conservation ethic, and practice stewardship in the protection, use, and development of marine and coastal resources;*
- *(B) Improve the technical basis for natural resource management;*
- *(C) Preserve valuable coastal ecosystems, including reefs, of significant biological or economic importance;*
- *(D) Minimize disruption or degradation of coastal water ecosystems by effective regulation of stream diversions, channelization, and similar land and water uses, recognizing competing water needs; and*
- *(E) Promote water quantity and quality planning and management practices that reflect the tolerance of fresh water and marine ecosystems and maintain and enhance water quality through the development and implementation of point and nonpoint source water pollution control measures.*

Discussion: There are no streams adjoining the property, and presently, runoff from the almost all impervious site runoffs into the municipal drainage system. No increase in runoff is expected as a result once all of the proposed improvements are implemented.

Economic Uses

Objective: *Provide public or private facilities and improvements important to the State's economy in suitable locations.*

Policies

(A) Concentrate coastal dependent development in appropriate areas;

(B) Ensure that coastal dependent development such as harbors and ports, and coastal related development such as visitor industry facilities and energy generating facilities, are located, designed, and constructed to minimize adverse social, visual, and environmental impacts in the coastal zone management area; and

(C) Direct the location and expansion of coastal dependent developments to areas presently designated and used for such developments and permit reasonable long-term growth at such areas, and permit coastal dependent development outside of presently designated areas when:

(i) Use of presently designated locations is not feasible;

(ii) Adverse environmental effects are minimized; and

(iii) The development is important to the State's economy.

Discussion: The Consolidated KPHC is not a coastal dependent development, is not located on the coastline, and is not in the SMA; therefore, these policies are not applicable.

Coastal Hazards

Objective: *Reduce hazard to life and property from tsunami, storm waves, stream flooding, erosion, subsidence, and pollution.*

Policies

(A) Develop and communicate adequate information about storm wave, tsunami, flood, erosion, subsidence, and point and non-point source pollution hazards;

(B) Control development in areas subject to storm wave, tsunami, flood, erosion, hurricane, wind, subsidence, and point and non-point source pollution hazards;

(C) Ensure that developments comply with requirements of the Federal Flood Insurance Program; and

(D) Prevent coastal flooding from inland projects.

Discussion: The Consolidated KPHC sits far inland from the coastline and will not exacerbate any coastal hazards. The site is located outside of mapped tsunami and flood hazard areas and no adverse effects during tsunami, flood or storm wave events are anticipated.

Managing Development

Objective: *Improve the development review process, communication, and public participation in the management of coastal resources and hazards.*

Policies

(A) Use, implement, and enforce existing law effectively to the maximum extent possible in managing present and future coastal zone development;

(B) Facilitate timely processing of applications for development permits and resolve overlapping or conflicting permit requirements; and

(C) Communicate the potential short and long-term impacts of proposed significant coastal developments early in their life cycle and in terms understandable to the public to facilitate public participation in the planning and review process.

Discussion: The Consolidated KPHC is not a coastal development, is not located on the coastline, and is not in the SMA; however, the KPHC made a presentation to the Kalihi-Palama Neighborhood Board (Appendix D) and provided opportunity for public input in the course of planning the Improvements.

Pre-consultation comments were obtained and are reproduced in Appendix B. In addition, this EA discusses potential impacts and mitigation measures of the Consolidated KPHC and provides an opportunity for input.

Public Participation

Objective: *Stimulate public awareness, education, and participation in coastal management.*

Policies

(A) Promote public involvement in coastal zone management processes;

(B) Disseminate information on coastal management issues by means of educational materials, published reports, staff contact, and public workshops for persons and organizations concerned with coastal issues, developments, and government activities; and

(C) Organize workshops, policy dialogues, and site- specific mediations to respond to coastal issues and conflicts.

Discussion: Community members from the area were provided information regarding the Consolidated KPHC during a Kalihi-Palama Neighborhood Board meeting (Appendix D) and an opportunity to comment and discuss issues and concerns. A listing of individuals, organization, and agencies consulted prior to the release of the Draft EA was included in Section 7.2 as well as any comments received. In addition, this EA discusses potential impacts and mitigation measures of Project and provides an opportunity for input during the 30-day public comment period (refer to Section 7.3).

Beach Protection

Objective: *Protect beaches for public use and recreation.*

(A) Locate new structures inland from the shoreline setback to conserve open space, minimize interference with natural shoreline processes, and minimize loss of improvements due to erosion;

(B) Prohibit construction of private erosion-protection structures seaward of the shoreline, except when they result in improved aesthetic and engineering solutions to erosion at the sites and do not interfere with existing recreational and waterline activities; and

(C) Minimize the construction of public erosion-protection structures seaward of the shoreline.

Discussion: The Consolidated KPHC is not a coastal dependent development, is not located on the coastline, and is not in the SMA; therefore, these policies are not applicable.

Marine Resources

Objective: *Promote the protection, use, and development of marine and coastal resources to assure their sustainability.*

Policies

(A) Ensure that the use and development of marine and coastal resources are ecologically and environmentally sound and economically beneficial;

(B) Coordinate the management of marine and coastal resources and activities to improve effectiveness and efficiency;

(C) Assert and articulate the interests of the State as a partner with Federal agencies in the sound management of ocean resources within the United States exclusive economic zone;

(D) Promote research, study, and understanding of ocean processes, marine life, and other ocean resources in order to acquire and inventory information necessary to understand how ocean development activities relate to and impact upon ocean and coastal resources; and

(E) Encourage research and development of new, innovative technologies for exploring, using, or protecting marine and coastal resources.

Discussion: The Consolidated KPHC is not a coastal dependent development, is not located on the coastline, and is not in the SMA; therefore, these policies are not applicable.

3.1.3 Hawai'i State Plan

The Hawai'i State Plan (Chapter 226, HRS), establishes a set of goals, objectives and policies that serve as long-range guidelines for the growth and development of the State. Objectives and policies pertinent to the proposed project are as follows:

§226-20 Objectives and policies for socio-cultural advancement--health. (a) Planning for the State's socio-cultural advancement with regard to health shall be directed towards achievement of the following objectives:

(1) Fulfillment of basic individual health needs of the general public.

(b) To achieve the health objectives, it shall be the policy of this State to:

(4) Foster an awareness of the need for personal health maintenance and preventive health care through education and other measures.

Discussion: The KPHC is a Hawai'i nonprofit corporation that grew out of a free walk-in health clinic that opened in 1975. The KPHC emerged out of the need to provide primary health services to low-income Native Hawaiians and New Americans and their extended families, populations that typically face significant barriers when accessing healthcare. The mission started as a way to address the needs of the whole person of these marginalized residents - ranging from access to food, housing, and ability to participate in community life. The proposed project would consolidate services currently in three different locations into the project site.

§226-22 Objective and policies for socio-cultural advancement--social services. (a) Planning for the State's socio-cultural advancement with regard to social services shall be directed towards the achievement of the objective of improved public and private social services and activities that enable individuals, families, and groups to become more self-reliant and confident to improve their well-being.
(b) To achieve the social service objective, it shall be the policy of the State to:

(1) Assist individuals, especially those in need of attaining a minimally adequate standard of living and those confronted by social and economic hardship conditions, through social services and activities within the State's fiscal capacities.

(2) Promote coordination and integrative approaches among public and private agencies and programs to jointly address social problems that will enable individuals, families, and groups to deal effectively with social problems and to enhance their participation in society.

(3) Facilitate the adjustment of new residents, especially recently arrived immigrants, into Hawaii's communities.

Discussion: In 2011, KPHC served over 20,000 patients annually, which represented 17 different languages and cultures. Of those served, 1,600 clients were homeless and 300 received housing and/or homelessness prevention assistance. KPHC's annual budget is $19 million. KPHC's current services include behavioral health, dental care, health care for the homeless, health education,

language access, medical care, nutrition, optometry, a pharmacy, social services, and woman, infant, and children (WIC) services.

§226-108 Sustainability. Priority guidelines and principles to promote sustainability shall include:

(1) Encouraging balanced economic, social, community, and environmental priorities;

(2) Encouraging planning that respects and promotes living within the natural resources and limits of the State;

(4) Encouraging respect for the host culture;

(5) Promoting decisions based on meeting the needs of the present without compromising the needs of future generations;

Discussion: In support of sustainable design the following will be considered in planning the proposed Kalihi-Palama Health Center building:

1) Building envelope insulation and tinted window glazing to reduce thermal heat gain, which reduces the HVAC load/size;
2) Building wall screen design that will reduce the amount of solar heat gain through the exterior wall;
3) Electric light ballast;
4) Durable building materials to reduce maintenance requirements;
5) PV Ready roof design;
6) Water conserving plumbing fixtures; and
7) Indigenous and Polynesian introduced plants for use in landscaping.

3.2 CITY AND COUNTY OF HONOLULU

Relevant land use plans of the City and County of Honolulu that pertain to the KPHC include the *General Plan* and the *Primary Urban Center Development Plan*.

3.2.1 General Plan

As required by the City Charter, the General Plan for the City and County of Honolulu serves two purposes. The first is a statement of the long-range social, economic, environmental and design objectives for the general welfare and prosperity of the people of O'ahu. Second, the General Plan is a statement of broad policies that facilitate the attainment of the objectives of the plan (City and County of Honolulu, Amended 2002).

The Kalihi-Palama Health Center is in compliance with the following General Plan policies:

Policy II. Economic Activity

Objective F, Policy 1: Take full advantage of Federal programs and grants which will contribute to the economic and social well-being of Oahu's residents.

Policy VII. Physical Development and Urban Design

Objective A, Policy 5: Provide for more compact development and intensive use of urban lands where compatible with the social character of existing communities.

Objective A, Policy 8: Locate community facilities on sites that will be convenient to the people they are intended to serve.

Objective B, Policy 3: Encourage the establishment of mixed-use districts with appropriate design and development controls to insure an attractive living environment and compatibility with surrounding land uses.

Objective F. To promote and enhance the social and physical character of O'ahu's older towns and neighborhoods.

Policy IX. Health and Education

Objective A, Policy 1: Encourage the provision of health-care facilities that are accessible to both employment and residential centers.

Discussion: The proposed Kalihi-Palama Health Center improvements conform to many of the objectives and policies of the General Plan, by providing social, educational, and recreational programs and services in an established, older and lower income community. Specifically, portions of this project may be utilizing CDBG federal funds to enhance the social well-being of O'ahu residents. The KPHC consolidated facility will continue to serve the Kalihi-Palama community and will provide additional facilities to serve a greater number of nearby residents. The Health Center will also support Objective B and Policy IX, Objective A policies by diversifying local establishments with a wider range of mixed uses in the community, specifically with health care near existing residents and frequent bus transportation. Finally, it will enhance the development on an existing site to benefit the physical character of community.

3.2.2 Primary Urban Center (PUC) Development Plan

The City and County Development Plans (DPs) represent eight geographic regions that include all areas of O'ahu. Kalihi-Palama is located in the area designated as Primary Urban Center. The corresponding development plan for this area is the *Primary Urban Center Development Plan*.

Before 1992, the City Charter required DPs to be "relatively detailed plans" for implementing and accomplishing the development objectives and policies of the General Plan. In 1992, a Charter amendment changed this to require the DPs to consist of "conceptual schemes."

In response to the 1992 Charter amendments, the City and County Department of Planning (now the Department of Planning and Permitting) launched a thorough review of all eight DPs to bring them into conformance with the Charter-mandated conceptual orientation. Of the eight documents, the plans for Ewa and the Primary Urban Center—areas to which growth and supporting facilities will be directed over the next twenty years—have been titled "Development Plans," while the other six documents are referred to as "Sustainable Communities Plans." The Primary Urban Center Development Plan was adopted in June 2004.

The PUC is conceptual in nature. It includes vision statements, policies, and guidelines to direct the development and improvement of the Primary Urban Center. It includes several parts—original ordinance, text, and maps. The text portion is made up of: 1) The Role of the Primary Urban Center

in Oahu's Development Pattern; 2) The Vision for the PUC's Future; 3) Land Use and Transportation; 4) Infrastructure and Public Facilities; and 5) Implementation. Pertinent sections applicable to the proposed Kalihi-Palama Health Center improvements include the following:

Chapter 2: The Vision for the PUC's Future

- 2.2 Livable neighborhoods have business districts, parks, plazas, and walkable streets.
    - *Livable neighborhoods include business and community services as well as residences. Key to livability is convenient access to work and to the many services and attractions found in an urban center. Rather than segregate residential from commercial uses, the goal is to integrate them in ways that provide greater convenience and bring activity to neighborhood streets.*

Discussion: The proposed project involves the consolidation of three locations to one along a major bus route, and in the midst of several affordable rental apartments. The consolidation of services in one location will likely reduce the travel time to visit more than one location for services, and thus, provide more time for clients to attend school or to work.

Chapter 3: Land Use and Transportation

- 3.2 Neighborhood Planning and Improvement
- 3.2.2.1 Neighborhood Planning
    - Promote mixed land uses. Office, retail, and community service uses can coexist with residential uses; and there are a number of opportunities for them to support each other. In traditional single-family neighborhoods, groupings of small stores provide convenient service and a place to meet neighbors. In the PUC's in-town neighborhoods, both residential and office development support retail and other services. Neighborhoods with a strong mix of uses have activity 24 hours a day. Residences providing "eyes on the street" contribute to neighborhood safety.
- 3.4 The Pacific's Leading City
    - Support industrial uses in the Kalihi-Palama industrial districts: support existing mixed-usages in the industrial districts of Kalihi-Kai and Palama as well as existing commercial uses along the Nimitz, Dillingham, King, Kalihi, and Waiakamilo corridors.

Discussion: Plans are consistent with the above policies of the PUC. Specifically, the KPHC will enhance the livability of the community by providing easy access to health facilities for the nearby residential communities. This further supports mixed land use. In addition, KPHC provides health care for a high concentration of blue collar workers.

Development Plan Maps

The *Primary Urban Center Development Plan* also includes a Development Plan Map.

Discussion: The *Primary Urban Center Development Plan* Land Use Map identifies the site as "District Commercial". Therefore the Kalihi-Palama Health Center is not inconsistent with the map.

3.3 LAND USE ORDINANCE

The Land Use Ordinance (LUO) (Chapter 21, Revised Ordinances of Honolulu) is the City and County of Honolulu's zoning ordinance. Besides zoning regulations, the LUO contains ordinances regulating the use of land and regulations intended to ensure that adequate controls and review mechanisms are in place for proposed land uses.

Discussion: The Kalihi-Palama Health Center site is zoned Business Mixed Use- Community (BMX-3) (Figure 5). According to the LUO (Section 21-3.120): "The intent of the BMX-3 community business mixed use districts is to provide areas for both commercial and residential uses outside of the central business mixed use district and at a lower intensity than the central business mixed use district."

For zoning purposes the Kalihi-Palama Health Center is considered a medical clinic, which is defined in the LUO as: "an office building or group of offices for persons engaged in the practice of medical or dental profession or occupation. A medical clinic does not have beds for overnight care of patients but can involve the treatment of outpatients. A 'medical profession or occupation' is any activity involving the diagnosis, cure, treatment, mitigation, or prevention of disease or which affects any bodily function or structure." Medical clinics are a permitted use in the BMX-3 district.

The proposed building requires a total of 21 parking spaces (1 parking per 400 square feet). There will be approximately 12 parking spaces provided on the site. With an additional agreement to share 40 parking stalls with the church during the weekdays and Saturdays. Total parking stalls projected 100. The parking system will enable full compliance with LUO parking requirements.

3.4 LIST OF PERMITS

The following permits will be required as part of the project:

Permit/Approval	Responsible Agency
ADA Accessibility	Disability and Communication Access Board
Building Permit for Building, Electrical, Plumbing, Sidewalk/Driveway and Demolition work	Department of Planning and Permitting
Grubbing, Grading, and Stockpiling Permit	Department of Planning and Permitting
Places of Assembly	Honolulu Fire Department
Sewer Connection Permits	Department of Planning and Permitting
Water	Board of Water Supply

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4.

Description of the Natural Environment, Potential Impacts, and Mitigation Measures

4. DESCRIPTION OF THE NATURAL ENVIRONMENT, POTENTIAL IMPACTS, AND MITIGATION MEASURES

The environment surrounding the proposed Kalihi-Palama Health Center includes the physical or natural environment and the human or social environment. This section describes the existing conditions, potential impacts to the environment, and mitigation measures.

4.1 24 CFR 58 ENVIRONMENTAL CONSIDERATIONS

Because the Kalihi-Palama Health Center may be receiving a Community Development Block Grant for the proposed project, this environmental assessment also addresses 24 CFR 58. The following information is provided to supplement the HUD Statutory Worksheet requirements.

4.1.1 Coastal Barrier Resources/Coastal Zones

The site of the Kalihi-Palama Health Center is not located within a coastal barrier designated area on a current FEMA flood map or the U.S. Fish and Wildlife Service's Coastal Barrier Resources System Mapper.

The proposed development of the Kalihi-Palama Health Center is consistent with the Hawai'i Coastal Zone Management (CZM) program (refer to Section 3.1.2). While the entire state is defined to be within the CZM Area, the project site is located on a previously developed site with impervious surfaces.

Potential Impacts and Mitigation Measures

Because the proposed Kalihi-Palama Health Center is not located within a coastal barrier designated on a current FEMA flood map or the U.S. Fish and Wildlife Service coastal barrier resources system mapper, the proposed improvements will have no impact on coastal barrier resources and no mitigation measures are proposed.

Because the proposed development of the Kalihi-Palama Health Center is consistent with the Hawai'i Coastal Zone Management (CZM) program objectives and policies as set forth in HRS § 205A-2, no impacts to coastal zones are anticipated and no mitigation measures are proposed. Specifically, the project will not disrupt historic, scenic, or open space resources, and is providing a facility for economic uses in a suitable location.

4.1.2 Floodplain Management

As identified by the Federal Insurance Rate Map (FIRM) (Figure 16) (City and County of Honolulu HoLIS Website) the Kalihi-Palama Health Center site is located outside of the 500-year floodplain boundary and outside of the floodway boundary. It is within "Zone X." The Zone X designation indicates areas determined to be outside the 500-year floodplain. This was confirmed during the Pre-Consultation process, when the State Department of Land and Natural Resources, Engineering Division wrote that the site is located in the National Flood Insurance Program (NFIP) Zone X and that NFIP does not regulate developments within this zone.

Potential Impacts and Mitigation Measures

Because the site is located in an area outside the 500-year floodplain, the proposed improvements are not expected to: 1) be highly susceptible to flooding; 2) change the 500-year floodplain; or 3)

affect the floodway and are consistent with HRS § 205A-2 objectives and policies related to coastal hazards.

4.1.3 Historic Preservation/Historic Properties

The site has been owned by the Episcopal Church since the mid-1900's and was developed between 1951 and 1958. As such, the site has been in urban use since at least the 1950's. The current facility was originally constructed in the 1950's with building permits dated June 5, 1951 and September 30, 1957; numbered 93430 and 139391 respectively.

Potential Impacts and Mitigation Measures

During the pre-assessment consultation process, the State Historic Preservation Division (SHPD) wrote:

> *"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."*

In response to SHPD's letter, the Kalihi-Palama Health Center contracted an archaeological investigation (including subsurface testing). The combination of a pedestrian survey and a total of four mechanically excavated trenches within the project area boundaries did not reveal the presence of cultural or historic sites on the ground surface or within subsurface contexts. All four trenches revealed the presence of fill matrices atop alluvial sediment atop coral reef substrate. Isolated pieces of modern debris (loose, broken bricks and ceramic fragments) were observed in the fill material. Although the archaeological investigation through pedestrian survey and mechanical excavation of the project area did not reveal archaeological sites or deposits, because of the proximity to previously discovered human burials, archaeological monitoring is recommended for future ground disturbance in the project area. The Archaeological Assessment (Appendix A) was received by SHPD on May 8, 2014 for its review and approval.

Since the original building was over 50 years old, a Section 106 Review (NHPA) is being requested. SHPD was contacted by the project architect, Inform Design, Inc. on June 18, 2014 and was instructed to provide the following information: Chapter 6E Historic Preservation Review Submittal Form, architectural plans, and photos of the existing buildings. The required information was submitted on June 19, 2014, and SHPD is currently reviewing the submittal.

4.1.4 Noise/Noise Abatement

As shown on Figure 10, the Kalihi-Palama Health Center is located over 5 miles from Hickam Air Force Base and over 3 miles from Honolulu International Airport.

Current sources of noise near the Kalihi-Palama Health Center include vehicle traffic along adjoining streets, and surrounding land uses, including churches, a recycling facility, and a service station and nearby apartments across Pua Lane and Kanoa Street. None of the proposed uses for the new health care facility are noise sensitive uses.

Potential Impacts and Mitigation Measures

The hours of operation for the facility will be: 8:00 am to 5:00 pm on Monday, Tuesday, and Friday; 8:00 am to 7:00 pm on Wednesday and Thursday; and 8:00 am to 4:00 pm on Saturday with a reduced staff. Considering the existing use of the site as a shopping plaza and the surrounding businesses, this use is consistent with existing sources of noise in the surrounding area.

Although the project is located within 5 miles of a civil airport (Honolulu International Airport) and within 15 miles of a military airfield (Hickam Air Force Base), according to 24 CFR 51, subpart B, Sec. 51.101(a)(8) [4-1-04 Edition], "sites with a day-night average sound level of 65 and below are acceptable and allowable." According to the adopted State Department of Transportation (2008) contours from Honolulu International Airport and Hickam Air Force Base, the project site is located in a zone with day-night average sound levels of less than 60 DNL (Figure 9).

The proposed development of the Kalihi-Palama Health Center does not involve residential development or development in noise sensitive areas. Short term noise impacts will be generated during construction. Proper mitigating measures (such as limiting construction to daylight hours) will be employed to minimize the noise impacts. All project activities will comply with the State Department of Health's Administrative Rules, Chapter 11-46, "Community Noise Control" and will be monitored to ensure compliance.

Long-term noise impacts due to the proposed Kalihi-Palama Health Center development are not expected to be significant. Traffic noise increases resulting from project-generated traffic are not expected to be significant and will mostly occur during normal business hours, and are not expected to generate adverse noise impacts.

Because long-term noise levels are not expected to be significant, no noise mitigation measures are planned as part of the project.

4.1.5 Hazardous Industrial Operations and Thermal/Explosives

The closest industrial-zoned land to the project is approximately 268 feet to the southwest. An environmental data radius map was contracted and no above ground storage tanks were noted within a one mile of the project site. Industrial facilities handling explosive or fire-prone materials such as liquid propane, gasoline, or other storage tanks are not adjacent to or visible from the Kalihi-Palama Health Center site.

Potential Impacts and Mitigation Measures

Because industrial facilities handling explosive or fire-prone materials such as liquid propane, gasoline, or other storage tanks are not adjacent to or visible from the Kalihi-Palama Health Center site, no potential impacts from hazardous industrial operations are anticipated and no mitigation measures are proposed.

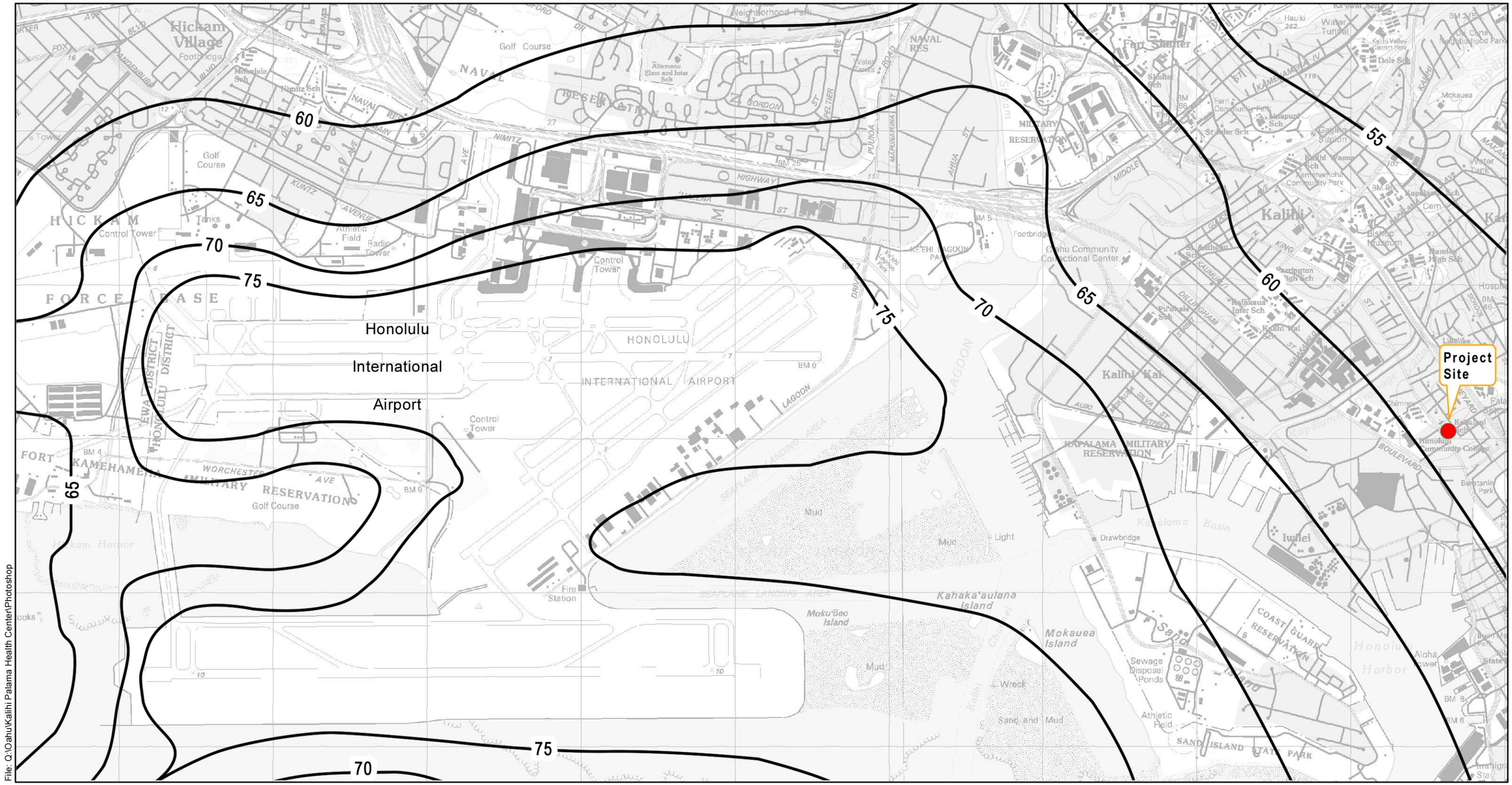
Because the proposed improvements to the Kalihi-Palama Health Center will expose neither people nor buildings to explosive or flammable fuels or chemical containers, no impacts are expected and no mitigation measures are proposed.

4.1.6 Airport Hazards/Airport Clear Zones

As shown on Figure 10, the Kalihi-Palama Health Center is located over 5 miles from Hickam Air Force Base and over 3 miles from Honolulu International Airport.

Potential Impacts and Mitigation Measures

Because the Kalihi-Palama Health Center is located over 5 miles from Hickam Air Force Base and over 3 miles from Honolulu International Airport there will be no impacts to airport clear zones and no mitigation measures are proposed.



Date: 2/6/2014

LEGEND

- Project Site
- Yearly Day-Night Average Sound Levels (DNL) Contours

Source: State Department of Transportation (2008)
Disclaimer: This graphic has been prepared for general planning purposes only.

Figure 9

Noise Exposure Map

KPHC - Health and Healing Home

KALIHI - PALAMA HEALTH CENTER

ISLAND OF O'AHU

NORTH

LINEAR SCALE (FEET)

0 1,000 2,000

PBR HAWAII & ASSOCIATES, INC.

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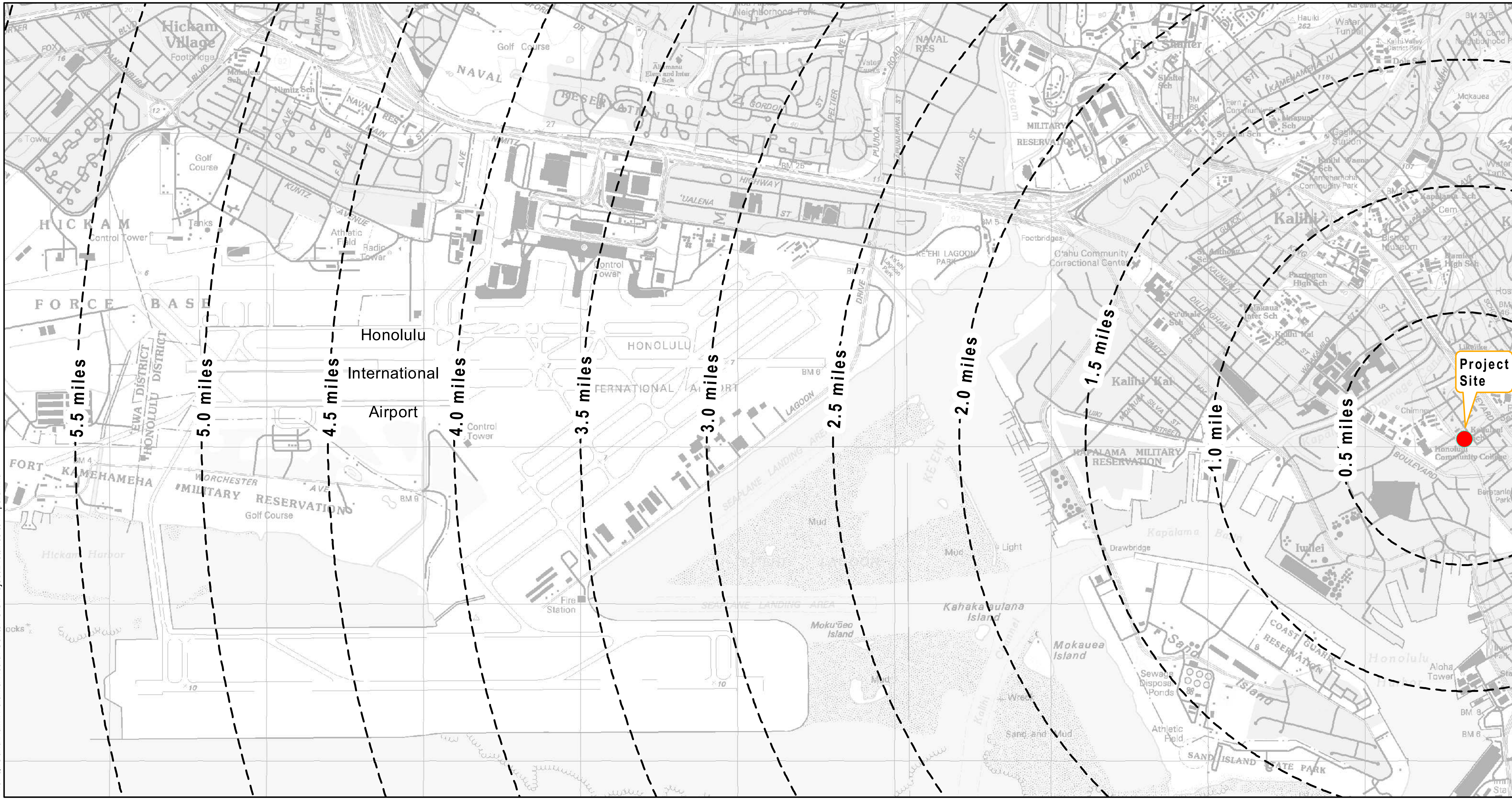


Date: 2/21/2014

LEGEND

- Project Site
- Distance to Honolulu International Airport

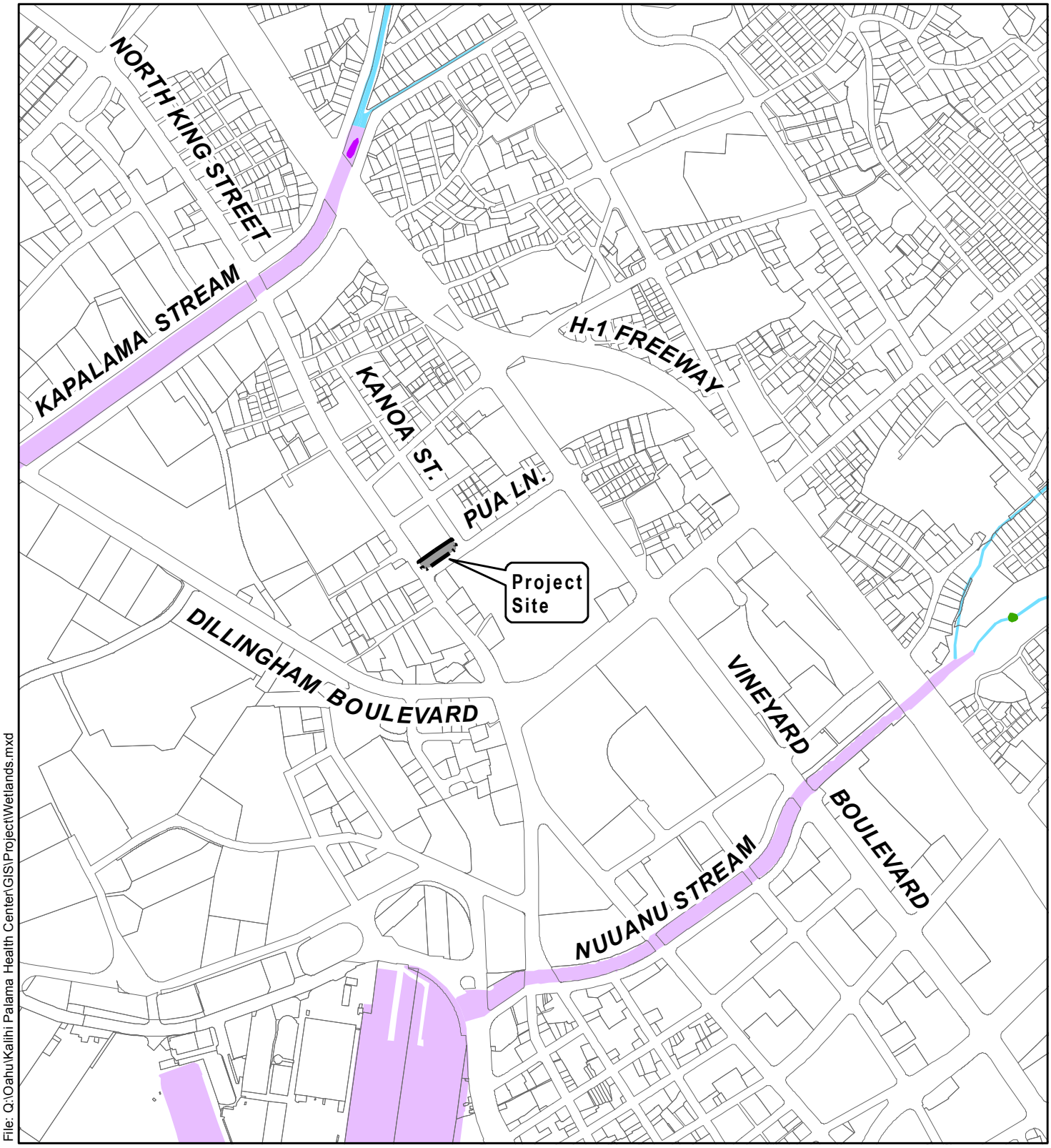
Source: U.S. Geological Survey
Disclaimer: This graphic has been prepared for general planning purposes only.

Figure 10
Distance to Honolulu Airport

KPHC - Health and Healing Home

KALIHI - PALAMA HEALTH CENTER
ISLAND OF O'AHU
NORTH
LINEAR SCALE (FEET)
0 1,000 2,000

PBR HAWAII
& ASSOCIATES, INC.



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Date: 2/21/2014

LEGEND

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

Figure 11
Wetlands

KPHC - Health and Healing Home

KALIHI - PALAMA HEALTH CENTER

ISLAND OF O'AHU

NORTH

LINEAR SCALE (FEET)

0 400 800

PBR HAWAII & ASSOCIATES, INC.

Source: U.S. Fish & Wildlife Service National Wetlands Inventory
Disclaimer: This graphic has been prepared for general planning purposes only.

File: Q:\Oahu\Kalihi Palama Health Center\GIS\Project\Critical Habitats.mxd

Date: 2/21/2014

LEGEND

- Project Site
- Critical Habitat for ‘Elepaio (bird)
- Critical Habitat for Plants

Source: U.S. Fish and Wildlife Service (2014)
Disclaimer: This graphic has been prepared for general planning purposes only.

Figure 12
Critical Habitats

KPHC - Health and Healing Home

KALIHI - PALAMA HEALTH CENTER ISLAND OF O‘AHU

NORTH LINEAR SCALE (FEET)
0 1,000 2,000

PBR HAWAII & ASSOCIATES, INC.

4.1.7 Protection of Wetlands

The Kalihi-Palama Health Center is not located within or adjacent to a wetland identified by or delineated on US Department of the Interior Fish & Wildlife Service National Wetlands Inventory (Figure 11). The nearest coastline is approximately 0.4 mile from the site. During the Pre-Consultation process, the U.S. Department of Army Corps of Engineers (ACOE) wrote that the ACOE has determined that, upon review of the location and information provided pursuant to Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act, a Department of the Army (DA) permit is not required for the proposed work activities related to this project.

Potential Impacts and Mitigation Measures

Because the Kalihi-Palama Health Center is not located within or adjacent to a wetland the proposed improvements will have no impact on wetlands and no mitigation measures are proposed.

4.1.8 Toxic Chemicals and Radioactive Materials

Since the property includes existing buildings, an inspection report for asbestos, lead-based paint, arsenic, PCBs, pesticides and lead in soil was conducted (Appendix E). The report found that there was asbestos in the mastics, sealants and caulking of the building, but all were in good (intact) condition. Lead-based paint (LBP) was found in the ceilings and beams of the former King's Market, but the paint was in intact condition. Arsenic was found in the canec ceiling of the church space but it was found to be in good condition. Light ballasts containing polychlorinated biphenyls (PCBs) were not identified in the inspection. Per HECO, the pole-mounted transformer observed at the site did not contain PCBs. A multi-increment soil sampling strategy was utilized to determine the average lead and organochlorine pesticides concentrations in the soil at the parking lot and the existing building concrete foundation. Chlordane and heptachlor Chlordane and heptaclor were detected at a concentration above the HDOH Environmental Action Level (EAL) in Decision Unit 2. Also, Aldrin, Dieldrin, Endrin 4,4'-DDE, 4,4'-DDT and, Endrin aldehyde, constituents of organochlorine pesticide, were detected at a concentration below their respective HDOH EALs.

There are no known radioactive materials on the site or used by former tenants.

The Kalihi-Palama Health Center site:

1) Is not near an industry disposing of chemicals or hazardous wastes;
2) Is not on an EPA Superfund National Priorities, CERCLA, or equivalent State list;
3) Is not located within 3,000 feet of a toxic or solid waste landfill site; and
4) Does not have an underground storage tank.

Potential Impacts and Mitigation Measures

While asbestos, lead-based paint, and arsenic were found in the building, the materials were intact and will be carefully removed (to reduce exposure to wind) and disposed of. Although chlordane and heptachlor exceeded the EAL, the soil can be managed in place. However, any unused soil from future excavation activities must be tested to determine disposal requirements. In addition, prior to any work, the Contractor disturbing the soil must notify his employees and subcontractors of the presence of pesticide and lead and must also ensure that all work is conducted in accordance with OSHA and HIOSH requirements.

4.1.9 Endangered Species/Flora and Fauna

The Department of Interior list of Endangered Species and Critical Habitats has been reviewed and the Kalihi-Palama Health Center will not affect any listed or proposed endangered or threatened species or critical habitats (Figure 12).

The site and surrounding area has been developed and used since the mid 1900's. As a result, no threatened or endangered plant or animal species are known to exist on the Kalihi-Palama Health Center site. Further, the existing vegetation is representative of introduced species and the site is not known to be a habitat for any threatened or endangered plant or animal species.

In addition, no wetlands, streams, estuaries, or other habitats that could accommodate threatened or endangered plant or animal species are present on the Kalihi-Palama Health Center property. The flora consists of exotic species due to previous landscaping. Birds and animals common to urban areas, such as rats, mice, and domesticated and feral cats, were sighted or are presumed to exist on the site.

Potential Impacts and Mitigation Measures

New landscaping, including trees, will be provided along King Street and Pua Lane, as part of the proposed Kalihi-Palama Health Center development. Plant materials will be selected to maximize the efficient use of irrigation water while enhancing the urban setting. The use of native plants will be considered where site conditions and aesthetic considerations permit.

The proposed Kalihi-Palama Health Center development should not have a negative impact to birds or introduced wildlife in the area. Birds and the introduced wildlife will most likely benefit from landscape improvements.

4.1.10 Sole Source Aquifers/Water Quality

According to the HUD-EPA (Region IX) Sole Source Aquifer Memorandum of Understanding of 1990, the Kalihi-Palama Health Center need not be referred to EPA for evaluation because it involves the construction of public facilities that will be served by an existing publicly owned and operated sewerage system (United States Environmental Protection Agency, 2013).

Potential Impacts and Mitigation Measures

Because the Kalihi-Palama Health Center will be served by an existing publicly owned and operated sewerage system, no impacts to aquifers are anticipated and no mitigation measures are proposed.

4.1.11 Wild and Scenic Rivers Act

According to the National Wild and Scenic Rivers System "Hawaii has approximately 3,905 miles of river, but no designated wild and scenic rivers" (National Wild and Scenic Rivers System, 2014). While the site is located between Kapālama Stream and Nuʻuanu Stream, neither is designated a wild or scenic river.

Potential Impacts and Mitigation Measures

Because the Kalihi-Palama Health Center is not located near a wild or scenic river, no impacts to the National Wild and Scenic Rivers System are anticipated and no mitigation measures are proposed.

4.1.12 Farmland Protection

The proposed improvements to the Kalihi-Palama Health Center will not require the conversion of farmland to non-agricultural uses. According to the Agricultural Lands of Importance to the State of Hawai'i (ALISH) system, the Kalihi-Palama Health Center site is located within "Existing Urban Development" and does not include lands classified as "Prime," "Unique," or "Other Important" agricultural land (Figure 14). In addition, the State Land Study Bureau Detailed Land Classification system has classified the Kalihi-Palama Health Center site as "Urban." (Figure 15)

Potential Impacts and Mitigation Measures

Since the site of the Kalihi-Palama Health Center is not considered farmland, the proposed improvements will have no impact on farmland and no mitigation measures are proposed.

4.1.13 Flood Insurance

The Kalihi-Palama Health Center site is not within a Special Flood Hazard Area identified on a current Flood Insurance Rate Map (FIRM). As identified by the FIRM (Figure 16) (City and County of Honolulu 15003C, Panel 0354G, January 19, 2011) the Kalihi-Palama Health Center is located outside of the 500-year floodplain boundary and outside of the floodway boundary. It is within "Zone X." The Zone X designation indicates areas determined to be outside the 500-year floodplain boundary. During the Draft EA public comment period, the State Department of Land and Natural Resources Engineering Division wrote:

> *We confirm that the project site, according to the Flood Insurance Rate Map (FIRM), is located in Zone X. The National Flood Insurance Program (NFIP) does not regulate developments within Zone X.*

Potential Impacts and Mitigation Measures

Because the Kalihi-Palama Health Center is not within a Special Flood Hazard Area identified on a current FIRM, flood insurance protection is not required.

4.1.14 Environmental Justice

The Kalihi-Palama Health Center is located in a predominantly minority and low-income neighborhood, however the Kalihi-Palama Health Center 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.

Potential Impacts and Mitigation Measures

The proposed Kalihi-Palama Health Center improvements will strengthen the KPHC's ability to carry out their mission, which is "To provide quality integrated health and social services to our community and all others in need of health care." The long-term result will enhance the social fabric and well-being of the community and contribute to healthy citizenry with the abilities to positively contribute to Hawai'i's social and economic well-being.

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 Kalihi-Palama Health Center.

4.1.15 Unique Natural Features and Areas

The Kalihi-Palama Health Center site is in an urban area and is not near unique natural features or near public or private scenic areas. Because the site and the surrounding area was previously used for decades, there are no other unique natural resources visible on the site or in the immediate vicinity.

Potential Impacts and Mitigation Measures

Because the Kalihi-Palama Health Center site is in an urban area and is not near unique natural features or near public or private scenic areas, unique natural resources will not be adversely affected by or affect the project, therefore no mitigation measures are warranted or proposed.

4.1.16 Site Suitability, Access, and Compatibility with Surrounding Development

The Kalihi-Palama Health Center site has not been used as a dump, sanitary landfill, or a mine waste disposal area. There is paved access to the site (via King Street and Pua Lane).

There is no indication of:

- Distressed vegetation
- Waste materials/containers
- Soil staining, pools of liquid
- Loose/empty drums
- Oil/chemical spills
- Abandoned machinery, cars, refrigerators, etc.
- Transformers, fill/vent pipes, pipelines, drainage structures

The proposed Kalihi-Palama Health Center development is compatible with the surrounding area in terms of:

- Land use—the surrounding land uses are urban
- Height, bulk, mass—the proposed improvements primarily will be similar in height, bulk and mass of structures in the nearby community
- Building type (mid-rise)
- Building density

The Kalihi-Palama Health Center will not be unduly influenced by:

- Building deterioration
- Postponed maintenance
- Obsolete public facilities
- Transition of land uses
- Incompatible land uses
- Inadequate off-street parking

There are no air pollution generators nearby that would adversely affect the site, such as:

- Heavy industry (generally located Makai of Nimitz Highway, downwind of the site)
- Incinerators
- Power generating plants
- Oil refineries
- Cement plants
- Large parking facilities (1,000 or more cars)
- Heavy traveled highway (6 or more lanes)—the H-1 freeway, is approximately 0.2 miles away.

Potential Impacts and Mitigation Measures

The proposed Kalihi-Palama Health Center improvements are consistent with the existing uses on the site and the surrounding area. The development will contribute to the Kalihi community by enhancing access the medical and health care. Finally, compared to the older and "abandoned" condition of the existing facility, the proposed improvements will improve the overall physical appearance of Kalihi. The proposed project will not be deficient in meeting the City and County of Honolulu's off-street parking requirements.

4.1.17 Soil Stability, Erosion, and Drainage

The Kalihi-Palama Health Center site is flat. There is no evidence of slope erosion or unstable slope conditions on or near the site. Furthermore, there is no evidence of ground subsidence, high water table, or other unusual conditions on the site.

There is no visual evidence of soil problems (foundation cracking or settling, basement flooding, etc.) on-site.

As the site is fully improved with a building and a parking lot, there is no indication of cross-lot runoff, swales, or drainage flows on the property. In addition, there is no visual indication of unsettled filled ground. Furthermore, there are no active rills or gullies on the site.

Wastewater from the Kalihi-Palama Health Center flows into the City and County of Honolulu wastewater disposal system, therefore a report of the soil conditions suitable for on-site septic systems has not been prepared or submitted.

Potential Impacts and Mitigation Measures

During the construction phases of the project, there is a potential for the generation of dust and for water-borne soil erosion. Construction activities will follow strict erosion control measures specified by applicable State and City regulations. Prior to issuance of a grading permit by the City and County of Honolulu, an erosion control plan and best management practices required will be submitted describing the implementation of appropriate erosion control measures. The erosion control plan will consist primarily of a dust screen with a silt sock and temporary storm drain protection. As for long term erosion control, there are currently no plans for permanent landscaping since there are no unpaved areas. Long term strategies in accordance with Hawaii Watershed Guidance, Section 5.3B include maintaining post-development peak runoff rate and average volume at levels that are similar to predevelopment levels; limit increases of impervious areas; and limiting disturbance of natural drainage features and vegetation. The site does not currently have vegetation, and consists of impervious surfaces made up of a parking lot and building structure. As such, soil run off and erosion will likely be minimal, and the runoff is not likely to increase.

4.1.18 Nuisances and Hazards

The Kalihi-Palama Health Center will not be affected by the following natural hazards:

- Faults, fracture
- Cliffs, bluffs, crevices
- Slope-failures from rains
- Unprotected water bodies
- Fire hazard materials

- Wind/sand storm concerns
- Poisonous plants, insects, animals
- Hazardous terrain features

Based on site inspection and observations, the Kalihi-Palama Health Center will not be affected by the following built hazards and nuisances:

- Hazardous streets (King Street fronting the Kalihi-Palama Health Center property is four lanes, with a posted speed limit of 25 miles per hour; Pua Lane and Kanoa Street fronting the KPHC are each two lanes, with posted speed limits of 20 miles per hour)
- Dangerous intersections (the T-intersection of King Street and Pua Lane is signalized with crosswalks and pedestrian crossing signals)
- Through traffic
- Inadequate separation of pedestrian/vehicle traffic
- Inadequate screened drainage catchments
- Hazards in vacant lots
- Chemical tank-car terminals
- Children's play areas located next to freeway or other high traffic ways
- Inadequate street lighting
- Quarries or other excavations
- Dumps/sanitary landfills or mining
- Railroad crossing
- High-pressure gas or liquid petroleum transmission lines on site
- Hazardous cargo transportation routes
- Oil or gas wells
- Industrial operations

The Kalihi-Palama Health Center will not be affected by the following nuisances:

- Gas, smoke, fumes
- Odors
- Vibration
- Glare from parking area
- Vacant/boarded-up buildings
- Unsightly land uses
- Front-lawn parking
- Abandoned vehicles
- Vermin infestation
- Industrial uses

Potential Impacts and Mitigation Measures

The proposed Kalihi-Palama Health Center improvements will not be affected by or affect natural hazards. For more information on natural hazards specific to Hawai'i refer to Section 4.2.4. The proposed improvements also will not be affected by built hazards and nuisances such as roadway traffic, inadequate drainage, or odors and vibrations, as these problems either do not exist on the site or the site plan has been designed to minimize such problems.

4.1.19 Water Supply, Sanitary Sewers, and Solid Waste Disposal

The KPHC site is served by adequate and acceptable:

- Municipal water supply
- Municipal sanitary sewers and waste water disposal system
- Private trash collection and municipal solid waste disposal

Potential Impacts and Mitigation Measures

After the proposed project is completed and in operation, the KPHC will continue to use the municipal water supply and solid waste disposal systems that currently service the site (and previous commercial tenants of the property), and no adverse impacts are expected, therefore, no unique mitigation measures are warranted. The KPHC will request a connection to the municipal sanitary sewer system. The existing off-site wastewater collection is presently adequate to accommodate the estimated demand associated with the project. During the Pre-Consultation process, the State Department of Health, Wastewater Branch wrote that it has no comments to offer at this time as the project will be connected to the City and County of Honolulu's sewer system. During the Pre-Consultation and Public Review processes, the City and County of Honolulu Board of Water Supply wrote that based upon current data, the "existing water system is adequate to accommodate the proposed health center."

For more information on infrastructure systems see section 4.2.11.

4.1.20 Schools, Parks, Recreation and Social Services

The nearest school is Ka'iulani Elementary School on North King Street. There is a small linear park between St. Elizabeth's Episcopal Church and Kaumakapili Church, which appears to have been developed by closing off Banyan Lane between North King Street and Kanoa Street. Among the major recreational resources of the area is the non-profit Palama Settlement, which offer recreational programs for school-aged children. Among the many social services providers in the area is the Kalihi-Palama Health Center, which currently offers year-round medical and health services for the children and family in the existing community.

Potential Impacts and Mitigation Measures

During the Pre-Consultation process, the State Department of Education wrote that it has no comments to offer at this time. The local school system is not expected to be negatively impacted by the proposed development of the Kalihi-Palama Health Center. The proposed project will not generate children, as say, a residential project would and thus, it will not affect the local school system's capability to service the potential school age children from the project. Most of the children and teens currently served or to be served are already in the public school system. Similarly, since it is expected that future clients of the proposed facility already served by area parks and recreation providers, the proposed consolidation of the KPHC facilities should have a positive impact on social services. During the Pre-Consultation and Draft EA Public Comment processes, the City and County of Honolulu Department of Parks and Recreation wrote that the project will have no impact on any program or facility of the Department.

4.1.21 Emergency Health Care, Fire, and Police Services

Emergency health care providers are located within a reasonable proximity to the Kalihi-Palama Health Center. The closest hospitals with emergency health care services are the St. Francis Hospital and Kuakini Medical Center. The approximate response time from these emergency health care providers to the Kalihi-Palama Health Center is approximately 3-5 minutes by ambulance service.

Police services are located within a reasonable proximity to the Kalihi-Palama Health Center. The City and County of Honolulu Police Department maintains a Kalihi Substation that is open 24 hours a day on Kam IV Road. The approximate response time from the Kalihi Substation to the Kalihi-Palama Health Center is eight minutes.

Municipal firefighting protection is provided by the Kalihi Fire Station located near the intersection of Kalihi Street and North King Street. The approximate response time from Kalihi Fire Station to the Kalihi-Palama Health Center is three minutes. There is a fire hydrant located near the existing King Street driveway to the Kalihi-Palama Health Center, and another one located across Pua Lane at the intersection of Kanoa Street.

Potential Impacts and Mitigation Measures

There may be an unavoidable and occasional need for emergency health care services. However, the Kalihi-Palama Health Center is not expected to have a long-term adverse impact on emergency medical services.

There may be an occasional and unavoidable demand for police protection services associated with Kalihi-Palama Health Center. During the Pre-Consultation process, personal communication from Lester Hite of the Police Department was received. Mr. Hite expressed concern whether the sidewalks would be open during construction. Acknowledging that there is a construction wall enclosing the property, he suggested that when construction activities occur that may cause the sidewalk to be blocked, notices be posted and that special duty officers be present to discourage pedestrians from using the sidewalk (when blocked during construction). Mr. Hite also noted that Pua Lane and Kanoa Street experience high rates of crime, so the building contractor should consider some form of security to reduce theft during construction. Finally, Mr. Hite suggested that the design of the facility consider avoiding blind spots and to allow police patrols to monitor the completed facility (to avoid graffiti, vandalism and/or theft). During the Draft EA public review period, the Police Department provided the following recommendations to minimize impact to vehicular and pedestrian traffic during construction:

> *"…the contractor hire adequate personnel to provide traffic control. Additionally, we recommend that all necessary signs, lights, barricades, cones, and other safety equipment be installed and maintained by the contractor to facilitate the flow of motor vehicle and pedestrian traffic in the area during construction. Further, the moving of heavy equipment or construction-related supplies should be conducted during nonpeak traffic hours."*

There may be an occasional and unavoidable demand for fire protection services associated with the Kalihi-Palama Health Center. The proposed new building does not require automatic fire sprinkler system based on size of building and construction type (2006 IBC as amended). There is an existing fire hydrant in front of the project site on North King Street, near the intersection of Pua

Lane. On-site fire protection requirements will be coordinated with the Fire Prevention Bureau of the Fire Department. During the Pre-Consultation process, the Fire Department provided input regarding: (1) fire department access road requirements, (2) water supply and required water flow, and (3) a request to receive civil drawings for review and approval.

4.1.22 Commercial/Retail and Transportation

Commercial/retail shopping services are located in the vicinity of the Kalihi-Palama Health Center along North King Street. The Kingsgate Shopping Center is located 3 blocks to the northwest of the Kalihi-Palama Health Center, with Costco, Home Depot, Lowe's, Kmart, and Money Mart nearby as well.

The Kalihi-Palama Health Center is accessible to employment, shopping, and services by both public transportation, walking, and private vehicle. The proposed site is within walking distance of the surrounding residential areas and the following bus stops: A, C, 1, 1L, 2, 2L, 3, 9, 11, 13, 40, 42, 43, 52, 53, 54, 62, 81, 83, 84, 84A, 88A, 90, 91, 92, 93, 96, 97, and 98.

The approaches to the Kalihi-Palama Health Center are convenient, safe, and attractive.

Potential Impacts and Mitigation Measures

The proposed development of the Kalihi-Palama Health Center are expected to have a positive impact on nearby commercial and other services.

Although the proposed improvements may increase the number of people traveling to the Kalihi-Palama Health Center by bus, this potential increase in bus ridership is not expected to be significant, since most clients served live within walking distance from the surrounding residential communities.

4.1.23 Air Quality

In general, air quality in Hawai'i is excellent due to the predominant northeast trade winds. Some localized conditions, such as heavy traffic at intersections, can negatively impact air quality. Air quality in the vicinity of the Kalihi-Palama Health Center is most likely affected by emissions from motor vehicle traffic on nearby roadways.

According to the Environmental Protection Agency (EPA) there are no "non-attainment" sites in the State of Hawai'i. A non-attainment area is defined as a locality where air pollution levels persistently exceed National Ambient Air Quality Standards.

Because there are no "non-attainment" sites in Hawai'i, the entire state is considered by the EPA to be in attainment for all criteria pollutants. Thus the Kalihi-Palama Health Center is located within an "attainment area." To ensure that existing air quality continues, both Federal and State standards have been established to identify ambient air quality conditions and potential changes as they may occur in the future.

Potential Impacts and Mitigation Measures

Long-term air quality impacts are not expected due to the proposed development of the Kalihi-Palama Health Center. Because air quality in Kalihi is primarily impacted from vehicle emissions, and because the proposed improvements are not expected to substantially increase traffic in the area, it may be concluded that the proposed improvements will not substantially alter air quality in

the vicinity. In addition, King Street (the nearest and busiest of the roadways fronting the property), is south-west of the project site, and is downwind during predominant trade wind conditions.

Short-term air quality impacts due to the proposed improvements may result from construction activities. During construction, air quality in the area may be impacted by exhaust generated from construction equipment and fugitive dust. All construction activities will implement best management practices to reduce any negative air quality impacts and comply with the provisions of Hawai'i Administrative Rules, Chapter 11-60.1, "Air Pollution Control," Section 11-60.1-33, Fugitive Dust. A combination of measures such as watering exposed soils, minimizing the amount of disturbed area, and rapid establishment of plant materials will be implemented as appropriate. Exhaust emissions from construction equipment are not likely to exceed established air quality standards.

4.2 ADDITIONAL ENVIRONMENTAL CONSIDERATIONS

The following additional environmental considerations are provided in addition to 24 CFR 58 in fulfilment of the State of Hawai'i Environmental Impact Statement Law (Chapter 343, HRS).

4.2.1 Climate

In Kalihi, in the vicinity of the project site, trade wind showers are relatively common and although heavy rains occur at times, most of the showers are light and of short duration. Normal annual rainfall is greater than 120 inches at the top of Kalihi Valley, but significantly less in the area of the project site, (30 to 45 inches), most of which occurs during the wet season from November through April.

Surface winds are generally around 13 to 24 miles per hour from the northeast. There are some seasonal changes in prevailing wind direction in winter with southerly Kona winds. Strong winds do occur at times in connection with storm systems moving through the area. Daily variations include diurnal effects of winds from the southwest quadrant during the night and morning hours, shifting to the northeast during the day.

Potential Impacts and Mitigation Measures

The proposed development of the Kalihi-Palama Health Center is not expected to have a significant effect on climatic conditions and no mitigation measures are planned. The design of the building will reduce the amount of solar heat gain through the wall screen design on the exterior wall of the building.

4.2.2 Topography

The site of the Kalihi-Palama Health Center is generally flat.

Potential Impacts and Mitigation Measures

The site already has been extensively modified by improvements related to the existing Shopping Center facilities. The proposed development will occur over the existing paved parking lot which should result in minimal grading and land disturbance. The development will not adversely impact the topographic nature of the Site relative to the surrounding lands. Any grading will follow Best Management Practices (BMPs). The site development and earth disturbance will be limited to surface soils. All grading operations will be conducted in full compliance with dust, erosion control and other requirements of the City and County of Honolulu Grading Ordinance. All construction

activities will comply with the provisions of Chapter 11-60.1, Hawai'i Administrative Rules, on fugitive dust.

4.2.3 Soils

There have been three soil suitability studies prepared for Hawai'i whose principal focus has been on describing the physical attributes of land and the relative productivity of different land types for agricultural production. These are (1) the Land Study Bureau Detailed Land Classification, (2) the U.S. Department of Agriculture Soil Conservation Service Soil Survey, and (3) the Agricultural Lands of Importance to the State of Hawai'i (ALISH).

4.2.3.1 Land Study Bureau Detailed Land Classification

The Land Study Bureau Detailed Land Classification (1965 through 1972) series was produced by the Land Study Bureau (LSB) of the University of Hawai'i for each island. The LSB classification system groups land into homogeneous units called Land Types, describes their condition and environment, delineates the areas on aerial photo base maps, rates the lands on their overall quality (productivity) in relation to other lands, and appraises their performance under selected alternative agricultural crops. This series of reports were produced with the intention of developing a land inventory and productivity evaluation based on statewide "standards" of crop yields and levels of management.

The University of Hawai'i Land Study Bureau (LSB) Detailed Land Classification, Island of O'ahu, classifies non-urban land by a five-class productivity rating system, which indicates the degree of overall suitability of the land for agricultural use, using the letters A, B, C, D, and E, where "A" represents the highest class of productivity and "E" represents the lowest class of productivity. The KPHC Site is urban, unclassified land (Nelson, 1972) (Figure 15).

The Kalihi-Palama Health Center site has been used for urban uses the 1950's when it was first developed by the Episcopal Church who has owned it since then. The parcel has therefore, been classified "urban" under the Land Study Bureau system since its uses foreclosed an agricultural crop production potential.

4.2.3.2 Soil Conservation Service Soil Survey

The Soil Conservation Service Soil Survey (1972) series for each island was prepared by the U.S. Department of Agriculture Soil Conservation Service (SCS) and the University of Hawai'i Agricultural Experiment Station. These reports are somewhat similar to those of the Land Study Bureau, except that they are patterned after a soil classification procedure adapted for nationwide, uniform application. Soil types are ranked according to their suitability for most kinds of crops. Also provided are listings of crops commonly grown on the soil types and their expected productivity under present management.

The USDA Soil Survey classifies the Kalihi-Palama Health Center site as containing Ewa silty clay loam, moderately shallow, 0-2% slopes (Figure 13).

4.2.3.3 Agricultural Lands of Importance to the State of Hawai'i

The Agricultural Lands of Importance to the State of Hawai'i (ALISH) (1977) system includes the entire state. The State of Hawai'i Department of Agriculture's Lands of Importance to the State of Hawai'i (ALISH) system rates agricultural land as "Prime," "Unique," or "Other." The remaining land

is not classified. The land within the site is not classified. A map of the land classification in the area can be seen in Figure 14.

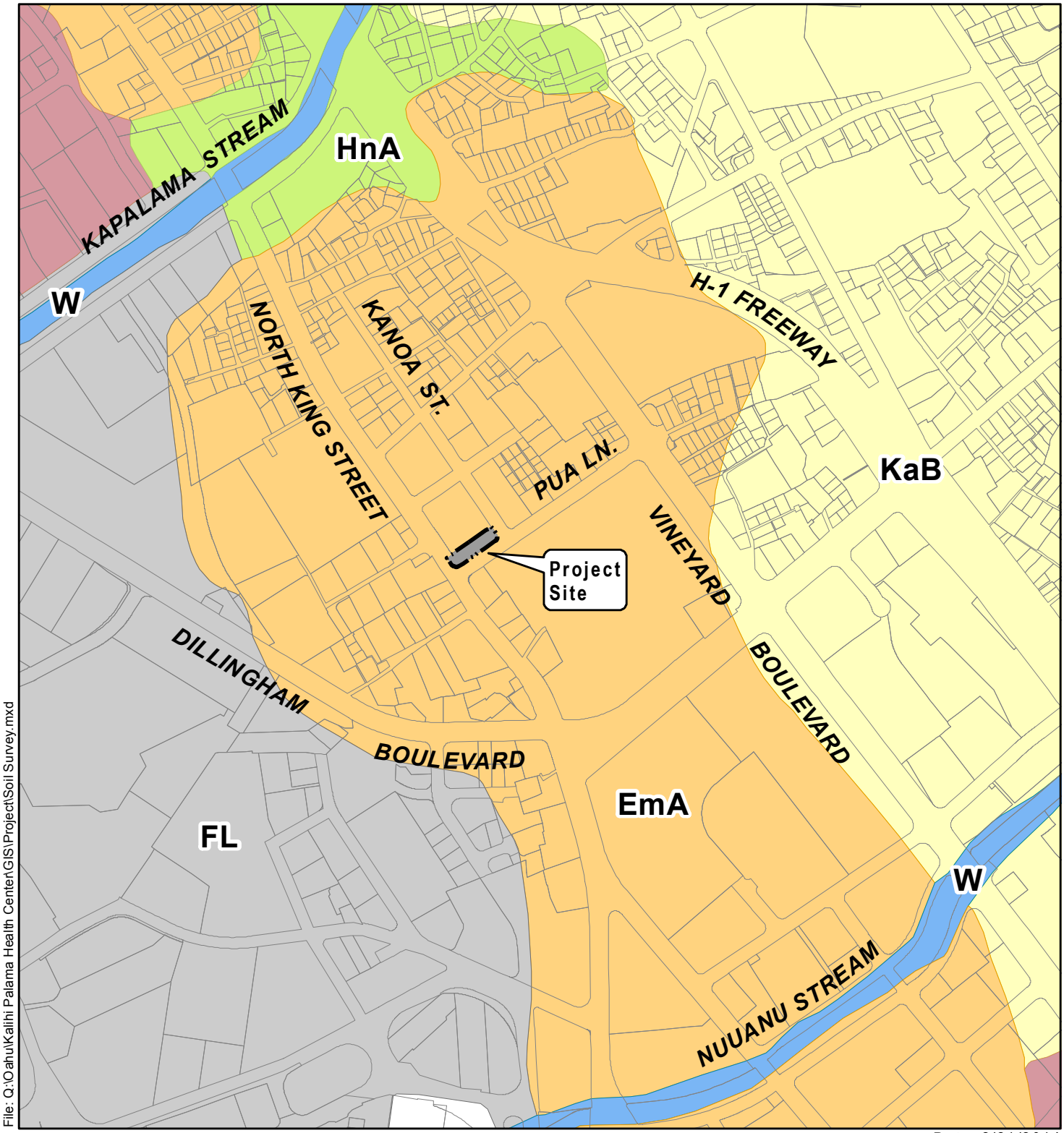
The Kalihi-Palama Health Center site is classified as "Existing Urban Development" by the ALISH system most likely due to its use of the past century for urban uses. No portion of the site is classified as "Prime," "Unique," or "Other Important" agricultural land.

Potential Impacts and Mitigation Measures

Construction of the KPHC will not reduce the inventory of agriculturally significant land.

Impacts to the soils include potential for soil erosion and the generation of dust during grading and construction. All construction activities will comply with all applicable Federal, State, and County regulations and rules for erosion control. Although not expected, if soil disturbance exceeds one acre in area, a National Pollutant Discharge Elimination System (NPDES) permit for Storm Water Associated with Construction Activity will be necessary.

During the construction phases of the project, there is a potential for the generation of dust and for water-borne soil erosion. Construction activities will follow strict erosion control measures specified by applicable State and City regulations. Prior to issuance of a grading permit by the City and County of Honolulu, an erosion control plan and best management practices will be submitted describing the implementation of appropriate erosion control measures. In addition, a watering program will be implemented to minimize soil loss through fugitive dust emissions during construction. After construction, establishment of permanent landscaping will serve as long-term erosion control for unpaved areas.



File: Q:\Oahu\Kalihi Palama Health Center\GIS\Project\Soil Survey.mxd

Date: 2/21/2014

LEGEND

- Project Site
- EmA: Ewa silty clay loam, moderately shallow, 0-2% slopes
- FL: Fill land, mixed
- HnA: Hanalei silty clay, 0-2% slopes
- KaB: Kaena clay, 2-6% slopes
- W: Water > 40 acres
- Others

Source: U.S. Department of Agriculture Natural Resources Conservation Service
Disclaimer: This graphic has been prepared for general planning purposes only.

Figure 13
Soil Survey

KPHC - Health and Healing Home

KALIHI - PALAMA HEALTH CENTER
ISLAND OF O'AHU

NORTH
LINEAR SCALE (FEET)
0 300 600

PBR HAWAII & ASSOCIATES, INC.

File: Q:\Oahu\Kalihi Palama Health Center\GIS\ProjectALISH.mxd

Date: 2/21/2014

LEGEND

Project Site

P: Prime ALISH

U: Unique ALISH

O: Other ALISH

Figure 14

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

KPHC - Health and Healing Home

KALIHI - PALAMA HEALTH CENTER

ISLAND OF O'AHU

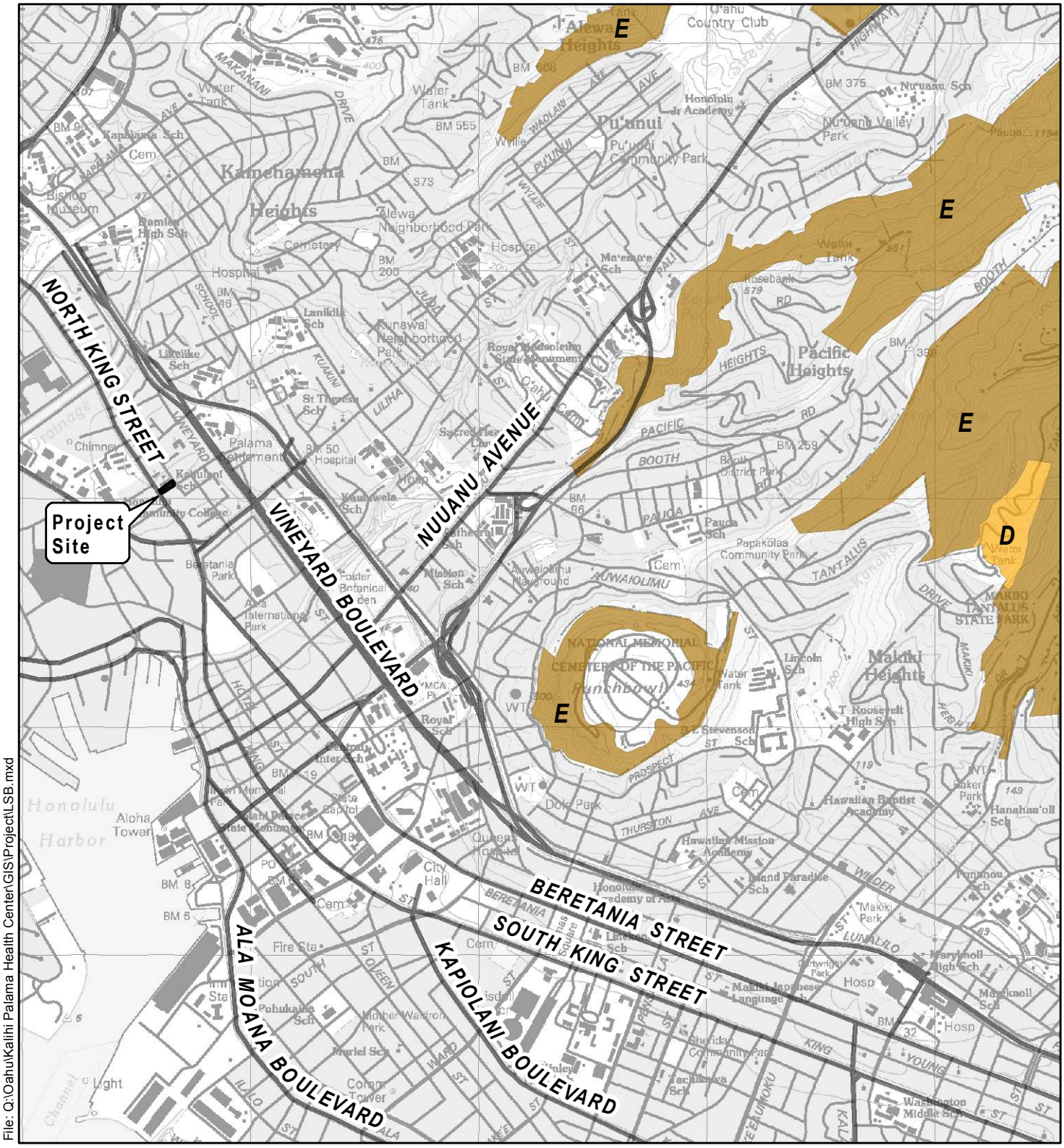
NORTH

LINEAR SCALE (FEET)

0 1,000 2,000

PBR HAWAII & ASSOCIATES, INC.

Source: State Department of Agriculture (1977)
Disclaimer: This graphic has been prepared for general planning purposes only.



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Date: 2/21/2014

LEGEND

- Project Site
- A: Excellent
- B: Good
- C: Fair
- D: Poor
- E: Very Poor

Figure 15

Land Study Bureau
Detailed Land Classification

KPHC - Health and Healing Home

KALIHI - PALAMA HEALTH CENTER

ISLAND OF O'AHU

NORTH

LINEAR SCALE (FEET)

0 1,000 2,000

PBR HAWAII & ASSOCIATES, INC.

Source: Land Study Bureau (1972)
Disclaimer: This graphic has been prepared for general planning purposes only.

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4.2.4 Natural Hazards

Natural hazards affecting the Hawaiian Islands include hurricanes, volcanic eruptions, earthquakes, and flooding. Volcanic hazards in the area are considered minimal due to the extinct status of former volcanoes that comprise O'ahu.

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 rocked the islands in the past. Seismic hazards in the area are no greater than other locations on O'ahu.

Hurricanes have directly impacted Hawai'i twice in the past two decades. Both events were centered on Kaua'i. Hurricane 'Iwa struck in 1982 and Hurricane 'Iniki in 1992. While these events are relatively rare in Hawai'i, they do occur, and call for advanced planning and state and county policy considerations. 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.

As identified by the Federal Insurance Rate Map (FIRM) (Figure 16), the Kalihi-Palama Health Center is located outside of the 500-year floodplain boundary and outside of the floodway boundary. It is within "Zone X." The Zone X designation indicates areas outside the 500-year floodplain boundary.

Potential Impacts and Mitigation Measures

The development of the Kalihi-Palama Health Center will not exacerbate any natural hazard conditions. The improvements will be constructed in compliance with all City requirements, although these requirements do not preclude potential damage from earthquakes or other natural hazards. Landscaping, particularly trees may be subject to damage from hurricanes and possibly from earthquakes.

4.2.4.1 Flood

Existing Conditions

The Federal Emergency Management Agency (FEMA) publishes flood information in the form of Flood Insurance Rate Maps (FIRM) used by government and insurance agencies to determine the relative potential for damage during flood events.

According to the Flood Insurance Rate Map (FIRM) prepared by the Federal Emergency Management Agency (FEMA), National Flood Insurance Program, the Site is located within Zone X, an area that has been deemed outside of the 0.2% annual chance (or 500 year floodplain) floodplain (Figure 16). During the Draft EA public comment period, the State Department of Land and Natural Resources Engineering Division wrote:

> *We confirm that the project site, according to the Flood Insurance Rate Map (FIRM), is located in Zone X. The National Flood Insurance Program (NFIP) does not regulate developments within Zone X.*

Potential Hazards and Mitigation Measures

The KPHC development is not anticipated to increase the Site's exposure to flooding. The Site is located in an area located outside of the floodplain (Zone X on the FIRM). The construction on the site is not anticipated to increase the amount of impervious surfaces and is not likely to cause an

increase in runoff. The project site has minimal opportunity to incorporate LID due to the limited site area.

4.2.4.2 Tsunami

Existing Conditions

Since the early 1800's, approximately 50 tsunami have inundated the State of Hawai'i's shores. Seven historical events have caused major damage. According to the FEMA Flood Insurance Rate Maps (FIRM), the Site is located well outside of areas which would be impacted by coastal flooding (from a tsunami). The most recent tsunami to impact O'ahu, occurred on March 11, 2011, causing damage at several locations around the island especially the north shore. There are no records of inundation of lands within Kalihi-Palama during any of the recorded tsunami.

The Site is located approximately .5 miles inland from the nearest (port) and 1 mile from the nearest coast, outside the designated tsunami evacuation zone.

Potential Hazards and Mitigation Measures

The proposed project will not exacerbate any tsunami hazard conditions. The Site is not in a designated tsunami evacuation zone and is not expected to be adversely impacted by a tsunami.

4.2.4.3 Hurricane

Existing Conditions

Hurricanes are classified into one of five categories according to the Saffir-Simpson Hurricane Scale. The Scale provides some indication of the potential damage and flooding a hurricane will cause upon landfall. Since 1980, two hurricanes have had a devastating effect on Hawai'i. They were Hurricane 'Iwa in 1982 (Category 1- sustained winds between 75 and 95 mph) and Hurricane 'Iniki in 1992 (Category 4- sustained winds between 131 – 155 mph). In both instances, much of the damage sustained on O'ahu occurred along the Wai'anae Coast as the hurricanes passed between the islands of Kaua'i and O'ahu. While it is difficult to predict such natural occurrences, it is reasonable to assume that future incidents are likely, given historical events.

Potential Impacts and Mitigation Measures

During the Pre-Consultation process, the State Department of Defense recommended incorporating hazard mitigation measures, such as hardening of the proposed facility against hurricanes 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.

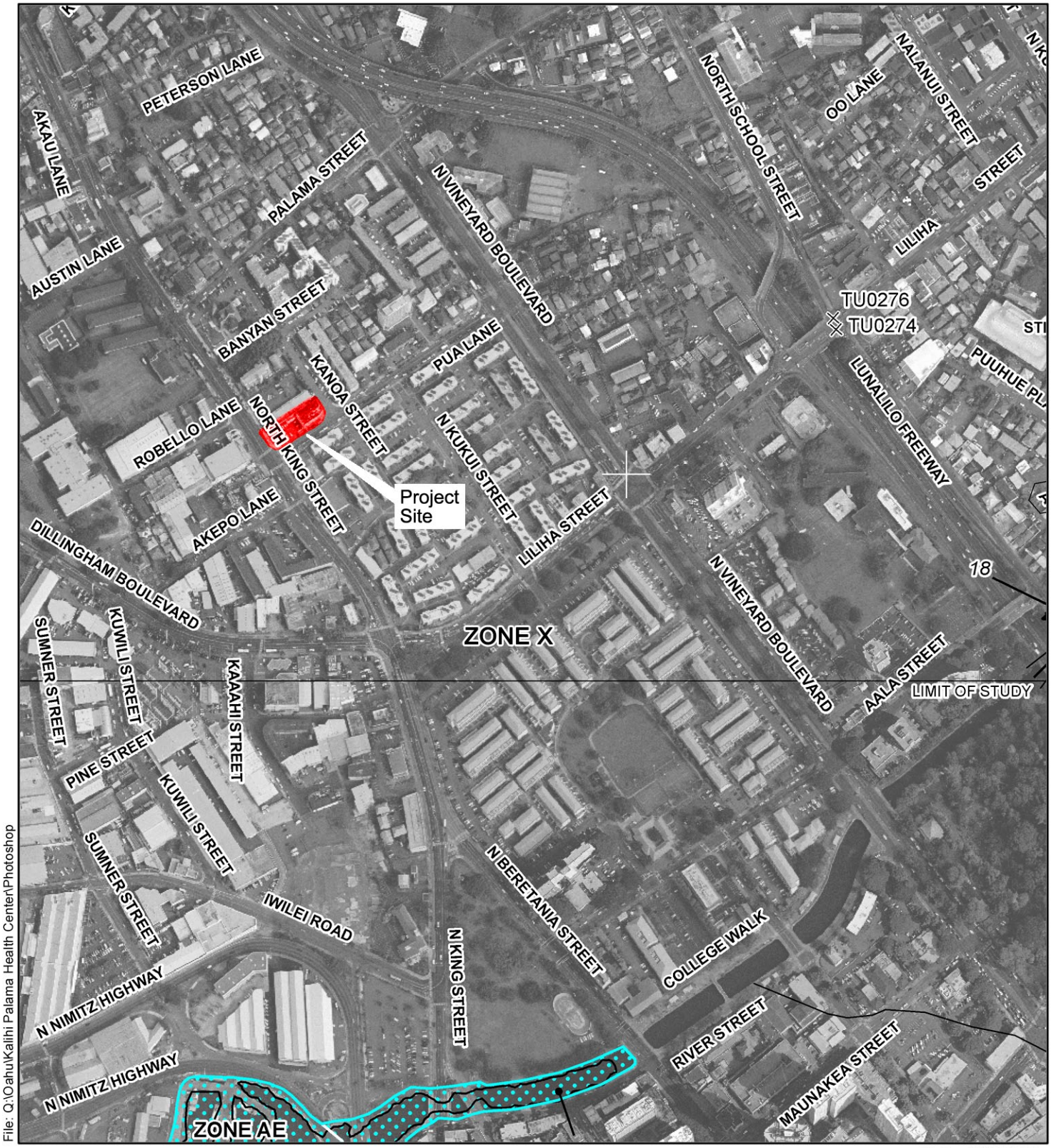
4.2.4.4 Wildfires

Existing Conditions

The greatest danger of fire is where wildland (trees and brush) borders urban areas. The Hawaiian Islands are vulnerable to wildland fires (especially during the summer months, prolonged drought and/or high winds), and the great majority of wildfires are human-caused (intentionally caused or by negligence) and start along roadsides. Wildfires can and do also occur naturally.

Potential Impacts and Mitigation Measures

While the hazard of wildland fires exists, the typically wet climate in which the Site is located, minimizes risk.



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Date: 2/2/2014

LEGEND

Project Site

Zone X: Outside Floodplains

Zone AE: 100-year Floodplain

Figure 16

Flood Insurance Rate Map (FIRM)

KPHC - Health and Healing Home

KALIHI - PALAMA HEALTH CENTER

ISLAND OF OAHU

NORTH

LINEAR SCALE (FEET)

0 250 500

PBR HAWAII & ASSOCIATES, INC.

Source: Federal Emergency Management Agency (Panel 0354G, 2011)
Disclaimer: This graphic has been prepared for general planning purposes only.

4.2.5 Archaeological and Historic Resources

The site has been owned by the Episcopal Church since the mid-1900's and was developed between 1951 and 1958. As such, the site has been in urban use since at least the 1950's.

During the pre-assessment consultation process, the State Historic Preservation Division (SHPD) wrote:

> *"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."*

In response to SHPD's letter, the Kalihi-Palama Health Center contracted an archaeological investigation (including subsurface testing). The combination of a pedestrian survey and a total of four mechanically excavated trenches within the project area boundaries did not reveal the presence of cultural or historic sites on the ground surface or within subsurface contexts. All four trenches revealed the presence of fill matrices atop alluvial sediment atop coral reef substrate. Isolated pieces of modern debris (loose, broken bricks and ceramic fragments) were observed in the fill material. Although the archaeological investigation through pedestrian survey and mechanical excavation of the project area did not reveal archaeological sites or deposits, because of the proximity to previously discovered human burials, archaeological monitoring is recommended for future ground disturbance in the project area. The Archaeological Assessment (Appendix A) was received by SHPD on May 8, 2014 for its review and approval.

Since the original building was over 50 years old, a Section 106 Review (NHPA) is being requested. SHPD was contacted by the project architect, Inform Design, Inc. on June 18, 2014 and was instructed to provide the following information: Chapter 6E Historic Preservation Review Submittal Form, architectural plans, and photos of the existing buildings. The required information was submitted on June 19, 2014, and SHPD is currently reviewing the submittal.

Potential Impacts and Mitigation Measures

Because no significant archaeological resources are expected to be found on the Kalihi-Palama Health Center site, no potential impacts are anticipated.

Despite the unlikeliness of finding archaeological resources, during the Draft EA Public Comment period, the Office of Hawaiian Affairs wrote that it "…concurs with the State Historic Preservation Division recommendation to have an archaeological monitor present during all ground disturbing activities. We also request assurances that should iwi kupuna or Native Hawaiian cultural deposits be identified during any other ground altering activities, all work will immediately cease and the appropriate agencies, including OHA, will be contacted pursuant to applicable law.

All construction plans will include the following language as normally recommended by the State Historic Preservation Division:

> *"Should historic remains such as artifacts, burials, concentrations of shell or charcoal be encountered during the construction activities, work shall cease immediately in the immediate vicinity of the find and the find shall be protected from further damage. The contractor shall immediately contact the State Historic Preservation*

Division at 692-8015 which will assess the significance of the find and recommend an appropriate mitigation measure, if necessary."

4.2.6 Cultural Impacts

The two ahupuaʻa closely associated with this project site are Kalihi and Kapālama. Kalihi means the "edge" or "boundary. Prior to development, the lower part of Kalihi Valley was noted as being terraced on both sides of Kalihi Stream. Bennet describes the valley as "human dwellings and cultivated lands were very few, or scattered thinly… of probably the finest soil in the world" (Handy & Handy , 1972). According to a 1959 map by the Bishop Museum, the Kalihi *ahupuaʻa* boundary is west of what we know today as Kalihi Street. Much of what we consider Kalihi, including landmarks such as Kamehameha Shopping Center, Farrington High School, Kalākaua Middle School and Kalihi-Kai Elementary School, fall within the boundaries of Kapālama.

Kapālama means the "enclosure of lama." The sacred lama wood was used to create an enclosure, built to secure an establishment for the high ranking *aliʻi*, chief / chiefess'. In order to secure the highest rankings, the first-born to the high chiefs or chiefess' were sent to a separate establishment where they were given special care. Religious ceremonies were performed and mating between high-ranking chiefs were performed before they were allowed to leave.

According to legend, Kapālama was also said to have been given its name from the grandmother of a *kupua,* demi-goddess Lepeamoa (the chicken girl of Pālama). Lepeamoa was born to a Kauaʻi chief named Keahua, and the daughter of Kapālama, Kauhao. Lepeamoa, was born as an egg and raised by her grandmother Kapālama and her grandfather Honouliuli on the island of Oʻahu. Lepeamoa was so beautiful in her human form, colors of the rainbow would surround her wherever she went. When her days of her childhood had passed, her grandfather gave his name, Honouliuli, to the area west of Honolulu, while her grandmother Kapālama gave her name to the place they lived.

Recent History

The land under the project site is owned by the St. Elizabeth's Episcopal Church. In 1902, Deaconess Emma Britt Drant was granted blessings to begin a ministry among the growing Chinese population in the Kapālama district. The property at 720 N. King Street was purchased and the St. Elizabeth's House was first established. Originally serving as a settlement house and school, St. Elizabeth's began to flourish as a neighborhood church serving Chinese residents, and eventually reaching local Japanese, Hawaiians, and Koreans. In 1945, the church became a self-supporting parish and a new facility was needed to support the growing congregation. The new church building became the first church building in Hawaiʻi with central air conditioning. The original church was demolished, making way for Shim Hall, which would serve as a school building. By the 1960's, church members began to move away, the congregation had declined drastically and the school no longer viable.

Following closure of the school, Shim Hall was leased for businesses that housed a restaurant, a market, check-cashing shop and a hair salon.

Traditional Practices

Since the new church and Shim Hall was built in the 1950's, it is unlikely that any traditional Hawaiian activities including, but not limited to, gathering of native plants, animals and other natural resources in the area used for cultural, religious and subsistence practices have occurred in recent history.

Other notable landmarks in the near vicinity include: the old Pālama Theater, Tamashiro Market and Kaumakapili Church (listed on the National registry of Historic sites).

Kaumakapili Church of today is the third building of the Kaumakapili Church. In 1837, the governor Kekuanoʻa suggested a church be built in a village, specifically Kaumakapili where some 13,000 Hawaiians were living. The high chief Paki and his wife Konia, parents of Bernice Pauahi Bishop, granted the lot on the corner of Smith and Beretania. The first building was built with a thatched roof and accommodated about 2,500 people. By 1865, this building was also used for the election following the death of Kamehameha V, as well as many other political issues and crisis. In 1881, a new church building was built, under the guidance of King Kalākaua. This second building featured a high basement, outside stairs to the auditorium, two steeples and quickly became an imposing landmark of Honolulu.

The bubonic plague caused health authorities to take drastic measures by burning down sections of Chinatown. The fire destroyed the church resulting in the eventual sale of the old Kaumakapili Church site and purchase of the new site in the Kapālama area, where the current church building still stands. This building was built in 1910 and dedicated on June 25, 1911. Interestingly, KPHC grew out of a free walk-in health clinic that opened in 1975, in the basement of the Kaumakapili Church.

The project site, which is located on St. Elizabeth's Church grounds, remains separated from Kaumakapili church by an adjacent parking lot and the St. Elizabeth's Church. Because the project site is separated from Kaumakapili Church, it is unlikely that any traditional activities occurring at the Church, will be adversely impacted by the proposed project. It is highly likely that the KPHC services many of the congregation of the Kaumakapili Church, so the proposed project may have a positive impact on Church members.

Potential Impacts and Mitigation Measures

The project site, which is located on St. Elizabeth's Church grounds, remains separated from Kaumakapili church by an adjacent parking lot and the St. Elizabeth's Church. Because the project site is separated from Kaumakapili Church, it is unlikely that any traditional activities occurring at the Church, will be adversely impacted by the proposed project. It is highly likely that the KPHC services many of the congregation of the Kaumakapili Church, so the proposed project may have a positive impact on Church members.

During the pre-assessment consultation process, the State Office of Hawaiian Affairs identified a number cultural practitioners and/or kupuna who might be able to provide information on cultural impacts that could be interviewed. While several attempts were made to interview each individual, we were successful in contacting Richard Kamanu, Kahu of Kaumakapili Church.

According to Richard Kamanu, Kahu of Kaumakapili Church, the ethnic make-up of the community has changed over the years. In the 1980's, the Kapālama community consisted mainly of Hawaiian, Sāmoan, Filipino and Chinese. Since then, the number of Sāmoan community members dropped as more residents from Micronesia began to populate the area. He also mentioned that today more immigrants from mainland China are moving into the Kapālama area. Many Hawaiian families who used to reside in the Kalihi-Palama area have moved to other areas within Honolulu, and to rural areas of Oʻahu. Kahu Richard concurs that it is unlikely that any Hawaiian cultural activities will be impacted by this project.

4.2.7 Economic Impacts

The KPHC is a not-for-profit organization. Its major sources of funding are: 1) patient revenues (60%); 2) grants and contracts (36%); 3) in-kind contributions (4%); and 4) other contributions (1%). The KPHC's annual budget is $19 million.

Currently there are 240 full-time and part-time employees at the Kalihi-Palama Health Center, yielding an equivalent of 220 full time employees.

The proposed Kalihi-Palama Health Center improvements are estimated to cost $9 million for the Makai and Mauka Phases.

Potential Impacts and Mitigation Measures

The proposed improvements will generate short-term construction employment and associated other jobs in the economy generated by sales to construction companies or the expenditure of wages by workers.

When fully operational the Kalihi-Palama Health Center will have 270 full-time and part-time employees, yielding an equivalent of 250 full-time employees.

In the larger context, the proposed project will allow the KPHC to provide increased programs and services, by allowing existing services to be delivered more efficiently. The goal of these programs and services is to positively enhance the social fabric and well-being of the community, ultimately contributing to healthy citizenry with the abilities to positively contribute to Hawai'i's social and economic well-being.

4.2.8 Social Impacts

Kalihi is a working-class, multi-ethnic neighborhood located to the west of downtown Honolulu. Like other neighborhoods located within the "Heart of Honolulu," Kalihi has experienced urbanization and a mixing of industrial and commercial businesses with low-rise apartments and single-family homes. Although formerly primarily residential neighborhood, the transition to more intense land use has led to a decline in Kalihi's residential character and identity.

Kalihi has historically been a first home for many immigrants to Hawaii. According to 2010 U.S. Census data, nearly half (46.3 percent) of Kalihi residents are foreign-born (U.S. Census Bureau, 2014). Today, most of Kalihi's residents are Asian alone, native Hawaiian and Other Pacific Islander alone (City-Data, 2014).

Kalihi residents are hard-working. Approximately 39 percent of men and 38 percent of women in Kalihi work in service occupations. However median household income ($56,654) is slightly below that of the City & County of Honolulu ($57,936) (City-Data, 2014).

The Bishop Museum is a major cultural and educational asset to the community. There are also many public schools in the area, including King David Kalakaua Middle School, Kalihi Kai Elementary School, Likelike Elementary School, Kauluwela Elementary School, Central Middle School, and Farrington High School. The majority of the students at these schools reflect the low-income, multi-ethnic character of Kalihi. As 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."

According to the mission statement of the KPHC aims "To provide quality integrated health and social services to our community and all others in need of healthcare." The KPHC focus is "preventative primary health care provided in a respectful, caring and culturally appropriate manner." In addition the YMCA of Honolulu is committed to promoting values. Specifically they focus on five core values (PRIDE) — Performance excellence; Respect and recognition; Integrity; Dedication; and Equality and education.

The KPHC provides comprehensive primary health care comprising of the following services:

1) Behavioral Health
2) Dental Care
3) Health Care for the Homeless
4) Health Education
5) Language Access
6) Medical Care
7) Nutrition
8) Optometry
9) Pharmacy
10) Social Services, and
11) Women, Infant, and Children (WIC)

Potential Impacts and Mitigation Measures

The proposed development of the KPHC will strengthen the Kalihi-Palama Health Center's ability to carry out the mission of their mission. The long-term result will enhance the social fabric and well-being of the community and contribute to an educated, healthy, and responsible citizenry with the abilities to positively contribute to Hawai'i's social and economic well-being.

On September 18, 2013, a presentation was made to the Kalihi-Palama Neighborhood Board No.15, and based on the official Neighborhood Board meeting minutes (Appendix D), it appears KPHC answered all questions raised by the Neighborhood Board members to the satisfaction of the questioners. No action was proposed to support the project, but that may have been likely because quorum was not established with seven members absent.

4.2.9 Visual Impacts

The project site fronts North King Street in Kalihi. North King Street north of Dillingham Boulevard is mostly fronted by low-rise (maximum four story) buildings. While many lots along North King Street have been redeveloped (predominately low-rise), there are still many historical buildings remaining that could be considered landmarks, including the adjoining St. Elizabeth's Episcopal Church and the former New Palama (later Zamboanga)Theater across North King Street. The existing buildings across Pua Lane from the project start with a large, open service station and three-story apartments. Opposite the site on Kanoa Street are a parking lot and three-story apartments. Since the makai portion of the site was used as a parking lot, long views are possible towards the Koʻolau Mountain range ridgeline (Figure 3). The larger building on the project site is in a poor and vandalized condition and presents an unattractive appearance when viewed from both Pua Lane and Kanoa Street.

Potential Impacts and Mitigation Measures

Figure 8 provides an image of the proposed redevelopment of the site, including a new building over the existing parking lot (Makai Phase) and the proposed renovation of the existing larger building (Mauka Phase). The proposed development of the Makai Phase will obstruct currently-available street-level views towards the Koʻolau Mountain range ridgeline. The redevelopment of the site, however, will replace views towards an aging large building, with a new facility.

4.2.10 Traffic and Circulation

During the Draft EA public review period, the Department of Transportation Services requested a Traffic Impact Assessment Report. A Transportation Assessment was completed by Fehr & Peers to satisfy this request (Appendix H). The Transportation Assessment addresses the following: assessment of existing transportation facilities, the proposed project's traffic generation, and potential key circulation issues and impacts.

The proposed consolidated Kalihi-Palama Health Center site can be accessed from King Street and Pua Lane.

Bus usage among residents in this area is especially high, and the Executive Director of KPHC estimates that more than half of the patients and staff take TheBus. This project involves the consolidation of sites in three locations in Kalihi-Palama (888 North King Street, 915 North King Street, and 952 North King Street) to one, and will reduce the need for Clients to visit more than one location for services. While the existing locations are within close proximity to each other, the proposed site at the signalized North King Street/Pua Lane intersection is proximate to bus stops that allow for safer (signalized) pedestrian access. These existing trips are also on the existing street network. The Transportation Assessment estimates are conservative based on new generation as opposed to the consolidation of existing strips. In addition, the project site is located near (within walking proximity) many lower-rental apartments, where likely many of KPHC's current clients reside. The project is located in an area where walking and transit are the primary travel modes for many residents.

The current service area of the Kalihi-Palama Health Center is the Kalihi-Palama area and is well served by bus routes. It is within walking distance of the surrounding residential areas (predominately low-income rental housing) and the following bus routes: A, C, 1, 1L, 2, 2L, 3, 9, 11, 13, 40, 42, 43, 52, 53, 54, 62, 81, 83, 84, 84A, 88A, 90, 91, 92, 93, 96, 97, and 98. There are bus stops nearby, with the one for west-bounds immediately in front of the project site. Additionally, the project area has notably high pedestrian activity; all nearby roads, except Kanoa Lane, are serviced with sidewalks on both sides.

The proposed project is located on one corner of a T-intersection (North King Street and Pua Lane) that is already signalized to control vehicular traffic. All three legs of the intersection include painted crosswalks that are controlled with pedestrian control signals. In addition, both North King Street and Pua Lane in this vicinity are improved with sidewalks. The project's sidewalk fronting North King Street includes a bus stop for buses heading westward (towards the Ewa direction).

King Street fronting the Kalihi-Palama Health Center property is a four lane through street, with a posted speed limit of 25 miles per hour; Pua Lane fronting the other entrance to KPHC is two lanes, runs mauka-makai, with a posted speed limit of 20 miles per hour. Pua lane has an additional two

lanes of parking on either side of the traffic lanes and connects between King Street and Vineyard Boulevard. Kanoa Street borders one edge of the site, and Kukui Street which is on the other side of Pua Lane from the site off Pua Lane, between Vineyard and King.

North King Street is a major arterial on the makai side of the project site that extends in an ewa-Diamond Head direction from Middle Street to Kapiolani Boulevard. Within the project area, North King Street is an undivided four-lane arterial with a posted speed limit of 25 miles per hour (mph). North King Street is bordered by a wide variety of community-oriented facilities including churches, schools, supermarkets, restaurants, and specialty services. It serves heavy traffic volumes during both AM and PM peak periods. The sidewalks on North King Street, immediately adjacent to the project site, does not meet ADA requirements, as a signal control box is located directly in the middle of the sidewalk and creates an obstacle for pedestrians and people with disabilities as they walk around it. Currently, there are no bicycle facilities provided in the immediate vicinity of the site.

Pua Lane fronting the project site is a two-way, two-lane collector road with a posted speed limit of 20 miles per hour that runs mauka-makai and connecting North King Street with Vineyard Boulevard (and dead-ending mauka of Vineyard Boulevard). In the segment between North King Street and Vineyard Boulevard, Pua Lane is fully improved with sidewalks, grassed planting strips and curbs and gutters.

Kanoa Street fronting the project site is a two-way, two-lane collector road with a posted speed limit of 20 miles per hour that runs parallel to North King Street and connecting Pua Lane with Peterson Lane. The entire length Kanoa Street does not contain sidewalks, grassed planting strips nor curbs and gutters.

Palama Street is a mauka-makai two-lane local street that connects North King Street to Vineyard Boulevard. Palama Street has a posted speed limit of 25 miles per hour (mph) and parallel parking is provided on the Diamond Head side of the street where cars park on the unpaved shoulder. At the North King Street/Palama Street intersection, vehicle queues build up on Palama Street in the AM peak hour. It typically requires two signal cycles for the queue to clear the intersection.

Potential Impacts and Mitigation Measures

The proposed project is estimated to generate a total of 772 daily trips, with 48 AM peak hour trips and 71 PM peak hour vehicle trips, based on standard trip generation rates. These volumes do not take into account potential reductions in trip generation based on a consolidation of existing trips between the multiple facilities, that the proposed facility is located near residential areas of existing clients, and that these communities primarily rely on transit or walking as opposed to person vehicles. It is anticipated that more than half of project trips will be by transit, currently serviced by surrounding bus routes and anticipated to be serviced by the future rail (the Iwilei Station is proposed to be within a 1,600 foot walk of the project site). As a result, the project will result in negligible change to traffic operations on North King Street, Pua Lane, and Kanoa Street in terms of traffic operations, corridor flow, and safety.

The proposed redevelopment of the site will not change vehicular access points into the site from North King Street and Pua Lane, as the existing driveways will be maintained. While a maximum of 24 patients will be seen each hour, only 12 parking stalls will be provided on site. The described project is just the first phase of a multi-phase project. In the ultimate configuration, the covered parking area on the ground floor will eventually be converted to additional office space and exam

rooms, and all off-street parking required for the KPHC will eventually occur on the adjoining property owned by St. Elizabeth's Episcopal Church (the same landowner of the proposed project site). The St. Elizabeth's Episcopal Church parking lot is generally underutilized during KPHC's operating hours except during church services or funerals. Currently there is an agreement with the church for 40 parking stalls that are shared during weekdays and Saturdays. The parking arrangement will enable full compliance with LUO off-street parking requirements.

While the interim parking for the proposed KPHC project will utilize existing driveways onto Pua Lane and King Street, at the City and County of Honolulu Department of Transportation Services' recommendation, the project's under building parking lot will include one-way traffic flow with the entrance on Pua Lane and the exit on King Street. In order to do so, the entrance from Pua Lane should be reduced from a two lane driveway to a single lane of traffic flow. Further, to ensure that this occurs, signage will be installed in the appropriate locations within the parking "structure" and on the exterior of the building. In the event that all on-site stalls are occupied, clients will be directed via signage to park in the St. Elizabeth's parking lot. Appropriate signage should be installed at both driveways that direct clients to available parking at the church parking lot. Sufficient capacity is available on Pua Lane, Kanoa Street, and the section of North King Street adjacent to the project site to serve the project traffic that is entering, exiting, or potentially circulating to the additional parking at the church. The church parking lot has existing ingress/egress points from both North King Street and Kanoa Street, and is relatively unused during the weekdays and Saturdays.

The recommendations from the traffic engineer, Fehr & Peers, to address existing deficiencies include: installing appropriate signage at driveways to inform visitors of overflow parking at the church; remove three on-street parking stalls along Pua Lane/Kanoa Street to increase visibility; and include an ADA compliant ramp at the ewa-makai corner of North King Street and Pua Lane.

Additional suggested project improvements include: providing secure, on site, bike storage facilities; create a separate pedestrian path on Kanoa Street to address existing deficiency (project responsible only for project frontage portion); and restripe the Pua Lane/Kanoa Street crosswalk.

During the Draft EA public review period, the Police Department provided the following recommendations to minimize impact to vehicular and pedestrian traffic during construction:

> *"…the contractor hire adequate personnel to provide traffic control. Additionally, we recommend that all necessary signs, lights, barricades, cones, and other safety equipment be installed and maintained by the contractor to facilitate the flow of motor vehicle and pedestrian traffic in the area during construction. Further, the moving of heavy equipment or construction-related supplies should be conducted during nonpeak traffic hours."*

During the Draft EA public review period, the Department of Facility Maintenance provided the following recommendations:

> *"Consider replacing the asphaltic concrete sidewalk along the Kanoa Street side of the project with a Standard City Concrete Sidewalk. This will minimize maintenance of the sidewalk area and aesthetically match the concrete sidewalk areas along the Pua Lane and King Street sides of the project."*

During the Draft EA public review period, the Traffic Review Branch (TRB) requested that the project increase the curb radii at the Pua Lane intersections at North King Street and Konoa Lane from 25 feet and 15 feet, respectively, to 30 feet. Fehr & Peers noted that increasing curb radii is typically done to accommodate larger vehicle types, or to increase vehicle capacity at an intersection. The project team noted that this intersection did not unreasonably cause traffic delays, and that undertaking the curb radii increase could result in skewing the cross-walk; increasing vehicle speeds during turns, and increase the exposure of pedestrians to vehicle traffic. Fehr & Peers noted that increasing the curb radii could negatively impact pedestrian safety.

4.2.11 Infrastructure

4.2.11.1 Water System

The Board of Water Supply owns and maintains the water system that services the Kalihi region, including the property and the previous commercial tenants. The proposed facilities of the KPHC will be served from this system. Presently, the combined three KPHC facilities in Kalihi use a total of approximately 1,800 gallons per day. This amounts to an average per person daily demand of 10 gallons for each client and staff.

Potential Impacts and Mitigation Measures

As three KPHC facilities in Kalihi are being consolidated to the project site, a significant increase in staff is not expected (10 additional full-time equivalent positions). As with current conditions, not all clients will use the KPHC facilities each day and not all staff will be full-time. Based on an average of 220 clients and 40 staff at the site per day, and an estimated demand of 10 gallons per day per person, future clients and staff will generate a demand of approximately 2,600 gallons of water per day.

All water system improvements will be designed in accordance with the Water System Standards and Approved Materials List and Standard Details for Water System Construction of the Board of Water Supply. It is assumed that there is adequate supply of water for the project but it is acknowledged that the availability of water will be confirmed when the Building Permit applications are submitted to the Board of Water Supply (BWS) for review and approval. During the Pre-Consultation and the Draft EA Public Comment processes, the City and County of Honolulu Board of Water Supply wrote that based upon current data, the "existing water system is adequate to accommodate the proposed health center." However, it is acknowledged that the Board of Water Supply reserves the right to change any position or information up until the final approval of the building permit application.

When water is made available, the KPHC will be required to pay the BWS' Water System Facilities Charges for resource development, transmission, and daily storage. Further, the proposed improvements are subject to BWS' Cross-Connection Control and Backflow Prevention requirements before the issuance of the Building Permit Applications.

The proposed new building does not require automatic fire sprinkler system based on size of building and construction type (2006 IBC as amended). There is an existing fire hydrant in front of the project site on North King Street, near the intersection of Pua Lane. On-site fire protection requirements will be coordinated with the Fire Prevention Bureau of the Fire Department.

4.2.11.2 Wastewater Facilities

The existing wastewater system in the area is owned and maintained by the City and County of Honolulu. The proposed facilities of the KPHC will be served from this system. Presently, the combined three KPHC facilities in Kalihi generate approximately 1,800 gallons of wastewater per day. This amounts to an average per person daily generation rate of 10 gallons for each client and staff.

Potential Impacts and Mitigation Measures

Wastewater generated from the proposed KPHC improvements will be transmitted to the City and County of Honolulu sewer system.

As previously mentioned, a small increase in staff and an increase in clients present (220) at any given time is expected. As with current conditions, not all clients will use the KPHC facilities each day and not all staff will be full-time. Based on a full-time equivalent population of 260 clients and staff at the site per day, and an estimated amount of wastewater of 10 gallons per person per day, future clients and staff will generate approximately 2,600 gallons of wastewater per day.

The proposed wastewater system improvements will be designed and constructed in accordance with Department of Environmental Services Design Standards and will require their review and final approval. The existing off-site wastewater collection is presently adequate to accommodate the estimated demand associated with the project.

All wastewater plans will conform to the applicable provisions of the State Department of Health's Administrative Rules, Chapter 11-62, "Wastewater Systems." During the Pre-Consultation process, the State Department of Health, Wastewater Branch wrote that it has no comments to offer at this time as the project will be connected to the City and County of Honolulu's sewer system.

4.2.11.3 Drainage

The KPHC site is outside of any flood boundaries (see section 4.1.12), is not a shoreline property, and lies entirely outside of the coastal flood zone attributable to either high wave action or tsunami (Figure 16). During the Draft EA public comment period, the State Department of Land and Natural Resources Engineering Division wrote:

> *We confirm that the project site, according to the Flood Insurance Rate Map (FIRM), is located in Zone X. The National Flood Insurance Program (NFIP) does not regulate developments within Zone X.*

Potential Impacts and Mitigation Measures

During the Pre-Consultation process, the City and County of Honolulu Department of Facilities Management wrote that (1) once construction commences the project should install approved Best Management Practices fronting all drainage facilities; and, (2) during construction and upon completion, any damages/deficiencies to King Street, Pua Lane, and Kanoa Street right-of-ways shall be corrected to City Standards and accepted by the City. Because the existing site is already covered with impervious surfaces (buildings or parking), the proposed improvements are not expected to significantly alter the current overall drainage patterns of or volumes from the site.

Due to the location of the site, the proposed KPHC improvements are not expected to either affect or be affected by natural flood hazards. The improvements will be designed to comply with all federal, state, and county laws regarding drainage, erosion control, and non-point source pollution. During the construction phases, any possible impact to water quality will be minimized and mitigated by the implementation of appropriate erosion control requirements. Long term strategies in accordance with Hawaii Watershed Guidance, Section 5.3B include maintaining post-development peak runoff rate and average volume at levels that are similar to predevelopment levels; limit increases of impervious areas; and limiting disturbance of natural drainage features and vegetation. The site does not currently have vegetation, and consists of impervious surfaces made up of a parking lot and building structure. As such, soil run off and erosion will likely be minimal, and the runoff is not likely to increase.

4.2.11.4 Electrical and Communication Facilities

Primary electrical, telephone, and cable television service for the Kalihi area is provided by Hawaiian Electric Company (HECO), Verizon, and Oceanic Cable.

Potential Impacts and Mitigation Measures

Present electrical, telephone, and cable television capacities are expected to be adequate to support the proposed improvements. During the Pre-Consultation process, HECO wrote that it has no objections to the project. However, HECO noted that if there are any existing easements and facilities on the property, access for maintenance to the facilities will need to be continued. HECO also requested that as the Kalihi-Palama Health Center redevelopment comes to fruition, it will need to be updated. Further along in the design, HECO will be better able to evaluate the effects on HECO's system facilities.

4.2.11.5 Solid Waste Disposal

On Oahu, residential and commercial wastes are hauled to landfills, the incinerator, or transfer stations. A waste-to-energy combustor, H-POWER (Honolulu Program of Waste Energy Recovery) located at the Campbell Industrial Park incinerates about 1,800 tons of combustible waste per day. The electricity generated is bought by Hawaiian Electric Company. Currently, the H-POWER facility receives all residential and commercial packer truck wastes on the island.

The Waimanalo Gulch Landfill, which opened in 1989, is the City's primary solid waste disposal facility and is 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.

Potential Impacts and Mitigation Measures

The proposed KPHC improvements do not involve the disposal of hazardous materials nor the siting of sanitary landfills or closing of open dumps.

The proposed improvements will comply with the State Department of Health and the City and County of Honolulu Department of Facility Maintenance requirements to ensure that all aspects of

the project conform to the program goals and objectives of the Integrated Solid Waste Management Act, Chapter 342G, Hawaii Revised Statues, and the County's approved integrated solid waste management plans in accordance with a schedule and time frame satisfactory to the Department of Health.

Solid waste generated at the Site during construction will increase over current conditions. Waste is expected to include materials from renovation and demolition, construction, and grading activities. Therefore low impact development and construction practices are expected to be implemented in an effort to divert materials that can be reused or recycled away from the landfill as well as minimize the amount of waste generated. Every effort will be made to reduce the waste generated during the construction phase and when possible materials and structures will be reused and or recycled.

In the long-term solid waste generation is not expected to increase because there will be no substantive change in enrollment. A centralized dumpster and recyclable collection area will be provided to consolidate waste management activities. Solid waste generated during the operation of the project will be collected by a private collection service and disposed of by the City and County of Honolulu, Department of Environmental Services, Refuse Division.

4.3 FLORA

Existing Conditions

The natural environment in the vicinity of the Site has been altered by historical urban purposes, road construction, building construction, and the introduction and spread of non-native plant species. There is no existing vegetation within the Site, other than weeds, as active uses of the Site has ceased and the site is not being maintained. As such, there are no plant species currently listed or proposed for listing under either the Federal or State of Hawaiʻi endangered species statutes and the project is in compliance with existing standards.

Potential Impacts and Mitigation Measures

The KPHC project will not impact any Federal or State of Hawaiʻi listed Threatened, Endangered, or Candidate plant species, as none were detected on the Site. Therefore, no mitigation measures are needed.

4.4 FAUNA

Existing Conditions

The natural environment in the vicinity of the Site has been altered by historical urban purposes, road construction, and building construction. No Federal or State of Hawaiʻi listed Threatened, Endangered, or Candidate wildlife species were detected during a site visit.

Other wildlife species, such as mammals and insects, were not observed during but are expected. Many species are very small and hidden making observation difficult. Other species are nocturnal and/or may use the area infrequently depending upon season, weather, interaction with other species, and dynamic changes in their populations. Feral species typically found in urban settings would be expected, including rats and cats.

Potential Impacts and Mitigation Measures

The KPHC development is not expected to significantly affect any Federal or State of Hawai'i listed Threatened, Endangered, or Candidate wildlife species, therefore no mitigation measures are needed.

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5.

Alternatives

5. ALTERNATIVES

This section identifies and evaluates a range of alternatives that could meet the purpose and need and possibly avoid, reduce, or minimize adverse environmental effects. The reference point to compare alternatives is the "no action" alternative.

In compliance with the provisions of Title 11, Department of Health, Chapter 200, Environmental Impact Statement Rules, Section 11-200-17(f), *the "known feasible" alternatives to the proposed project are limited to those that would allow the objectives of the project to be met, while minimizing potential adverse environmental impacts.* As such, the proposed development of the Kalihi-Palama Health Center have been evaluated in terms of the following.

5.1 NO ACTION ALTERNATIVE

The no action alternative will not accomplish the objective of providing a facility that would allow for consolidated health services in the Kalihi-Palama community.

With the "no action" alternative, no new facilities would be built and there would be no increase in energy demand and no increase in impervious surface area that could impact storm water quality or quantity. However, the need for facility improvements and environmental compliance would not be met, therefore this alternative has been rejected.

5.2 ALTERNATIVE SITES

Other sites on O'ahu were evaluated but would result in further distance from the communities being served. A feasibility study was completed for a parcel at the corner of King Street and Hikina Lane, the lot directly across Hikina Lane from KPHC's existing building at 915 King Street. The result of the study was that the small footprint of the parking lot made parking difficult and costly and minimized the floor plate for KPHC's medical operations.

The current location was selected so that KPHC could serve its clients within reasonable walking and driving (and bus) distance from the nearby communities of Kalihi and Kapālama.

5.3 ALTERNATE SITE PLAN LAYOUTS

Several site plan layouts were developed for the Consolidated KPHC Facilities before the preferred alternative was selected. An initial site plan from 2010 called for parking on the ground floor of the existing site, which would require the removal of the existing structure on the lot. Two stories would be built above the parking at ground level for this option. A second option developed in 2010 would incorporate parking on the ground level, and up through the 3rd floor at the existing building location, with the addition of 7 floors for medical facilities above parking. The third alternative proposed in 2011 called for redeveloping the existing structure into an automated parking garage and developing a new three story structure over the current parking lot.

All three of these site layouts would require demolition of the existing non-conforming structure and a transformation of the entire site, and therefore were removed from further consideration. The existing structure is built up to the property line and therefore, non-compliant with current building setback requirements. Demolition of the existing non-conforming structure would require compliance with the current setbacks. In effect, this would decrease the available floor plate below the minimum area needed for an efficient medical facility to function. Further, to demolish the existing structure and rebuild a replacement structure would be cost prohibitive.

5.4 PREFERRED ALTERNATIVE

Improving and expanding KPHC services at the proposed Site is the preferred and most suitable alternative because:

- The existing building will be renovated, as opposed to demolished, and the new structure will be built over the existing parking lot. As a sustainable measure, this is beneficial in the way of repurposing an existing building shell.
- There will be no significant increase in impervious surface and runoff since the site already contains a building and a paved parking lot.
- The KPHC began leasing the property from the Episcopal Church in February 2014, and land in the Primary Urban Center can be difficult to find.
- It is consistent with community desires and existing community resources as expressed in a public presentation with the Kalihi-Palama Neighborhood Board No. 15 (Appendix D).

6.

Anticipated Determination, Findings, and Reasons for Supporting the Determination

6. DETERMINATION, FINDINGS, AND REASONS FOR SUPPORTING THE DETERMINATION

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 Approving Authority (City and County of Honolulu Department Community Services) will issue a finding of no significant impact (FONSI) as summarized in this section.

6.1 SIGNIFICANCE CRITERIA

According to the Department of Health Rules (11-200-12), an applicant or agency must determine whether an action may have a significant impact on the environment, including all phases of the project, its expected consequences both primary and secondary, its cumulative impact with other projects and its short and long-term effects. In making the determination, the Rules establish "Significance Criteria" to be used as a basis for identifying whether significant environmental impacts will occur. According to the Rules, an action shall be determined to have a significant impact on the environment if it meets any one of the following criteria:

(1) Involves an irrevocable commitment to loss or destruction of any natural or cultural resources;

The site has already been extensively modified (since the 1950's for a commercial building and parking lot). No areas defined as "wetlands" were found to be located within the Kalihi-Palama Health Center site and no endangered plant or animal species exist on the property.

No significant archaeological resources are expected to be found in the area. If, however, archaeological resources are discovered, work will cease and the State Historic Preservation Division will be contacted to assess the significance of the find and to recommend appropriate mitigation measures.

Therefore, based on the above, there will be no irrevocable commitment to loss or destruction of any natural or cultural resources.

(2) Curtails the range of beneficial uses of the environment;

Since the site has already been extensively modified since the 1950's, the actual "natural environment" that may have been associated with the project site has already been curtailed by many years of urban activity. Further, the site is in the State Urban district and is zoned "Business Mixed Use- Commercial" (BMX-3) by the City and County of Honolulu. 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. Thus the proposed use as the Kalihi-Palama Health Center is consistent with designated State and County land use designations and will not curtail the range of beneficial uses of the environment. Further, the proposed development will address and enhance the current health and social needs in the area and thus could be determined to be the best use of the property given the demands of area residents.

(3) Conflicts with the State's long-term environmental policies or goals and guidelines as expressed in Chapter 344, HRS; and any revisions thereof and amendments thereto, court decisions, or executive orders;

The proposed improvements are consistent with the Environmental Policies established in Chapter 344, HRS and the National Environmental Policy Act. The Environmental Policies enumerated in Chapter 344, HRS, promote conservation of natural resources, and an enhanced quality of life for all citizens. The Project is not expected to significantly impact any natural resources and is expected to enhance the quality of life of for families within the Kalihi-Palama community by improving the available health and social services.

(4) Substantially affects the economic or social welfare of the community or state;

The proposed Kalihi-Palama Health Center consolidated development will continue to significantly contribute to the economic and social welfare of area residents (and marginalized residents elsewhere on O'ahu) by providing a range of health services. As such, it is expected that the Kalihi-Palama Health Center will have a positive effect on the community.

(5) Substantially affects public health;

Impacts to public health may be temporarily affected by air, noise, and water quality impacts during construction, however, these will be of a short-term duration, and insignificant, especially when weighed against the positive, long-term public health benefits associated with the Kalihi-Palama Health Center.

(6) Involves substantial secondary impacts, such as population changes or effects on public facilities;

The proposed consolidation of the Kalihi-Palama Health Center is not expected to involve negative secondary impacts. Planned and established land use patterns within Kalihi will not be negatively or significantly altered and unplanned population changes are not expected as a result of the project. Positive secondary effects are expected in the form of increased positive health and social impacts within Kalihi and throughout the service area of the Kalihi-Palama Health Center, lessening the demand on public facilities and services.

(7) Involves a substantial degradation of environmental quality;

The proposed development of the Kalihi-Palama Health Center will not involve a substantial degradation of environmental quality on-site or in the surrounding area. As previously stated, the site has already been extensively modified since the 1950's. As such, the actual "natural environment" that may have been associated with the project site has already been curtailed by previous uses and by many years of urban activity. The development will be designed to comply with all federal, state, and county laws regarding drainage, erosion control, and non-point source pollution. There are no anticipated impacts that would degrade environmental quality.

(8) Is individually limited but cumulatively has considerable effect on the environment, or involves a commitment for larger actions;

The entire Project is not part of a larger project, nor does it commit the State or County to any other larger actions; and will not generate any additional actions having a cumulative effect on the environment. The proposed Kalihi-Palama Health Center development will not have a cumulative

negative effect on the environment. The use of the site for urban uses since the 1950's, is consistent with its proposed use as a community health center. As such, the proposed plans of the Kalihi-Palama Health Center are well thought-out and are not expected to have undesirable cumulative effects.

(9) Substantially affects a rare, threatened or endangered species or its habitat;

No threatened or endangered plant or animal species are known to exist on the subject property. In addition, no wetlands, streams, estuaries or other habitats that could accommodate threatened or endangered plant or animal species are present on the subject property or the surrounding area. There is no existing flora (other than weeds) on the site since it has been paved or built over. Birds and animals common to urban areas, such as pigeons, mynah birds, chickens, rats, mice, and domesticated and feral cats, were sighted or are presumed to exist on the site and neighboring properties.

(10) Detrimentally affects air or water quality or ambient noise levels;

No State or Federal air quality standards will be violated during or after the construction of the Project. The only anticipated issues related to air quality would be during construction; however, construction activities would be temporary. Long-term negative impacts related to air quality are not expected. Long-term air quality impacts of the Kalihi-Palama Health Center are considered to be those associated with everyday use of the project. The most significant long-term emission sources will be motor vehicles, with the most significant tailpipe emission being Carbon Monoxide (CO). As in the rest of Hawai'i, trade winds can be expected to mitigate the majority of emission impacts. Short term potential impacts on air quality (fugitive dust and construction equipment exhaust emissions) may result due to construction activity, however, these impacts will be limited by appropriate construction practices.

The proposed improvements will be designed to comply with all federal, state, and county laws regarding drainage, erosion control, and non-point source pollution, therefore the effect on water quality due to the improvements is expected to be negligible. During the construction phases, any possible impact to water quality will be minimized and mitigated by the implementation of appropriate erosion control requirements.

Short term noise impacts will be generated by construction of the proposed improvements, however these will be mitigated by adherence to the State Department of Health's Administrative Rules, Chapter 11-46, "Community Noise Control" and will be monitored to ensure compliance. Proper mitigating measures (such as limiting construction to daylight hours) also will be employed to minimize construction noise impacts.

Long-term noise impacts may be generated by automobiles entering the site and human activity. These are unavoidable impacts but are not considered to be significant due to: the planned hours of operation (generally business hours); the surrounding land uses (nearby church facilities, gas stations, and commercial usage), previous usage of the site as a retail, beauty services and dining venue, and the greater urban uses in the surrounding Kalihi area.

(11) Affects or is likely to suffer damage by being located in an environmentally sensitive area, such as a flood plain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, freshwater, or coastal waters.

The Kalihi-Palama Health Center is not located in or near an environmentally sensitive area and therefore is not expected to affect or be affected by flood plains, tsunami zones, beaches, erosion-prone areas, geologically hazardous land, estuaries, or freshwater or coastal waters.

(12) Substantially affects scenic vistas and view planes identified in county or state plans or studies;

The Project is located within the Primary Urban Center and is consistent with view plane recommendations identified within the Primary Urban Center Development Plan. The proposed Kalihi-Palama Health Center improvements will not alter established view plains identified in county or state plans or studies.

(13) Requires substantial energy consumption.

The proposed Kalihi-Palama Health Center development will not require substantial energy consumption relative to other similar projects.

6.2 DETERMINATION

On the basis of the above criteria, the discussion of impacts and mitigation measures contained in this document, and the comments received during the pre-consultation (scoping) and public comment processes, the Approving Authority (City and County of Honolulu Department of Community Services) of this environmental assessment has determined that the proposed Consolidated Kalihi-Palama Health Center will not have a significant effect on the environment. Pursuant to Chapter 343, Hawaii Revised Statutes, the Approving Authority will issue a Finding of No Significant Impact (FONSI).

7.

Consultation

7. CONSULTATION

In the course of planning for the KPHC development, a meeting with neighborhood stakeholders and pre-consultation comments were solicited from agencies that may have an interest in the proposed improvements.

7.1 PUBLIC MEETING

On September 18, 2013, a presentation was made to the Kalihi-Palama Neighborhood Board No.15, and based on the official Neighborhood Board meeting minutes (Appendix D), it appears KPHC answered all questions raised by the Neighborhood Board members to the satisfaction of the questioners. No action was proposed to support the project, but that may have been likely because quorum was not established with seven members absent.

7.2 PRE-CONSULTATION

Pre-consultation was conducted prior to preparation of the Draft EA. The purpose of the pre-consultation period 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 scoping process for the Draft EA. Comments and input received during this period are used to identify environmental issues and concerns that were addressed in the Draft EA, which in turn will undergo a 30-day public comment period.

As part of the early consultation process, the following agencies and organizations were sent pre-consultation letters. The agencies or organizations that provided written comments are highlighted with **bold text**. Copies of the written comments and responses are reproduced in Appendix B.

State of Hawai‘i

- **Department of Accounting and General Services**
- Department of Business, Economic Development & Tourism (DBEDT)
- **DBEDT – Office of Planning**
- **Department of Defense**
- **Department of Education – Planning Section**
- **Department of Health (DOH)- Wastewater Branch**
- **DOH - Environmental Planning Office**
- Department of Hawaiian Home Lands
- **Department of Land and Natural Resources (DLNR)**
- **DLNR – State Historic Preservation Division**
- DLNR – State Parks Division
- **Office of Hawaiian Affairs**
- UH Environmental Center

Federal

- **U.S. Army Corps of Engineers – Regulatory Branch**
- U.S. Fish and Wildlife Service

City & County of Honolulu

- **Board of Water Supply**
- **Department of Community Services**
- **Department of Design and Construction**
- Department of Environmental Services
- **Department of Facility Maintenance**
- **Department of Parks and Recreation**
- Department of Planning and Permitting
- **Department of Transportation Services**
- **Fire Department**
- **Police Department**

Elected Officials

- Senator Suzanne Chun Oakland
- Representative Karl Roads
- City Councilmember Joey Manahan

Private Organizations & Individuals

- **Hawaiian Electric Company (via email)**

7.3 PUBLIC REVIEW

The Draft EA was published in the OEQC Environmental Notice on August 23, 2014 initiating a 30-day public comment period that was scheduled to end on September 22, 2014. As part of the Draft EA public review process, the following agencies, organizations and individuals were sent copies of the Draft EA. Those that provided written comments (either by hardcopy or email) are highlighted in *italics*. Copies of the written comments and responses are reproduced in Appendix I.

State of Hawai'i

- ***Department of Accounting and General Services***
- Department of Business, Economic Development & Tourism (DBEDT)
- ***DBEDT – Office of Planning***
- Department of Defense
- Department of Education – Planning Section
- ***Department of Health (DOH)- Wastewater Branch***

- DOH - Environmental Planning Office
- Department of Hawaiian Home Lands
- ***Department of Land and Natural Resources (DLNR)***
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- ***Board of Water Supply***
- ***Department of Budget & Fiscal Services***
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- Hawaiian Electric Company

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8.

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Appendix A:

Archaeological Assessment

SCS Project Number 1552-AA-1

AN ARCHAEOLOGICAL ASSESSMENT REPORT FOR 710 NORTH KING STREET, KAPALAMA AHUPUA`A, KONA DISTRICT, ISLAND OF O`AHU, HAWAI`I [TMK: (1) 1-7-031: 052]

Prepared by:
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May 2014
DRAFT

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ABSTRACT

An archaeological study, including limited subsurface testing, was conducted on approximately 6,200 square feet of land at 710 North King Street, Kapalama Ahupua`a, Kona District, Island of O`ahu [TMK: (1) 1-7-031: 052]. The combination of a pedestrian survey and a total of four mechanically excavated trenches within the project area boundaries did not reveal the presence of cultural or historic sites on the ground surface or within subsurface contexts. All four trenches revealed the presence of fill matrices atop alluvial sediment atop coral reef substrate. Isolated pieces of modern debris (loose, broken bricks and ceramic fragments) were observed in the fill material. Although Archaeological Investigation through pedestrian survey and mechanical excavation of the project area did not reveal archaeological sites or deposits, because of the proximity to previously discovered human burials, archaeological monitoring is recommended for future ground disturbance in the project area.

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INTRODUCTION

At the request of Mr. Emmanuel Kintu of the Kalihi Palama Health Center, Scientific Consultant Services (SCS), Inc. performed an Archaeological Assessment on approximately 6,200 square feet of land at 710 North King Street, Kapalama Ahupua`a, Kona District, Island of O`ahu [TMK: (1) 1-7-031: 052] (Figures 1 to 3). Fieldwork was conducted on April 11, 14, and 21, 2014 by SCS archaeologists Guerin Tome, B.A., and Alex Hazlett, Ph.D., under the direction of the Principal Investigator Robert L. Spear, Ph.D.

Archaeological work was performed in order to investigate the presence or absence of archaeological features and subsurface midden deposits, and to assess the function, age, and construction methods of those features or deposits. This archaeological study was conducted in response to a review letter from the State Historic Preservation Division (SHPD) (LOG NO:2014.0533, DOC No:1402GC13), dated March 6, 2014, which indicated that no archaeological studies had been conducted in the project area, and that based on the lack of information that they had "…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." This project was conducted as an Archaeological Inventory Survey; because the results of the survey were negative for archaeological sites, however, the results are being presented in this report as an Archaeological Assessment.

GEOGRAPHIC SETTING

The project area is located at the corner of North King Street and Pua Lane in Honolulu. The study area is bounded by St. Elizabeth's Episcopal Church to the northwest, North King Street to the southwest, Pua Lane to the southeast, and by an existing structure to the northeast (the entire TMK parcel is a built environment; the study area was confined to the parking lot at the southwest end of the block.). The surrounding area is a built environment that includes apartment buildings, churches, gas stations, streets, sidewalks, and utility infrastructure.

The average rainfall in this part of Honolulu is 830 mm (32.6 in.) per year (Giambelluca et al. 2013). Soils within the project area consist of Ewa Silty Clay Loam (EmA), with 0 to 3 percent slopes. In general, the Ewa series consists of well-drained soils in basins and on alluvial fans on the islands of Maui and Oahu. These soils developed in alluvium derived from basic igneous rock. They are nearly level to moderately sloping. On this soil, runoff is very slow and the erosion hazard is no more than slight (Foote et al. 1972:31-2, Map 62).

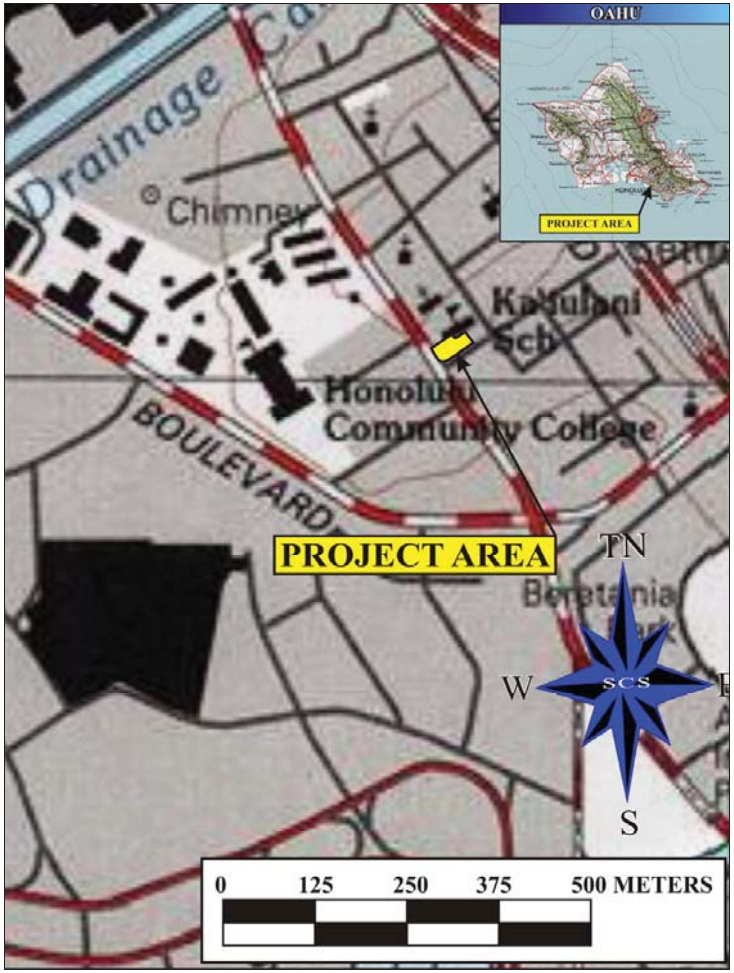

Figure 1: United States Geological Survey (1998) Honolulu Quadrangle Map Showing the Project Area Location.

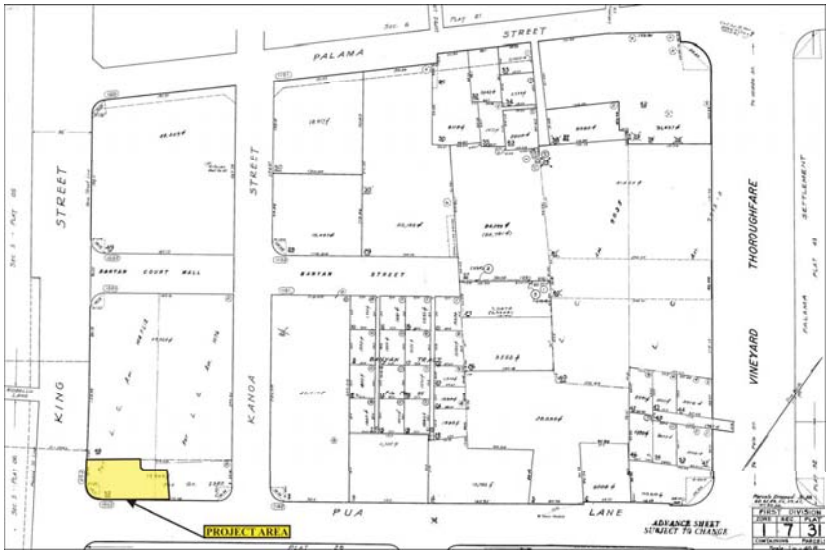

Figure 2: Tax Map Key [TMK] (1) 1-7-031 Showing the Project Area Location.

Figure 3: Aerial Photo (Source: Google Earth) Showing the Project Area Location.

HISTORIC BACKGROUND

The project area lies in the ahupuaʻa of Kapalama, Kona District, Island of Oahu. Kapalama is bounded on the east by Nuuanu and on the west by Kalihi. Pukui et al. translate Kapalama as "the lama wood enclosure" (1974:87).

David Malo, a Native Hawaiian historian, explained the meaning of the name Kapalama:

> Kapalama means, the enclosure of lama, an enclosure made of the sacred wood from the lama tree, surrounded an establishment in which the young alii, chief and chiefess, were kept just before pairing off for offspring. Because the first born child of a high chief and chiefess was considered one of the highest ranking alii of old Hawaii, and in order to secure such an offspring, the selected chief and chiefess were placed under keepers in separate establishments. After religious ceremonies had been performed and the mating accomplished, the chief and chiefess were allowed to leave. Kapalama is said to have obtained its name from just such an establishment which was once located there (Malo, cited in Sterling and Summers 1978:319).

Handy and Handy (1972) described the Kapalama area:

> The next ahupua'a southeast of Kalihi was Kapalama and, like Kalihi, had extensive loʻi from Iwilei at the shore up to the foothills. There were two streams that irrigated these loʻi, evidently originating in springs, since there is no valley mountainward but only a broad hillside on which are now the Kamehameha Schools and the residential section called Alewa Heights. In prediscovery days there was somewhere in the area a stockade and house in which young ali 'i were sequestered before marriage. This was constructed entirely of lama wood, or native ebony. Lama also means light. Kapalama means "The enclosure of lama" (Handy and Handy 1972:475).

The ahupua'a of Kapalama is bordered by the ahupuaʻa of Nu'uanu to the east and Kalihi to the west. The ahupuaʻa is watered by the Kapalama and Niuhelewai Streams. The well-watered plain would have allowed for the development of an extensive loʻi system, and the protected shoreline and fringing reef would have provided productive near-shore fisheries.

After the devastation caused by the conquest of Oahu and an epidemic in 1804, Kamehameha I encouraged the people to replant; the king set aside several large tracts (including tracts in Kapalama) to grow crops for local consumption as well as for trade with visiting ships (Kamakau 1992: 190, 'I'i 1959:69).

The desirability of Kapalama Ahupua'a is evidenced in that Kamehameha kept of himself the ahupuaʻa during the post 1795 division of O'ahu lands (Kame'eleihiwa 1992:59). Kapalama remained with the Kamehameha Dynasty through his grandchildren Moses Kekūāiwa, Victoria Kamamalu and Lot Kamehameha, eventually becoming part of the Bemice Pauahi Bishop Estate.

The ahupua 'a of Kapalama was awarded to Moses Kekūāiwa, son of Kekūanao'a and Kīnaʻu (who had previously been married to Kamehameha I). The lands were passed down to his sister Victoria Kamamalu, then to her brother Lot Kamehameha, to his half-sister Ruth Ke'elikōlani, and finally to her first cousin, Bernice Pauahi Bishop. In her will, Mrs. Bishop placed many of her lands into a trust to provide financial aid to charitable and educational institutions, including the founding of schools to educate Hawaiian children (Mitchell 1993:9).

As late as 1885 much of the ahupuaʻa was utilized for irrigated agriculture (originally growing taro, later many fields were converted to rice paddies). By the turn of the century, however, Kapalama and Kalihi had become suburbs of Honolulu, and the project area and its surroundings were eventually completely developed for commercial and multi-family residential use.

After the original Kaumakapili Church was destroyed in the 1900 fire in Chinatown, a new Kaumakapili Church was established at the corner of Palama Street and North King Street, just west of the current project area (Dunn et al. 1991:10).

In 1929 Consolidated Amusement Co. built a new theatre at 701 N. King Street. The theater was one of five designed by architect Louis Davis and featured a unique Chinese style. It opened as the New Palama Theatre on 19th April 1930. In 1970 Consolidated Amusement leased the theater to operators from the Philippines from 1970-74 who renamed it the Zamboanga after a city in the Philippines and showed Filipino films. After 1974 the theater was converted to commercial space and leased for by a printing company. The front arcade with retail space was enclosed by metal roll-up doors and a new large warehouse entrance was made on the side of the building. The building was later subdivided into two spaces; the rear section continued to serve as commercial space while a church, the Centro Cistiano su Gran Alabanza) took up residence in the front section.

PREVIOUS ARCHAEOLOGY

Only a handful of archaeological studies have been conducted in the vicinity of the project area, and no studies have been conducted in the project area itself.

In 1991, an inadvertent burial discovery was made during the excavation of a trench within a parcel at the corner of North King Street and Robello Lane. Carol Kawachi, a representative of the Department of Land and Natural Resources/State Historic Preservation Office (DLNR-SHPO) inspected the bones and trench and determined that the bones represented three burials, with two of the three still present in the trench walls. Paul H. Rosendahl Inc., (PHRI) (Dunn *et al.* 1991) was retained by the landowner, Chevron Inc., to complete the excavation of skeletal remains from the trench, to monitor all further trench excavations, to place test trenches in selected portions of the property, to conduct historical research on the project area and its vicinity, and to conduct an osteological analysis of all skeletal remains recovered from the project area. A total of four burials were identified in the trench; Burial A, the remains recovered by DLNR-SHPO, plus three burials (Burials 1-3) documented by PHRI. A variety of historic artifacts were collected from the trench excavations, including extremely corroded metal fragments, glass artifacts and fragments, porcelain fragments, ceramic fragments, one concrete fragment, and portions of a plastic and metal rosary. Faunal remains included rat, dog, cattle, and pig remains. Soil stratigraphy was consistent in all of the test trenches; dark red silty clay atop dark reddish brown silty clay loam resting on limestone bedrock. This site was assigned State Inventory of Historic Places (SIHP No. 50-80-14-3373 (Dunn *et al.* 1991:1-3).

In 1994, an inadvertent burial discovery was made during trench excavations for an 8-inch water line along Austin Lane. Elaine Jourdane, a representative of the Department of Land and Natural Resources/State Historic Preservation Department (DLNR-SHPD) inspected the trench and the recovered remains, and recommended the skeletal remains be disinterred from the trench (Jourdane 1994). Cultural Surveys Hawaii, Inc. (CSH) (Hammatt 1995) disinterred the burial and associated artifacts, and at the request of SHPD, published legal notices seeking relatives of the landowners with knowledge of the burial, analyzed of the artifacts to determine the date of burial, and conducted research to determine land ownership of the project area at the time of burial. This burial was discovered in an extended position in a well-defined burial pit, with the remains of a coffin, clothing, and shoes. Metal nails associated with a coffin placed its likely date of construction to a span from 1830 to 1890, while fabric-covered buttons suggested a burial date from the second half of the nineteenth century (Hammatt 1995:10).

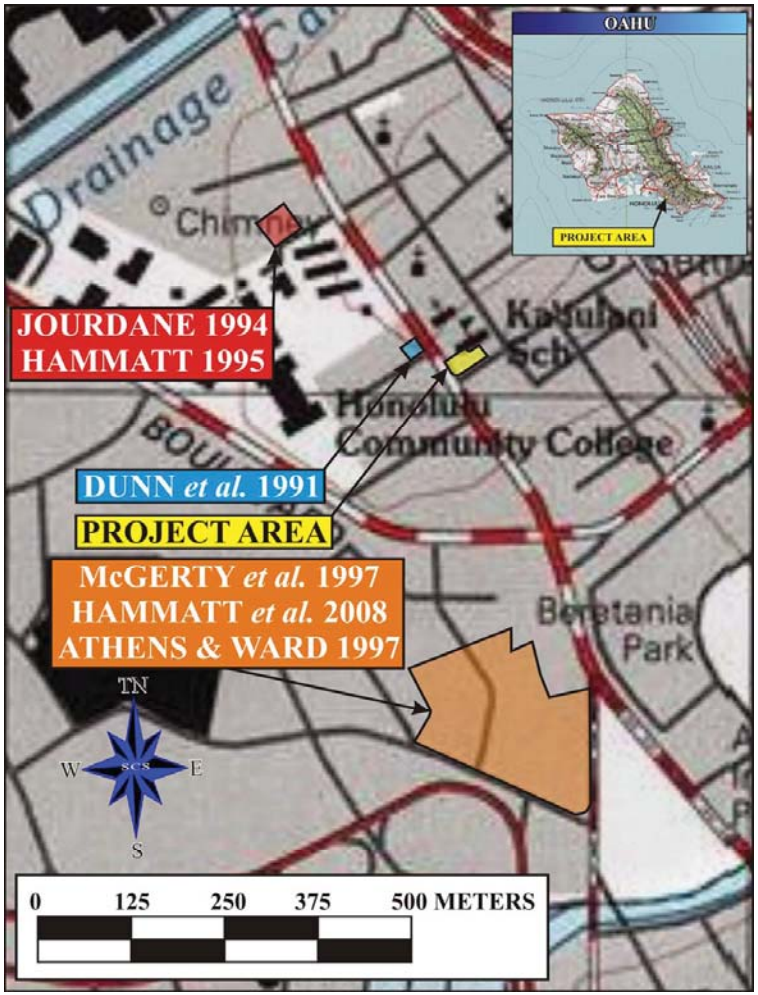

Figure 4: : United States Geological Survey (1998) Honolulu Quadrangle Map Showing Previous Archaeological Studies in the Vicinity of the Project Area.

Historic research revealed that a cemetery associated with Kaumakapili Church was located on Austin Lane from the 1870s until some time between 1921 and 1944. Based on the presence of a previously-existing cemetery in the area, the position of the burial and the associated artifacts, the burial was most likely interred in the cemetery between the 1870s and 1921 (Hammatt 1995:20).

Three archaeological studies have been conducted at the former Kūwili Fishpond, approximately 400 m south of the current project area. In 1995, Athens and Ward conducted a Paleoenvironmental Study on the grounds of the Oahu Railroad and Land Company's terminal. Sediment cores revealed fishpond deposits beneath historic and modern fill; based on these cores they proposed that the fishpond was constructed between A.D. 1461-1643 and abandoned in the early historic period (Athens and Ward 1997).

McGerty *et al.* (1997) conducted backhoe trenching to investigate architectural features of Kūwili Fishpond; soil cores from their excavations indicated that the fishpond might have been constructed as early as A.D. 1100 and remained in use until the 20th Century.

In 2006 Cultural Surveys Hawaii, Inc., conducted data recovery fieldwork at Kūwili Fishpond, excavating three trenches to expose the original pre-fishpond lagoonal sediments, the fishpond sediments, and the post-Contact fill layers, in order to determine the initial construction date and period of use of the fishpond. Based on analysis of samples from the excavation a construction date of A.D. 1020-1120 was most likely, in line with McGerty *et al.*'s findings. Pollen analysis indicated that the local environment remained relatively consistent prior to and during the lifespan of the fishpond (showing little sign of the effects of Hawaiian settlement, agriculture, or inland expansion, other than the presence of the fishpond itself) (Hammatt *et al.* 2008).

EXPECTED FINDINGS

Based on the excavations at the corner of North King Street and Robello Lane (Dunn *et al.* 1991), and at Austin Lane (Hammatt 1995), the most likely findings in the current project area included historic artifacts and faunal bone, with the potential for human burials as well.

METHODOLOGY

Archival work was conducted at the SHPD library (Kapolei), the SHPD website, and at the Scientific Consultant Services, Inc.(SCS) library (Honolulu office). SCS archaeologists Guerin Tome, B.A., and Alex Hazlett, Ph.D., conducted the pedestrian survey on April 11 and 14, 2014, and Alex Hazlett, Ph.D., conducted the subsurface testing on April 21, 2014, under the direction of Principal Investigator Robert L. Spear, Ph.D.

FIELD METHODOLOGY

Multiple field tasks were completed during the field survey. First, a general pedestrian survey was conducted in order to identify archaeological sites and assess the project area's geographical features. Second, four (4) mechanically excavated stratigraphic trenches (ST) were strategically placed for adequate sampling within the project area. These stratigraphic trenches were utilized to locate subsurface archaeological deposits. These stratigraphic trenches were placed on a photographic plan view image showing the sampled horizontal area within the project area confines. Soil stratigraphy encountered during excavation was documented utilizing metric graph paper and United States Department of Agriculture (USDA) *Munsell Soil Color Charts* (2000). All measurements were recorded in metric with centimeters below surface. No soil samples were collected since no subsurface archaeological cultural materials were found.

LABORATORY METHODOLOGY

All field notes, digital photographs, and collected archaeological materials (including those materials suspected of being archaeological in nature) were curated at the SCS laboratory in Honolulu. All stratigraphic profiles have been drafted for presentation within this report as Appendix B. Plan view sketches showing location and morphology of identified subsurface strata were illustrated. No archaeological cultural materials were found on the ground surface or within subsurface contexts.

FIELDWORK RESULTS

The current archaeological investigation of Tax Map Key (1) 1-7-031:052 did not identify any archaeological sites or artifacts through pedestrian survey or excavation, but isolated pieces of modern debris (loose, broken bricks and ceramic fragments) were observed in the fill material in all four trenches. Four (4) mechanically excavated stratigraphic trenches were strategically placed to obtain a representative sample excavation area (Figure 8) while avoiding buried utilities.

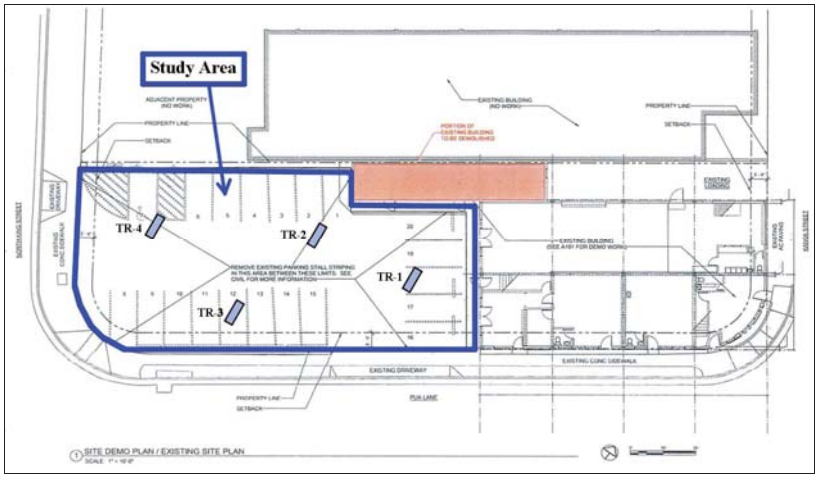

Figure 5. Plan View Map of Trench Locations Within the Project Area.

Between five to seven strata were exposed during excavations within the project area. All four trenches revealed the presence of fill matrices atop alluvial sediment atop coral reef substrate. This was similar to the stratigraphy documented by Dunn *et al*. (1991) and Hammatt (1995).

TRENCH 1 (TR-1)

Trench 1 (TR-1) (0.76 m wide by 2.13 m long and 1.38 m deep) was placed at the center of the northeast side of the parking lot (see Figure 5). Trench 1 contained six stratigraphic layers which are described below; in this trench cultural material was limited to non-diagnostic fragments of iron and green bottle glass identified in layer IV (Figure 6, Figure 7).

Layer I

Layer I (0 to 7 cmbs) consisted of asphalt pavement.

Layer II

Layer II (7 to 13 cmbs) consisted of semi-loose red (2.5YR 4/6, dry) gravel base course. The lower boundary was solid and distinct, which suggests that Layer I was a fill layer. Layer II was culturally sterile.

Layer III

Layer III (13 to 34 cmbs) consisted of semi-loose dark brown (7.5YR 3/2, dry) clay. The lower boundary was solid and distinct, which suggests that Layer III was a fill layer. Layer III was culturally sterile.

Layer IV

Layer IV (34 to 73 cmbs) consisted of very dark greyish brown (10YR 3/2, dry) silty clay loam with a few iron and green bottle glass fragments. The lower boundary was solid and distinct, which suggests that Layer IV was a fill layer.

Layer V

Layer V (73 to 108-124 cmbs) consisted of very dark greyish brown (10YR 3/2, dry) clay. Layer V was interpreted as a natural stratum. Layer V was culturally sterile.

Layer VI

Layer VI (108-124 to 138 cmbs) consisted of pale yellow (2.5 Y 8/2, dry) coral. Layer VI was interpreted as a natural stratum. Layer VI was culturally sterile. Excavation was halted at 138 cmbs once it became clear that this layer was bedrock rather than coral fill.

Figure 6: Photo of East Sidewall of Trench 1.

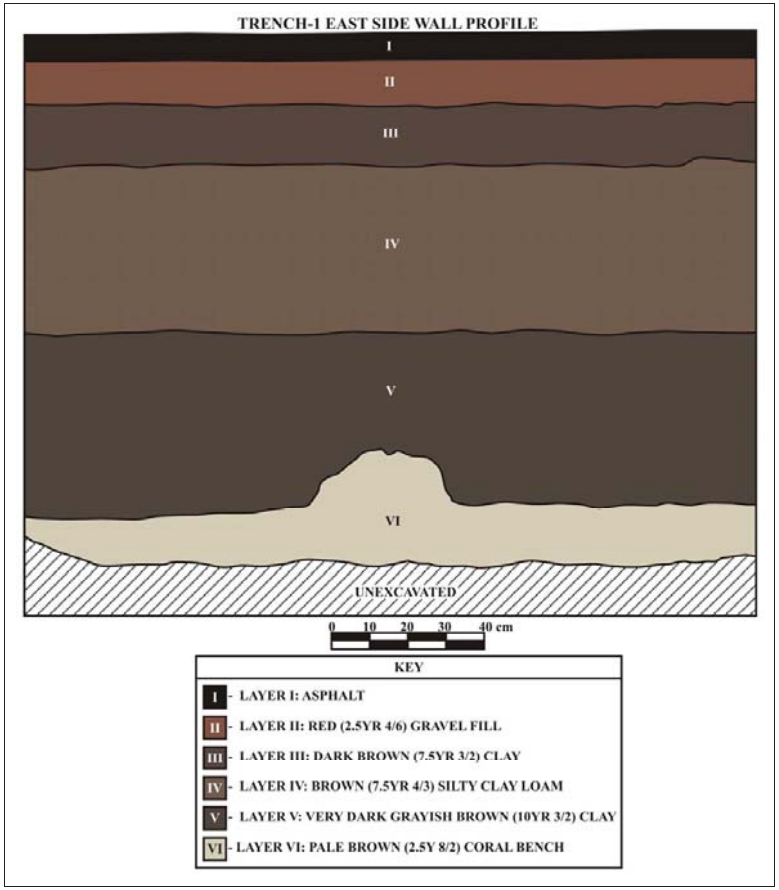

Figure 7: Profile Drawing Showing Stratigraphy in Trench 1, Viewed to East.

TRENCH 2 (TR-2)

Trench 2 (TR-2) (0.76 m wide by 2.13 m long and 1.17 m deep) was placed on the northwest side of the parking lot approximately 9 m west of TR-1 (see Figure 5). Trench 2 contained five stratigraphic layers which are described below; in this trench cultural material was limited to loose red bricks and brick fragments identified in layer III (Figure 8, Figure 9).

Layer I

Layer I (0 to 7 cmbs) consisted of asphalt pavement.

Layer II

Layer II (7 to 24 cmbs) consisted of semi-loose red (2.5YR 4/6, dry) gravel base course. The lower boundary was solid and distinct, which suggests that Layer I was a fill layer. Layer II was culturally sterile.

Layer III

Layer III (24 to 72 cmbs) consisted of semi-loose brown (7.5YR 4/3, dry) silty clay with loose bricks and brick fragments. The lower boundary was solid and distinct, which suggests that Layer III was a fill layer.

Layer IV

Layer IV (72 to 105 cmbs) consisted of very dark greyish brown (2.5Y 3/2, dry) clay. Layer IV was interpreted as a natural stratum. Layer IV was culturally sterile.

Layer V

Layer V (105-124 to 117 cmbs) consisted of pale yellow (2.5 Y 8/2, dry) coral. Layer V was interpreted as a natural stratum. Layer V was culturally sterile. Excavation was halted at 117 cmbs once it became clear that this layer was bedrock rather than coral fill.

TRENCH 3 (TR-3)

Trench 3 (TR-3) (0.76 m wide by 2.13 m long and 1.40 m deep) was placed on the southeast side of the parking lot approximately 9 m south of TR-2 (see Figure 5). Trench 3 contained five stratigraphic layers which are described below; in this trench cultural material was limited to three blue/white ceramic fragments recovered from the excavated spoils (because the sediment in the excavator bucket included sediments from both Layers III and IV, the original location of the ceramic could not be determined) (Figure 10, Figure 11, Figure 12).

Layer I

Layer I (0 to 7 cmbs) consisted of asphalt pavement.

Figure 8: Photo of West Sidewall of Trench 2.

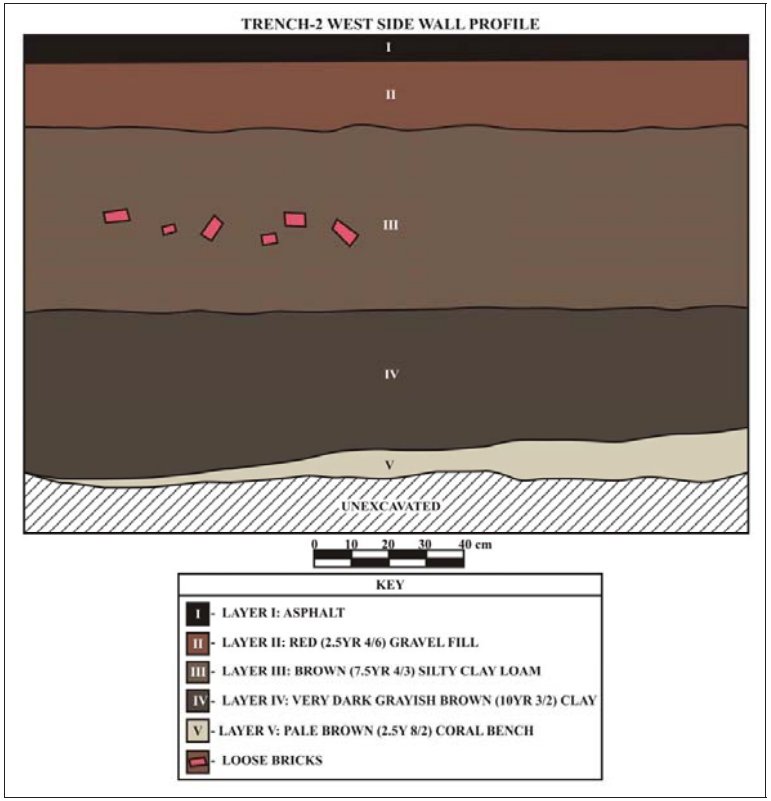

Figure 9: Profile Drawing Showing Stratigraphy in Trench 2, Viewed to West.

Figure 10: Photo of West Sidewall of Trench 3.

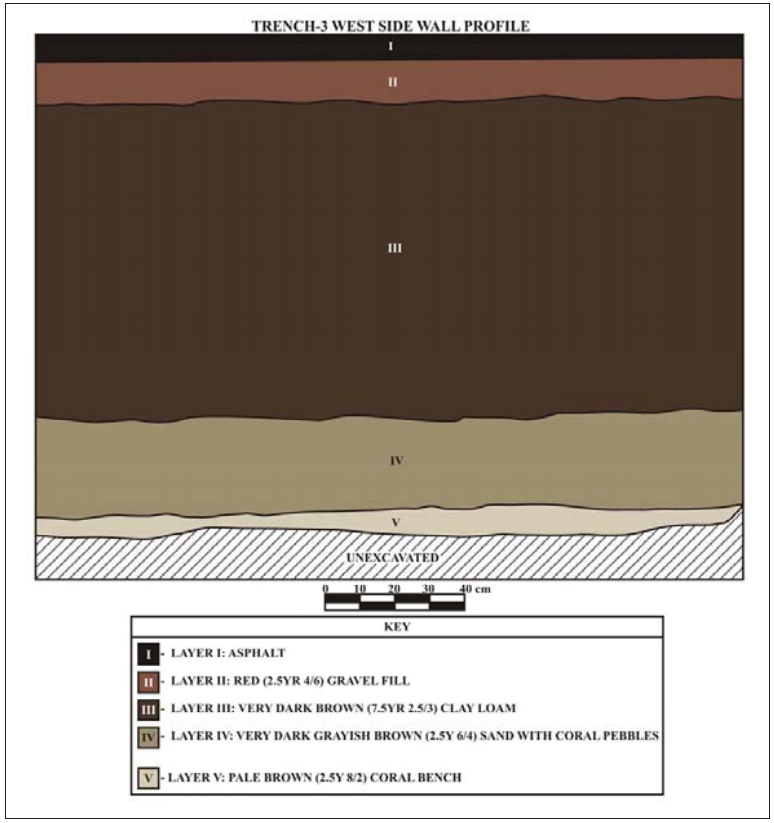

Figure 11: Profile Drawing Showing Stratigraphy in Trench 3, Viewed to West.

Layer II

Layer II (7 to 19 cmbs) consisted of semi-loose red (2.5YR 4/6, dry) gravel base course. The lower boundary was solid and distinct, which suggests that Layer I was a fill layer. Layer II was culturally sterile.

Layer III

Layer III (19 to 107 cmbs) consisted of semi-loose very dark brown (7.5YR 3/2, dry) clay loam. The lower boundary was solid and distinct, which suggests that Layer III was a fill layer.

Layer IV

Layer IV (107 to 135 cmbs) consisted of light yellowish brown (2.5Y 4/6, dry) sand with coral pebble inclusions. Layer IV was interpreted as a natural stratum.

Layer V

Layer V (135 to 140 cmbs) consisted of pale yellow (2.5 Y 8/2, dry) coral. Layer V was interpreted as a natural stratum. Excavation was halted at 140 cmbs once it became clear that this layer was bedrock rather than coral fill.

CERAMIC ARTIFACTS FROM TRENCH 3

Three isolated blue and white ceramic sherds were recovered from the spoils of Trench 3 (Figure 12). Because they were identified after being excavated, it was impossible to determine their layer of origin. Based on pattern, shape, and thickness, these three sherds came from three separate vessels. No other ceramic sherds were identified in the trench or in the spoils.

Figure 12: Photo of Blue and White Ceramic Fragments Recovered From Trench 3 Spoils.

TRENCH 4 (TR-4)

Trench 4 (TR-4) (0.76 m wide by 2.13 m long and 1.38 m deep) was placed at the center of the northeast side of the parking lot (see Figure 5). Trench 4 contained seven stratigraphic layers which are described below; in this trench cultural material was limited to small non-diagnostic fragments of glass and loose tan bricks and brick fragments identified in layer III and red bricks and brick fragments identified in layer V (Figure 13, Figure 14).

Layer I

Layer I (0 to 9 cmbs) consisted of asphalt pavement.

Layer II

Layer II (9 to 18 cmbs) consisted of semi-loose red (2.5YR 4/6, dry) gravel base course. The lower boundary was solid and distinct, which suggests that Layer I was a fill layer. Layer II was culturally sterile.

Layer III

Layer III (18 to 36 cmbs) consisted of loose very dark greyish brown (10YR 3/2, dry) silt loam with crushed coral inclusions. The lower boundary was solid and distinct, which suggests that Layer III was a fill layer. Layer III contained small non-diagnostic glass fragments and loose tan bricks and brick fragments.

Layer IV

Layer IV (36 to 50 cmbs) consisted of very dark grey (7.5YR 3/1, dry) clay loam. The lower boundary was solid and distinct, which suggests that Layer IV was a fill layer. Layer IV was culturally sterile.

Layer V

Layer V (50 to 60 cmbs) consisted of pale yellow (2.5Y 8/2, dry) sand. The lower boundary was solid and distinct, which suggests that Layer V was a fill layer. Layer V contained loose red bricks and brick fragments.

Layer VI

Layer VI (60 to 107-125 cmbs) consisted of dark brown (7.5YR 3/4, dry) clay. Layer VI was interpreted as a natural stratum. Layer VI was culturally sterile.

Layer VII

Layer VII (107-125 to 107-130 cmbs) consisted of pale yellow (2.5 Y 8/2, dry) coral. Layer VII was interpreted as a natural stratum. Layer VII was culturally sterile. Excavation was halted at 130 cmbs once it became clear that this layer was bedrock rather than coral fill.

Figure 13: Photo of East Sidewall of Trench 4.

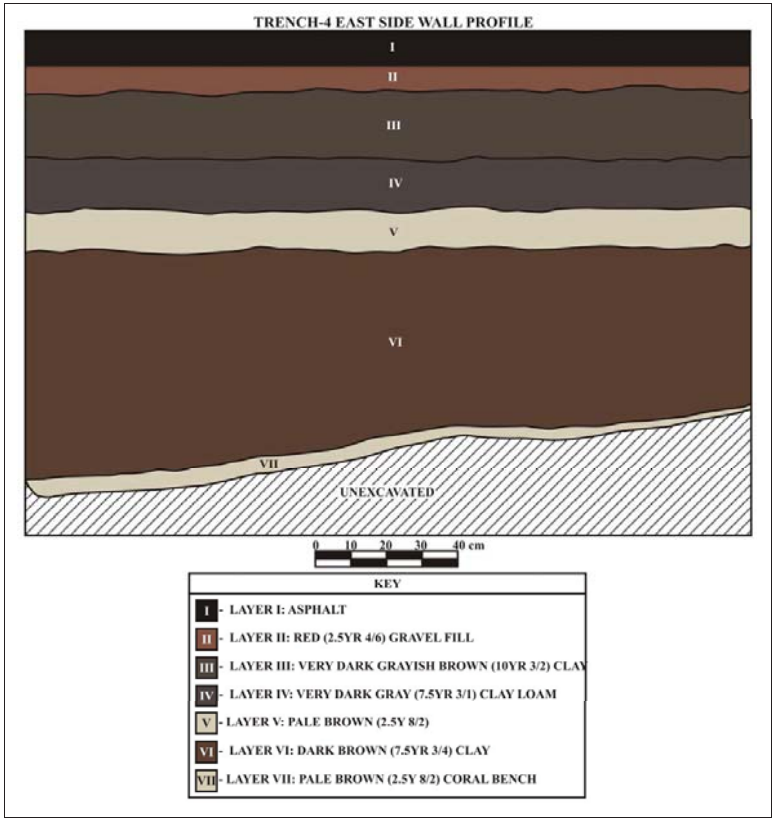

Figure 14: Profile Drawing Showing Stratigraphy in Trench 4, Viewed to East.

DISCUSSION AND CONCLUSION

At the request of DLNR/SHPD, an archaeological study, including pedestrian survey and limited subsurface testing, was conducted on approximately 6,200 square feet of land at 710 North King Street, Kapalama Ahupua`a, Kona District, Island of O`ahu [TMK: (1) 1-7-031: 052]. The combination of a pedestrian survey and a total of four mechanically excavated trenches within the project area boundaries did not reveal the presence of cultural or historic sites on the ground surface or within subsurface contexts. All four trenches revealed the presence of fill matrices atop alluvial sediment atop coral reef substrate, which matched the stratigraphy described in previous excavations nearby by Dunn *et al.* (1991) and Hammatt (1995). Isolated pieces of modern debris (loose, broken bricks and ceramic fragments) were observed in the fill material, but no subsurface features were identified in any of the trenches.

RECOMMENDATIONS

Although Archaeological Investigation through pedestrian survey and mechanical excavation of the project area did not reveal archaeological sites or deposits, because of the proximity to previously discovered human burials, archaeological monitoring is recommended for future ground disturbance in the project area.

Figure 15: Photo of East Sidewall of Trench 4.

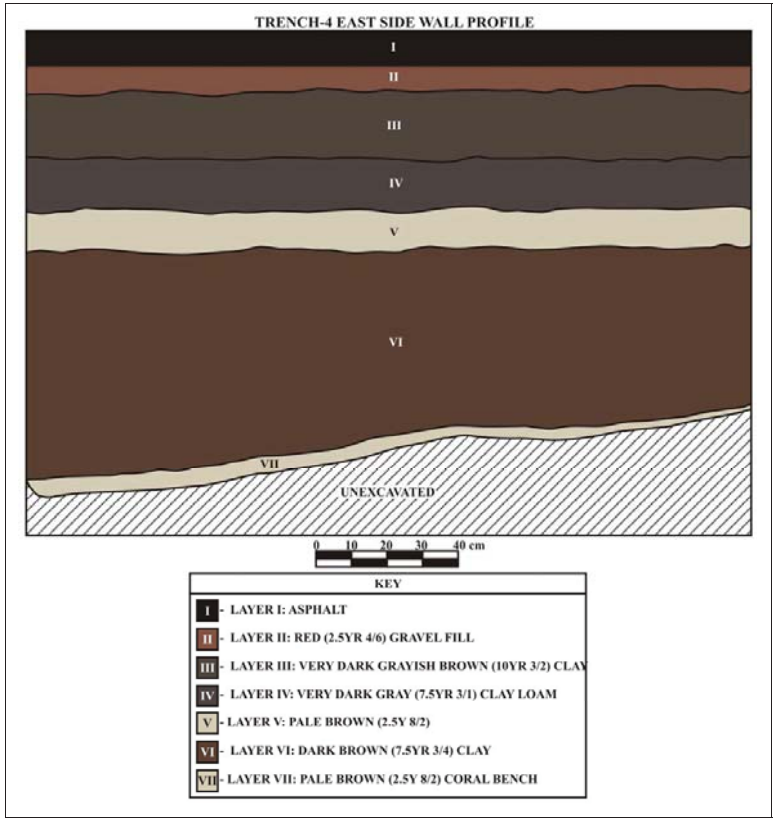

Figure 16: Profile Drawing Showing Stratigraphy in Trench 4, Viewed to East.

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Appendix B:

Comments on DEA Pre-Consultation and Responses

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JESSE K. SOUKI
DIRECTOR
OFFICE OF PLANNING

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Web: http:/planning.hawaii.gov/

Ref. No. P-14284

February 14, 2014

Mr. Vincent Shigekuni, Vice President
PBR HAWAII & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813-3484

Dear Mr. Shigekuni:

Subject: Pre-Consultation – Draft Environmental Assessment, Kalihi-Palama Health Center, TMK: (1) 1-7-031:052

Thank you for the opportunity to provide comments on the Kalihi-Palama Health Center site improvements, Honolulu, Oahu. We have reviewed the documents submitted by letter dated February 3, 2014, and have the following comments to offer:

1. The entire state is defined to be within the Coastal Zone Management Area, see Hawaii Revised Statutes (HRS) § 205A-1 (definition of "coastal zone management area"). The Draft Environmental Assessment (Draft EA) should include a discussion of the proposed project's ability to meet the objectives and policies set forth in HRS § 205A-2.

2. During the construction phase and once the center is operational, there is a possibility that nonpoint pollution may be generated and may have an impact on coastal waters. Please review the Hawaii Watershed Guidance, which provides a summary and links to management measures that may be implemented to minimize coastal nonpoint pollution impact. Specifically, please review Section 5.3 B – Urban Runoff on page 120. Section 5.3 lists management measures that address polluted runoff concerns generated from various types of urban activities. The Hawaii Watershed Guidance can be viewed or downloaded from the Office of Planning website at http://files.hawaii.gov/dbedt/op/czm/initiative/nonpoint/HIWatershedGuidance Final.pdf.

3. For potential impacts to water resources from stormwater and inundation concerns, please consider utilizing the Office of Planning's Stormwater Impact Assessment to incorporate into the environmental review process. Specifically, please examine Stormwater Design & Mitigation on page 11 and Low-Impact Development Concepts/Stormwater Control Measures on pages 15-16 of the Stormwater Impact Assessment. The Appendices include a list of Data Resources, Best Management Practice Techniques and a Reviewers Checklist. The Stormwater Impact Assessment guidance document can be found at http://files.hawaii.gov/dbedt/op/czm/initiative/stomwater_imapct/final_stormwater_impact_assessments_guidance.pdf.

4. The Draft EA should include the Coastal Zone Management Act, HRS Chapter 205A, in a list of "relationship to land use plans, policies, and controls."

If you have any questions regarding this comment letter, please contact Josh Hekekia of our Hawaii CZM Program at 587-2845.

Sincerely,

Jesse K. Souki
Director

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February 26, 2014

Jesse K. Souki, Director
State of Hawai'i
Office of Planning
P.O. Box 2359
Honolulu, Hawai'i 96804

Attn: Mr. Josh Hekekia

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Mr. Souki:

Thank you for your letter (your reference number P-14284) dated February 14, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we want to thank you for your comments.

We appreciate your participation in the environmental review process, and your input that 1) the Draft EA should include a discussion of the proposed project's ability to meet the objectives and policies set forth in Chapter 205A-2; 2) the Hawaii Watershed Guidance, Section 5.3B- Urban Runoff section should be consulted to address non-point runoff impact; 3) the Stormwater Impact Assessment document be reviewed to determine stormwater design and mitigation, and Low Impact Development concepts; and 4) the DEA should include the Coastal Zone Management Act, HRS Chapter 205A, in a list of 'relationship to land use plans, policies, and controls. Your letter will be included in the Draft Environmental Assessment (EA). We will send you a copy of the Draft EA when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

NEIL ABERCROMBIE
GOVERNOR

MAJOR GENERAL DARRYLL D. M. WONG
DIRECTOR OF CIVIL DEFENSE

DOUG MAYNE
VICE DIRECTOR OF CIVIL DEFENSE

STATE OF HAWAII
DEPARTMENT OF DEFENSE
OFFICE OF THE DIRECTOR OF CIVIL DEFENSE
3949 DIAMOND HEAD ROAD
HONOLULU, HAWAII 96816-4495

PHONE (808) 733-4300
FAX (808) 733-4287

February 12, 2014

Mr. Vincent Shigekuni
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

Dear Mr. Shigekuni:

Pre-Consultation for Environmental Assessment
Kalihi-Palama Health Center – TMK 1-7-031:052

Thank you for the opportunity to comment on this proposed development.

We strongly recommend incorporation of Hazard Mitigation measures such as hardening of the proposed facility against hurricanes and high winds.

We defer to the appropriate state and federal agencies regarding the cultural, historical, and archeological elements of the property.

If you have any questions, please contact Mr. Ian Duncan, State Hazard Mitigation Officer, at 733-4300, extension 555.

Sincerely,

Doug Mayne
Vice Director of Civil Defense

c: HIENG

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& ASSOCIATES, INC.

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February 26, 2014

Doug Mayne, Vice Director
State of Hawai'i
Department of Defense
Office of the Director of Civil Defense
3949 Diamond Head Road
Honolulu, Hawai'i 96816-4495

Attn: Mr. Ian Duncan

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Mr. Mayne:

Thank you for your letter dated February 12, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we want to thank you for your comments.

We appreciate your participation in the environmental review process, and your input that the Department of Defense recommends incorporating hazard mitigation measures, such as hardening of the proposed facility against hurricanes and high winds. Your letter will be included in the Draft Environmental Assessment (EA). As you have requested we will defer to the appropriate state and federal agencies regarding the cultural, historical, and archaeological elements of the property.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

NEIL ABERCROMBIE
GOVERNOR OF HAWAII

GARY L. GILL
ACTING DIRECTOR OF HEALTH

STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. BOX 3378
HONOLULU, HI 96801-3378

In reply, please refer to:
File:

LUD-1 1 7 031 052-ID1587
710 North King Street

February 10, 2014

Mr. Vincent Shigekuni, Vice President
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

Dear Mr. Shigekuni:

Subject: Pre-Consultation for Environmental Assessment
Kalihi-Palama Health Center, 710 North King Street, Honolulu 96819
TMK (1) 1-7-031: 052 12,409 square feet

We appreciate the opportunity to review the above subject project. We have no comments to offer at this time as the project will be connected to the City and County of Honolulu's sewer system.

Should you have any questions, please contact Mr. Mark Tomomitsu of our branch at 586-4294.

Sincerely,

SINA PRUDER, P.E., CHIEF
Wastewater Branch

LM/MST:lmj

c: Ms. Laura McIntyre, DOH-Environmental Planning Office
Mr. George I. Atta, C&C of Honolulu, Dept. of Planning & Permitting 7th Floor

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February 26, 2014

Ms. Sina L. Pruder, P.E., Chief
State of Hawai'i
Department of Health, Wastewater Branch
P.O. Box 3378
Honolulu, Hawai'i 96801-3378

Attn: Mr. Mark Tomomitsu

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Ms. Pruder:

Thank you for your letter (your reference number LUD-117031052-ID1587, 710 North King Street) dated February 10, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we want to thank you for your comments.

We appreciate your participation in the environmental review process, and your input that your Department has no comments to offer at this time as the project will be connected to the City and County of Honolulu's sewer system. Your letter will be included in the Draft Environmental Assessment (EA). We will send you a copy of the Draft EA when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

NEIL ABERCROMBIE
GOVERNOR OF HAWAII

WILLIAM J. AILA, JR.
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

February 24, 2014

PBR HAWAII & Associates, Inc.
Attention: Mr. Vincent Shigekuni
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813-3484

via email: vshigekuni@pbrhawaii.com

Dear Mr. Shigekuni,

SUBJECT: Pre-Consultation for an Environmental Assessment – Kalihi-Palama Health Center – TMK 1-7-031:052

Thank you for the opportunity to review and comment on the subject matter. The Department of Land and Natural Resources' (DLNR) Land Division distributed or made available a copy of your report pertaining to the subject matter to DLNR Divisions for their review and comments.

At this time, enclosed are comments from (1) Land Division – Oahu District; and (2) Engineering Division. No other comments were received as of our suspense date. Should you have any questions, please feel free to call Supervising Land Agent Steve Molmen at 587-0439. Thank you.

Sincerely,

Russell Y. Tsuji
Land Administrator

Enclosure(s)

NEIL ABERCROMBIE
GOVERNOR OF HAWAII

WILLIAM J. AILA, JR.
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

February 6, 2014

MEMORANDUM

TO: **DLNR Agencies:**
__Div. of Aquatic Resources
__Div. of Boating & Ocean Recreation
X Engineering Division
__Div. of Forestry & Wildlife
__Div. of State Parks
X Commission on Water Resource Management
X Office of Conservation & Coastal Lands
X Land Division – Oahu District
X Historic Preservation

FROM: Russell Y. Tsuji, Land Administrator
SUBJECT: Pre-Consultation for an Environmental Assessment – Kalihi-Palama Health Center – TMK 1-7-031:052
LOCATION: Kalihi-Palama, O`ahu; TMK 1-7-031:052
APPLICANT: Kalihi-Palama Health Center by its consultant, PBR Hawaii & Associates, Inc.

Transmitted for your review and comment on the above-referenced document. We would appreciate your comments on this document.

Please submit any comments by February 24, 2014. If no response is received by this date, we will assume your agency has no comments. If you have any questions about this request, please contact Supervising Land Agent Steve Molmen at (808) 587-0439. Thank you.

Attachments

( ) We have no objections.
(✓) We have no comments.
( ) Comments are attached.

Signed: _____
Print Name: _____
Date: 2/7/2014

bl

WQ. 2/6/14

NEIL ABERCROMBIE
GOVERNOR OF HAWAII

WILLIAM J. AILA, JR.
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

'14 FEB 6 PM 2:45 ENGINEERING

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

February 6, 2014

MEMORANDUM

TO: FR

DLNR Agencies:
__Div. of Aquatic Resources
__Div. of Boating & Ocean Recreation
X Engineering Division
__Div. of Forestry & Wildlife
__Div. of State Parks
X Commission on Water Resource Management
X Office of Conservation & Coastal Lands
X Land Division – Oahu District
X Historic Preservation

2014 FEB 20 PM 3:10
DEPT. OF LAND & NATURAL RESOURCES STATE OF HAWAII

RECEIVED LAND DIVISION

TO:

FROM: Russell Y. Tsuji, Land Administrator
SUBJECT: Pre-Consultation for an Environmental Assessment – Kalihi-Palama Health Center – TMK 1-7-031:052
LOCATION: Kalihi-Palama, O`ahu; TMK 1-7-031:052
APPLICANT: Kalihi-Palama Health Center by its consultant, PBR Hawaii & Associates, Inc.

Transmitted for your review and comment on the above-referenced document. We would appreciate your comments on this document.

Please submit any comments by February 24, 2014. If no response is received by this date, we will assume your agency has no comments. If you have any questions about this request, please contact Supervising Land Agent Steve Molmen at (808) 587-0439. Thank you.

Attachments

( ) We have no objections.
( ) We have no comments.
(✓) Comments are attached.

Signed:
Print Name: Carty S. Chang, Chief Engineer
Date: 2/19/14

2/6/14

DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

LD/ Russell Y. Tsuji
REF: Pre-Consultation Letter for an EA – Kalihi-Palama Health Center
Oahu.007

COMMENTS

( ) We confirm that the project site, according to the Flood Insurance Rate Map (FIRM), is located in Flood Zone ___.

(X) Please take note that the project site according to the Flood Insurance Rate Map (FIRM), is located in Zone X. The National Flood Insurance Program (NFIP) does not regulate developments within Zone X.

( ) Please note that the correct Flood Zone Designation for the project site according to the Flood Insurance Rate Map (FIRM) is ___.

( ) Please note that the project must comply with the rules and regulations of the National Flood Insurance Program (NFIP) presented in Title 44 of the Code of Federal Regulations (44CFR), whenever development within a Special Flood Hazard Area is undertaken. If there are any questions, please contact the State NFIP Coordinator, Ms. Carol Tyau-Beam, of the Department of Land and Natural Resources, Engineering Division at (808) 587-0267.

Please be advised that 44CFR indicates the minimum standards set forth by the NFIP. Your Community's local flood ordinance may prove to be more restrictive and thus take precedence over the minimum NFIP standards. If there are questions regarding the local flood ordinances, please contact the applicable County NFIP Coordinators below:

( ) Mr. Mario Siu Li at (808) 768-8098 or Ms. Ardis Shaw-Kim at (808) 768-8296 of the City and County of Honolulu, Department of Planning and Permitting.
( ) Mr. Frank DeMarco at (808) 961-8042 of the County of Hawaii, Department of Public Works.
( ) Mr. Carolyn Cortez at (808) 270-7813 of the County of Maui, Department of Planning.
( ) Mr. Stanford Iwamoto at (808) 241-4884 of the County of Kauai, Department of Public Works.

( ) The applicant should include project water demands and infrastructure required to meet water demands. Please note that the implementation of any State-sponsored projects requiring water service from the Honolulu Board of Water Supply system must first obtain water allocation credits from the Engineering Division before it can receive a building permit and/or water meter.

( ) The applicant should provide the water demands and calculations to the Engineering Division so it can be included in the State Water Projects Plan Update.

( ) Additional Comments: _____

( ) Other: _____

Should you have any questions, please call Mr. Dennis Imada of the Planning Branch at 587-0257.

Signed:
CARTY S. CHANG, CHIEF ENGINEER
Date: 2/19/14

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& ASSOCIATES, INC.

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Associate

SCOTT MURAKAMI, ASLA, LEED®AP
Associate

DACHENG DONG, LEED®AP
Associate

MARC SHIMATSU, ASLA
Associate

MICHAEL SHIBATA, AICP
Associate

CATIE CULLISON, AICP
Associate

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February 26, 2014

Mr. Russell Y. Tsuji, Land Administrator
State of Hawai'i
Department of Land and Natural Resources
Land Division
P.O. Box 621
Honolulu, Hawai'i 96809

Attn: Mr. Steve Molmen, Supervising Land Agent

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Mr. Russell Y. Tsuji:

Thank you for your e-mail on February 24, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we want to thank you for your comments.

We appreciate your participation in the environmental review process and your input that (1) the Land Division- Oahu District, has no comments; and (2) the Engineering Division notes that the site is located in NFIP Zone X and that NFIP does not regulate developments within this zone. Your letter will be included in the Draft Environmental Assessment (EA). We will send you a copy of the Draft EA when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

NEIL ABERCROMBIE
GOVERNOR OF HAWAII

WILLIAM J. AILA, JR.
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

March 10, 2014

PBR HAWAII & Associates, Inc.
Attention: Mr. Vincent Shigekuni
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813-3484

via email: vshigekuni@pbrhawaii.com

Dear Mr. Shigekuni,

SUBJECT: Pre-Consultation for an Environmental Assessment – Kalihi-Palama Health Center – TMK 1-7-031:052

Thank you for the opportunity to review and comment on the subject matter. In addition to the comments dated February 24, 2014 but sent to you on February 25, 2014, enclosed are additional comments from the Historic Preservation Division on the subject matter. Should you have any questions, please feel free to call Supervising Land Agent Steve Molmen at (808) 587-0439. Thank you.

Sincerely,

Russell Y. Tsuji
Land Administrator

Enclosure(s)

NEIL ABERCROMBIE
GOVERNOR OF HAWAII

WILLIAM J. AILA, JR.
CHAIRPERSON
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

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& ASSOCIATES, INC.

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July 28, 2014

Mr. Alan Downer, Administrator
State of Hawai‘i
Department of Land and Natural Resources
Historic Preservation Division
601 Kamokila Boulevard, Suite 555
Kapolei, Hawai‘i 96806

Attn: Ms.Susan A. Lebo, PhD, Oahu Lead Archaeologist

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Mr. Downer:

Thank you for your Division’s letter dated March 6, 2014 (your reference number LOG NO: 2014.00533, DOC NO: 1402GC13) regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we want to thank SHPD for its comments. We concur with SHPD’s assessment that:

> *“Our records indicate the Kalihi-Palama Health Center site is surrounded by a significant amount of architectural historic properties including Mayor Wright Housing, Kamaukapili 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.”*

In response to SHPD’s letter, the Kalihi-Palama Health Center contracted an archaeological investigation (including subsurface testing). The combination of a pedestrian survey and a total of four mechanically excavated trenches within the project area boundaries did not reveal the presence of cultural or historic sites on the ground surface or within subsurface contexts. The Archaeological Assessment was received by SHPD on May 8, 2014 for its review and approval.

Thanks again for your participation in the Environmental Assessment Pre-Consultation process. Your letter will be included in the Draft Environmental Assessment (EA).

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

NEIL ABERCROMBIE
GOVERNOR

KATHRYN S. MATAYOSHI
SUPERINTENDENT

STATE OF HAWAI'I
DEPARTMENT OF EDUCATION
P.O. BOX 2360
HONOLULU, HAWAI'I 96804

OFFICE OF SCHOOL FACILITIES AND SUPPORT SERVICES

February 12, 2014

Mr. Vincent Shigekuni
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

Dear Mr. Shigekuni:

Subject: **Pre-Consultation Comments for an Environmental Assessment-Kalihi-Palama Health Center, Island of Oahu, TMK: (1)7-1-031:052**

The Department of Education (DOE) has reviewed your letter dated February 3, 2014, regarding the proposed new health center in the Honolulu Judicial District, Island of Oahu.

The DOE has no comment regarding this project.

Thank you for the opportunity to provide comments. If you have any questions, please call Edwina China of the Facilities Development Branch at 377-8301.

Respectfully,

Kenneth G. Masden II
Public Works Manager
Planning Section

KGM:jmb

AN AFFIRMATIVE ACTION AND EQUAL OPPORTUNITY EMPLOYER

PBR HAWAII
& ASSOCIATES, INC.

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February 26, 2014

Mr. Kenneth G. Masden II, Public Works Manager
State of Hawai'i
Department of Education, Planning Section
P.O.Box 2360
Honolulu, Hawai'i 96804

Attn: Ms. Edwina China

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Mr. Masden:

Thank you for your letter dated February 12, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we want to thank you for your comments.

We appreciate your participation in the environmental review process, and your input that your Department has no comments to offer at this time. Your letter will be included in the Draft Environmental Assessment (EA). We will send you a copy of the Draft EA when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

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PHONE (808) 594-1888

FAX (808) 594-1865

STATE OF HAWAI'I
OFFICE OF HAWAIIAN AFFAIRS
737 IWILEI ROAD, SUITE 200
HONOLULU, HAWAI'I 96817

HDR14-7054

March 20, 2014

Vincent Shigekuni
Vice President
PBR Hawaii & Associates
1001 Bishop Street, Suite 650
Honolulu, HI 96813-3484

Re: Pre-Consultation for an Environmental Assessment – Kalihi-Palama Health Center – TMK 1-7-031:052

Dear Mr. Vincent Shigekuni:

The Office of Hawaiian Affairs (OHA) is in receipt of your letter received on February 19, 2014 requesting possible point of contacts to be consulted in preparation for the Environmental Assessment.

OHA would like to suggest that the following entities and individuals be contacted:

- Kalihi-Palama Hawaiian Civic Club
  Leimomi Khan
  1288 Kapiolani Blvd. Apt 1905
  Honolulu, HI 96814
  mkhan@hawaiiantel.net
- Kaumakapili Church
  Kahu Richard Kamanu
  kahukamanu@aol.com
- Clyde Namu'o
- Ladd Heleloa

- Dexter Soares
- Cedric Duarte
- Gary Kai
- Denise Santos
- Linda Chock
- Pamai Tenn

We look forward to receiving the Environmental Assessment and participating in the consultation process. Should you have any questions, please contact Jeannin Jeremiah at 594-1790 or by email at jeanninj@oha.org.

'O wau iho nō,

Kamana'opono M. Crabbe, Ph.D.
Ka Pouhana, Chief Executive Officer

KMC:jj

PBR HAWAII
& ASSOCIATES, INC.

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July 28, 2014

Dr. Kamana‘opono M. Crabbe, Ph.D.
Ka Pouhana, Chief Executive Officer
State of Hawai‘i
Office of Hawaiian Affairs
737 Iwilei Road, Suite 200
Honolulu, Hawai‘i 96817

Attn: Ms. Jeannin Jeremiah

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Dr. Crabbe:

Thank you for your letter (your reference number HDR14-7054) dated March 20, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we want to thank you for your comments.

We appreciate your participation in the environmental review process and your suggested list of individuals to be consulted in preparation of the Environmental Assessment. We acknowledge the list of additional entities and individuals which include (1) Kalihi-Palama Hawaiian Civic Club; (2) Kaumakapili Church; (3) Clyde Namu‘o; (4) Ladd Heleloa; (5) Dexter Soares; (6) Cedric Duarte; (7) Gary Kai; (8) Denise Santos; (9) Linda Chock; and (10) Pamai Tenn. While we had already contacted Kahu Richard Kamanu, please be assured that we tried our very best to contact the other individuals and organizations OHA has suggested, but unfortunately we were not able to receive any responses. We can, however, provide the following information. According to Richard Kamanu, Kahu of Kaumakapili Church, the ethnic make-up of the community has changed over the years. In the 1980’s, the Kapälama community consisted mainly of Hawaiian, Sämoan, Filipino and Chinese. Since then, the number of Sämoan community members dropped as more residents from Micronesia began to populate the area. He also mentioned that today more immigrants from mainland China are moving into the Kapälama area. Many Hawaiian families who used to reside in the Kalihi-Palama area have moved to other areas within Honolulu, and to rural areas of O‘ahu. Kahu Richard concurs that it is unlikely that any Hawaiian cultural activities will be impacted by this project.

Your letter will be included in the Draft EA. We will send you a copy of the Draft EA when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

NEIL ABERCROMBIE
GOVERNOR OF HAWAII

DIRECTOR OF HEALTH

STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. BOX 3378
HONOLULU, HI 96801-3378

In reply, please refer to:
File:
[EPO 14-037]
[PC for EA Kalihi-Palama Health Center]

February 24, 2014

Dear Mr. Vincent Shigekuni
Vice President, PBR Hawaii & Associates Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii, 96813

SUBJECT: Pre-Consultation on Draft Environmental Assessment for Kalihi-Palama Health Center

The Department of Health (DOH), Environmental Planning Office (EPO), acknowledges receipt of your letter sent to the Director of Health on 2.3.2014. Thank you for allowing us to review and comment on the letter. EPO recommends that you review the standard comments at: http://health.hawaii.gov/epo/home/landuse-planning-review-program/.
You are required to adhere to all standard comments specifically applicable to this application.

EPO also strongly recommends that you consult with other branches and offices within the Department of Health. The EPO is not sure if this letter was forwarded to all of the appropriate branches, offices, and individuals within DOH that may wish to comment. Secondly, the EPO would encourage you to extend the comment due date, past February 17, 2014. Lastly, please ensure that in future correspondence the name of the new Director of Health is utilized.

EPO suggests that you examine the many sources available on strategies to support the sustainable and healthy design of communities and buildings, including the:

State of Hawaii, Office of Planning: www.planning.hawaii.gov and the new 2013 ORMP;
U.H., School of Ocean and Earth Science and Technology: www.soest.hawaii.edu;
U.S. Health and Human Services: www.hhs.gov/about/sustainability;
U.S. Environmental Protection Agency's sustainability programs: www.epa.gov/sustainability;
U.S. Green Building Council's LEED program: www.usgbc.org/leed; and
International Well Building Standard: http://delosliving.com

We request electronic response confirming receipt of this letter and any other letters you receive from DOH in regards to this project. Please email: epo@doh.hawaii.gov. We anticipate that our letter(s) and your electronic response(s) will be included in the final document. If you have any questions, please contact me at (808) 586-4337 or laura.mcintyre@doh.hawaii.gov

Mahalo,

Laura Leialoha Phillips McIntyre, AICP
Program Manager, Environmental Planning Office

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July 28, 2014

Ms. Laura Leialoha Phillips McIntyre, Manager
State of Hawai'i
Department of Health
Environmental Planning Office
P.O. Box 3378
Honolulu, Hawai'i 96801-3378

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Ms. McIntyre:

Thank you for your email on February 24, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center (KPHC), we want to acknowledge receipt of your comments.

We reviewed the Environmental Planning Office's (EPO) standard comments relating to Environmental Health programs. We understand that all standard comments specifically applicable to KPHC must be adhered to. The organization of this letter follows the list of standard comments on your website.

Clean Air Branch
We acknowledge that there is a significant potential for fugitive dust emissions during all phases of construction and operations. The Draft EA will address construction-related impacts related to fugitive dust. All construction activities will comply with the provisions of Section 11-60.1-33, Hawaii Administrative Rules (HAR) related to Fugitive Dust. Adequate measures to control dust during various phases of construction will be required to be implemented by whatever contractor is employed by KPHC to effect the project's development.

Clean Water Branch
We reviewed and understand the standard comments provided by the Clean Water Branch (CWB).

1. **Potential Impacts to State Waters.** The Draft EA identifies the type and class of State waters off the coast of Honolulu (including Kalihi-Palama) as "A". Any potential impacts to these waters caused by the construction and/or operation of the proposed project will meet the provisions of the: a) anti-degradation policy (Chapter 11-54-1.1, HAR); b) designated uses (Chapter 11-54-3, HAR); and c) water quality criteria (Chapter 11.54-4 through 11-54-8, HAR). However, direct discharges of storm water runoff into marine waters are not expected to occur due to the project's distance to the coast.

2. **National Pollutant Discharge Elimination System permit coverage.** Although not expected, if soil disturbance exceeds one acre in area, a National Pollutant Discharge Elimination System (NPDES) permit for Storm Water Associated with Construction Activity will be necessary.

3. **Clean Water Act.** Pursuant to the "Clean Water Act," a Section 401 Water Quality Certification from the State Department of Health, Clean Water Branch will be obtained if it is determined that the project may result in any discharge into navigable waters or as otherwise triggered.

4. **State Water Quality Standards (Chapter 11-54 and 11-55, HAR).** All discharges related to the construction and operation of the proposed project will comply with the State's Water Quality requirements contained in Chapters 11-54 and 11-55, HAR.

Hazard Evaluation and Emergency Response Office
We understand that the Hazard Evaluation and Emergency Response (HEER) Office provides leadership, support, and partnership in preventing, planning for, responding to, and enforcing environmental laws relating to releases or threats of releases of hazardous substances. We do not expect hazardous substances, pollutants, or contaminants to be present at the project site. However, if any of these are found at the project site, HEER will be contacted to determine the appropriate actions to comply with the relevant environmental laws.

Noise, Radiation, & Indoor Air Quality Branch
The KPHC project activities will comply with the following Hawaii Administrative Rules:
- Chapter 11-39 Air conditioning and Ventilation
- Chapter 11-45 Radiation Control
- Chapter 11-46 Community Noise Control

In addition, the KPHC operations will comply with HAR Chapters 11-501 through 11-504 regarding asbestos.

Safe Drinking Water Branch
We note that the Safe Drinking Water Branch administers programs to protect drinking water sources from contamination.

1. **Public Water System.** A public water system will not be developed as part of the proposed project. Potable water will be supplied by the City and County of Honolulu Board of Water Supply, which draws water from a series of groundwater wells and shafts.

2. **Underground Injection Control.** Wastewater generated by the consolidated KPHC facility will be collected by the County wastewater system.

Solid and Hazardous Waste Branch
Solid waste that cannot be recycled will be disposed of at either landfills, the incinerator, or transfer stations. A waste-to-energy combustor, H-POWER (Honolulu Program of Waste Energy Recovery) located at the Campbell Industrial Park incinerates about 1,800 tons of combustible waste per day. The electricity generated is bought by Hawaiian Electric Company. Currently, the H-POWER facility receives all residential and commercial packer truck wastes on the island. Waste contractors will be asked to submit disposal receipts and invoices to ensure proper disposal of waste. The proposed KPHC consolidated facility

will also comply with the provisions of Section 11-260 to 11-280, Hawaii Administrative Rules, relating to hazardous waste.

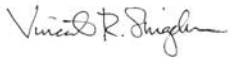
Wastewater Branch
The proposed project will connect to the County wastewater system. Wastewater generated onsite will be collected by the County wastewater system. No cesspool is being proposed.

Sustainable and Healthy Design
We have examined the available resources on strategies to support the sustainable and healthy design of communities and buildings. As such, the following concepts will be incorporated into the development of the proposed project.
- Implement best management practices to reduce pollutant loads (ORMP)
- Incorporate green building specifications into all new construction and major renovation projects (US HHS)
- Develop and deploy operational controls for leak detection including a distribution system audit, leak detection, and repair programs. (US HHS)
- Design, install, and maintain landscape to reduce water use (US HHS).

Thank you for participating in the environmental review process. Your letter will be included in the Draft EA. We will send you a copy of the Draft EA when it is available.

Sincerely,

PBR HAWAII



Vincent Shigekuni
Vice President

NEIL ABERCROMBIE
GOVERNOR

Dean H. Seki
Comptroller

Maria E. Zielinski
Deputy Comptroller

STATE OF HAWAII
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES
P.O. BOX 119, HONOLULU, HAWAII 96810-0119

FEB 11 2014

(P)1060.4

Mr. Vincent Shigekuni, Vice President
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813-3484

Dear Mr. Shigekuni:

Subject: Pre-Consultation for an Environmental Assessment
Kalihi-Palama Health Center
TMK: 1-7-031:052

Thank you for the opportunity to provide comments for the subject project. This project does not impact any of the Department of Accounting and General Services' projects or existing facilities in this area and we have no comments to offer at this time.

If you have any questions, your staff may call Mr. Alva Nakamura of the Public Works Division at 586-0488.

Sincerely,

DEAN H. SEKI
Comptroller

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& ASSOCIATES, INC.

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February 26, 2014

Mr. Dean H. Seki, Comptroller
State of Hawai'i
Department of Accounting and General Services
P.O. Box 119
Honolulu, Hawai'i 96810-0119

Attn: Mr. Alva Nakamura, Public Works Division

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Mr. Seki:

Thank you for your letter (your reference number (P) 1060.4) dated February 11, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we want to thank you for your comments.

We appreciate your participation in the environmental review process, and your input that your Department has no comments to offer at this time, as the project does not impact any of the Department of Accounting and General Services' projects or existing facilities in this area. Your letter will be included in the Draft Environmental Assessment (EA). We will send you a copy of the Draft EA when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

DEPARTMENT OF THE ARMY
HONOLULU DISTRICT, U.S. ARMY CORPS OF ENGINEERS
FORT SHAFTER, HAWAII 96858-5440

February 19, 2014

Regulatory Office

File No. POH-2014-00032

Mr. Vincent Shigekuni
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, HI 96813-3484

NO PERMIT REQUIRED

Dear Mr. Shigekuni:

This letter is in response to your request on behalf of the Kalihi-Palama Health Center, dated February 3, 2015, for on the proposed redevelopment of the property and renovations to existing buildings located at the intersection of King Street and Pua Lane in the City and County of Honolulu, Island of Oahu, Hawaii (TMK: 1-7-031-052). We have reviewed the location and the information provided pursuant to Section 10 of the Rivers and Harbors Act of 1899 (Section 10) and Section 404 of the Clean Water Act (Section 404). We have determined that a Department of the Army (DA) permit is **not** required for the proposed work activities conducted in these areas.

Section 10 requires that a DA permit be obtained for certain structures or work in or affecting navigable waters of the United States (U.S.), prior to conducting the work (33 U.S.C. 403). No navigable waters are located on or near the project site; therefore, we have determined that a Section 10 permit is not required for work on the site. Section 404 requires that a DA permit be obtained for the discharge of dredged and/or fill material into waters of the U.S., including wetlands and tributaries of navigable waters of the U.S, prior to conducting the work (33 U.S.C. 1344). A Section 404 permit is not required for your proposed work because, based on the map provided and review of the location, no work will occur in areas that appear to be waters of the U.S., including wetlands. Although a permit is not required, we recommend use of Best Management Practices to ensure discharges do not inadvertently occur or to prevent fill material and/or construction debris from entering any waters or wetlands.

Thank you for giving us the opportunity to review this proposal and for your cooperation with our regulatory program. Please be advised you can provide comments on your experience with the Honolulu District Regulatory Office by accessing our web-based customer survey form at http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey.

Should you have any questions, please contact Ms. Emilee Stevens at (808) 835-4310, by facsimile at (808) 835-4126, or by Email at emilee.r.stevens2@usace.army.mil. Please refer to File No. POH-2014-00032 in all future communications with this office regarding this or other projects at this location.

Sincerely,

George P. Young, P.E.
Chief, Regulatory Office

PBR HAWAII
& ASSOCIATES, INC.

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February 26, 2014

Mr. George P. Young, P.E., Chief, Regulatory Office
Department of the Army
Honolulu District
U.S. Army Corps of Engineers
Fort Shafter, Hawai'i 96858-5440

Attn: Ms. Emilee Stevens

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Mr. George P. Young:

Thank you for your letter (your reference number POH-2014-00032) dated February 19, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we want to thank you for your comments.

We appreciate your participation in the environmental review process and your input that your Department has determined that, upon review of the location and information provided pursuant to Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act, a Department of the Army (DA) permit is not required for the proposed work activities related to this project. Your letter will be included in the Draft Environmental Assessment (EA). We will send you a copy of the Draft EA when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU
630 SOUTH BERETANIA STREET
HONOLULU, HI 96843

February 27, 2014

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DAVID C. HULIHEE

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GLENN M. OKIMOTO, Ex-Officio

ERNEST Y. W. LAU, P.E.
Manager and Chief Engineer

ELLEN E. KITAMURA, P.E.
Deputy Manager and Chief Engineer

Mr. Vincent Shigekuni, Vice President
PBR Hawaii and Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813-3484

Dear Mr. Shigekuni:

Subject: Your Letter Dated February 3, 2014 Requesting Comments on the Environmental Assessment Pre-Consultation for the Kalihi-Palama Health Center on North King Street – Tax Map Key: 1-7-031: 052

Thank you for the opportunity to comment on the proposed Kalihi-Palama Health Center.

The existing water system is adequate to accommodate the proposed health center. 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.

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 proposed project is subject to BWS Cross-Connection Control and Backflow Prevention requirements prior to the issuance of the Building Permit Applications.

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

Water for Life . . . Ka Wai Ola

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& ASSOCIATES, INC.

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July 28, 2014

Mr. Ernest Y. W. Lau, P.E.
Manager and Chief Engineer
City and County of Honolulu
Board of Water Supply
630 South Beretania Street
Honolulu, Hawai'i 96843

Attn: Mr. Robert Chun

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Mr. Lau:

Thank you for your letter dated February 27, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we want to thank you for your comments.

We appreciate your participation in the environmental review process and your input that, based upon current data, the existing water system is adequate to accommodate the proposed health center. We acknowledge (1) the Board of Water Supply reserves the right to change any position or information stated in your letter up until the final approval of the building permit application; (2) the applicant is required to pay Water System Facilities Charges when water is made available; and (3) the proposed project is subject to BWS Cross-Connection Control and Backflow Prevention requirements prior to the issuance of the Building Permit Applications. Your letter will be included in the Draft Environmental Assessment (EA). We will send you a copy of the Draft EA when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

DEPARTMENT OF COMMUNITY SERVICES
CITY AND COUNTY OF HONOLULU
715 SOUTH KING STREET, SUITE 311 ● HONOLULU, HAWAII 96813 ● AREA CODE 808 ● PHONE: 768-7762 ● FAX: 768-7792

KIRK CALDWELL
MAYOR

PAMELA A. WITTY-OAKLAND
DIRECTOR

GARY K. NAKATA
DEPUTY DIRECTOR

February 11, 2014

Mr. Vincent Shigekuni
Vice President
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

Dear Mr. Shigekuni:

SUBJECT: Environmental Assessment Pre-consultation
Kalihi-Palama Health Center, TMK: 1-7-031:052

We have reviewed your letter dated February 3, 2014, regarding the pre-consultation for an environmental assessment for Kalihi-Palama Health Center, TMK: 1-7-031:052.

This project is currently on the City's list of alternative projects to receive fiscal year 2014 Community Development Block Grant (CDBG) funding from the U.S. Department of Housing and Urban Development (HUD). Should this project move up our alternate list and receive funding, it would need a complete environmental assessment that would meet the requirements of HUD, the National Environmental Policy Act (NEPA), the State of Hawaii Section 343, and the Office of Environmental Quality Control (OEQC).

We are very interested in this project and would appreciate being consulted during the environmental assessment process. Thank you for providing us with the opportunity to comment on this matter. Should you have any questions, please contact Stephen Karel at 768-7753.

Sincerely,

Pamela A. Witty-Oakland
Director

PAW:sgk

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February 26, 2014

Pamela A. Witty-Oakland, Director
City and County of Honolulu
Department of Community Services
715 South King Street, Suite 311
Honolulu, Hawai'i 96813

Attn: Mr. Stephen Karel

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Ms. Witty-Oakland:

Thank you for your letter dated February 11, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we want to thank you for your comments.

We appreciate your participation in the environmental review process, and your input that the project is currently on the City's list of alternative projects to receive fiscal year 2014 CDBG funding from the U.S. Department of Housing and Urban Development (HUD). While this project does not require a complete environmental assessment (EA) until it receives funding, an EA is being prepared that will address HUD, NEPA, HRS Chapter 343, and OEQC requirements. Your letter will be included in the Draft Environmental Assessment (EA). As the Department of Community Services will be the accepting agency, we will send you a copy of the Draft EA when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU
650 SOUTH KING STREET, 11TH FLOOR
HONOLULU, HAWAII 96813
Phone: (808) 768-8480 • Fax: (808) 768-4567
Web site: www.honolulu.gov

KIRK CALDWELL
MAYOR

CHRIS T. TAKASHIGE, P.E., CCM
DIRECTOR

MARK YONAMINE, P.E.
DEPUTY DIRECTOR

February 18, 2014

PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

Attn: Vincent Shigekuni

Dear Mr. Shigekuni:

Subject: Pre-Consultation for an Environmental Assessment – Kalihi-Palama Health Center – TMK 1-7-031:052

The Department of Design and Construction does not have comments to offer on the pre-consultation for the environmental assessment.

Thank you for the opportunity to review and comment. Should there be any questions, please contact me at 768-8480.

Sincerely,

Chris T. Takashige, P.E., CCM
Director

CTT: cf (548574)

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& ASSOCIATES, INC.

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February 26, 2014

Mr. Chris T. Takashige, P.E., CCM, Director
City and County of Honolulu
Department of Design and Construction
650 South King Street, 11th Floor
Honolulu, Hawai'i 96813

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Mr. Takashige:

Thank you for your letter dated February 18, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we want to thank you for your comments.

We appreciate your participation in the environmental review process and your input that your Department has no comments to offer at this time. Your letter will be included in the Draft Environmental Assessment (EA). We will send you a copy of the Draft EA when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

DEPARTMENT OF FACILITY MAINTENANCE
CITY AND COUNTY OF HONOLULU
1000 Ulu'ohia Street, Suite 215, Kapolei, Hawaii 96707
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KIRK CALDWELL
MAYOR

ROSS S. SASAMURA, P.E.
DIRECTOR AND CHIEF ENGINEER

EDUARDO P. MANGLALLAN
DEPUTY DIRECTOR

IN REPLY REFER TO:
DRM 14-109

February 21, 2014

Mr. Vincent Shigekuni, Vice President
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813-3484

Dear Mr. Shigekuni:

Subject: Pre-Consultation for an Environmental Assessment-Kalihi-Palama Health Center, TMK: 1-7-031:052

Thank you for the opportunity to review and give our input regarding the above subject.

Our comments are as follows:

- Once construction phase commence, install approved Best Management Practices fronting all drainage facilities (Catch Basin/Drainage inlets along Kanoa Street and Pua Lane).
- During construction and upon completion of project, any damages/deficiencies to King Street, Pua Lane, and Kanoa Street right-of-ways shall be corrected to City Standards and accepted by the City.

If you have any questions, please call Mr. Kyle Oyasato of the Division of Road Maintenance, at 768-3697.

Sincerely,

Ross S. Sasamura, P.E.
Director and Chief Engineer

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& ASSOCIATES, INC.

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February 26, 2014

Mr. Ross S. Sasamura, P.E.
Director and Chief Engineer
City and County of Honolulu
Department of Facilities Maintenance
1000 Ulu'ohia Street, Suite 215
Kapolei, Hawai'i 96707

Attn: Mr. Kyle Oyasato, Division of Road Maintenance

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Mr. Sasamura:

Thank you for your letter (your reference number DRM 14-109) dated February 21, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we want to thank you for your comments.

We appreciate your participation in the environmental review process and your input that (1) once construction commences the project should install approved Best Management Practices fronting all drainage facilities; and, (2) during construction and upon completion, any damages/deficiencies to King Street, Pua Lane, and Kanoa Street right-of-ways shall be corrected to City Standards and accepted by the City. Your letter will be included in the Draft Environmental Assessment (EA). We will send you a copy of the Draft EA when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

DEPARTMENT OF PARKS & RECREATION
CITY AND COUNTY OF HONOLULU
1000 Uluohia Street, Suite 309, Kapolei, Hawaii 96707
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Website: www.honolulu.gov

KIRK CALDWELL
MAYOR

TONI P. ROBINSON
DIRECTOR

JEANNE C. ISHIKAWA
DEPUTY DIRECTOR

February 13, 2014

Mr. Vincent Shigekuni, Vice President
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

Dear Mr. Shigekuni:

SUBJECT: Pre Consultation for an Environmental Assessment
Kalihi-Palama Health Center
TMK: 1-7-031:052

Thank you for the opportunity to review and comment on the Draft Environmental Assessment for the Kalihi-Palama Health Center.

The Department of Parks and Recreation has no comment. As the proposed project will have no impact on any program or facility of the department, you may remove us as a consulted party to the balance of the EIS process.

Should you have any questions, please contact Mr. John Reid, Planner at 768-3017.

Sincerely,

Toni P. Robinson
Director

TPR:jr
(548626)

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& ASSOCIATES, INC.

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February 26, 2014

Toni P. Robinson, Director
City and County of Honolulu
Department of Parks and Recreation
1000 Uluohia Street, Suite 309
Kapolei, Hawai'i 96707

Attn: Mr. John Reid

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Ms. Robinson:

Thank you for your letter dated February 13, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we want to thank you for your comments.

We appreciate your participation in the environmental review process, and your input that your Department has no comments to offer at this time as the project will have no impact on any program or facility of your department. Your letter will be included in the Draft Environmental Assessment (EA). As you have requested, we will also remove you as a consulted party for the balance of the EA process.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

DEPARTMENT OF TRANSPORTATION SERVICES
CITY AND COUNTY OF HONOLULU
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KIRK CALDWELL
MAYOR

MICHAEL D. FORMBY
DIRECTOR

MARK N. GARRITY, AICP
DEPUTY DIRECTOR

TP2/14-548836R

February 26, 2014

Mr. Vincent Shigekuni
Vice President
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

Dear Mr. Shigekuni:

SUBJECT: Pre-Consultation for Draft Environmental Assessment (DEA)
Kalihi-Palama Health Center; Honolulu, Oahu, Hawaii

In response to your letter dated February 3, 2014, we have the following comments:

1. The DEA should include a traffic impact assessment report (TIAR). The TIAR should discuss traffic impacts on the surrounding City roadways as a result of the project, including short-term impacts during construction, short- and long-term proposed mitigating measures by applying complete streets principles.

2. The area Neighborhood Board, as well as the area residents, businesses, etc., should be kept apprised of the details of the proposed project and the impacts, particularly during construction, the project may have on the adjoining local street area network.

3. A street usage permit from the City's Department of Transportation Services should be obtained for any construction-related work that may require the temporary closure of any traffic lane on a City street.

4. The DEA should include a description of Public Transit and the impact of your project on Public Transit bus and paratransit operations during construction. There is a bus stop at North King Street and Pua Lane that serves Route 1. Basic information is available on our websites: www.thebus.org and www.honolulu.gov/dts. If your project may affect bus

routes and services, you should contact our staff at 768-8370 to coordinate your planned activities.

5. Any construction materials and equipment should be transferred to and from the project site during off-peak traffic hours (8:30 a.m. to 3:30 p.m.) to minimize any possible disruption to traffic on the local streets.

We reserve further comment pending submission of the DEA.

Thank you for the opportunity to review this matter. Should you have any further questions, please contact Michael Murphy of my staff at 768-8359.

Very truly yours,

Michael D. Formby
Director

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& ASSOCIATES, INC.

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March 18, 2014

Mr. Michael D. Formby, Director
City and County of Honolulu
Department of Transportation Services
650 South King Street, 3rd Floor
Honolulu, HI 96813

Attn: Mr. Michael Murphy

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Mr. Formby:

Thank you for your letter (your reference number TP2/14-548836R) dated February 26, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center (KPHC), we want to thank you for your comments.

We appreciate your participation in the environmental review process and your input that:

- The Kalihi-Palama Neighborhood Board, area residents, businesses, etc. should be kept apprised of the details of the project and potential impacts, especially during construction.
- A street usage permit from DTS should be obtained for construction-related work that may require temporary closure of any traffic lane on a City street.
- The Draft Environmental Assessment (DEA) should include a description of Public Transit and the impact of the project on Public Transit and paratransit operations during construction.
- Any construction materials and equipment should be transferred to and from the project site during off peak traffic hours.

While we understand that your recommendation that the DEA include a traffic impact assessment report (TIAR) is a standard comment, the proposed project is located on one corner of a T-intersection (North King Street and Pua Lane) that is already signalized to control vehicular traffic. All three legs of the intersection include painted crosswalks that are controlled with pedestrian control signals. In addition, both North King Street and Pua Lane in this vicinity are improved with sidewalks. The project's sidewalk fronting North King Street includes a bus stop for buses heading westward (towards the Ewa direction). Bus usage among residents in this area is especially high, and the Executive Director of KPHC estimates that more than half of the patients and staff take The Bus. This project involves the consolidation of sites in three locations in Kalihi-Palama (888 North King Street, 915 North King Street, and 952 North King Street) to one, and will reduce the need for Clients to visit more than one location for services. While the existing locations are within close proximity to each other, the proposed site at the signalized North King Street/Pua Lane intersection is proximate to bus stops that allow for safer (signalized) pedestrian access. In addition, the project site is located near (within walking proximity) many lower-income apartments, where likely many of KPHC's current clients reside.

Finally, the proposed redevelopment of the site will not change vehicular access points into the site from North King Street and Pua Lane, as the existing driveways will be maintained. While a maximum of 24 patients will be seen each hour, only 12 parking stalls will be provided on site. If all of the remaining patients drove, the landowner, St. Elizabeth's Episcopal Church, has 44 parking stalls available for use when the Church is not holding services (during the KPHC's operating hours). The Church parking lot has existing ingress/egress points from both North King Street and Kanoa Street, and is relatively unused during the weekdays and Saturdays.

Based on the above, we do not believe a traffic impact assessment report is required for the facility, which is designed to only accommodate 12 cars at any one time.

Your letter will be included in the Draft Environmental Assessment (EA). We will send you a copy of the Draft EA when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

DEPARTMENT OF TRANSPORTATION SERVICES
CITY AND COUNTY OF HONOLULU
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KIRK CALDWELL
MAYOR

MICHAEL D. FORMBY
DIRECTOR

MARK N. GARRITY, AICP
DEPUTY DIRECTOR

TP2/14-548836R

April 10, 2014

Mr. Vincent Shigekuni
Vice President
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

Dear Mr. Shigekuni:

SUBJECT: Pre-Consultation for Draft Environmental Assessment (DEA)
Kalihi-Palama Health Center; Honolulu, Oahu, Hawaii

This is in response to your letter dated March 18, 2014, informing us that you do not believe a traffic impact assessment report (TIAR) is necessary.

We do understand that the area is currently improved with a traffic signal, crosswalks, and sidewalks and that the redevelopment will not change vehicular access points to the property. However, we insist on a TIAR which will help us determine if any future improvements to the surrounding roadway network and adjacent bus stops are needed and the cumulative impact of the project on traffic flows and circulation in the area. Also, the TIAR should include the short-term impacts to the roadways during construction and improvements related to complete streets principles.

We look forward to receiving and reviewing the DEA.

Thank you for the opportunity to review this matter. Should you have any questions, please contact Renee Yamasaki of my staff at 768-8383.

Very truly yours,

Michael D. Formby
Director

PBR HAWAII
& ASSOCIATES, INC.

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July 28, 2014

Mr. Michael D. Formby, Director
City and County of Honolulu
Department of Transportation Services
650 South King Street, 3rd Floor
Honolulu, HI 96813

Attn: Ms. Renee Yamasaki

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Mr. Formby:

Thank you for your Department's second letter regarding the subject project dated April 10, 2014 (your reference number TP2/14-548836R), and for meeting with us on May 1st regarding the recommendation for a TIAR.

While I correctly noted the proposed project involves the consolidation of services currently being provided at three sites - to the proposed site (in my previous letter to DTS dated March 18, 2014), I failed to mention that the described project is just the first phase of a multi-phase project. In the ultimate configuration, the covered parking area on the ground floor will eventually be converted to additional office space and exam rooms, and all off-street parking required for the KPHC will eventually occur on the adjoining property owned St. Elizabeth's Episcopal Church.

While the interim parking for the proposed KPHC project will utilize existing driveways onto Pua Lane and King Street, we agree with your recommendation that the driveway onto King Street should be restricted to right-turn in, right-turn out movements only. To ensure that this occurs, signage will be installed in the appropriate locations within the parking "structure" and on the exterior of the building. As long as the St. Elizabeth's Episcopal Church parking lot is open, any driver who misses the King Street driveway will be able to "cut through" the Church's parking lot to Kanoa Street and enter the proposed KPHC from Pua Lane.

Both of your Department's letters will be included in the Draft Environmental Assessment (EA). We will send you a copy of the Draft EA when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

HONOLULU FIRE DEPARTMENT

CITY AND COUNTY OF HONOLULU

636 South Street
Honolulu, Hawaii 96813-5007
Phone: 808-723-7139 Fax: 808-723-7111 Internet: www.honolulu.gov/hfd

KIRK CALDWELL
MAYOR

MANUEL P. NEVES
FIRE CHIEF

LIONEL CAMARA JR.
DEPUTY FIRE CHIEF

February 19, 2014

Mr. Vincent Shigekuni
Vice President
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813-3484

Dear Mr. Shigekuni:

Subject: Preconsultation for Environmental Assessment
Kalihi-Palama Health Center
Tax Map Key: 1-7-031: 052

In response to your letter of February 3, 2014, regarding the above-mentioned subject, the Honolulu Fire Department (HFD) requires that the following be complied with:

1. Fire department access roads shall be provided such that any portion of the facility or any portion of an exterior wall of the first story of the building is located not more than 150 feet (46 m) from fire department access roads as measured by an approved route around the exterior of the building or facility. (National Fire Protection Association [NFPA] 1; Uniform Fire Code [UFC]™, 2006 Edition, Section 18.2.3.2.2.)

   A fire department access road shall extend to within 50 ft (15 m) of at least one exterior door that can be opened from the outside and that provides access to the interior of the building. (NFPA 1; UFC™, 2006 Edition, Section 18.2.3.2.1.)

2. A water supply approved by the county, capable of supplying the required fire flow for fire protection, shall be provided to all premises upon which facilities or buildings, or portions thereof, are hereafter constructed, or moved into or within the county. When any portion of the facility or building is in excess of 150 feet (45 720 mm) from a water supply on a fire apparatus access road, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains capable of supplying the required fire flow shall be provided when required by the AHJ [Authority Having Jurisdiction]. (NFPA 1; UFC™, 2006 Edition, Section 18.3.1, as amended.)

3. Submit civil drawings to the HFD for review and approval.

Should you have questions, please contact Acting Battalion Chief Brett Lomont of our Fire Prevention Bureau at 723-7151 or blomont@honolulu.gov.

Sincerely,

SOCRATES D. BRATAKOS
Assistant Chief

SDB/SG:bh

PBR HAWAII
& ASSOCIATES, INC.

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February 26, 2014

Mr. Socrates D. Bratakos, Assistant Chief
City and County of Honolulu
Honolulu Fire Department
636 South Street
Honolulu, Hawai'i 96813-5007

Attn: Mr. Brett Lomont, Acting Battalion Chief

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Mr. Bratakos:

Thank you for your letter dated February 19, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we want to thank you for your comments.

We appreciate your participation in the environmental review process and your input regarding (1) fire department access road requirements, (2) water supply and required water flow, and (3) your request to receive civil drawings for review and approval. Your letter will be included in the Draft Environmental Assessment (EA). We will send you a copy of the Draft EA when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

POLICE DEPARTMENT

CITY AND COUNTY OF HONOLULU

801 SOUTH BERETANIA STREET · HONOLULU, HAWAII 96813
TELEPHONE: (808) 529-3111 · INTERNET: www.honolulupd.org

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LOUIS M. KEALOHA
CHIEF

DAVE M. KAJIHIRO
MARIE A. McCAULEY
DEPUTY CHIEFS

OUR REFERENCE EO-WS

February 19, 2014

Mr. Vincent Shigekuni, Vice President
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813-3484

Dear Mr. Shigekuni:

This is in response to your letter dated February 3, 2014, requesting comments on the Pre-Consultation, Environmental Assessment, for the proposed second phase of the new Kalihi-Palama Health Center located in Honolulu.

The Honolulu Police Department (HPD) has some concerns regarding the project. Due to the heavy vehicular and pedestrian traffic in the neighborhood, we recommend that adequate personnel be hired to conduct traffic control. Additionally, we recommend that all necessary signs, lights, barricades, cones, and other safety equipment be installed and maintained by the contractor to facilitate the flow of vehicular and pedestrian traffic during certain phases of construction.

The project should have no significant impact on the facilities or services of the HPD once it is completed.

If there are any questions, please contact Major Lester Hite of District 5 (Kalihi) at 723-8202 or via e-mail at lhite@honolulu.gov.

Sincerely,

LOUIS M. KEALOHA
Chief of Police

By
RANDAL K. MACADANGDANG
Assistant Chief
Support Services Bureau

Serving and Protecting With Aloha

PBR HAWAII
& ASSOCIATES, INC.

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February 26, 2014

Chief Louis M. Kealoha
City and County of Honolulu
Police Department
801 South Beretania Street
Honolulu, Hawai'i 96813

Attn: Randal K. Macadangdang
Assistant Chief
Support Services Bureau

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Chief Kealoha:

On February 10, 2014, we received a call from Major Lester Hite regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we want to thank him for the Police Department's comments and to thank you as well for the subsequent letter dated February 19, 2014 (your reference identification EO-WS), regarding the subject property.

We appreciate your participation in the environmental review process, and the input that the Police Department has concerns over: 1) whether the sidewalks will be open during construction and 2) construction and operational security and acknowledges 3) the project should have no significant impact once completed. Regarding the concerns related to the project, recommendations include adequate personnel be hired to conduct traffic control, installation and maintenance of signs, lights, barricades, cones and other safety equipment to facilitate vehicular and pedestrian flow during construction. Additionally, Major Hite suggested that when construction activities occur that may cause the sidewalk to be blocked, notices be posted and that special duty officers to advise pedestrians. Major Hite also recommended that security measures be undertaken to deter theft during construction and to design the facility to avoid blind spots within the facility.

Your Department's comments will be included in the Draft Environmental Assessment (EA). We will send you a copy of the Draft EA when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

From: Liu, Rouen
To: Vincent Shigekuni
Cc: Nathalie Razo
Subject: RE: Pre-Consultation for Kalihi-Palama Health Center - HECO
Date: Thursday, February 20, 2014 1:57:09 PM

Thanks Vincent,

Here you go…

Attention: Mr. Rouen Liu (WA2-BA)

Hawaiian Electric Company

PO Box 2750

Honolulu, HI 96840-0001

From: Vincent Shigekuni [mailto:vshigekuni@pbrhawaii.com]
Sent: Thursday, February 20, 2014 1:27 PM
To: Liu, Rouen
Cc: Nathalie Razo
Subject: RE: Pre-Consultation for Kalihi-Palama Health Center - HECO

Dear Rouen,

Acknowledging receipt of your email. We will send a response in writing, if you could kindly provide a mailing address.

Mahalo,

Vincent

From: Liu, Rouen [mailto:rouen.liu@heco.com]
Sent: Thursday, February 20, 2014 1:23 PM
To: Vincent Shigekuni; sysadmin
Subject: Pre-Consultation for Kalihi-Palama Health Center - HECO

Dear Mr. Shigekuni,

Thank you for the opportunity to comment on the subject project. Hawaiian Electric Company has no objections to the project. Should HECO have existing easements and facilities on the subject property, we will need continued access for maintenance of our facilities.

We appreciate your efforts to keep us apprised of the subject project in the planning process. As the Kalihi-Palama Health Center redevelopment comes to fruition, please continue to keep us informed. Further along in the design, we will be better able to evaluate the effects on our system facilities.

If you have any questions, please call me at 543-7245.

Sincerely,

Rouen Q. W. Liu
Permits Engineer

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printed on recycled paper

February 26, 2014

Mr. Rouen Q. W. Liu, Permits Engineer
Hawaiian Electric Company
P.O. Box 2750
Honolulu, Hawai'i 96840-0001

Attn: Mr. Rouen Liu (WA2-BA)

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Mr.Liu:

Thank you for your email February 20, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we want to acknowledge receipt of your comments.

We appreciate your participation in the environmental review process and your input that the Hawaiian Electric Company has no objections to the project. However, it is acknowledged that should HECO have existing easements and facilities on the property, access for maintenance to the facilities will need to be continued. We also acknowledge that as the Kalihi-Palama Health Center redevelopment comes to fruition, HECO will need to be updated. Further along in the design, HECO will be better able to evaluate the effects on HECO's system facilities.

Your letter will be included in the Draft Environmental Assessment (EA). We will send you a copy of the Draft EA when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

Appendix C:

EDR Radius Map Report

Kalihi-Palama Health Center Site
1040 Pua Lane
Honolulu, HI 96817

Inquiry Number: 3850125.2s
February 07, 2014

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-LBE-KKT

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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

1040 PUA LANE
HONOLULU, HI 96817

COORDINATES

Latitude (North):	21.3206000 - 21˚ 19' 14.16''
Longitude (West):	157.8658000 - 157˚ 51' 56.88''
Universal Tranverse Mercator:	Zone 4
UTM X (Meters):	617630.1
UTM Y (Meters):	2357914.5
Elevation:	16 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	21157-C7 HONOLULU, HI
Most Recent Revision:	Not reported
West Map:	21157-C8 PEARL HARBOR, HI
Most Recent Revision:	Not reported

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

EXECUTIVE SUMMARY

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 CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries

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

Federal ERNS list

ERNS..... Emergency Response Notification System

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

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

INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Sites

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

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

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
CDL..... Clandestine Drug Lab Listing
US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Release Notifications
SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

DOT OPS..... Incident and Accident Data
FUDS..... Formerly Used Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
UMTRA..... Uranium Mill Tailings Sites
US MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS..... Section 7 Tracking Systems
ICIS..... Integrated Compliance Information System
PADS..... PCB Activity Database System
MLTS..... Material Licensing Tracking System
RADINFO..... Radiation Information Database
FINDS..... Facility Index System/Facility Registry System
RAATS..... RCRA Administrative Action Tracking System
RMP..... Risk Management Plans
UIC..... Underground Injection Wells Listing
DRYCLEANERS..... Permitted Drycleaner Facility Listing
AIRS..... List of Permitted Facilities
INDIAN RESERV..... Indian Reservations
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
2020 COR ACTION..... 2020 Corrective Action Program List
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
PRP..... Potentially Responsible Parties
COAL ASH DOE..... Steam-Electric Plant Operation Data
Financial Assurance..... Financial Assurance Information Listing

US FIN ASSUR..... Financial Assurance Information
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
EPA WATCH LIST..... EPA WATCH LIST

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF..... Recovered Government Archive Solid Waste Facilities List

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

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 04/26/2013 has revealed that there are 2 CERCLIS sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
KAPALAMA INCINERATOR	757 KOKEA STREET	WNW 1/4 - 1/2 (0.396 mi.)	S75	102
UNOCAL/IWILE TANK FARM	***411 PACIFIC STREET***	***SW 1/4 - 1/2 (0.496 mi.)***	***AA105***	***130***

Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 04/26/2013 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
DOLE PINEAPPLE CANNERY	***801 DILLINGHAM BLVD.***	***WSW 1/8 - 1/4 (0.183 mi.)***	***I38***	***48***

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 09/10/2013 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
CHEVRON 99080	743 N KING ST	WNW 0 - 1/8 (0.048 mi.)	A8	15
BANYAN STREET MANOR	1122 BANYAN ST	N 0 - 1/8 (0.056 mi.)	10	18
TOGUCHI SVC STATION LTD	***825 N VINEYARD BLVD***	***NE 1/8 - 1/4 (0.141 mi.)***	***D19***	***27***

Lower Elevation	Address	Direction / Distance	Map ID	Page
KING STREET SHELL	666 N KING ST	S 0 - 1/8 (0.028 mi.)	A5	11
CUTTER DODGE INC	***735 DILLINGHAM BLVD***	***SW 1/8 - 1/4 (0.152 mi.)***	***E24***	***31***
KUKUI GARDENS MAKAI	1103 LILIHA ST	SE 1/8 - 1/4 (0.178 mi.)	H30	41
ALOHA FENDER INC	***915 KAAAHI PL***	***S 1/8 - 1/4 (0.239 mi.)***	***K48***	***60***

State- and tribal - equivalent CERCLIS

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 SHWS list, as provided by EDR, and dated 01/17/2013 has revealed that there are 68 SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	***1470 LILIHA ST***	***E 1/4 - 1/2 (0.282 mi.)***	***N56***	***76***
LANCE GOYA CHEVRON	***504 N SCHOOL ST***	***ENE 1/4 - 1/2 (0.356 mi.)***	***69***	***92***
KUAKINI MEDICAL CENTER#	***347 N KUAKINI ST***	***E 1/2 - 1 (0.617 mi.)***	***129***	***182***
FARRINGTON HIGH SCHOOL	***1564 N KING ST***	***NW 1/2 - 1 (0.854 mi.)***	***AN159***	***224***
CHEVRON NUUANU	***1909 NUUANU AVE***	***E 1/2 - 1 (0.867 mi.)***	***161***	***227***
Not reported	***1212 QUEEN EMMA ST***	***SE 1/2 - 1 (0.874 mi.)***	***162***	***229***

Lower Elevation	Address	Direction / Distance	Map ID	Page
KUKUI GARDENS	1103 LILIHA ST	SE 1/8 - 1/4 (0.178 mi.)	H29	40

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	***546 KAAAHI ST***	***S 1/8 - 1/4 (0.179 mi.)***	***C31***	***42***
Not reported	***545 KAAAHI ST***	***S 1/8 - 1/4 (0.181 mi.)***	***C34***	***45***
Not reported	***801 DILLINGHAM BLVD***	***WSW 1/8 - 1/4 (0.183 mi.)***	***I39***	***50***
PIER 51 HONOLULU HARBOR, OIL/D	***925 DILLINGHAM BLVD***	***W 1/4 - 1/2 (0.258 mi.)***	***L49***	***62***
TRAVEL PLAZA TRANSPORTATION, L	***818 PINE ST***	***SSW 1/4 - 1/2 (0.261 mi.)***	***J51***	***64***
Not reported	***935 DILLINGHAM BLVD***	***W 1/4 - 1/2 (0.266 mi.)***	***L53***	***69***
Not reported	***874 DILLINGHAM BLVD***	***W 1/4 - 1/2 (0.278 mi.)***	***L55***	***75***
IWILEI BUSINESS CENTER	***501 SUMNER ST***	***SW 1/4 - 1/2 (0.296 mi.)***	***59***	***79***
JBL HAWAII, LTD	***905 KOKEA ST***	***NW 1/4 - 1/2 (0.338 mi.)***	***P63***	***84***
Not reported	***373 N NIMITZ HWY***	***S 1/4 - 1/2 (0.343 mi.)***	***Q65***	***87***
Not reported	***888 IWILEI RD***	***S 1/4 - 1/2 (0.343 mi.)***	***Q66***	***88***
Not reported	***337 N KING ST***	***SSE 1/4 - 1/2 (0.347 mi.)***	***O67***	***89***
IWILEI FRUIT AND VEGETABLE WAR	***920 IWILEI ROAD***	***S 1/4 - 1/2 (0.361 mi.)***	***R70***	***98***
IWILEI PROJECT SITE (IWILEI BR	***IWILEI RD & N KING ST***	***SSE 1/4 - 1/2 (0.389 mi.)***	***R72***	***100***
Not reported	***525 ALAKAWA ST***	***WSW 1/4 - 1/2 (0.400 mi.)***	***T76***	***103***
Not reported	***1138 N KING ST***	***NNW 1/4 - 1/2 (0.403 mi.)***	***U80***	***110***
420-470 NORTH NIMITZ HIGHWAY	***420-470 N NIMITZ HWY***	***SSW 1/4 - 1/2 (0.406 mi.)***	***V81***	***111***
Not reported	***520 ALAKAWA ST***	***WSW 1/4 - 1/2 (0.409 mi.)***	***T84***	***113***
Not reported	***215 N KING ST***	***SSE 1/4 - 1/2 (0.426 mi.)***	***88***	***116***
Not reported	***248-258 N BERETANIA ST***	***SSE 1/4 - 1/2 (0.441 mi.)***	***X90***	***117***
MID PAC PETROLEUM LLC 2705958	***540 N NIMITZ HWY***	***SSW 1/4 - 1/2 (0.458 mi.)***	***Z93***	***119***
WESTON SOLUTIONS, INC.	***616 IWILEI STREET***	***SW 1/4 - 1/2 (0.459 mi.)***	***AA95***	***124***
UNOCAL 76 HONOLULU LRNG CTR	***411 PACIFIC ST***	***SW 1/4 - 1/2 (0.496 mi.)***	***AA106***	***137***
580 NORTH NIMITZ HIGHWAY	***580 N NIMITZ HWY***	***SSW 1/4 - 1/2 (0.498 mi.)***	***Z108***	***143***
Not reported	***421 ALAKAWA ST***	***WSW 1/4 - 1/2 (0.498 mi.)***	***AC109***	***144***
CITY SQUARE 76 GAS STATION	***1199 DILLINGHAM BLVD***	***WNW 1/2 - 1 (0.504 mi.)***	***111***	***146***
Not reported	***356 PACIFIC ST***	***SW 1/2 - 1 (0.505 mi.)***	***AB112***	***148***
BREWER ENVIRONMENTAL INDUSTRIE	***311 PACIFIC ST***	***SW 1/2 - 1 (0.507 mi.)***	***AB114***	***150***
POLYNESIAN HOSPITALITY	***330 PACIFIC ST***	***SW 1/2 - 1 (0.507 mi.)***	***AB115***	***153***
Not reported	***850 MOOWAA ST.***	***NW 1/2 - 1 (0.508 mi.)***	***AD116***	***159***
CITY MILL	***660 N NIMITZ HWY***	***SSW 1/2 - 1 (0.509 mi.)***	***AE117***	***160***
Not reported	***819 MOOWAA ST***	***NW 1/2 - 1 (0.515 mi.)***	***AD118***	***162***
Not reported	***634 N NIMITZ HWY***	***SSW 1/2 - 1 (0.524 mi.)***	***AE119***	***163***
Not reported	***163 N HOTEL ST***	***SSE 1/2 - 1 (0.530 mi.)***	***120***	***165***
Not reported	***ALAKAWA ST & NIMITZ HWY***	***WSW 1/2 - 1 (0.551 mi.)***	***AC121***	***166***
700 N NIMITZ IDPP RELEASE	***700 N NIMITZ HWY***	***SW 1/2 - 1 (0.585 mi.)***	***AF122***	***167***
HAWAIIAN GRAIN CORPORATION	***701 N NIMITZ HWY***	***SSW 1/2 - 1 (0.586 mi.)***	***AG123***	***169***
KAMEHAMEHA SCHOOLS - 1336 DILL	***1336 DILLINGHAM BLVD***	***WNW 1/2 - 1 (0.588 mi.)***	***AH125***	***171***
Not reported	***703 N NIMITZ HWY***	***SSW 1/2 - 1 (0.598 mi.)***	***AG126***	***172***
MOANA PAA KAI	***705 N NIMITZ HWY***	***SSW 1/2 - 1 (0.600 mi.)***	***AG127***	***173***
Not reported	***ALAKEA ST***	***SSW 1/2 - 1 (0.616 mi.)***	***AG128***	***180***
Not reported	***950 MAUNAKEA ST***	***S 1/2 - 1 (0.620 mi.)***	***130***	***187***
Not reported	***739 N NIMITZ HWY***	***SW 1/2 - 1 (0.623 mi.)***	***AF131***	***188***
755 N NIMITZ HWY	***755 N NIMITZ HWY***	***SW 1/2 - 1 (0.634 mi.)***	***AF133***	***190***
Not reported	***900 N NIMITZ HWY***	***SW 1/2 - 1 (0.637 mi.)***	***AI134***	***191***
GTE HAWAIIAN TEL - CONTAMINATE	***ALAKAWA ST & NIMITZ HWY***	***WSW 1/2 - 1 (0.639 mi.)***	***AJ135***	***193***
CHEVRON USA - HNL DISTRIBUTION	***933 N NIMITZ HWY***	***WSW 1/2 - 1 (0.640 mi.)***	***AI136***	***194***
Not reported	***965 N NIMITZ HWY***	***WSW 1/2 - 1 (0.641 mi.)***	***AJ137***	***196***
HART ST WWPS	***1031 N NIMITZ HWY***	***WSW 1/2 - 1 (0.645 mi.)***	***AJ138***	***198***
775 NORTH NIMITZ HIGHWAY	***775 N NIMITZ HWY***	***SW 1/2 - 1 (0.650 mi.)***	***AK140***	***200***
861-869 NORTH NIMITZ HIGHWAY	***861-869 N NIMITZ HWY***	***SW 1/2 - 1 (0.652 mi.)***	***AI142***	***201***
Not reported	***855 N NIMITZ HWY***	***SW 1/2 - 1 (0.653 mi.)***	***AI144***	***202***
Not reported	***1105 N NIMITZ HWY***	***WSW 1/2 - 1 (0.656 mi.)***	***AL145***	***204***
PAULEY PETROLEUM	***795 N NIMITZ HWY***	***SW 1/2 - 1 (0.657 mi.)***	***AK148***	***209***
Not reported	***1130 N NIMITZ HWY***	***W 1/2 - 1 (0.662 mi.)***	***AL151***	***211***
Not reported	***1133 N NIMITZ HWY***	***W 1/2 - 1 (0.670 mi.)***	***AL152***	***213***

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	*505 WAIAKAMILO RD*	*WNW 1/2 - 1 (0.695 mi.)*	*153*	*215*
CHEVRON HONOLULU TERMINAL MARI	*777 N NIMITZ HWY*	*SW 1/2 - 1 (0.716 mi.)*	*154*	*217*
1305 HART STREET	*1305 HART ST*	*W 1/2 - 1 (0.770 mi.)*	*AM155*	*219*
YOUNG BROTHERS, LTD. PIERS 39,	*1331 N NIMITZ HWY*	*W 1/2 - 1 (0.811 mi.)*	*AM156*	*220*
Not reported	*66 QUEEN ST*	*S 1/2 - 1 (0.821 mi.)*	*157*	*223*

State and tribal leaking storage tank lists

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 LUST list, as provided by EDR, and dated 12/04/2013 has revealed that there are 35 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RICHARD TOM Facility Status: Site Cleanup Completed (NFA)	*963 ROBELLO LN*	*WSW 0 - 1/8 (0.060 mi.)*	*A12*	*21*
TESORO HAWAII #22 Facility Status: Site Cleanup Completed (NFA)	*1311 PALAMA ST*	*NNE 1/8 - 1/4 (0.162 mi.)*	*F26*	*34*
SNAPPY SERVICE Facility Status: Monitored Natural Attenuation	*719 N SCHOOL ST*	*NE 1/4 - 1/2 (0.352 mi.)*	*68*	*90*
LANCE GOYA CHEVRON Facility Status: Site Cleanup Completed with EHMP Facility Status: Site Cleanup Completed (NFA)	*504 N SCHOOL ST*	*ENE 1/4 - 1/2 (0.356 mi.)*	*69*	*92*
PALAMA ELDERLY HOUSING Facility Status: Site Cleanup Completed (NFA)	*851 N SCHOOL ST*	*NNE 1/4 - 1/2 (0.392 mi.)*	*73*	*101*
HAWAII HOUSING AUTHORITY Facility Status: Site Cleanup Completed (NFA)	*1002 N SCHOOL ST*	*NNE 1/4 - 1/2 (0.498 mi.)*	*110*	*145*

Lower Elevation	Address	Direction / Distance	Map ID	Page
KING SHELL FOODMART Facility Status: Site Cleanup Completed (NFA)	*666 N KING ST*	*S 0 - 1/8 (0.028 mi.)*	*A4*	*10*
YICK LUNG CO., INC. Facility Status: Site Cleanup Completed (NFA)	*580 DILLINGHAM BLVD*	*S 1/8 - 1/4 (0.133 mi.)*	*C15*	*22*
YICK LUNG CO., INC. Facility Status: Site Cleanup Completed (NFA)	*602 DILLINGHAM BLVD*	*SSW 1/8 - 1/4 (0.135 mi.)*	*C17*	*25*
KINGSGATE PLAZA Facility Status: Site Cleanup Completed (NFA)	*516 DILLINGHAM BLVD*	*SSE 1/8 - 1/4 (0.145 mi.)*	*21*	*29*
CUTTER DODGE AUTO SERVICE CENT Facility Status: Site Cleanup Completed (NFA)	*735 DILLINGHAM BLVD*	*SW 1/8 - 1/4 (0.152 mi.)*	*E22*	*30*
DOLE IWILEI CANNERY Facility Status: Site Cleanup Completed (NFA)	*801 DILLINGHAM BLVD*	*WSW 1/8 - 1/4 (0.183 mi.)*	*I37*	*47*
MAUNAWILI PRODUCE, INC. Facility Status: Site Cleanup Completed (NFA)	*914 KAAAHI PL*	*S 1/8 - 1/4 (0.238 mi.)*	*K44*	*55*
MAUNAWILI PRODUCE Facility Status: Site Cleanup Completed (NFA)	*906 KAAAHI PL*	*S 1/8 - 1/4 (0.238 mi.)*	*K45*	*56*

Lower Elevation	Address	Direction / Distance	Map ID	Page
SPRINT LOT Facility Status: Site Cleanup Completed (NFA)	*925 DILLINGHAM BLVD*	*W 1/4 - 1/2 (0.258 mi.)*	*L50*	*63*
TRAVEL PLAZA TRANSPORTATION, L Facility Status: Site Cleanup Completed (NFA)	*818 PINE ST*	*SSW 1/4 - 1/2 (0.261 mi.)*	*J51*	*64*
HONOLULU COMMUNITY COLLEGE Facility Status: Site Cleanup Completed (NFA)	*DILLINGHAM BLVD*	*WNW 1/4 - 1/2 (0.264 mi.)*	*52*	*68*
MAHALO NORTH KING AUTO Facility Status: Site Cleanup Completed (NFA) Facility Status: Site Cleanup Completed with EHMP	*1010 N KING ST*	*NW 1/4 - 1/2 (0.270 mi.)*	*M54*	*71*
ISLAND MOVERS, INC. Facility Status: Site Cleanup Completed (NFA)	*414 KUWILI STHONOLULU H*	*S 1/4 - 1/2 (0.285 mi.)*	*58*	*77*
HONOLULU COMMUNITY ACTION PROG Facility Status: Site Cleanup Completed (NFA)	*337 & 357 N KING ST*	*SSE 1/4 - 1/2 (0.307 mi.)*	*O60*	*80*
KING'S SERVICE Facility Status: Site Cleanup Completed (NFA)	*1070 N KING ST*	*NW 1/4 - 1/2 (0.326 mi.)*	*M61*	*82*
JBL HAWAII LTD Facility Status: Site Cleanup Completed (NFA)	*905 KOKEA ST*	*NW 1/4 - 1/2 (0.338 mi.)*	*P62*	*84*
STEELTECH INC Facility Status: Site Cleanup Completed (NFA)	*373 N NIMITZ HWY*	*S 1/4 - 1/2 (0.343 mi.)*	*Q64*	*86*
IWILEI FRUIT AND VEGETABLE WAR Facility Status: Site Cleanup Completed (NFA)	*920 IWILEI ROAD*	*S 1/4 - 1/2 (0.361 mi.)*	*R70*	*98*
OAHU PLUMBING & SHEET METAL, L Facility Status: Site Cleanup Completed (NFA)	*926 KOHOU ST*	*NW 1/4 - 1/2 (0.372 mi.)*	*P71*	*99*
7-11 KAPALAMA Facility Status: Site Cleanup Completed (NFA)	*1136 N KING ST.*	*NNW 1/4 - 1/2 (0.401 mi.)*	*U77*	*105*
420 N. NIMITS HWY DEMOLOTION P Facility Status: Site Cleanup Completed (NFA)	*420 N. NIMITZ HWY*	*SSW 1/4 - 1/2 (0.406 mi.)*	*V82*	*112*
SHIMAYA SHOTEN, LTD. Facility Status: Site Cleanup Completed (NFA)	*710 KOHOU ST*	*WNW 1/4 - 1/2 (0.418 mi.)*	*S86*	*114*
JOHIRO BROTHERS, INC. Facility Status: Site Cleanup Completed (NFA)	*1240 MOOKAULA ST*	*NW 1/4 - 1/2 (0.424 mi.)*	*87*	*115*
AA ELECTRIC, LTD. Facility Status: Site Cleanup Completed (NFA)	*500 ALA KAWA ST, APT #1*	*W 1/4 - 1/2 (0.454 mi.)*	*Y91*	*118*
MID PAC PETROLEUM LLC 2705958 Facility Status: Site Cleanup Completed (NFA)	*540 N NIMITZ HWY*	*SSW 1/4 - 1/2 (0.458 mi.)*	*Z93*	*119*
DOLE PACKAGED FOODS CO. Facility Status: Site Cleanup Completed (NFA)	*ALA KAWA ST / WAREHOUSE*	*W 1/4 - 1/2 (0.473 mi.)*	*Y100*	*127*
OAHU PLUMBING & SHEETMETAL Facility Status: Site Cleanup Completed (NFA)	*1217 N KING ST*	*NNW 1/4 - 1/2 (0.484 mi.)*	*101*	*128*
DOLE CAN PLANT Facility Status: Site Cleanup Completed (NFA)	*601 IWILEI RD*	*SW 1/4 - 1/2 (0.491 mi.)*	*AB104*	*129*
HARRY & JEANETTE WEINBERG FOUN Facility Status: Monitored Natural Attenuation	*580 N NIMITZ HWY*	*SSW 1/4 - 1/2 (0.498 mi.)*	*Z107*	*142*

State and tribal registered storage tank lists

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 UST list, as provided by EDR, and dated 12/04/2013 has revealed that there are 15 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NAKAMURA INVESTMENT GROUP	*979 ROBELLO LN*	*WSW 0 - 1/8 (0.040 mi.)*	*A6*	*13*
GENNESART CHEVRON - KING	*743 N KING ST*	*WNW 0 - 1/8 (0.048 mi.)*	*A9*	*16*
RICHARD TOM	*963 ROBELLO LN*	*WSW 0 - 1/8 (0.060 mi.)*	*A12*	*21*
TESORO HAWAII #22	*1311 PALAMA ST*	*NNE 1/8 - 1/4 (0.162 mi.)*	*F26*	*34*

Lower Elevation	Address	Direction / Distance	Map ID	Page
KING SHELL FOODMART	*666 N KING ST*	*S 0 - 1/8 (0.028 mi.)*	*A4*	*10*
YICK LUNG CO., INC.	*580 DILLINGHAM BLVD*	*S 1/8 - 1/4 (0.133 mi.)*	*C15*	*22*
TONY'S LIQUOR AND DELI	*581 DILLINGHAM BLVD*	*S 1/8 - 1/4 (0.135 mi.)*	*C16*	*23*
YICK LUNG CO., INC.	*602 DILLINGHAM BLVD*	*SSW 1/8 - 1/4 (0.135 mi.)*	*C17*	*25*
KINGSGATE PLAZA	*516 DILLINGHAM BLVD*	*SSE 1/8 - 1/4 (0.145 mi.)*	*21*	*29*
CUTTER DODGE AUTO SERVICE CENT	*735 DILLINGHAM BLVD*	*SW 1/8 - 1/4 (0.152 mi.)*	*E22*	*30*
NAKAOKA PAINTING INC	922 KAAMAHU PL	S 1/8 - 1/4 (0.183 mi.)	C36	46
DOLE IWILEI CANNERY	*801 DILLINGHAM BLVD*	*WSW 1/8 - 1/4 (0.183 mi.)*	*I37*	*47*
KAPALAMA WAREHOUSE	922 AUSTIN LN	WNW 1/8 - 1/4 (0.200 mi.)	G40	53
MAUNAWILI PRODUCE, INC.	*914 KAAAHI PL*	*S 1/8 - 1/4 (0.238 mi.)*	*K44*	*55*
MAUNAWILI PRODUCE	*906 KAAAHI PL*	*S 1/8 - 1/4 (0.238 mi.)*	*K45*	*56*

State and tribal institutional control / engineering control registries

ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the ENG CONTROLS list, as provided by EDR, and dated 01/17/2013 has revealed that there are 11 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 1/4 - 1/2 (0.356 mi.)*	*69*	*92*

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	*546 KAAAHI ST*	*S 1/8 - 1/4 (0.179 mi.)*	*C31*	*42*
PIER 51 HONOLULU HARBOR, OIL/D	*925 DILLINGHAM BLVD*	*W 1/4 - 1/2 (0.258 mi.)*	*L49*	*62*
Not reported	*935 DILLINGHAM BLVD*	*W 1/4 - 1/2 (0.266 mi.)*	*L53*	*69*
JBL HAWAII, LTD	*905 KOKEA ST*	*NW 1/4 - 1/2 (0.338 mi.)*	*P63*	*84*
Not reported	*525 ALAKAWA ST*	*WSW 1/4 - 1/2 (0.400 mi.)*	*T76*	*103*
Not reported	*1138 N KING ST*	*NNW 1/4 - 1/2 (0.403 mi.)*	*U80*	*110*
420-470 NORTH NIMITZ HIGHWAY	*420-470 N NIMITZ HWY*	*SSW 1/4 - 1/2 (0.406 mi.)*	*V81*	*111*
Not reported	*520 ALAKAWA ST*	*WSW 1/4 - 1/2 (0.409 mi.)*	*T84*	*113*
580 NORTH NIMITZ HIGHWAY	*580 N NIMITZ HWY*	*SSW 1/4 - 1/2 (0.498 mi.)*	*Z108*	*143*
Not reported	*421 ALAKAWA ST*	*WSW 1/4 - 1/2 (0.498 mi.)*	*AC109*	*144*

Voluntary Remediation Program and Brownfields sites with institutional controls in place.

A review of the INST CONTROL list, as provided by EDR, and dated 01/17/2013 has revealed that there are 13 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 1/4 - 1/2 (0.356 mi.)*	*69*	*92*

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	*546 KAAAHI ST*	*S 1/8 - 1/4 (0.179 mi.)*	*C31*	*42*
PIER 51 HONOLULU HARBOR, OIL/D	*925 DILLINGHAM BLVD*	*W 1/4 - 1/2 (0.258 mi.)*	*L49*	*62*
Not reported	*935 DILLINGHAM BLVD*	*W 1/4 - 1/2 (0.266 mi.)*	*L53*	*69*
IWILEI BUSINESS CENTER	*501 SUMNER ST*	*SW 1/4 - 1/2 (0.296 mi.)*	*59*	*79*
JBL HAWAII, LTD	*905 KOKEA ST*	*NW 1/4 - 1/2 (0.338 mi.)*	*P63*	*84*
Not reported	*888 IWILEI RD*	*S 1/4 - 1/2 (0.343 mi.)*	*Q66*	*88*
Not reported	*525 ALAKAWA ST*	*WSW 1/4 - 1/2 (0.400 mi.)*	*T76*	*103*
Not reported	*1138 N KING ST*	*NNW 1/4 - 1/2 (0.403 mi.)*	*U80*	*110*
Not reported	*520 ALAKAWA ST*	*WSW 1/4 - 1/2 (0.409 mi.)*	*T84*	*113*
Not reported	*248-258 N BERETANIA ST*	*SSE 1/4 - 1/2 (0.441 mi.)*	*X90*	*117*
WESTON SOLUTIONS, INC.	*616 IWILEI STREET*	*SW 1/4 - 1/2 (0.459 mi.)*	*AA95*	*124*
Not reported	*421 ALAKAWA ST*	*WSW 1/4 - 1/2 (0.498 mi.)*	*AC109*	*144*

State and tribal voluntary cleanup sites

VCP: Voluntary Response Program Sites.

A review of the VCP list, as provided by EDR, and dated 01/17/2013 has revealed that there are 6 VCP sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PIER 51 HONOLULU HARBOR, OIL/D	*925 DILLINGHAM BLVD*	*W 1/4 - 1/2 (0.258 mi.)*	*L49*	*62*
Not reported	*525 ALAKAWA ST*	*WSW 1/4 - 1/2 (0.400 mi.)*	*T76*	*103*
Not reported	*520 ALAKAWA ST*	*WSW 1/4 - 1/2 (0.409 mi.)*	*T84*	*113*
Not reported	*248-258 N BERETANIA ST*	*SSE 1/4 - 1/2 (0.441 mi.)*	*X90*	*117*
UNOCAL 76 HONOLULU LRNG CTR	*411 PACIFIC ST*	*SW 1/4 - 1/2 (0.496 mi.)*	*AA106*	*137*
Not reported	*421 ALAKAWA ST*	*WSW 1/4 - 1/2 (0.498 mi.)*	*AC109*	*144*

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 09/10/2013 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
OLD WORLD PRODUCTS OF HI INC	717 A NORTH KING ST	W 0 - 1/8 (0.010 mi.)	A1	7
PIONEER VENTURES INC	***999 ROBELLO LN***	***W 0 - 1/8 (0.019 mi.)***	***A3***	***8***
CLEE LTD ASSOCIATE CHEMICAL	***930 AUSTIN LANE***	***NW 1/8 - 1/4 (0.169 mi.)***	***G28***	***37***

Lower Elevation	Address	Direction / Distance	Map ID	Page
DOLE PINEAPPLE CANNERY	***801 DILLINGHAM BLVD.***	***WSW 1/8 - 1/4 (0.183 mi.)***	***I38***	***48***
MAUNAWILI PRODUCE	***914 KAAAHI PL***	***S 1/8 - 1/4 (0.238 mi.)***	***K43***	***54***
R & G TRUCKING	***906 KAAAHI PLACE***	***S 1/8 - 1/4 (0.238 mi.)***	***K46***	***57***

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 RESERVATI		SSW 1/4 - 1/2 (0.438 mi.)	0	7

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 PRODUCTS LTD	516-520 KUWILI ST	SSW 1/8 - 1/4 (0.217 mi.)	J41	53
BHP GASCO	432 PACIFIC STREET	SW 1/4 - 1/2 (0.491 mi.)	AA102	129

EDR US Hist Auto Stat: 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 US Hist Auto Stat list, as provided by EDR, has revealed that there are 12 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	999 ROBELLO LN	W 0 - 1/8 (0.019 mi.)	A2	8
Not reported	743 N KING ST	WNW 0 - 1/8 (0.045 mi.)	A7	14
Not reported	963 ROBELLO LN	WSW 0 - 1/8 (0.060 mi.)	A11	20
Not reported	1311 PALAMA ST	NNE 1/8 - 1/4 (0.162 mi.)	F27	37
Not reported	574 N VINEYARD BLVD	E 1/8 - 1/4 (0.180 mi.)	32	44

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	580 DILLINGHAM BLVD	S 1/8 - 1/4 (0.133 mi.)	C14	22
Not reported	555 N KING ST	SSE 1/8 - 1/4 (0.140 mi.)	B18	27
Not reported	735 DILLINGHAM BLVD	SW 1/8 - 1/4 (0.152 mi.)	E23	31
Not reported	545 KAAAHI ST	S 1/8 - 1/4 (0.181 mi.)	C33	44
Not reported	922 KAAMAHU PL	S 1/8 - 1/4 (0.183 mi.)	C35	46
Not reported	914 KAAAHI PL	S 1/8 - 1/4 (0.238 mi.)	K42	53
Not reported	915 KAAAHI PL	S 1/8 - 1/4 (0.239 mi.)	K47	60

EDR US Hist 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.

A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there is 1 EDR US Hist Cleaners site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	607 N KING ST	SSE 0 - 1/8 (0.084 mi.)	B13	22

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: 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.

A review of the RGA HWS list, as provided by EDR, has revealed that there are 85 RGA HWS sites within approximately 1 mile of the target property.

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	*1470 LILIHA ST*	*E 1/4 - 1/2 (0.282 mi.)*	*N56*	*76*
LANCE GOYA CHEVRON	*504 N SCHOOL ST*	*ENE 1/4 - 1/2 (0.356 mi.)*	*69*	*92*
KUAKINI MEDICAL CENTER#	*347 N KUAKINI ST*	*E 1/2 - 1 (0.617 mi.)*	*129*	*182*
Not reported	1564 N KING STREET	NW 1/2 - 1 (0.854 mi.)	AN158	224
FARRINGTON HIGH SCHOOL	*1564 N KING ST*	*NW 1/2 - 1 (0.854 mi.)*	*AN159*	*224*
CHEVRON NUUANU	*1909 NUUANU AVE*	*E 1/2 - 1 (0.867 mi.)*	*161*	*227*
Not reported	*1212 QUEEN EMMA ST*	*SE 1/2 - 1 (0.874 mi.)*	*162*	*229*

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	735 DILLINGHAM BLVD	SW 1/8 - 1/4 (0.152 mi.)	E25	33
Not reported	*546 KAAAHI ST*	*S 1/8 - 1/4 (0.179 mi.)*	*C31*	*42*
Not reported	*545 KAAAHI ST*	*S 1/8 - 1/4 (0.181 mi.)*	*C34*	*45*
Not reported	*801 DILLINGHAM BLVD*	*WSW 1/8 - 1/4 (0.183 mi.)*	*I39*	*50*
PIER 51 HONOLULU HARBOR, OIL/D	*925 DILLINGHAM BLVD*	*W 1/4 - 1/2 (0.258 mi.)*	*L49*	*62*
TRAVEL PLAZA TRANSPORTATION, L	*818 PINE ST*	*SSW 1/4 - 1/2 (0.261 mi.)*	*J51*	*64*
Not reported	*935 DILLINGHAM BLVD*	*W 1/4 - 1/2 (0.266 mi.)*	*L53*	*69*
Not reported	*874 DILLINGHAM BLVD*	*W 1/4 - 1/2 (0.278 mi.)*	*L55*	*75*
IWILEI BUSINESS CENTER	*501 SUMNER ST*	*SW 1/4 - 1/2 (0.296 mi.)*	*59*	*79*
JBL HAWAII, LTD	*905 KOKEA ST*	*NW 1/4 - 1/2 (0.338 mi.)*	*P63*	*84*
Not reported	*373 N NIMITZ HWY*	*S 1/4 - 1/2 (0.343 mi.)*	*Q65*	*87*
Not reported	*888 IWILEI RD*	*S 1/4 - 1/2 (0.343 mi.)*	*Q66*	*88*
Not reported	*337 N KING ST*	*SSE 1/4 - 1/2 (0.347 mi.)*	*O67*	*89*
IWILEI PROJECT SITE (IWILEI BR	*IWILEI RD & N KING ST*	*SSE 1/4 - 1/2 (0.389 mi.)*	*R72*	*100*
Not reported	757 KOKEA STREET	WNW 1/4 - 1/2 (0.396 mi.)	S74	102
Not reported	*525 ALAKAWA ST*	*WSW 1/4 - 1/2 (0.400 mi.)*	*T76*	*103*
Not reported	1138 NORTH KING STREET	NNW 1/4 - 1/2 (0.403 mi.)	U79	109
Not reported	*1138 N KING ST*	*NNW 1/4 - 1/2 (0.403 mi.)*	*U80*	*110*
420-470 NORTH NIMITZ HIGHWAY	*420-470 N NIMITZ HWY*	*SSW 1/4 - 1/2 (0.406 mi.)*	*V81*	*111*
Not reported	520 ALAKAWA STREET	WSW 1/4 - 1/2 (0.409 mi.)	T83	112
Not reported	*520 ALAKAWA ST*	*WSW 1/4 - 1/2 (0.409 mi.)*	*T84*	*113*
Not reported	*215 N KING ST*	*SSE 1/4 - 1/2 (0.426 mi.)*	*88*	*116*
Not reported	650 IWILEI RD	SW 1/4 - 1/2 (0.428 mi.)	W89	117
Not reported	*248-258 N BERETANIA ST*	*SSE 1/4 - 1/2 (0.441 mi.)*	*X90*	*117*
MID PAC PETROLEUM LLC 2705958	*540 N NIMITZ HWY*	*SSW 1/4 - 1/2 (0.458 mi.)*	*Z93*	*119*
Not reported	550-580 N NIMITZ HWY	SSW 1/4 - 1/2 (0.470 mi.)	Z96	126
Not reported	616 IWILEI ROAD	SW 1/4 - 1/2 (0.471 mi.)	W97	126
Not reported	1200 COLLEGE WALK	SSE 1/4 - 1/2 (0.471 mi.)	X98	127
Not reported	432 PACIFIC ST	SW 1/4 - 1/2 (0.491 mi.)	AA103	129
UNOCAL 76 HONOLULU LRNG CTR	*411 PACIFIC ST*	*SW 1/4 - 1/2 (0.496 mi.)*	*AA106*	*137*
580 NORTH NIMITZ HIGHWAY	*580 N NIMITZ HWY*	*SSW 1/4 - 1/2 (0.498 mi.)*	*Z108*	*143*
Not reported	*421 ALAKAWA ST*	*WSW 1/4 - 1/2 (0.498 mi.)*	*AC109*	*144*
CITY SQUARE 76 GAS STATION	*1199 DILLINGHAM BLVD*	*WNW 1/2 - 1 (0.504 mi.)*	*111*	*146*
Not reported	*356 PACIFIC ST*	*SW 1/2 - 1 (0.505 mi.)*	*AB112*	*148*
Not reported	311 PACIFIC STREET	SW 1/2 - 1 (0.507 mi.)	AB113	150
BREWER ENVIRONMENTAL INDUSTRIE	*311 PACIFIC ST*	*SW 1/2 - 1 (0.507 mi.)*	*AB114*	*150*
POLYNESIAN HOSPITALITY	*330 PACIFIC ST*	*SW 1/2 - 1 (0.507 mi.)*	*AB115*	*153*
Not reported	*850 MOOWAA ST.*	*NW 1/2 - 1 (0.508 mi.)*	*AD116*	*159*
CITY MILL	*660 N NIMITZ HWY*	*SSW 1/2 - 1 (0.509 mi.)*	*AE117*	*160*
Not reported	*819 MOOWAA ST*	*NW 1/2 - 1 (0.515 mi.)*	*AD118*	*162*
Not reported	*634 N NIMITZ HWY*	*SSW 1/2 - 1 (0.524 mi.)*	*AE119*	*163*
Not reported	*163 N HOTEL ST*	*SSE 1/2 - 1 (0.530 mi.)*	*120*	*165*
Not reported	*ALAKAWA ST & NIMITZ HWY*	*WSW 1/2 - 1 (0.551 mi.)*	*AC121*	*166*
700 N NIMITZ IDPP RELEASE	*700 N NIMITZ HWY*	*SW 1/2 - 1 (0.585 mi.)*	*AF122*	*167*
HAWAIIAN GRAIN CORPORATION	*701 N NIMITZ HWY*	*SSW 1/2 - 1 (0.586 mi.)*	*AG123*	*169*
Not reported	1336 DILLINGHAM BOULEVA	WNW 1/2 - 1 (0.588 mi.)	AH124	171

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	*703 N NIMITZ HWY*	*SSW 1/2 - 1 (0.598 mi.)*	*AG126*	*172*
MOANA PAA KAI	*705 N NIMITZ HWY*	*SSW 1/2 - 1 (0.600 mi.)*	*AG127*	*173*
Not reported	*ALAKEA ST*	*SSW 1/2 - 1 (0.616 mi.)*	*AG128*	*180*
Not reported	*950 MAUNAKEA ST*	*S 1/2 - 1 (0.620 mi.)*	*130*	*187*
Not reported	*739 N NIMITZ HWY*	*SW 1/2 - 1 (0.623 mi.)*	*AF131*	*188*
Not reported	739 NORTH NIMITZ HIGHWA	SW 1/2 - 1 (0.623 mi.)	AF132	190
755 N NIMITZ HWY	*755 N NIMITZ HWY*	*SW 1/2 - 1 (0.634 mi.)*	*AF133*	*190*
Not reported	*900 N NIMITZ HWY*	*SW 1/2 - 1 (0.637 mi.)*	*AI134*	*191*
CHEVRON USA - HNL DISTRIBUTION	*933 N NIMITZ HWY*	*WSW 1/2 - 1 (0.640 mi.)*	*AI136*	*194*
Not reported	*965 N NIMITZ HWY*	*WSW 1/2 - 1 (0.641 mi.)*	*AJ137*	*196*
HART ST WWPS	*1031 N NIMITZ HWY*	*WSW 1/2 - 1 (0.645 mi.)*	*AJ138*	*198*
Not reported	1031 NIMITZ HWY	WSW 1/2 - 1 (0.645 mi.)	AJ139	199
775 NORTH NIMITZ HIGHWAY	*775 N NIMITZ HWY*	*SW 1/2 - 1 (0.650 mi.)*	*AK140*	*200*
Not reported	861 N NIMITZ HWY	SW 1/2 - 1 (0.652 mi.)	AI141	201
861-869 NORTH NIMITZ HIGHWAY	*861-869 N NIMITZ HWY*	*SW 1/2 - 1 (0.652 mi.)*	*AI142*	*201*
Not reported	861- 869 N NIMITZ HWY	SW 1/2 - 1 (0.652 mi.)	AI143	202
Not reported	*855 N NIMITZ HWY*	*SW 1/2 - 1 (0.653 mi.)*	*AI144*	*202*
Not reported	*1105 N NIMITZ HWY*	*WSW 1/2 - 1 (0.656 mi.)*	*AL145*	*204*
Not reported	789 N NIMITZ HWY	SW 1/2 - 1 (0.656 mi.)	AK146	208
Not reported	789 NIMITZ HWY	SW 1/2 - 1 (0.656 mi.)	AK147	209
PAULEY PETROLEUM	*795 N NIMITZ HWY*	*SW 1/2 - 1 (0.657 mi.)*	*AK148*	*209*
Not reported	795 N NIMITZ HIGHWAY	SW 1/2 - 1 (0.657 mi.)	AK149	211
Not reported	795 NORTH NIMITZ HIGHWA	SW 1/2 - 1 (0.657 mi.)	AK150	211
Not reported	*1130 N NIMITZ HWY*	*W 1/2 - 1 (0.662 mi.)*	*AL151*	*211*
Not reported	*1133 N NIMITZ HWY*	*W 1/2 - 1 (0.670 mi.)*	*AL152*	*213*
Not reported	*505 WAIAKAMILO RD*	*WNW 1/2 - 1 (0.695 mi.)*	*153*	*215*
CHEVRON HONOLULU TERMINAL MARI	*777 N NIMITZ HWY*	*SW 1/2 - 1 (0.716 mi.)*	*154*	*217*
1305 HART STREET	*1305 HART ST*	*W 1/2 - 1 (0.770 mi.)*	*AM155*	*219*
YOUNG BROTHERS, LTD. PIERS 39,	*1331 N NIMITZ HWY*	*W 1/2 - 1 (0.811 mi.)*	*AM156*	*220*
Not reported	*66 QUEEN ST*	*S 1/2 - 1 (0.821 mi.)*	*157*	*223*
Not reported	1001 BISHOP ST	SSE 1/2 - 1 (0.865 mi.)	160	227
Not reported	LIBBY ST & REPUBLICAN S	W 1/2 - 1 (0.996 mi.)	163	230

RGA LUST: 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.

A review of the RGA LUST list, as provided by EDR, has revealed that there are 42 RGA LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RICHARD TOM	*963 ROBELLO LN*	*WSW 0 - 1/8 (0.060 mi.)*	*A12*	*21*
Not reported	825 N VINEYARD BLVD	NE 1/8 - 1/4 (0.141 mi.)	D20	29
TESORO HAWAII #22	*1311 PALAMA ST*	*NNE 1/8 - 1/4 (0.162 mi.)*	*F26*	*34*
Not reported	1470 LILIHA ST	E 1/4 - 1/2 (0.282 mi.)	N57	77
SNAPPY SERVICE	*719 N SCHOOL ST*	*NE 1/4 - 1/2 (0.352 mi.)*	*68*	*90*
LANCE GOYA CHEVRON	*504 N SCHOOL ST*	*ENE 1/4 - 1/2 (0.356 mi.)*	*69*	*92*
PALAMA ELDERLY HOUSING	*851 N SCHOOL ST*	*NNE 1/4 - 1/2 (0.392 mi.)*	*73*	*101*
HAWAII HOUSING AUTHORITY	*1002 N SCHOOL ST*	*NNE 1/4 - 1/2 (0.498 mi.)*	*110*	*145*

Lower Elevation	Address	Direction / Distance	Map ID	Page
KING SHELL FOODMART	*666 N KING ST*	*S 0 - 1/8 (0.028 mi.)*	*A4*	*10*
YICK LUNG CO., INC.	*580 DILLINGHAM BLVD*	*S 1/8 - 1/4 (0.133 mi.)*	*C15*	*22*

EXECUTIVE SUMMARY

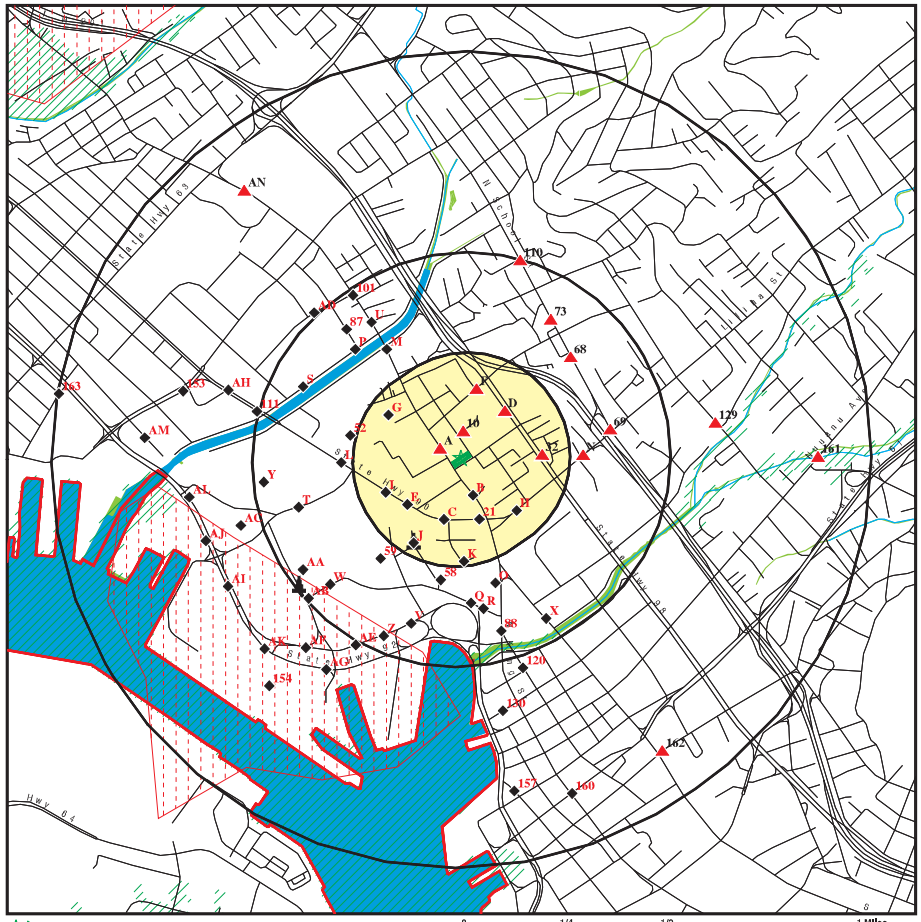
Lower Elevation	Address	Direction / Distance	Map ID	Page
YICK LUNG CO., INC.	***602 DILLINGHAM BLVD***	***SSW 1/8 - 1/4 (0.135 mi.)***	***C17***	***25***
KINGSGATE PLAZA	***516 DILLINGHAM BLVD***	***SSE 1/8 - 1/4 (0.145 mi.)***	***21***	***29***
CUTTER DODGE AUTO SERVICE CENT	***735 DILLINGHAM BLVD***	***SW 1/8 - 1/4 (0.152 mi.)***	***E22***	***30***
DOLE IWILEI CANNERY	***801 DILLINGHAM BLVD***	***WSW 1/8 - 1/4 (0.183 mi.)***	***I37***	***47***
MAUNAWILI PRODUCE, INC.	***914 KAAAHI PL***	***S 1/8 - 1/4 (0.238 mi.)***	***K44***	***55***
MAUNAWILI PRODUCE	***906 KAAAHI PL***	***S 1/8 - 1/4 (0.238 mi.)***	***K45***	***56***
SPRINT LOT	***925 DILLINGHAM BLVD***	***W 1/4 - 1/2 (0.258 mi.)***	***L50***	***63***
TRAVEL PLAZA TRANSPORTATION, L	***818 PINE ST***	***SSW 1/4 - 1/2 (0.261 mi.)***	***J51***	***64***
HONOLULU COMMUNITY COLLEGE	***DILLINGHAM BLVD***	***WNW 1/4 - 1/2 (0.264 mi.)***	***52***	***68***
MAHALO NORTH KING AUTO	***1010 N KING ST***	***NW 1/4 - 1/2 (0.270 mi.)***	***M54***	***71***
ISLAND MOVERS, INC.	***414 KUWILI STHONOLULU H***	***S 1/4 - 1/2 (0.285 mi.)***	***58***	***77***
HONOLULU COMMUNITY ACTION PROG	***337 & 357 N KING ST***	***SSE 1/4 - 1/2 (0.307 mi.)***	***O60***	***80***
KING'S SERVICE	***1070 N KING ST***	***NW 1/4 - 1/2 (0.326 mi.)***	***M61***	***82***
JBL HAWAII LTD	***905 KOKEA ST***	***NW 1/4 - 1/2 (0.338 mi.)***	***P62***	***84***
STEELTECH INC	***373 N NIMITZ HWY***	***S 1/4 - 1/2 (0.343 mi.)***	***Q64***	***86***
IWILEI FRUIT AND VEGETABLE WAR	***920 IWILEI ROAD***	***S 1/4 - 1/2 (0.361 mi.)***	***R70***	***98***
OAHU PLUMBING & SHEET METAL, L	***926 KOHOU ST***	***NW 1/4 - 1/2 (0.372 mi.)***	***P71***	***99***
7-11 KAPALAMA	***1136 N KING ST.***	***NNW 1/4 - 1/2 (0.401 mi.)***	***U77***	***105***
Not reported	1136 NORTH KING ST.	NNW 1/4 - 1/2 (0.401 mi.)	U78	109
420 N. NIMITS HWY DEMOLOTION P	***420 N. NIMITZ HWY***	***SSW 1/4 - 1/2 (0.406 mi.)***	***V82***	***112***
Not reported	710 KOHOU STREET	WNW 1/4 - 1/2 (0.418 mi.)	S85	114
SHIMAYA SHOTEN, LTD.	***710 KOHOU ST***	***WNW 1/4 - 1/2 (0.418 mi.)***	***S86***	***114***
JOHIRO BROTHERS, INC.	***1240 MOOKAULA ST***	***NW 1/4 - 1/2 (0.424 mi.)***	***87***	***115***
AA ELECTRIC, LTD.	***500 ALA KAWA ST, APT #1***	***W 1/4 - 1/2 (0.454 mi.)***	***Y91***	***118***
Not reported	540 NIMITZ HWY	SSW 1/4 - 1/2 (0.458 mi.)	Z92	119
MID PAC PETROLEUM LLC 2705958	***540 N NIMITZ HWY***	***SSW 1/4 - 1/2 (0.458 mi.)***	***Z93***	***119***
Not reported	540 NIMITZ HWY.	SSW 1/4 - 1/2 (0.458 mi.)	Z94	124
Not reported	1200 COLLEGE WALK	SSE 1/4 - 1/2 (0.471 mi.)	X99	127
DOLE PACKAGED FOODS CO.	***ALA KAWA ST / WAREHOUSE***	***W 1/4 - 1/2 (0.473 mi.)***	***Y100***	***127***
OAHU PLUMBING & SHEETMETAL	***1217 N KING ST***	***NNW 1/4 - 1/2 (0.484 mi.)***	***101***	***128***
DOLE CAN PLANT	***601 IWILEI RD***	***SW 1/4 - 1/2 (0.491 mi.)***	***AB104***	***129***
HARRY & JEANETTE WEINBERG FOUN	***580 N NIMITZ HWY***	***SSW 1/4 - 1/2 (0.498 mi.)***	***Z107***	***142***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

Site Name	Database(s)
UNITEK ENVIRONMENTAL SERVICES	RCRA-TSDF, CERC-NFRAP, CORRACTS, RCRA NonGen / NLR, FTTS, HIST FTTS, PADS, RAATS, MANIFEST, 2020 COR ACTION
KEEHI LAGOON CANOE FACILITY, INCRE	SHWS, ENG CONTROLS, INST CONTROL, RGA HWS
	SHWS, SPILLS, ENG CONTROLS, INST CONTROL, RGA HWS
	SHWS, RGA HWS
	SHWS, RGA HWS
FORMER KAPALAMA MILITARY RESERVATI	SHWS
	SHWS, RGA HWS
	SHWS, SPILLS, INST CONTROL, RGA HWS
KEEHI LAGOON CANOE FACILITY	CERCLIS, FINDS
PACIFIC RESOURCES, INCORPORATED (G	CERC-NFRAP
HAWAII MARITIME CENTER	RCRA NonGen / NLR, FINDS
KING SERVICE STATION	RCRA NonGen / NLR
ENERGY & ENVIRONMENT RESEARCH GROU	RCRA NonGen / NLR, FINDS
D O T HARBORS DIVISION	RCRA NonGen / NLR
CHILD DEVELOPMENT CENTER FY09-MCON	FINDS
SITE IMPROVEMENTS - PHASE 1	FINDS
	RGA LUST
	RGA LUST
	RGA LUST
	RGA LUST

OVERVIEW MAP - 3850125.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

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: Kalihi-Palama Health Center Site ADDRESS: 1040 Pua Lane Honolulu HI 96817 LAT/LONG: 21.3206 / 157.8658	CLIENT: PBR Hawaii CONTACT: Nathalie Razo INQUIRY #: 3850125.2s DATE: February 07, 2014 4:03 pm

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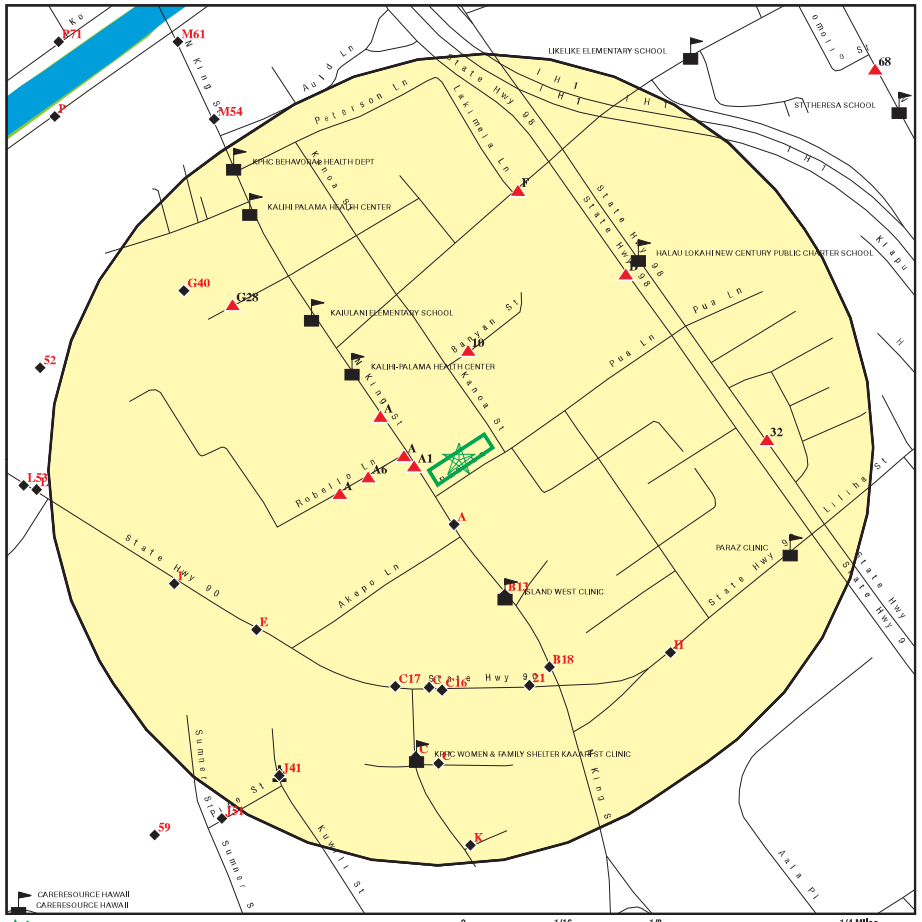
DETAIL MAP - 3850125.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

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: Kalihi-Palama Health Center Site ADDRESS: 1040 Pua Lane Honolulu HI 96817 LAT/LONG: 21.3206 / 157.8658	CLIENT: PBR Hawaii CONTACT: Nathalie Razo INQUIRY #: 3850125.2s DATE: February 07, 2014 4:03 pm

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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								
CERCLIS	0.500		0	0	2	NR	NR	2
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	1	0	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
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		3	4	NR	NR	NR	7
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	4	24	40	NR	68
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		2	8	25	NR	NR	35
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		4	11	NR	NR	NR	15

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
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	1	10	NR	NR	11
INST CONTROL	0.500		0	1	12	NR	NR	13
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	6	NR	NR	6
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
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								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST 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
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		2	4	NR	NR	NR	6
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	1	0	NR	1
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	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
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	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
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	1	1	0	NR	2
EDR US Hist Auto Stat	0.250		3	9	NR	NR	NR	12
EDR US Hist Cleaners	0.250		1	0	NR	NR	NR	1
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.500		0	0	0	NR	NR	0
RGA HWS	1.000		0	4	30	51	NR	85
RGA LUST	0.500		2	9	31	NR	NR	42

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
DOD Region SSW 1/4-1/2 2312 ft.	**SAND ISLAND MILITARY RESERVATION** **SAND ISLAND MILITARY RESE (County), HI**	**DOD**	**CUSA147757** **N/A**

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

A1 West < 1/8 0.010 mi. 54 ft.	**OLD WORLD PRODUCTS OF HI INC** **717 A NORTH KING ST** **HONOLULU, HI 96817**	**RCRA NonGen / NLR**	**1000136677** **HID982320301**

Site 1 of 11 in cluster A

Relative: Higher

Actual: 18 ft.

RCRA NonGen / NLR:

Date form received by agency:	03/16/1988
Facility name:	OLD WORLD PRODUCTS OF HI INC
Facility address:	717 A NORTH KING ST HONOLULU, HI 96817
EPA ID:	HID982320301
Contact:	ENVIRONMENTAL MANAGER
Contact address:	717 A NORTH KING ST HONOLULU, HI 96817
Contact country:	US
Contact telephone:	(808) 847-6434
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:	TOYAMA IVAN AND FAY
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

OLD WORLD PRODUCTS OF HI INC (Continued) **1000136677**

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: 12/19/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

A2
West
< 1/8
0.019 mi.
100 ft.

999 ROBELLO LN
HONOLULU, HI 96817

EDR US Hist Auto Stat **1015690957**
N/A

Site 2 of 11 in cluster A

Relative: Higher
Actual: 19 ft.

EDR Historical Auto Stations:
Name: ALOHA AUTO AIR CNDTNNG SPCLST
Year: 2001
Address: 999 ROBELLO LN

A3
West
< 1/8
0.019 mi.
100 ft.

PIONEER VENTURES INC
999 ROBELLO LN
HONOLULU, HI

RCRA NonGen / NLR **1000688451**
FINDS **HID984468330**

Site 3 of 11 in cluster A

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

PIONEER VENTURES INC (Continued) **1000688451**

Contact telephone: (808) 847-6521
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.

A4 South < 1/8 0.028 mi. 148 ft. — **KING SHELL FOODMART**, **666 N KING ST**, **HONOLULU, HI 96817** — **LUST**, **UST**, **Financial Assurance**, **RGA LUST** — **U001235340**, **N/A**

Site 4 of 11 in cluster A

Relative: Lower

Actual: 13 ft.

LUST:

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
Facility ID:	9-101026
Facility Status:	Site Cleanup Completed (NFA)
Facility Status Date:	07/08/2011
Release ID:	080030
Project Officer:	Shaobin Li

UST:

Facility ID:	9-101026
Owner:	ALOHA PETROLEUM, LTD.
Owner Address:	1132 BISHOP STREET, SUITE 1700
Ownder City,St,Zip:	Honolulu, 96817 96817
Tank ID:	87
Date Installed:	04/18/1984
Tank Status:	**Currently In Use**
Date Closed:	Not reported
Tank Capacity:	10000
Substance:	Gasoline
Tank ID:	89
Date Installed:	04/18/1984
Tank Status:	**Currently In Use**
Date Closed:	Not reported
Tank Capacity:	10000
Substance:	Diesel
Tank ID:	92
Date Installed:	04/18/1984
Tank Status:	**Currently In Use**
Date Closed:	Not reported
Tank Capacity:	10000
Substance:	Gasoline

HI Financial Assurance:

Alt Facility ID:	9-101026
Tank Id:	92
Tank Status:	Currently In Use

KING SHELL FOODMART (Continued) — **U001235340**

FRTYPE:	Other
Expiration Date:	Not reported
Alt Facility ID:	9-101026
Tank Id:	89
Tank Status:	Currently In Use
FRTYPE:	Other
Expiration Date:	Not reported
Alt Facility ID:	9-101026
Tank Id:	87
Tank Status:	Currently In Use
FRTYPE:	Other
Expiration Date:	Not reported
Alt Facility ID:	9-101026
Tank Id:	87
Tank Status:	Currently In Use
FRTYPE:	Insurance
Expiration Date:	04/01/2014
Alt Facility ID:	9-101026
Tank Id:	92
Tank Status:	Currently In Use
FRTYPE:	Insurance
Expiration Date:	04/01/2014
Alt Facility ID:	9-101026
Tank Id:	89
Tank Status:	Currently In Use
FRTYPE:	Insurance
Expiration Date:	04/01/2014

RGA LUST:

2012	KING SHELL FOODMART	666 N KING ST
2011	KING SHELL FOODMART	666 N KING ST
2010	GOOSE'S EDGE INC #139546	666 N KING ST
2009	GOOSE'S EDGE INC #139546	666 N KING ST
2008	GOOSE'S EDGE INC #139546	666 N KING ST
2007	GOOSE'S EDGE INC #139546	666 N KING ST
2006	LILIHA SHELL	666 N KING ST
2005	LILIHA SHELL	666 N KING ST
2004	NORTH KING SHELL	666 N KING ST
2003	NORTH KING SHELL	666 N KING ST

A5 South < 1/8 0.028 mi. 148 ft. — **KING STREET SHELL**, **666 N KING ST**, **HONOLULU, HI 96817** — **RCRA-CESQG** — **1009398532**, **HIR000137398**

Site 5 of 11 in cluster A

Relative: Lower

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

KING STREET SHELL (Continued) **1009398532**

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
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

KING STREET SHELL (Continued) **1009398532**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/27/2006
Facility name: KING STREET SHELL
Site name: SHELL OIL PRODUCTS SAP 139546
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018
Waste name: BENZENE

Violation Status: No violations found

A6 **NAKAMURA INVESTMENT GROUP** **UST** **U003221795**
WSW **979 ROBELLO LN** **Financial Assurance** **N/A**
< 1/8 **HONOLULU, HI 96800**
0.040 mi.
211 ft. **Site 6 of 11 in cluster A**

Relative:
Higher

Actual:
19 ft.

UST:
Facility ID: 9-102798
Owner: NAKAMURA INVESTMENT CORP
Owner Address: 1001 Dillingham Blvd. Suite 208
Ownder City,St,Zip: Honolulu, 96800 96800

Tank ID: R-1
Date Installed: 12/30/1960
Tank Status: Permanently Out of Use
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

A7
WNW
< 1/8
0.045 mi.
235 ft.

743 N KING ST
HONOLULU, HI 96817

EDR US Hist Auto Stat **1015623029**
N/A

Site 7 of 11 in cluster A

Relative:
Higher

Actual:
20 ft.

EDR Historical Auto Stations:

Name:	JP CHEVRON
Year:	2001
Address:	743 N KING ST
Name:	JP CHEVRON
Year:	2002
Address:	743 N KING ST
Name:	JP CHEVRON
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

A8
WNW
< 1/8
0.048 mi.
252 ft.

CHEVRON 99080
743 N KING ST
HONOLULU, HI 96817

RCRA-CESQG **1008880423**
HIR000137000

Site 8 of 11 in cluster A

Relative:
Higher

Actual:
20 ft.

RCRA-CESQG:

Date form received by agency:	09/16/2005
Facility name:	CHEVRON 99080
Facility address:	743 N KING ST 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 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

CHEVRON 99080 (Continued) **1008880423**

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

Hazardous Waste Summary:
- Waste code: D018
- Waste name: BENZENE

Violation Status: No violations found

A9 WNW < 1/8 0.048 mi. 252 ft. — **GENNESART CHEVRON - KING** — **UST** — **U003541724**
743 N KING ST — **Financial Assurance** — **N/A**
HONOLULU, HI 96817

Site 9 of 11 in cluster A

Relative: Higher

Actual: 20 ft.

UST:
- Facility ID: 9-101113
- Owner: CHEVRON PRODUCTS COMPANY
- Owner Address: P.O. Box 6004
- Ownder City,St,Zip: Honolulu, 96817 96817

Tank ID: 1
- 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

GENNESART CHEVRON - KING (Continued) **U003541724**

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
- 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

HI Financial Assurance:
- 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: 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
- Tank Status: Permanently Out of 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: 3
- Tank Status: Currently in Use

GENNESART CHEVRON - KING (Continued) **U003541724**

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: 04/20/2013

Alt Facility ID: 9-101113
Tank Id: R-5
Tank Status: Permanently Out of Use
FRTYPE: Guarantee
Expiration Date: 04/20/2013

Alt Facility ID: 9-101113
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Guarantee
Expiration Date: 04/20/2013

Alt Facility ID: 9-101113
Tank Id: 2
Tank Status: Currently in Use
FRTYPE: Guarantee
Expiration Date: 04/20/2013

Alt Facility ID: 9-101113
Tank Id: 1
Tank Status: Currently in Use
FRTYPE: Guarantee
Expiration Date: 04/20/2013

Alt Facility ID: 9-101113
Tank Id: 3
Tank Status: Currently in Use
FRTYPE: Guarantee
Expiration Date: 04/20/2013

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10 North < 1/8 0.056 mi. 296 ft. | **BANYAN STREET MANOR** | **RCRA-CESQG** | **1014389636**
1122 BANYAN ST | **HIR000139733**
HONOLULU, HI 96817

Relative: Higher

Actual: 20 ft.

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

BANYAN STREET MANOR (Continued) **1014389636**

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

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

BANYAN STREET MANOR (Continued) **1014389636**

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

Hazardous Waste Summary:
Waste code: D009
Waste name: MERCURY

Violation Status: No violations found

A11 WSW < 1/8 0.060 mi. 319 ft. **963 ROBELLO LN** **HONOLULU, HI 96817** **EDR US Hist Auto Stat** **1015685260** **N/A**

Site 10 of 11 in cluster A

Relative: Higher

Actual: 17 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
Address: 963 ROBELLO LN

Name: ZAKS AUTO & REPAIR
Year: 2008
Address: 963 ROBELLO LN

(Continued) **1015685260**

Name: MR MOTOR SERVICE
Year: 2009
Address: 963 ROBELLO LN

A12 WSW < 1/8 0.060 mi. 319 ft. **RICHARD TOM** **963 ROBELLO LN** **HONOLULU, HI 96817** **LUST** **UST** **Financial Assurance** **RGA LUST** **U003221678** **N/A**

Site 11 of 11 in cluster A

Relative: Higher

Actual: 17 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
Ownder City,St,Zip: Honolulu, 96817 96817

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-B
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

Alt Facility ID: 9-101574
Tank Id: R-A
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

RGA LUST:

2012	RICHARD TOM	963 ROBELLO LN
2011	RICHARD TOM	963 ROBELLO LN
2010	RICHARD TOM	963 ROBELLO LN
2009	RICHARD TOM	963 ROBELLO LN

RICHARD TOM (Continued) **U003221678**

2008	RICHARD TOM	963 ROBELLO LN
2007	RICHARD TOM	963 ROBELLO LN
2006	RICHARD TOM	963 ROBELLO LN
2005	RICHARD TOM	963 ROBELLO LN
2004	RICHARD TOM	963 ROBELLO LN
2003	RICHARD TOM	963 ROBELLO LN
2002	RICHARD TOM	963 ROBELLO LN
2001	RICHARD TOM	963 ROBELLO LN
2000	RICHARD TOM	963 ROBELLO LN
1999	RICHARD TOM	963 ROBELLO LN

B13 **EDR US Hist Cleaners** **1015080184**
SSE **607 N KING ST** **N/A**
< 1/8 **HONOLULU, HI 96817**
0.084 mi.
445 ft. **Site 1 of 2 in cluster B**

Relative:
Lower

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

C14 **EDR US Hist Auto Stat** **1015560067**
South **580 DILLINGHAM BLVD** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.133 mi.
703 ft. **Site 1 of 9 in cluster C**

Relative:
Lower

Actual:
8 ft.

EDR Historical Auto Stations:

Name:	AUTO DEATAI SHOP
Year:	2006
Address:	580 DILLINGHAM BLVD

C15 **YICK LUNG CO., INC.** **LUST** **U001235520**
South **580 DILLINGHAM BLVD** **UST** **N/A**
1/8-1/4 **HONOLULU, HI 96817** **RGA LUST**
0.133 mi.
703 ft. **Site 2 of 9 in cluster C**

Relative:
Lower

Actual:
8 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
Ownder City,St,Zip:	Honolulu, 96817 96817

YICK LUNG CO., INC. (Continued) **U001235520**

Tank ID:	R-1
Date Installed:	01/01/1960
Tank Status:	**Permanently Out of Use**
Date Closed:	Not reported
Tank Capacity:	1000
Substance:	Gasoline

RGA LUST:

2012	YICK LUNG CO., INC.	580 DILLINGHAM BLVD
2011	YICK LUNG CO., INC.	580 DILLINGHAM BLVD
2010	YICK LUNG CO., INC.	580 DILLINGHAM BLVD
2009	YICK LUNG CO., INC.	580 DILLINGHAM BLVD
2008	YICK LUNG CO., INC.	580 DILLINGHAM BLVD
2007	YICK LUNG CO., INC.	580 DILLINGHAM BLVD
2006	YICK LUNG CO., INC.	580 DILLINGHAM BLVD
2005	YICK LUNG CO., INC.	580 DILLINGHAM BLVD
2004	YICK LUNG CO., INC.	580 DILLINGHAM BLVD
2003	YICK LUNG CO., INC.	580 DILLINGHAM BLVD
2002	YICK LUNG CO., INC.	580 DILLINGHAM BLVD
2001	YICK LUNG CO., INC.	580 DILLINGHAM BLVD
2000	YICK LUNG CO., INC.	580 DILLINGHAM BLVD
1999	YICK LUNG CO., INC.	580 DILLINGHAM BLVD
1998	YICK LUNG CO., INC.	580 DILLINGHAM BLVD
1997	YICK LUNG CO., INC.	580 DILLINGHAM BLVD

C16 **TONY'S LIQUOR AND DELI** **UST** **U001235611**
South **581 DILLINGHAM BLVD** **Financial Assurance** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.135 mi.
712 ft. **Site 3 of 9 in cluster C**

Relative:
Lower

Actual:
8 ft.

UST:

Facility ID:	9-101873
Owner:	ALOHA PETROLEUM, LTD.
Owner Address:	1132 BISHOP STREET, SUITE 1700
Ownder City,St,Zip:	Honolulu, 96817 96817
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

TONY'S LIQUOR AND DELI (Continued) **U001235611**

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

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-4
Tank Status: Permanently Out of 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-2
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

TONY'S LIQUOR AND DELI (Continued) **U001235611**

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-2
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 04/01/2013

Alt Facility ID: 9-101873
Tank Id: 92
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 04/01/2013

Alt Facility ID: 9-101873
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 04/01/2013

Alt Facility ID: 9-101873
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 04/01/2013

Alt Facility ID: 9-101873
Tank Id: 87
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 04/01/2013

Alt Facility ID: 9-101873
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 04/01/2013

C17 **YICK LUNG CO., INC.** **LUST** **U001235519**
SSW **602 DILLINGHAM BLVD** **UST** **N/A**
1/8-1/4 **HONOLULU, HI 96817** **RGA LUST**
0.135 mi.
714 ft. **Site 4 of 9 in cluster C**

Relative:
Lower

Actual:
9 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

UST:
Facility ID: 9-101499

YICK LUNG CO., INC. (Continued) **U001235519**

Owner: YICK LUNG CO., INC.
Owner Address: 580 DILLINGHAM BLVD
Ownder City,St,Zip: Honolulu, 96817 96817

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

RGA LUST:

2012	YICK LUNG CO., INC.	602 DILLINGHAM BLVD
2011	YICK LUNG CO., INC.	602 DILLINGHAM BLVD
2010	YICK LUNG CO., INC.	602 DILLINGHAM BLVD
2009	YICK LUNG CO., INC.	602 DILLINGHAM BLVD
2008	YICK LUNG CO., INC.	602 DILLINGHAM BLVD
2007	YICK LUNG CO., INC.	602 DILLINGHAM BLVD
2006	YICK LUNG CO., INC.	602 DILLINGHAM BLVD
2005	YICK LUNG CO., INC.	602 DILLINGHAM BLVD
2004	YICK LUNG CO., INC.	602 DILLINGHAM BLVD
2003	YICK LUNG CO., INC.	602 DILLINGHAM BLVD
2002	YICK LUNG CO., INC.	602 DILLINGHAM BLVD
2001	YICK LUNG CO., INC.	602 DILLINGHAM BLVD
2000	YICK LUNG CO., INC.	602 DILLINGHAM BLVD
1999	YICK LUNG CO., INC.	602 DILLINGHAM BLVD
1998	YICK LUNG CO., INC.	602 DILLINGHAM BLVD
1997	YICK LUNG CO., INC.	602 DILLINGHAM BLVD

B18 **EDR US Hist Auto Stat** **1015552125**
SSE **555 N KING ST** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.140 mi.
741 ft. **Site 2 of 2 in cluster B**

Relative:
Lower

Actual:
7 ft.

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
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

D19 **TOGUCHI SVC STATION LTD** **RCRA-CESQG** **1004688810**
NE **825 N VINEYARD BLVD** **FINDS** **HID981665466**
1/8-1/4 **HONOLULU, HI 96817**
0.141 mi.
742 ft. **Site 1 of 2 in cluster D**

Relative:
Higher

Actual:
23 ft.

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

TOGUCHI SVC STATION LTD (Continued) **1004688810**

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
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

TOGUCHI SVC STATION LTD (Continued) **1004688810**

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

D20 **RGA LUST** **S114431808**
NE **825 N VINEYARD BLVD** **N/A**
1/8-1/4 **HONOLULU, HI**
0.141 mi.
742 ft. **Site 2 of 2 in cluster D**

Relative:
Higher

Actual:
23 ft.

RGA LUST:

1999	TOGUCHI SERVICE STATION, LTD.	825 N VINEYARD BLVD
1998	TOGUCHI SERVICE STATION, LTD.	825 N VINEYARD BLVD

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21 **KINGSGATE PLAZA** **LUST** **U001235760**
SSE **516 DILLINGHAM BLVD** **UST** **N/A**
1/8-1/4 **HONOLULU, HI 96817** **RGA LUST**
0.145 mi.
765 ft.

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
Ownder City,St,Zip: Honolulu, 96817 96817

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

KINGSGATE PLAZA (Continued) **U001235760**

Tank Status: **Permanently Out of Use**
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

RGA LUST:

2012	KINGSGATE PLAZA	516 DILLINGHAM BLVD
2011	KINGSGATE PLAZA	516 DILLINGHAM BLVD
2010	KINGSGATE PLAZA	516 DILLINGHAM BLVD
2009	KINGSGATE PLAZA	516 DILLINGHAM BLVD
2008	KINGSGATE PLAZA	516 DILLINGHAM BLVD
2007	KINGSGATE PLAZA	516 DILLINGHAM BLVD
2006	KINGSGATE PLAZA	516 DILLINGHAM BLVD
2005	KINGSGATE PLAZA	516 DILLINGHAM BLVD
2004	KINGSGATE PLAZA	516 DILLINGHAM BLVD
2003	KINGSGATE PLAZA	516 DILLINGHAM BLVD
2002	KINGSGATE PLAZA	516 DILLINGHAM BLVD
2001	KINGSGATE PLAZA	516 DILLINGHAM BLVD
2000	KINGSGATE PLAZA	516 DILLINGHAM BLVD
1999	KINGSGATE PLAZA	516 DILLINGHAM BLVD
1998	KINGSGATE PLAZA	516 DILLINGHAM BLVD
1997	KINGSGATE PLAZA	516 DILLINGHAM BLVD
1993	KINGSGATE PLAZA	516 DILLINGHAM BLVD.

E22 **CUTTER DODGE AUTO SERVICE CENTER** **LUST** **U001235565**
SW **735 DILLINGHAM BLVD** **UST** **N/A**
1/8-1/4 **HONOLULU, HI 96817** **RGA LUST**
0.152 mi.
805 ft. **Site 1 of 4 in cluster E**

Relative: **Lower**
Actual: **10 ft.**

LUST:
Facility ID: 9-101718
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 10/24/1995

CUTTER DODGE AUTO SERVICE CENTER (Continued) **U001235565**

Release ID: 950111
Project Officer: Eric Sadoyama

UST:
Facility ID: 9-101718
Owner: ATLAS PACIFIC
Owner Address: 735 DILLINGHAM BLVD
Ownder City,St,Zip: Honolulu, 96817 96817

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

RGA LUST:

2012	CUTTER DODGE AUTO SERVICE CENTER	735 DILLINGHAM BLVD
2011	CUTTER DODGE AUTO SERVICE CENTER	735 DILLINGHAM BLVD
2010	CUTTER DODGE AUTO SERVICE CENTER	735 DILLINGHAM BLVD
2009	CUTTER DODGE AUTO SERVICE CENTER	735 DILLINGHAM BLVD
2008	CUTTER DODGE AUTO SERVICE CENTER	735 DILLINGHAM BLVD
2007	CUTTER DODGE AUTO SERVICE CENTER	735 DILLINGHAM BLVD
2006	CUTTER DODGE AUTO SERVICE CENTER	735 DILLINGHAM BLVD
2005	CUTTER DODGE AUTO SERVICE CENTER	735 DILLINGHAM BLVD
2004	CUTTER DODGE AUTO SERVICE CENTER	735 DILLINGHAM BLVD
2003	CUTTER DODGE AUTO SERVICE CENTER	735 DILLINGHAM BLVD
2002	CUTTER DODGE AUTO SERVICE CENTER	735 DILLINGHAM BLVD
2001	CUTTER DODGE AUTO SERVICE CENTER	735 DILLINGHAM BLVD
2000	CUTTER DODGE AUTO SERVICE CENTER	735 DILLINGHAM BLVD
1999	CUTTER DODGE AUTO SERVICE CENTER	735 DILLINGHAM BLVD
1998	CUTTER DODGE AUTO SERVICE CENTER	735 DILLINGHAM BLVD
1997	CUTTER DODGE AUTO SERVICE CENTER	735 DILLINGHAM BLVD

E23 **EDR US Hist Auto Stat** **1015620508**
SW **735 DILLINGHAM BLVD** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.152 mi.
805 ft. **Site 2 of 4 in cluster E**

Relative: **Lower**
Actual: **10 ft.**

EDR Historical Auto Stations:
Name: CUTTER AUTOMOTIVE TEAM
Year: 2004
Address: 735 DILLINGHAM BLVD

E24 **CUTTER DODGE INC** **RCRA-CESQG** **1000334051**
SW **735 DILLINGHAM BLVD** **FINDS** **HID982354078**
1/8-1/4 **HONOLULU, HI 96817**
0.152 mi.
805 ft. **Site 3 of 4 in cluster E**

Relative: **Lower**
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

CUTTER DODGE INC (Continued) **1000334051**

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
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

CUTTER DODGE INC (Continued) **1000334051**

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: 110001323087

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

E25 **RGA HWS** **S114473085**
SW **735 DILLINGHAM BLVD** **N/A**
1/8-1/4 **HONOLULU, HI**
0.152 mi.
805 ft. **Site 4 of 4 in cluster E**

Relative:
Lower

RGA HWS:

2008	CUTTER DODGE DILLINGHAM	735 DILLINGHAM BLVD
2006	CUTTER DODGE DILLINGHAM	735 DILLINGHAM BLVD
2005	CUTTER DODGE DILLINGHAM	735 DILLINGHAM BLVD

Actual:
10 ft.

F26 NNE 1/8-1/4 0.162 mi. 854 ft.

Relative: Higher

Actual: 20 ft.

TESORO HAWAII #22
1311 PALAMA ST
HONOLULU, HI 96817

Site 1 of 2 in cluster F

LUST
UST
Financial Assurance
RGA LUST

U003221598
N/A

LUST:
Facility ID: 9-100348
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 01/29/1998
Release ID: 980039
Project Officer: Steven Okoji

UST:
Facility ID: 9-100348
Owner: TESORO HAWAII CORPORATION
Owner Address: 1311 Palama Street
Ownder City,St,Zip: Honolulu, 96817 96817

Tank ID: 8
Date Installed: 07/01/1999
Tank Status: Currently In Use
Date Closed: Not reported
Tank Capacity: 5000
Substance: Diesel

Tank ID: 87
Date Installed: 07/01/1999
Tank Status: Currently In Use
Date Closed: Not reported
Tank Capacity: 12000
Substance: Gasoline

Tank ID: 92
Date Installed: 07/01/1999
Tank Status: Currently In Use
Date Closed: Not reported
Tank Capacity: 12000
Substance: Gasoline

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

TESORO HAWAII #22 (Continued) **U003221598**

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

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-2
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

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: 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: R-3
Tank Status: Permanently Out of Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100348
Tank Id: 92
Tank Status: Currently In Use

TESORO HAWAII #22 (Continued) **U003221598**

FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100348
Tank Id: 8
Tank Status: Currently In Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100348
Tank Id: 87
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: Guarantee
Expiration Date: 03/29/2013

Alt Facility ID: 9-100348
Tank Id: 87
Tank Status: Currently In 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: 92
Tank Status: Currently In Use
FRTYPE: Guarantee
Expiration Date: 03/29/2013

Alt Facility ID: 9-100348
Tank Id: 8
Tank Status: Currently In 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

TESORO HAWAII #22 (Continued) **U003221598**

Alt Facility ID: 9-100348
Tank Id: R-5
Tank Status: Permanently Out of Use
FRTYPE: Guarantee
Expiration Date: 03/29/2013

RGA LUST:

2012	TESORO HAWAII #22	1311 PALAMA ST
2011	TESORO HAWAII #22	1311 PALAMA ST
2010	TESORO HAWAII #22	1311 PALAMA ST
2009	TESORO HAWAII #22	1311 PALAMA ST
2008	TESORO HAWAII #22	1311 PALAMA ST
2007	TESORO HAWAII #22	1311 PALAMA ST
2006	TESORO HAWAII #22	1311 PALAMA ST
2005	TESORO HAWAII #22	1311 PALAMA ST
2004	TESORO HAWAII #22	1311 PALAMA ST
2003	TESORO HAWAII #22	1311 PALAMA ST
2002	TESORO HAWAII #22	1311 PALAMA ST
2001	TESORO HAWAII #22	1311 PALAMA ST
2000	TESORO HAWAII #22	1311 PALAMA ST

F27 **EDR US Hist Auto Stat** **1015205068**
NNE **1311 PALAMA ST** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.162 mi.
854 ft. **Site 2 of 2 in cluster F**

Relative: Higher
Actual: 20 ft.

EDR Historical Auto Stations:
Name: TESORO HAWAII CORP
Year: 2004
Address: 1311 PALAMA ST

Name: TESORO HAWAII CORP
Year: 2005
Address: 1311 PALAMA ST

Name: TESORO
Year: 2009
Address: 1311 PALAMA ST

Name: TESORO
Year: 2010
Address: 1311 PALAMA ST

G28 **CLEE LTD ASSOCIATE CHEMICAL** **RCRA NonGen / NLR** **1000197419**
NW **930 AUSTIN LANE** **FINDS** **HID982402695**
1/8-1/4 **HONOLULU, HI**
0.169 mi.
891 ft. **Site 1 of 2 in cluster G**

Relative: Higher
Actual: 17 ft.

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

CLEE LTD ASSOCIATE CHEMICAL (Continued) **1000197419**

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

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
Facility name: CLEE LTD ASSOCIATE CHEMICAL
Classification: Not a generator, verified

Facility Has Received Notices of Violations:
Regulation violated: F - 263

CLEE LTD ASSOCIATE CHEMICAL (Continued) **1000197419**

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
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

CLEE LTD ASSOCIATE CHEMICAL (Continued) **1000197419**

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

Environmental Interest/Information System
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STATE MASTER

H29
SE
1/8-1/4
0.178 mi.
941 ft.

KUKUI GARDENS **SHWS** **S113230468**
1103 LILIHA ST **N/A**
HONOLULU, HI

Site 1 of 2 in cluster H

Relative:
Lower

Actual:
8 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	Kukui Gardens
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Program:	Consultation
Project Manager:	Fenix Grange
Hazard Priority:	Not reported
Potential Hazards And Controls:	Hazard Undetermined
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Kukui Gardens
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Progran Name:	Consultation
Potential Hazard And Controls:	Hazard Undetermined
Priority:	Not reported
Assessment:	Response Not Necessary
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

KUKUI GARDENS (Continued) **S113230468**

Site Closure Type: None - Phase I Only
Document Date: 12/09/2009
Document Number: 2009-815-FG
Document Subject: Kukui Gardens NEPA Inquiry
Project Manager: Fenix Grange
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

H30
SE
1/8-1/4
0.178 mi.
941 ft.

KUKUI GARDENS MAKAI **RCRA-CESQG** **1012178249**
1103 LILIHA ST **HIR000139048**
HONOLULU, HI 96817

Site 2 of 2 in cluster H

Relative:
Lower

Actual:
8 ft.

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
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

KUKUI GARDENS MAKAI (Continued) **1012178249**

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

Hazardous Waste Summary:
Waste code: D009
Waste name: MERCURY

Violation Status: No violations found

C31
South
1/8-1/4
0.179 mi.
946 ft.

Relative:
Lower

Actual:
7 ft.

546 KAAAHI ST
HONOLULU, HI

Site 5 of 9 in cluster C

SHWS **S106820929**
SPILLS **N/A**
ENG CONTROLS
INST CONTROL
RGA HWS

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
Organization: Not reported
Island: Oahu
Supplemental Location Text: Not reported
SDAR Environmental Interest Name: Von Hamm Textiles
HID Number: Not reported
Facility Registry Identifier: 110013773309
Lead Agency: HEER
Progran Name: State
Potential Hazard And Controls: Hazard Managed With Controls
Priority: NFA

(Continued) **S106820929**

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

HI SPILLS:
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.

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.

ENG CONTROLS:
Supplemental Location Text: Not reported
Zip Suffix: Not reported

(Continued) **S106820929**

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

RGA HWS:

2012	VON HAMM TEXTILES	546 KAAAHI ST
2009	VON HAMM TEXTILES	546 KAAAHI ST
2008	VON HAMM TEXTILES	546 KAAAHI ST
2006	VON HAMM TEXTILES	546 KAAAHI ST
2005	VON HAMM TEXTILES	546 KAAAHI ST

32
East
1/8-1/4
0.180 mi.
952 ft.

574 N VINEYARD BLVD
HONOLULU, HI 96817

EDR US Hist Auto Stat **1015558450**
N/A

Relative:
Higher

Actual:
29 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

C33
South
1/8-1/4
0.181 mi.
957 ft.

545 KAAAHI ST
HONOLULU, HI 96817

EDR US Hist Auto Stat **1015548104**
N/A

Site 6 of 9 in cluster C

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
Year: 2002
Address: 545 KAAAHI ST

(Continued) **1015548104**

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

C34
South
1/8-1/4
0.181 mi.
957 ft.

545 KAAAHI ST
HONOLULU, HI

SHWS **S111704825**
RGA HWS **N/A**

Site 7 of 9 in cluster C

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: Unassigned
Hazard Priority: Low
Potential Hazards And Controls: Hazard Undetermined
Organization: Not reported
Island: Oahu
Supplemental Location Text: Not reported
SDAR Environmental Interest Name: Nuuanu Auto Company LTD

(Continued) **S111704825**

HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Progran Name:	State
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:	Unassigned
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

RGA HWS:

2012 NUUANU AUTO COMPANY LTD 545 KAAAHI ST

C35 **EDR US Hist Auto Stat** **1015676017**
South **922 KAAMAHU PL** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.183 mi.
966 ft. **Site 8 of 9 in cluster C**

Relative:
Lower

Actual:
7 ft.

EDR Historical Auto Stations:

Name:	TESORO HAWAII CORP
Year:	2001
Address:	922 KAAMAHU PL

C36 **NAKAOKA PAINTING INC** **UST** **U001235134**
South **922 KAAMAHU PL** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.183 mi.
966 ft. **Site 9 of 9 in cluster C**

Relative:
Lower

Actual:
7 ft.

UST:

Facility ID:	9-100280
Owner:	NAKAOKA PAINTING, INC.
Owner Address:	922 KAAMAHU PL
Ownder City,St,Zip:	Honolulu, 96817 96817

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

NAKAOKA PAINTING INC (Continued) **U001235134**

Date Installed:	08/24/1969
Tank Status:	**Permanently Out of Use**
Date Closed:	Not reported
Tank Capacity:	1000
Substance:	Gasoline

I37 **DOLE IWILEI CANNERY** **LUST** **U001235209**
WSW **801 DILLINGHAM BLVD** **UST** **N/A**
1/8-1/4 **HONOLULU, HI 96817** **RGA LUST**
0.183 mi.
967 ft. **Site 1 of 3 in cluster I**

Relative:
Lower

Actual:
10 ft.

LUST:

Facility ID:	9-100746
Facility Status:	Site Cleanup Completed (NFA)
Facility Status Date:	08/12/1994
Release ID:	940172
Project Officer:	Rebecca Sciulli

UST:

Facility ID:	9-100746
Owner:	DOLE FOOD COMPANY HAWAII, INC
Owner Address:	1116 WHITMORE AVE
Ownder City,St,Zip:	Honolulu, 96817 96817

Tank ID:	R-C1
Date Installed:	05/07/1984
Tank Status:	**Permanently Out of Use**
Date Closed:	Not reported
Tank Capacity:	6380
Substance:	Gasoline

Tank ID:	R-C2
Date Installed:	05/07/1984
Tank Status:	**Permanently Out of Use**
Date Closed:	Not reported
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

DOLE IWILEI CANNERY (Continued) **U001235209**

Tank ID: R-C4
Date Installed: 08/04/1918
Tank Status: Permanently Out of Use
Date Closed: 01/01/1977
Tank Capacity: 100000
Substance: Other

RGA LUST:

2012	DOLE IWILEI CANNERY	801 DILLINGHAM BLVD
2011	DOLE IWILEI CANNERY	801 DILLINGHAM BLVD
2010	DOLE IWILEI CANNERY	801 DILLINGHAM BLVD
2009	DOLE IWILEI CANNERY	801 DILLINGHAM BLVD
2008	DOLE IWILEI CANNERY	801 DILLINGHAM BLVD
2007	DOLE IWILEI CANNERY	801 DILLINGHAM BLVD
2006	DOLE IWILEI CANNERY	801 DILLINGHAM BLVD
2005	DOLE IWILEI CANNERY	801 DILLINGHAM BLVD
2004	DOLE IWILEI CANNERY	801 DILLINGHAM BLVD
2003	DOLE IWILEI CANNERY	801 DILLINGHAM BLVD
2002	DOLE IWILEI CANNERY	801 DILLINGHAM BLVD
2001	DOLE IWILEI CANNERY	801 DILLINGHAM BLVD
2000	DOLE IWILEI CANNERY	801 DILLINGHAM BLVD
1999	DOLE IWILEI CANNERY	801 DILLINGHAM BLVD
1998	DOLE IWILEI CANNERY	801 DILLINGHAM BLVD
1997	DOLE IWILEI CANNERY	801 DILLINGHAM BLVD

I38
WSW
1/8-1/4
0.183 mi.
967 ft.

DOLE PINEAPPLE CANNERY **CERC-NFRAP** **1000197948**
801 DILLINGHAM BLVD. **RCRA NonGen / NLR** **HID981424385**
HONOLULU, HI 96817

Site 2 of 3 in cluster I

Relative:
Lower

Actual:
10 ft.

CERC-NFRAP:
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

DOLE PINEAPPLE CANNERY (Continued) **1000197948**

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
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

DOLE PINEAPPLE CANNERY (Continued) **1000197948**

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
Facility name: DOLE PACKAGED FOODS CO
Classification: Not a generator, verified

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

I39 / WSW / 1/8-1/4 / 0.183 mi. / 967 ft. — **SHWS / SPILLS / RGA HWS** — **S106816902 / N/A**

801 DILLINGHAM BLVD
HONOLULU, HI

Site 3 of 3 in cluster I

Relative: Lower

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: Medium
Potential Hazards And Controls: Hazard Present
Organization: Not reported
Island: Oahu
Supplemental Location Text: Not reported
SDAR Environmental Interest Name: Dole Cannery
HID Number: HID981424385
Facility Registry Identifier: 110002148729
Lead Agency: HEER
Progran Name: State
Potential Hazard And Controls: Hazard Present
Priority: Medium
Assessment: Assessment Ongoing
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: Not reported
Within Designated Areawide Contamination: Honolulu Harbor Iwilei Unit
Site Closure Type: Not reported
Document Date: Not reported

(Continued) **S106816902**

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: 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
File Under: Dole Food Company Hawaii

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

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

(Continued) **S106816902**

Result: SOSC NFA
File Under: Dole Food Company Hawaii

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19880907
HID Number: HID981424385
Facility Registry Id: 110002148729
Lead and Program: HEER EP&R
ER: Not reported
Units: IWILEI RD. 650 (DOLE PINEAPPLE) ammonia leak
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

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19880927
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 #1
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

Click this hyperlink while viewing on your computer to access
6 additional HI SPILLS: record(s) in the EDR Site Report.

RGA HWS:

2012	DOLE IWILEI	801 DILLINGHAM BLVD
2009	DOLE IWILEI	801 DILLINGHAM BLVD
2008	DOLE IWILEI	801 DILLINGHAM BLVD
2006	DOLE IWILEI	801 DILLINGHAM BLVD
2005	DOLE IWILEI	801 DILLINGHAM BLVD
2000	801 DILLINGHAM BLVD	

G40 **KAPALAMA WAREHOUSE** **UST** **U003154877**
WNW **922 AUSTIN LN** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.200 mi.
1054 ft. **Site 2 of 2 in cluster G**

Relative:
Lower

Actual:
12 ft.

UST:
Facility ID: 9-103250
Owner: KAPALAMA WAREHOUSE
Owner Address: 922 AUSTIN LANE
Ownder City,St,Zip: Honolulu, 96817 96817

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

J41 **HAWAIIAN GAS PRODUCTS LTD** **EDR MGP** **1008409006**
SSW **516-520 KUWILI ST** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.217 mi.
1148 ft. **Site 1 of 2 in cluster J**

Relative:
Lower

Actual:
7 ft.

Manufactured Gas Plants:
Alternate Name:GASPRO LTD. No additional information available

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K42 **EDR US Hist Auto Stat** **1015673162**
South **914 KAAAHI PL** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.238 mi.
1255 ft. **Site 1 of 7 in cluster K**

Relative:
Lower

Actual:
3 ft.

EDR Historical Auto Stations:
Name: X SEED AUTOWERKZ
Year: 2010
Address: 914 KAAAHI PL

K43 South 1/8-1/4 0.238 mi. 1255 ft. | **MAUNAWILI PRODUCE** | **RCRA NonGen / NLR** | **1000823298**
914 KAAAHI PL | **FINDS** | **HID984469627**
HONOLULU, HI 96817

Site 2 of 7 in cluster K

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

FINDS:

Registry ID: 110005728686

Environmental Interest/Information System

MAUNAWILI PRODUCE (Continued) | **1000823298**

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

K44 South 1/8-1/4 0.238 mi. 1255 ft. | **MAUNAWILI PRODUCE, INC.** | **LUST** | **U001235127**
914 KAAAHI PL | **UST** | **N/A**
HONOLULU, HI 96817 | **RGA LUST**

Site 3 of 7 in cluster K

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
Ownder City,St,Zip:	Honolulu, 96817 96817
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
Tank Capacity:	1000
Substance:	Diesel

RGA LUST:

2012	MAUNAWILI PRODUCE, INC.	914 KAAAHI PL
2011	MAUNAWILI PRODUCE, INC.	914 KAAAHI PL
2010	MAUNAWILI PRODUCE, INC.	914 KAAAHI PL
2009	MAUNAWILI PRODUCE, INC.	914 KAAAHI PL
2008	MAUNAWILI PRODUCE, INC.	914 KAAAHI PL
2007	MAUNAWILI PRODUCE, INC.	914 KAAAHI PL
2006	MAUNAWILI PRODUCE, INC.	914 KAAAHI PL
2005	MAUNAWILI PRODUCE, INC.	914 KAAAHI PL
2004	MAUNAWILI PRODUCE, INC.	914 KAAAHI PL
2003	MAUNAWILI PRODUCE, INC.	914 KAAAHI PL
2002	MAUNAWILI PRODUCE, INC.	914 KAAAHI PL
2001	MAUNAWILI PRODUCE, INC.	914 KAAAHI PL

MAUNAWILI PRODUCE, INC. (Continued) **U001235127**

2000	MAUNAWILI PRODUCE, INC.	914 KAAAHI PL
1999	MAUNAWILI PRODUCE, INC.	914 KAAAHI PL
1998	MAUNAWILI PRODUCE, INC.	914 KAAAHI PL
1997	MAUNAWILI PRODUCE, INC.	914 KAAAHI PL
1993	MAUNAWILI PRODUCE, INC.	914 KAAAHI PL.

K45 South 1/8-1/4 0.238 mi. 1259 ft. — **MAUNAWILI PRODUCE** — **LUST** **U001235527**
906 KAAAHI PL — **UST** **N/A**
HONOLULU, HI 96817 — **RGA LUST**

Site 4 of 7 in cluster K

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
Ownder City,St,Zip:	Honolulu, 96817 96817
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

RGA LUST:

2012	MAUNAWILI PRODUCE	906 KAAAHI PL
2011	MAUNAWILI PRODUCE	906 KAAAHI PL
2010	MAUNAWILI PRODUCE	906 KAAAHI PL
2009	MAUNAWILI PRODUCE	906 KAAAHI PL
2008	MAUNAWILI PRODUCE	906 KAAAHI PL
2007	MAUNAWILI PRODUCE	906 KAAAHI PL
2006	MAUNAWILI PRODUCE	906 KAAAHI PL
2005	MAUNAWILI PRODUCE	906 KAAAHI PL
2004	MAUNAWILI PRODUCE	906 KAAAHI PL
2003	MAUNAWILI PRODUCE	906 KAAAHI PL
2002	MAUNAWILI PRODUCE	906 KAAAHI PL
2001	MAUNAWILI PRODUCE	906 KAAAHI PL
2000	MAUNAWILI PRODUCE	906 KAAAHI PL
1999	MAUNAWILI PRODUCE	906 KAAAHI PL

K46 South 1/8-1/4 0.238 mi. 1259 ft. — **R & G TRUCKING** — **RCRA NonGen / NLR** **1000114936**
906 KAAAHI PLACE — **FINDS** **HID069804755**
HONOLULU, HI

Site 5 of 7 in cluster K

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
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

R & G TRUCKING (Continued) **1000114936**

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
Facility 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
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

R & G TRUCKING (Continued) **1000114936**

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
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

K47 **EDR US Hist Auto Stat** **1015673481**
South **915 KAAAHI PL** **N/A**
1/8-1/4 **HONOLULU, HI 96817**
0.239 mi.
1264 ft. **Site 6 of 7 in cluster K**

Relative:
Lower

Actual:
3 ft.

EDR Historical Auto Stations:

Name:	SIGS COLLISION CENTER HONOLULU
Year:	2011
Address:	915 KAAAHI PL
Name:	SIGS COLLISION CENTER HONOLULU
Year:	2012
Address:	915 KAAAHI PL

K48 **ALOHA FENDER INC** **RCRA-CESQG** **1000823317**
South **915 KAAAHI PL** **FINDS** **HID984469817**
1/8-1/4 **HONOLULU, HI 96817**
0.239 mi.
1264 ft. **Site 7 of 7 in cluster K**

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

ALOHA FENDER INC (Continued) **1000823317**

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:	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

L49 West 1/4-1/2 0.258 mi. 1362 ft. — **PIER 51 HONOLULU HARBOR, OIL/DIESEL LEAK TO OCEAN**, **925 DILLINGHAM BLVD**, **HONOLULU, HI**, **Site 1 of 4 in cluster L**

FINDS **SHWS** **ENG CONTROLS** **INST CONTROL** **VCP** **RGA HWS**

1006819934 **N/A**

Relative: Lower

Actual: 7 ft.

FINDS:

Registry ID: 110013778055

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.

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Sprint Lot
HID Number:	Not reported
Facility Registry Identifier:	110013778055
Lead Agency:	HEER
Progran Name:	Voluntary Response Program
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

PIER 51 HONOLULU HARBOR, OIL/DIESEL LEAK TO OCEAN (Continued) **1006819934**

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

RGA HWS:

2012	SPRINT PCS CALL CENTER	925 DILLINGHAM BLVD
2009	SPRINT PCS CALL CENTER	925 DILLINGHAM BLVD
2008	SPRINT PCS CALL CENTER	925 DILLINGHAM BLVD
2006	SPRINT PCS CALL CENTER	925 DILLINGHAM BLVD
2005	COSTCO GAS STATION	925 DILLINGHAM BLVD
2005	SPRINT PCS CALL CENTER	925 DILLINGHAM BLVD

L50 West 1/4-1/2 0.258 mi. 1362 ft. — **SPRINT LOT**, **925 DILLINGHAM BLVD**, **HONOLULU, HI 96817**, **Site 2 of 4 in cluster L**

LUST **UST** **RGA LUST**

U003914036 **N/A**

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
Ownder City,St,Zip:	Honolulu, 96817 96817
Tank ID:	R-1
Date Installed:	Not reported

SPRINT LOT (Continued) **U003914036**

Tank Status: **Permanently Out of Use**
Date Closed: 01/01/1984
Tank Capacity: Not reported
Substance: Not Listed

RGA LUST:

2012	SPRINT LOT	925 DILLINGHAM BLVD
2011	SPRINT LOT	925 DILLINGHAM BLVD
2010	SPRINT LOT	925 DILLINGHAM BLVD
2009	SPRINT LOT	925 DILLINGHAM BLVD
2008	SPRINT LOT	925 DILLINGHAM BLVD
2007	SPRINT LOT	925 DILLINGHAM BLVD
2006	SPRINT LOT	925 DILLINGHAM BLVD
2005	SPRINT LOT	925 DILLINGHAM BLVD
2004	SPRINT LOT	925 DILLINGHAM BLVD
2003	SPRINT LOT	925 DILLINGHAM BLVD

J51 **TRAVEL PLAZA TRANSPORTATION, LLC** **SHWS** **U003154753**
SSW **818 PINE ST** **LUST** **N/A**
1/4-1/2 **HONOLULU, HI 96817** **UST**
0.261 mi. **RGA HWS**
1378 ft. **Site 2 of 2 in cluster J** **Financial Assurance**
RGA LUST

Relative:
Lower

Actual:
7 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	Travel Plaza Transportation, LLC
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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Travel Plaza Transportation, LLC
HID Number:	Not reported
Facility Registry Identifier:	110005728061
Lead Agency:	HEER
Progran Name:	State
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

TRAVEL PLAZA TRANSPORTATION, LLC (Continued) **U003154753**

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
Ownder City,St,Zip: Honolulu, 96817 96817

Tank ID: 1A
Date Installed: 09/01/1996
Tank Status: **Currently In Use**
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

TRAVEL PLAZA TRANSPORTATION, LLC (Continued) **U003154753**

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

RGA HWS:

2012	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST
2009	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST
2008	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST
2006	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST
2005	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST

HI Financial Assurance:
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: 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

Alt Facility ID: 9-102991
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Not reported
Expiration Date: Not reported

Alt Facility ID: 9-102991
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Not reported
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

TRAVEL PLAZA TRANSPORTATION, LLC (Continued) **U003154753**

Alt Facility ID: 9-102991
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Not reported
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: Not reported
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: Not reported
Expiration Date: Not reported

Alt Facility ID: 9-102991
Tank Id: 1B
Tank Status: Currently In Use
FRTYPE: Not reported
Expiration Date: Not reported

Alt Facility ID: 9-102991
Tank Id: 2
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 07/01/2013

Alt Facility ID: 9-102991
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 07/01/2013

Alt Facility ID: 9-102991
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 07/01/2013

Alt Facility ID: 9-102991
Tank Id: 1B
Tank Status: Currently In Use

TRAVEL PLAZA TRANSPORTATION, LLC (Continued) **U003154753**

FRTYPE: Insurance
Expiration Date: 07/01/2013

Alt Facility ID: 9-102991
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 07/01/2013

Alt Facility ID: 9-102991
Tank Id: 1A
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 07/01/2013

RGA LUST:

2012	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST
2011	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST
2010	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST
2009	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST
2008	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST
2007	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST
2006	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST
2005	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST
2004	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST
2003	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST
2002	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST
2001	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST
2000	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST
1999	TRAVEL PLAZA TRANSPORTATION, LLC	818 PINE ST
1998	TRAVEL PLAZA TRANSPORTATION, INC	818 PINE ST
1997	TRAVEL PLAZA TRANSPORTATION, INC	818 PINE ST
1995	TRAVEL PLAZA TRANSPORTATION, INC	818 PINE ST

52
WNW
1/4-1/2
0.264 mi.
1395 ft.

HONOLULU COMMUNITY COLLEGE **LUST** **U004109517**
DILLINGHAM BLVD **UST** **N/A**
HONOLULU, HI 96817 **RGA LUST**

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

UST:
Facility ID: 9-103285
Owner: STATE U.H. - HONOLULU COMMUNITY COLLEGE
Owner Address: 874 DILLINGHAM BLVD
Ownder City,St,Zip: Honolulu, 96817 96817

Tank ID: R-1
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: 12/01/1982
Tank Capacity: Not reported

HONOLULU COMMUNITY COLLEGE (Continued) **U004109517**

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

RGA LUST:

2012	HONOLULU COMMUNITY COLLEGE	DILLINGHAM BLVD
2011	HONOLULU COMMUNITY COLLEGE	DILLINGHAM BLVD
2010	HONOLULU COMMUNITY COLLEGE	DILLINGHAM BLVD
2009	HONOLULU COMMUNITY COLLEGE	DILLINGHAM BLVD
2008	HONOLULU COMMUNITY COLLEGE	DILLINGHAM BLVD
2007	HONOLULU COMMUNITY COLLEGE	DILLINGHAM BLVD
2006	HONOLULU COMMUNITY COLLEGE	DILLINGHAM BLVD
2005	HONOLULU COMMUNITY COLLEGE	DILLINGHAM BLVD
2004	HONOLULU COMMUNITY COLLEGE	DILLINGHAM BLVD
2003	HONOLULU COMMUNITY COLLEGE	DILLINGHAM BLVD
2002	HONOLULU COMMUNITY COLLEGE	DILLINGHAM BLVD
2001	HONOLULU COMMUNITY COLLEGE	DILLINGHAM BLVD
2000	HONOLULU COMMUNITY COLLEGE	DILLINGHAM BLVD
1999	HONOLULU COMMUNITY COLLEGE	DILLINGHAM BLVD
1998	HONOLULU COMMUNITY COLLEGE	DILLINGHAM BLVD

L53
West
1/4-1/2
0.266 mi.
1407 ft.

935 DILLINGHAM BLVD **SHWS** **S109096031**
HONOLULU, HI **ENG CONTROLS** **N/A**
INST CONTROL
RGA HWS

Site 3 of 4 in cluster L

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

(Continued) **S109096031**

Project Manager:	Kelton Otsuka
Hazard Priority:	Low
Potential Hazards And Controls:	Hazard Managed With Controls
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Theo Davies Caterpillar Repair Site
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Progran Name:	State
Potential Hazard And Controls:	Hazard Managed With Controls
Priority:	Low
Assessment:	Response Necessary
Response:	Response Ongoing
Nature of Contamination:	Found: TPH -g,d methane in soil and soil vapor
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:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Kelton Otsuka
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

RGA HWS:

2012	THEO DAVIES CATERPILLAR REPAIR SITE	935 DILLINGHAM BLVD
2009	THEO DAVIES CATERPILLAR REPAIR SITE	935 DILLINGHAM BLVD
2008	THEO DAVIES CATERPILLAR REPAIR SITE	935 DILLINGHAM BLVD

M54 **MAHALO NORTH KING AUTO** **LUST** **U001235167**
NW **1010 N KING ST** **UST** **N/A**
1/4-1/2 **HONOLULU, HI 96817** **Financial Assurance**
0.270 mi. **RGA LUST**
1427 ft. **Site 1 of 2 in cluster M**

Relative:
Lower

Actual:
10 ft.

LUST:

Facility ID:	9-100339
Facility Status:	Site Cleanup Completed (NFA)
Facility Status Date:	03/30/1999
Release ID:	980145
Project Officer:	Shunsheng Fu

Facility ID:	9-100339
Facility Status:	Site Cleanup Completed with EHMP
Facility Status Date:	09/03/2008
Release ID:	080009
Project Officer:	Shunsheng Fu

UST:

Facility ID:	9-100339
Owner:	ALOHA PETROLEUM, LTD.
Owner Address:	1132 Bishop Street, Suite 1700
Ownder City,St,Zip:	Honolulu, 96817 96817

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

Tank ID:	R-5
Date Installed:	02/07/1964

MAHALO NORTH KING AUTO (Continued) **U001235167**

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
Tank Id: R-6
Tank Status: Permanently Out of Use

MAHALO NORTH KING AUTO (Continued) **U001235167**

FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-100339
Tank Id: R-6
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-92
Tank Status: Permanently out of Use
FRTYPE: Insurance
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-89
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-87B
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-1
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: Not reported

MAHALO NORTH KING AUTO (Continued) **U001235167**

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
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: Other
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-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-5
Tank Status: Permanently Out of Use

MAHALO NORTH KING AUTO (Continued) **U001235167**

FRTYPE: Other
Expiration Date: Not reported

RGA LUST:

2012	MAHALO NORTH KING AUTO	1010 N KING ST
2011	MAHALO NORTH KING AUTO	1010 N KING ST
2010	MAHALO NORTH KING AUTO	1010 N KING ST
2009	MAHALO NORTH KING AUTO	1010 N KING ST
2008	MAHALO NORTH KING AUTO	1010 N KING ST
2007	MAHALO NORTH KING AUTO	1010 N KING ST
2006	MAHALO NORTH KING AUTO	1010 N KING ST
2005	CENTURY MOTORS #12797	1010 N KING ST
2004	CENTURY MOTORS #12797	1010 N KING ST
2003	MAHALO EXPRESS KING #12797	1010 N KING ST
2002	ARCO 82110	1010 N KING ST
2001	ARCO 82110	1010 N KING ST
2000	ARCO 82110	1010 N KING ST
1999	ARCO 82110	1010 N KING ST
1998	TEXACO STATION	1010 N KING ST

L55 **SHWS** **1006820629**
West **874 DILLINGHAM BLVD** **RGA HWS** **N/A**
1/4-1/2 **HONOLULU, HI**
0.278 mi.
1469 ft. **Site 4 of 4 in cluster L**

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Honolulu Community College
SDAR Environmental Interest Name:	Honolulu Community College Gas Station
HID Number:	Not reported
Facility Registry Identifier:	110013786224
Lead Agency:	HEER
Progran Name:	State
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

(Continued) **1006820629**

Document Date: 02/08/2007
Document Number: 2007-092-SPM
Document Subject: No Further Action Required at Honolulu Community College Gas Station, 874 Dillingham Boulevard
Project Manager: Steve Mow
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

RGA HWS:

2012	HONOLULU COMMUNITY COLLEGE GAS STATION	874 DILLINGHAM BLVD
2009	HONOLULU COMMUNITY COLLEGE GAS STATION	874 DILLINGHAM BLVD
2008	HONOLULU COMMUNITY COLLEGE GAS STATION	874 DILLINGHAM BLVD
2006	HONOLULU COMMUNITY COLLEGE GAS STATION	874 DILLINGHAM BLVD
2005	HONOLULU COMMUNITY COLLEGE GAS STATION	874 DILLINGHAM BLVD

N56
East
1/4-1/2
0.282 mi.
1489 ft.

1470 LILIHA ST
HONOLULU, HI

Site 1 of 2 in cluster N

Relative:
Higher

Actual:
38 ft.

SHWS **S104534167**
RGA HWS **N/A**

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Hall Mark Dry Cleaners
HID Number:	Not reported
Facility Registry Identifier:	110013790503
Lead Agency:	HEER
Program Name:	State
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

(Continued) **S104534167**

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

RGA HWS:

2012	HALL MARK DRY CLEANERS	1470 LILIHA ST
2009	HALL MARK DRY CLEANERS	1470 LILIHA ST
2008	HALL MARK DRY CLEANERS	1470 LILIHA ST
2006	HALL MARK DRY CLEANERS	1470 LILIHA ST
2005	HALL MARK DRY CLEANERS	1470 LILIHA ST
2000	1470 LILIHA ST	

N57
East
1/4-1/2
0.282 mi.
1489 ft.

1470 LILIHA ST
HONOLULU, HI

Site 2 of 2 in cluster N

Relative:
Higher

Actual:
38 ft.

RGA LUST **S114431506**
N/A

RGA LUST:

2006	HALL-MARK CLEANERS	1470 LILIHA ST
2005	HALL-MARK CLEANERS	1470 LILIHA ST
2004	HALL-MARK CLEANERS	1470 LILIHA ST
2003	HALL-MARK CLEANERS	1470 LILIHA ST
2002	HALL-MARK CLEANERS	1470 LILIHA ST
2001	HALL-MARK CLEANERS	1470 LILIHA ST
2000	HALL-MARK CLEANERS	1470 LILIHA ST
1999	HALL-MARK CLEANERS	1470 LILIHA ST
1998	HALL-MARK CLEANERS	1470 LILIHA ST
1997	HALL-MARK CLEANERS	1470 LILIHA ST
1995	HALL-MARK CLEANERS	1470 LILIHA ST
1993	HALL-MARK CLEANERS	1470 LILIHA ST

58
South
1/4-1/2
0.285 mi.
1506 ft.

ISLAND MOVERS, INC.
414 KUWILI STHONOLULU HARBOR PIER 42
HONOLULU, HI 96817

LUST **U003221626**
UST **N/A**
Financial Assurance
RGA LUST

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
Ownder City,St,Zip:	Honolulu, 96817 96817
Tank ID:	R-1
Date Installed:	05/28/1971
Tank Status:	**Permanently Out of Use**
Date Closed:	10/26/2000
Tank Capacity:	1000

ISLAND MOVERS, INC. (Continued) **U003221626**

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
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-4
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

RGA LUST:

2012 ISLAND MOVERS, INC. 414 KUWILI STHONOLULU HARBOR PIER 42

59 SW 1/4-1/2 0.296 mi. 1561 ft. **IWILEI BUSINESS CENTER** **SHWS** **S106817968**
501 SUMNER ST **SPILLS** **N/A**
HONOLULU, HI 96814 **INST CONTROL**
RGA HWS

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Iwilei Business Center
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Progran Name:	State
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

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
Units:	Del Monte/IBC Black Oil Tank
Substances:	Bunker C Oil
Less Or Greater Than:	Not reported
Numerical Quantity:	Not reported
Units:	Unknown

IWILEI BUSINESS CENTER (Continued) **S106817968**

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

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

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

RGA HWS:

2012	IWILEI BUSINESS CENTER	501 SUMNER ST
2009	IWILEI BUSINESS CENTER	501 SUMNER ST
2008	IWILEI BUSINESS CENTER	501 SUMNER ST
2006	IWILEI BUSINESS CENTER	501 SUMNER ST
2005	IWILEI BUSINESS CENTER	501 SUMNER ST

O60 **HONOLULU COMMUNITY ACTION PROGRAM** **LUST** **U001235598**
SSE **337 & 357 N KING ST** **UST** **N/A**
1/4-1/2 **HONOLULU, HI 96817** **RGA LUST**
0.307 mi.
1621 ft. **Site 1 of 2 in cluster O**

Relative:
Lower

Actual:
3 ft.

LUST:
Facility ID: 9-101814
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 08/12/2005
Release ID: 940111
Project Officer: Chad Pritchard

UST:
Facility ID: 9-101814
Owner: STATE DLNR
Owner Address: Not reported
Ownder City,St,Zip: Honolulu, 96817 96817

HONOLULU COMMUNITY ACTION PROGRAM (Continued) **U001235598**

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

RGA LUST:

2012	HONOLULU COMMUNITY ACTION PROGRA	337 & 357 N KING ST
2011	HONOLULU COMMUNITY ACTION PROGRA	337 & 357 N KING ST
2010	HONOLULU COMMUNITY ACTION PROGRA	337 & 357 N KING ST
2009	HONOLULU COMMUNITY ACTION PROGRA	337 & 357 N KING ST
2008	HONOLULU COMMUNITY ACTION PROGRA	337 & 357 N KING ST
2007	HONOLULU COMMUNITY ACTION PROGRA	337 & 357 N KING ST
2006	HONOLULU COMMUNITY ACTION PROGRA	337 & 357 N KING ST
2005	HONOLULU COMMUNITY ACTION PROGRA	337 & 357 N KING ST
2004	HONOLULU COMMUNITY ACTION PROGRA	337 & 357 N KING ST
2003	HONOLULU COMMUNITY ACTION PROGRA	337 & 357 N KING ST
2002	HONOLULU COMMUNITY ACTION PROGRA	337 & 357 N KING ST
2001	HONOLULU COMMUNITY ACTION PROGRA	337 & 357 N KING ST
2000	HONOLULU COMMUNITY ACTION PROGRA	337 & 357 N KING ST
1999	HONOLULU COMMUNITY ACTION PROGRA	337 & 357 N KING ST
1998	HONOLULU COMMUNITY ACTION PROGRA	337 & 357 N KING ST
1997	HONOLULU COMMUNITY ACTION PROGRA	337 & 357 N KING ST

M61
NW
1/4-1/2
0.326 mi.
1721 ft.

Relative:
Lower

Actual:
3 ft.

KING'S SERVICE — **LUST** — **U003541723**
1070 N KING ST — **UST** — **N/A**
HONOLULU, HI 96817 — **RGA LUST**

Site 2 of 2 in cluster M

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.
Ownder City,St,Zip:	Honolulu, 96817 96817

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
Tank Capacity:	1000
Substance:	Gasoline

KING'S SERVICE (Continued) — **U003541723**

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

RGA LUST:

2012	KING'S SERVICE	1070 N KING ST
2011	KING'S SERVICE	1070 N KING ST
2010	KING'S SERVICE	1070 N KING ST
2009	KING'S SERVICE	1070 N KING ST
2008	KING'S SERVICE	1070 N KING ST
2007	KING'S SERVICE	1070 N KING ST
2006	KING'S SERVICE	1070 N KING ST
2005	KING'S SERVICE	1070 N KING ST
2004	KING'S SERVICE	1070 N KING ST
2003	KING'S SERVICE	1070 N KING ST
2002	KING'S SERVICE	1070 N KING ST
2001	KING'S SERVICE	1070 N KING ST
2000	KING'S SERVICE	1070 N KING ST
1999	KING'S SERVICE	1070 N KING ST
1998	KING'S SERVICE	1070 N KING ST
1997	KING'S SERVICE	1070 N KING ST
1993	KING'S SERVICE	1070 N. KING ST.

P62 NW 1/4-1/2 0.338 mi. 1786 ft. — **JBL HAWAII LTD**, **905 KOKEA ST**, **HONOLULU, HI 96817** — **LUST** **UST** **RGA LUST** — **U001235921** **N/A**

Site 1 of 3 in cluster P

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
Ownder City,St,Zip:	Honolulu, 96817 96817
Tank ID:	R-1
Date Installed:	Not reported
Tank Status:	**Permanently Out of Use**
Date Closed:	10/19/1991
Tank Capacity:	1000
Substance:	Gasoline

RGA LUST:

2012	JBL HAWAII LTD	905 KOKEA ST
2011	JBL HAWAII LTD	905 KOKEA ST
2010	JBL HAWAII LTD	905 KOKEA ST
2009	JBL HAWAII LTD	905 KOKEA ST
2008	JBL HAWAII LTD	905 KOKEA ST
2007	JBL HAWAII LTD	905 KOKEA ST
2006	JBL HAWAII LTD	905 KOKEA ST
2005	JBL HAWAII LTD	905 KOKEA ST
2004	JBL HAWAII LTD	905 KOKEA ST
2003	JBL HAWAII LTD	905 KOKEA ST
2002	JBL HAWAII LTD	905 KOKEA ST
2001	JBL HAWAII LTD	905 KOKEA ST
2000	JBL HAWAII LTD	905 KOKEA ST
1999	JBL HAWAII LTD	905 KOKEA ST
1998	JBL HAWAII LTD	905 KOKEA ST
1997	JBL HAWAII LTD	905 KOKEA ST

P63 NW 1/4-1/2 0.338 mi. 1786 ft. — **JBL HAWAII, LTD**, **905 KOKEA ST**, **HONOLULU, HI 96817** — **SHWS** **ENG CONTROLS** **INST CONTROL** **RGA HWS** — **1006820832** **N/A**

Site 2 of 3 in cluster P

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

JBL HAWAII, LTD (Continued) — **1006820832**

Hazard Priority:	Low
Potential Hazards And Controls:	Hazard Managed With Controls
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	JBL Hawaii, Limited
HID Number:	Not reported
Facility Registry Identifier:	110013788473
Lead Agency:	HEER
Progran Name:	State
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 August 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

RGA HWS:

2012	JBL HAWAII, LTD	905 KOKEA ST
2009	JBL HAWAII, LTD	905 KOKEA ST
2008	JBL HAWAII, LTD	905 KOKEA ST
2006	JBL HAWAII, LTD	905 KOKEA ST
2005	JBL HAWAII, LTD	905 KOKEA ST
2000	905 KOKEA ST.	

Q64 South 1/4-1/2 0.343 mi. 1809 ft. — **STEELTECH INC**, **373 N NIMITZ HWY**, **HONOLULU, HI 96817** — **LUST**, **UST**, **RGA LUST** — **U003154735**, **N/A**

Site 1 of 3 in cluster Q

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
Ownder City,St,Zip:	Honolulu, 96817 96817

Tank ID:	R-1
Date Installed:	Not reported
Tank Status:	**Permanently Out of Use**
Date Closed:	06/08/1994
Tank Capacity:	1000
Substance:	Gasoline

RGA LUST:

2012	STEELTECH INC	373 N NIMITZ HWY
2011	STEELTECH INC	373 N NIMITZ HWY
2010	STEELTECH INC	373 N NIMITZ HWY
2009	STEELTECH INC	373 N NIMITZ HWY
2008	STEELTECH INC	373 N NIMITZ HWY
2007	STEELTECH INC	373 N NIMITZ HWY
2006	STEELTECH INC	373 N NIMITZ HWY
2005	STEELTECH INC	373 N NIMITZ HWY
2004	STEELTECH INC	373 N NIMITZ HWY
2003	STEELTECH INC	373 N NIMITZ HWY
2002	STEELTECH INC	373 N NIMITZ HWY
2001	STEELTECH INC	373 N NIMITZ HWY
2000	STEELTECH INC	373 N NIMITZ HWY
1999	STEELTECH INC	373 N NIMITZ HWY
1998	STEELTECH INC	373 N NIMITZ HWY
1997	STEELTECH INC	373 N NIMITZ HWY
1995	STEELTECH INC	373 N. NIMITZ HWY

Q65 South 1/4-1/2 0.343 mi. 1809 ft. — **373 N NIMITZ HWY**, **HONOLULU, HI** — **SHWS**, **SPILLS**, **RGA HWS** — **S106815507**, **N/A**

Site 2 of 3 in cluster Q

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	373 North Nimitz Highway
HID Number:	Not reported
Facility Registry Identifier:	110014030903
Lead Agency:	HEER
Progran Name:	State
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:	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

(Continued) **S106815507**

Assignment End Date: Not reported
Result: SOSC NFA
File Under: Harry and Jeanette Weinberg Foundation

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

RGA HWS:

2012	373 NORTH NIMITZ HIGHWAY	373 N NIMITZ HWY
2009	373 NORTH NIMITZ HIGHWAY	373 N NIMITZ HWY
2008	373 NORTH NIMITZ HIGHWAY	373 N NIMITZ HWY
2006	373 NORTH NIMITZ HIGHWAY	373 N NIMITZ HWY
2005	373 NORTH NIMITZ HIGHWAY	373 N NIMITZ HWY

Q66
South
1/4-1/2
0.343 mi.
1810 ft.

Relative:
Lower

Actual:
3 ft.

888 IWILEI RD
HONOLULU, HI

SHWS **S111704855**
INST CONTROL **N/A**
RGA HWS

Site 3 of 3 in cluster Q

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
Organization: Not reported
Island: Oahu
Supplemental Location Text: Not reported
SDAR Environmental Interest Name: Senior Residences at Iwilei
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Progran Name: State
Potential Hazard And Controls: Hazard Managed With Controls
Priority: NFA
Assessment: Response Necessary

(Continued) **S111704855**

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

RGA HWS:

2012	SENIOR RESIDENCES AT IWILEI	888 IWILEI RD

O67
SSE
1/4-1/2
0.347 mi.
1832 ft.

Relative:
Lower

Actual:
3 ft.

337 N KING ST
HONOLULU, HI

SHWS **1006819345**
RGA HWS **N/A**

Site 2 of 2 in cluster O

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
Organization: Not reported
Island: Oahu
Supplemental Location Text: Not reported
SDAR Environmental Interest Name: Liliha Civic Center
HID Number: Not reported
Facility Registry Identifier: 110013771365
Lead Agency: HEER
Progran Name: State
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

(Continued) **1006819345**

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

RGA HWS:

2012	LILIHA CIVIC CENTER	337 N KING ST
2009	LILIHA CIVIC CENTER	337 N KING ST
2008	LILIHA CIVIC CENTER	337 N KING ST
2006	LILIHA CIVIC CENTER	337 N KING ST
2005	LILIHA CIVIC CENTER	337 N KING ST

68
NE
1/4-1/2
0.352 mi.
1856 ft.

Relative:
Higher

Actual:
55 ft.

SNAPPY SERVICE **LUST** **U001235264**
719 N SCHOOL ST **UST** **N/A**
HONOLULU, HI 96817 **SPILLS**
RGA LUST

LUST:

Facility ID:	9-100858
Facility Status:	Monitored Natural Attenuation
Facility Status Date:	11/01/2003
Release ID:	900093
Project Officer:	Shunsheng Fu

UST:

Facility ID:	9-100858
Owner:	ROBERT S. FUJIWARA
Owner Address:	719 N SCHOOL ST
Ownder City,St,Zip:	Honolulu, 96817 96817

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

SNAPPY SERVICE (Continued) **U001235264**

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
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

RGA LUST:

2012	SNAPPY SERVICE	719 N SCHOOL ST
2011	SNAPPY SERVICE	719 N SCHOOL ST
2010	SNAPPY SERVICE	719 N SCHOOL ST
2009	SNAPPY SERVICE	719 N SCHOOL ST
2008	SNAPPY SERVICE	719 N SCHOOL ST
2007	SNAPPY SERVICE	719 N SCHOOL ST
2006	SNAPPY SERVICE	719 N SCHOOL ST
2005	SNAPPY SERVICE	719 N SCHOOL ST
2004	SNAPPY SERVICE	719 N SCHOOL ST
2003	SNAPPY SERVICE	719 N SCHOOL ST
2002	SNAPPY SERVICE	719 N SCHOOL ST
2001	SNAPPY SERVICE	719 N SCHOOL ST
2000	SNAPPY SERVICE	719 N SCHOOL ST
1999	SNAPPY SERVICE	719 N SCHOOL ST
1998	SNAPPY SERVICE	719 N SCHOOL ST
1997	SNAPPY SERVICE	719 N SCHOOL ST
1995	SNAPPY SERVICE	719 N. SCHOOL ST.

SNAPPY SERVICE (Continued) **U001235264**

1993 SNAPPY SERVICE 719 N. SCHOOL ST.

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69 ENE 1/4-1/2 0.356 mi. 1881 ft.

Relative: Higher

Actual: 44 ft.

LANCE GOYA CHEVRON **SHWS** **U003402822**
504 N SCHOOL ST **LUST** **N/A**
HONOLULU, HI 96817 **UST**
ENG CONTROLS
INST CONTROL
Financial Assurance
RGA LUST
RGA HWS

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Lance Goya's Chevron Service (Tom Tomita's Chevron)
HID Number:	Not reported
Facility Registry Identifier:	110013772541
Lead Agency:	HEER
Progran Name:	State
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 Che
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

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

Facility ID:	9-101259
Facility Status:	Site Cleanup Completed (NFA)
Facility Status Date:	02/15/2002
Release ID:	980240
Project Officer:	Shunsheng Fu

UST:

Facility ID:	9-101259
Owner:	CHEVRON PRODUCTS COMPANY
Owner Address:	91-480 MALAKOLE ST.
Ownder City,St,Zip:	Honolulu, 96817 96817

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

LANCE GOYA CHEVRON (Continued) **U003402822**

Tank ID: R-87
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

LANCE GOYA CHEVRON (Continued) **U003402822**

Supplemental Location: Not reported
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-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-T6
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: 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-T4
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
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-89
Tank Status: Permanently Out of Use

LANCE GOYA CHEVRON (Continued) **U003402822**

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-T5
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: Self Insured
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: 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

LANCE GOYA CHEVRON (Continued) **U003402822**

Alt Facility ID: 9-101259
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-87
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

Alt Facility ID: 9-101259
Tank Id: R-4A
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

RGA LUST:

2012	LANCE GOYA CHEVRON	504 N SCHOOL ST
2011	LANCE GOYA CHEVRON	504 N SCHOOL ST
2010	LANCE GOYA CHEVRON	504 N SCHOOL ST
2009	LANCE GOYA CHEVRON	504 N SCHOOL ST
2008	LANCE GOYA CHEVRON	504 N SCHOOL ST
2007	LANCE GOYA CHEVRON	504 N SCHOOL ST
2006	LANCE GOYA CHEVRON	504 N SCHOOL ST
2005	LANCE GOYA CHEVRON	504 N SCHOOL ST
2004	LANCE GOYA CHEVRON	504 N SCHOOL ST
2003	LANCE GOYA CHEVRON	504 N SCHOOL ST
2002	TOM TOMITA'S CHEVRON	504 N SCHOOL ST
2001	TOM TOMITA'S CHEVRON	504 N SCHOOL ST
2000	TOM TOMITA'S CHEVRON	504 N SCHOOL ST
1999	TOM TOMITA'S CHEVRON	504 N SCHOOL ST

RGA HWS:

2012 LANCE GOYA'S CHEVRON SERVICE (TOM TOMITA'S CHEVRON) 504 N SCHOOL ST
2009 LANCE GOYA'S CHEVRON SERVICE (TOM TOMITA'S CHEVRON) 504 N SCHOOL ST
2008 LANCE GOYA'S CHEVRON SERVICE (TOM TOMITA'S CHEVRON) 504 N SCHOOL ST
2006 LANCE GOYA'S CHEVRON SERVICE (TOM TOMITA'S CHEVRON) 504 N SCHOOL ST
2005 LANCE GOYA'S CHEVRON SERVICE (TOM TOMITA'S CHEVRON) 504 N SCHOOL ST

R70 South 1/4-1/2 0.361 mi. 1907 ft. — **IWILEI FRUIT AND VEGETABLE WAREHOUSE**, **920 IWILEI ROAD**, **HONOLULU, HI 96813** — **SHWS, LUST, UST, RGA LUST** — **U003858603, N/A**

Site 1 of 2 in cluster R

Relative: Lower

Actual: 3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Iwilei Fruits and Produce
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Progran Name:	State
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
Ownder City,St,Zip:	Honolulu, 96813 96813
Tank ID:	R-1

IWILEI FRUIT AND VEGETABLE WAREHOUSE (Continued) — **U003858603**

Date Installed:	Not reported
Tank Status:	**Permanently Out of Use**
Date Closed:	05/20/2002
Tank Capacity:	2000
Substance:	Not Listed

RGA LUST:

2012	IWILEI FRUIT AND VEGETABLE WAREHOUSE	920 IWILEI ROAD
2011	IWILEI FRUIT AND VEGETABLE WAREHOUSE	920 IWILEI ROAD
2010	IWILEI FRUIT AND VEGETABLE WAREHOUSE	920 IWILEI ROAD
2009	IWILEI FRUIT AND VEGETABLE WAREHOUSE	920 IWILEI ROAD
2008	IWILEI FRUIT AND VEGETABLE WAREHOUSE	920 IWILEI ROAD
2007	IWILEI FRUIT AND VEGETABLE WAREHOUSE	920 IWILEI ROAD
2006	IWILEI FRUIT AND VEGETABLE WAREHOUSE	920 IWILEI ROAD
2005	IWILEI FRUIT AND VEGETABLE WAREHOUSE	920 IWILEI ROAD
2004	IWILEI FRUIT AND VEGETABLE WAREHOUSE	920 IWILEI ROAD
2003	IWILEI FRUIT AND VEGETABLE WAREHOUSE	920 IWILEI ROAD
2002	IWILEI FRUIT AND VEGETABLE WAREHOUSE	920 IWILEI ROAD

P71 NW 1/4-1/2 0.372 mi. 1965 ft. — **OAHU PLUMBING & SHEET METAL, LTD**, **926 KOHOU ST**, **HONOLULU, HI 96817** — **LUST, UST, Financial Assurance, RGA LUST** — **U001235455, N/A**

Site 3 of 3 in cluster P

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
Ownder City,St,Zip:	Honolulu, 96817 96817
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

HI Financial Assurance:

Alt Facility ID:	9-101367
Tank Id:	R-1
Tank Status:	Permanently Out of Use
FRTYPE:	Insurance
Expiration Date:	Not reported

RGA LUST:

2012	OAHU PLUMBING & SHEET METAL, LTD	926 KOHOU ST
2011	OAHU PLUMBING & SHEET METAL, LTD	926 KOHOU ST
2010	OAHU PLUMBING & SHEET METAL, LTD	926 KOHOU ST
2009	OAHU PLUMBING & SHEET METAL, LTD	926 KOHOU ST

OAHU PLUMBING & SHEET METAL, LTD (Continued) **U001235455**

2008	OAHU PLUMBING & SHEET METAL, LTD	926 KOHOU ST
2007	OAHU PLUMBING & SHEET METAL, LTD	926 KOHOU ST
2006	OAHU PLUMBING & SHEET METAL, LTD	926 KOHOU ST
2005	OAHU PLUMBING & SHEET METAL, LTD	926 KOHOU ST
2004	OAHU PLUMBING & SHEET METAL, LTD	926 KOHOU ST
2003	OAHU PLUMBING & SHEET METAL, LTD	926 KOHOU ST
2002	OAHU PLUMBING & SHEET METAL, LTD	926 KOHOU ST
2001	OAHU PLUMBING & SHEET METAL, LTD	926 KOHOU ST
2000	OAHU PLUMBING & SHEET METAL, LTD	926 KOHOU ST
1999	OAHU PLUMBING & SHEET METAL, LTD	926 KOHOU ST

R72
SSE
1/4-1/2
0.389 mi.
2056 ft.

Relative: Lower

Actual: 3 ft.

IWILEI PROJECT SITE (IWILEI BROWNFIELDS) **SHWS** **S107022564**
IWILEI RD & N KING ST **RGA HWS** **N/A**
HONOLULU, HI 96817

Site 2 of 2 in cluster R

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Iwilei Project Site
HID Number:	Not reported
Facility Registry Identifier:	110013788516
Lead Agency:	HEER
Progran Name:	State
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

RGA HWS:

2012	IWILEI PROJECT SITE (IWILEI BROWNFIELDS)	IWILEI RD & N KING ST

IWILEI PROJECT SITE (IWILEI BROWNFIELDS) (Continued) **S107022564**

2009	IWILEI PROJECT SITE (IWILEI BROWNFIELDS)	IWILEI RD & N KING ST
2008	IWILEI PROJECT SITE (IWILEI BROWNFIELDS)	IWILEI RD & N KING ST
2006	IWILEI PROJECT SITE (IWILEI BROWNFIELDS)	IWILEI RD & N KING ST
2005	IWILEI PROJECT SITE (IWILEI BROWNFIELDS)	IWILEI RD & N KING ST

73
NNE
1/4-1/2
0.392 mi.
2071 ft.

Relative: Higher

Actual: 48 ft.

PALAMA ELDERLY HOUSING **LUST** **U003154703**
851 N SCHOOL ST **UST** **N/A**
HONOLULU, HI 96814 **RGA LUST**

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
Owner Address:	Not reported
Ownder City,St,Zip:	Honolulu, 96814 96814
Tank ID:	1
Date Installed:	Not reported
Tank Status:	**Permanently Out of Use**
Date Closed:	12/02/1994
Tank Capacity:	550
Substance:	Diesel

RGA LUST:

2012	PALAMA ELDERLY HOUSING	851 N SCHOOL ST
2011	PALAMA ELDERLY HOUSING	851 N SCHOOL ST
2010	PALAMA ELDERLY HOUSING	851 N SCHOOL ST
2009	PALAMA ELDERLY HOUSING	851 N SCHOOL ST
2008	PALAMA ELDERLY HOUSING	851 N SCHOOL ST
2007	PALAMA ELDERLY HOUSING	851 N SCHOOL ST
2006	PALAMA ELDERLY HOUSING	851 N SCHOOL ST
2005	PALAMA ELDERLY HOUSING	851 N SCHOOL ST
2004	PALAMA ELDERLY HOUSING	851 N SCHOOL ST
2003	PALAMA ELDERLY HOUSING	851 N SCHOOL ST
2002	PALAMA ELDERLY HOUSING	851 N SCHOOL ST
2001	PALAMA ELDERLY HOUSING	851 N SCHOOL ST
2000	PALAMA ELDERLY HOUSING	851 N SCHOOL ST
1999	PALAMA ELDERLY HOUSING	851 N SCHOOL ST
1998	PALAMA ELDERLY HOUSING	851 N SCHOOL ST
1997	PALAMA ELDERLY HOUSING	851 N SCHOOL ST
1995	PALAMA ELDERLY HOUSING	851 N SCHOOL ST

S74
WNW
1/4-1/2
0.396 mi.
2090 ft.

757 KOKEA STREET
HONOLULU, HI

Site 1 of 4 in cluster S

Relative:
Lower

Actual:
3 ft.

RGA HWS **S114473091**
N/A

RGA HWS:

2000	757 KOKEA STREET

S75
WNW
1/4-1/2
0.396 mi.
2090 ft.

KAPALAMA INCINERATOR
757 KOKEA STREET
HONOLULU, HI 96817

Site 2 of 4 in cluster S

Relative:
Lower

Actual:
3 ft.

CERCLIS **1001475694**
HISFN0905436

CERCLIS:

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
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:	Not reported
Contact Tel:	Not reported
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported

Alias Comments:	Not reported

Site Description: Not reported

KAPALAMA INCINERATOR (Continued) **1001475694**

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
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

T76
WSW
1/4-1/2
0.400 mi.
2113 ft.

525 ALAKAWA ST
HONOLULU, HI

Site 1 of 3 in cluster T

Relative:
Lower

Actual:
3 ft.

SHWS **S108008497**
ENG CONTROLS **N/A**
INST CONTROL
VCP
RGA HWS

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
Organization:	Not reported

(Continued) **S108008497**

Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Costco Iwilei
HID Number:	Not reported
Facility Registry Identifier:	110013780122
Lead Agency:	HEER
Progran Name:	Voluntary Response Program
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
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

RGA HWS:

2012	COSTCO WAREHOUSE	525 ALAKAWA ST
2009	COSTCO WAREHOUSE	525 ALAKAWA ST
2008	COSTCO WAREHOUSE	525 ALAKAWA ST
2006	COSTCO WAREHOUSE	525 ALAKAWA ST
2005	COSTCO IWILEI	525 ALAKAWA ST

U77 **7-11 KAPALAMA** **LUST** **U003154444**
NNW **1136 N KING ST.** **UST** **N/A**
1/4-1/2 **HONOLULU, HI 96817** **Financial Assurance**
0.401 mi. **RGA LUST**
2117 ft. **Site 1 of 4 in cluster U**

Relative:
Lower

Actual:
8 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 Street, 8th floor
Ownder City,St,Zip:	Honolulu, 96817 96817

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
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

7-11 KAPALAMA (Continued) **U003154444**

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
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

7-11 KAPALAMA (Continued) **U003154444**

Date Installed: 12/01/1939
Tank Status: Permanently Out of Use
Date Closed: 12/15/1992
Tank Capacity: 1000
Substance: Gasoline

Tank ID: R-5
Date Installed: 12/01/1939
Tank Status: Permanently Out of Use
Date Closed: 12/15/1992
Tank Capacity: 1000
Substance: Gasoline

Tank ID: R-6
Date Installed: 12/01/1948
Tank Status: Permanently Out of Use
Date Closed: 12/15/1992
Tank Capacity: 1000
Substance: Gasoline

Tank ID: R-6
Date Installed: 12/01/1948
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
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

7-11 KAPALAMA (Continued) **U003154444**

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: 08/31/2013

Alt Facility ID: 9-100028
Tank Id: R-5
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 08/31/2013

Alt Facility ID: 9-100028
Tank Id: R-0471-4
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 08/31/2013

Alt Facility ID: 9-100028
Tank Id: R-0471-2
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 08/31/2013

Alt Facility ID: 9-100028
Tank Id: 92
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 08/31/2013

Alt Facility ID: 9-100028
Tank Id: 87
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 08/31/2013

7-11 KAPALAMA (Continued) **U003154444**

Alt Facility ID: 9-100028
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 08/31/2013

Alt Facility ID: 9-100028
Tank Id: R-0471-1
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 08/31/2013

RGA LUST:

2012	7-11 KAPALAMA	1136 N KING ST.
2011	7-11 KAPALAMA	1136 N KING ST.
2010	7-11 KAPALAMA	1136 N KING ST.
2009	7-11 KAPALAMA	1136 N KING ST.
2008	7-11 KAPALAMA	1136 N KING ST.
2007	7-11 KAPALAMA	1136 N KING ST.
2006	7-11 KAPALAMA	1136 N KING ST.
2005	7-11 KAPALAMA	1136 N KING ST.
2004	7-11 KAPALAMA	1136 N KING ST.
2003	7-11 KAPALAMA	1136 N KING ST
2002	7-11 KAPALAMA	1136 N KING ST
2001	7-11 KAPALAMA	1136 N KING ST
2000	7-11 KAPALAMA	1136 N KING ST
1999	7-11 KAPALAMA	1136 N KING ST
1998	7-11 KAPALAMA	1136 N KING ST
1997	7-11 KAPALAMA	1136 N KING ST

U78 **RGA LUST** **S114431480**
NNW **1136 NORTH KING ST.** **N/A**
1/4-1/2 **HONOLULU, HI**
0.401 mi.
2117 ft. **Site 2 of 4 in cluster U**

Relative:
Lower

Actual:
8 ft.

RGA LUST:

1995	RICHARD'S UNION SERV. L-0471	1136 NORTH KING ST.
1993	RICHARD'S UNION SERV. L-0471	1136 NORTH KING ST.

U79 **RGA HWS** **S114472959**
NNW **1138 NORTH KING STREET** **N/A**
1/4-1/2 **HONOLULU, HI**
0.403 mi.
2128 ft. **Site 3 of 4 in cluster U**

Relative:
Lower

Actual:
8 ft.

RGA HWS:

2000	1138 NORTH KING STREET

U80
NNW
1/4-1/2
0.403 mi.
2128 ft.

1138 N KING ST
HONOLULU, HI

SHWS **1006820922**
ENG CONTROLS **N/A**
INST CONTROL
RGA HWS

Site 4 of 4 in cluster U

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	GTE-Hawaiian Tel Employees Federal Credit Union (HTEFCU)
HID Number:	Not reported
Facility Registry Identifier:	110013789506
Lead Agency:	HEER
Progran Name:	State
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
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

(Continued) **1006820922**

Institutional Control: Government - Hawaii Dept. of Health Letter Issued

RGA HWS:

2012 GTE-HAWAIIAN TEL EMPLOYEES FEDERAL CREDIT UNION (HTEFCU)
1138 N KING ST
2009 GTE-HAWAIIAN TEL EMPLOYEES FEDERAL CREDIT UNION (HTEFCU)
1138 N KING ST
2008 GTE-HAWAIIAN TEL EMPLOYEES FEDERAL CREDIT UNION (HTEFCU)
1138 N KING ST
2006 GTE-HAWAIIAN TEL EMPLOYEES FEDERAL CREDIT UNION (HTEFCU)
1138 N KING ST
2005 GTE-HAWAIIAN TEL EMPLOYEES FEDERAL CREDIT UNION (HTEFCU)
1138 N KING ST

V81
SSW
1/4-1/2
0.406 mi.
2145 ft.

420-470 NORTH NIMITZ HIGHWAY
420-470 N NIMITZ HWY
HONOLULU, HI 96817

SHWS **S106815536**
ENG CONTROLS **N/A**
RGA HWS

Site 1 of 2 in cluster V

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	420-470 North Nimitz Highway
HID Number:	Not reported
Facility Registry Identifier:	110013783511
Lead Agency:	HEER
Progran Name:	State
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

420-470 NORTH NIMITZ HIGHWAY (Continued) **S106815536**

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

RGA HWS:

2012	420-470 NORTH NIMITZ HIGHWAY	420-470 N NIMITZ HWY
2009	420-470 NORTH NIMITZ HIGHWAY	420-470 N NIMITZ HWY
2008	420-470 NORTH NIMITZ HIGHWAY	420-470 N NIMITZ HWY
2006	420-470 NORTH NIMITZ HIGHWAY	420-470 N NIMITZ HWY
2005	420-470 NORTH NIMITZ HIGHWAY	420-470 N NIMITZ HWY

V82
SSW
1/4-1/2
0.406 mi.
2145 ft.

420 N. NIMITS HWY DEMOLOTION PROJECT **LUST** **U004155570**
420 N. NIMITZ HWY **UST** **N/A**
HONOLULU, HI 96819 **RGA LUST**

Site 2 of 2 in cluster V

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
Ownder City,St,Zip:	Honolulu, 96819 96819
Tank ID:	r-1
Date Installed:	Not reported
Tank Status:	**Permanently out of Use**
Date Closed:	06/22/2010
Tank Capacity:	500
Substance:	Other

RGA LUST:

2012	420 N. NIMITS HWY DEMOLOTION PROJECT	420 N. NIMITZ HWY
2011	420 N. NIMITS HWY DEMOLOTION PROJECT	420 N. NIMITZ HWY

T83
WSW
1/4-1/2
0.409 mi.
2159 ft.

520 ALAKAWA STREET **RGA HWS** **S114473055**
HONOLULU, HI **N/A**

Site 2 of 3 in cluster T

Relative:
Lower

Actual:
3 ft.

RGA HWS:

2006	COSTCO GAS STATION	520 ALAKAWA STREET

T84
WSW
1/4-1/2
0.409 mi.
2159 ft.

520 ALAKAWA ST **SHWS** **S108859910**
HONOLULU, HI **ENG CONTROLS** **N/A**
INST CONTROL
VCP
RGA HWS

Site 3 of 3 in cluster T

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Alakawa St & Dillingham Blvd
SDAR Environmental Interest Name:	Costco Gas Station
HID Number:	Not reported
Facility Registry Identifier:	110013779401
Lead Agency:	HEER
Progran Name:	Voluntary Response Program
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
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

(Continued) **S108859910**

VCP:

Program:	Voluntary Response Program
Zip Suffix:	Not reported
Supplemental Location:	Alakawa St & Dillingham Blvd
Island:	Oahu

RGA HWS:

2012	COSTCO GAS STATION	520 ALAKAWA ST
2009	COSTCO GAS STATION	520 ALAKAWA ST
2008	COSTCO GAS STATION	520 ALAKAWA ST

S85 **RGA LUST** **S114431759**
WNW **710 KOHOU STREET** **N/A**
1/4-1/2 **HONOLULU, HI**
0.418 mi.
2207 ft. **Site 3 of 4 in cluster S**

Relative:
Lower

Actual:
3 ft.

RGA LUST:

1995	SHIMAYA SHOTEN, LTD.	710 KOHOU STREET
1993	SHIMAYA SHOTEN, LTD.	710 KOHOU STREET

S86 **SHIMAYA SHOTEN, LTD.** **LUST** **U001235478**
WNW **710 KOHOU ST** **UST** **N/A**
1/4-1/2 **HONOLULU, HI 96817** **RGA LUST**
0.418 mi.
2207 ft. **Site 4 of 4 in cluster S**

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
Ownder City,St,Zip:	Honolulu, 96817 96817
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

RGA LUST:

2012	SHIMAYA SHOTEN, LTD.	710 KOHOU ST
2011	SHIMAYA SHOTEN, LTD.	710 KOHOU ST
2010	SHIMAYA SHOTEN, LTD.	710 KOHOU ST
2009	SHIMAYA SHOTEN, LTD.	710 KOHOU ST
2008	SHIMAYA SHOTEN, LTD.	710 KOHOU ST
2007	SHIMAYA SHOTEN, LTD.	710 KOHOU ST
2006	SHIMAYA SHOTEN, LTD.	710 KOHOU ST
2005	SHIMAYA SHOTEN, LTD.	710 KOHOU ST

SHIMAYA SHOTEN, LTD. (Continued) **U001235478**

2004	SHIMAYA SHOTEN, LTD.	710 KOHOU ST
2003	SHIMAYA SHOTEN, LTD.	710 KOHOU ST
2002	SHIMAYA SHOTEN, LTD.	710 KOHOU ST
2001	SHIMAYA SHOTEN, LTD.	710 KOHOU ST
2000	SHIMAYA SHOTEN, LTD.	710 KOHOU ST
1999	SHIMAYA SHOTEN, LTD.	710 KOHOU ST
1998	SHIMAYA SHOTEN, LTD.	710 KOHOU ST
1997	SHIMAYA SHOTEN, LTD.	710 KOHOU ST

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87 **JOHIRO BROTHERS, INC.** **LUST** **U003154457**
NW **1240 MOOKAULA ST** **UST** **N/A**
1/4-1/2 **HONOLULU, HI 96817** **RGA LUST**
0.424 mi.
2241 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
Ownder City,St,Zip:	Honolulu, 96817 96817
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

RGA LUST:

2012	JOHIRO BROTHERS, INC.	1240 MOOKAULA ST
2011	JOHIRO BROTHERS, INC.	1240 MOOKAULA ST
2010	JOHIRO BROTHERS, INC.	1240 MOOKAULA ST
2009	JOHIRO BROTHERS, INC.	1240 MOOKAULA ST
2008	JOHIRO BROTHERS, INC.	1240 MOOKAULA ST
2007	JOHIRO BROTHERS, INC.	1240 MOOKAULA ST
2006	JOHIRO BROTHERS, INC.	1240 MOOKAULA ST
2005	JOHIRO BROTHERS, INC.	1240 MOOKAULA ST
2004	JOHIRO BROTHERS, INC.	1240 MOOKAULA ST
2003	JOHIRO BROTHERS, INC.	1240 MOOKAULA ST
2002	JOHIRO BROTHERS, INC.	1240 MOOKAULA ST
2001	JOHIRO BROTHERS, INC.	1240 MOOKAULA ST
2000	JOHIRO BROTHERS, INC.	1240 MOOKAULA ST
1999	JOHIRO BROTHERS, INC.	1240 MOOKAULA ST
1998	JOHIRO BROTHERS, INC.	1240 MOOKAULA ST
1997	JOHIRO BROTHERS, INC.	1240 MOOKAULA ST
1995	JOHIRO BROTHERS, INC.	1240 MOOKAULA ST.
1993	JOHIRO BROTHERS, INC.	1240 MOOKAULA ST.

88
SSE
1/4-1/2
0.426 mi.
2248 ft.

215 N KING ST
HONOLULU, HI

SHWS **S106815334**
RGA HWS **N/A**

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
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
Progran Name:	State
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

RGA HWS:

2012 215 NORTH KING STREET CONSTRUCTION SITE, TANKS 1 & 2 215 N KING ST
2009 215 NORTH KING STREET CONSTRUCTION SITE, TANKS 1 & 2 215 N KING ST
2008 215 NORTH KING STREET CONSTRUCTION SITE, TANKS 1 & 2 215 N KING ST
2006 215 NORTH KING STREET CONSTRUCTION SITE, TANKS 1 & 2 215 N KING ST
2005 215 NORTH KING STREET CONSTRUCTION SITE, TANKS 1 & 2 215 N KING ST

W89
SW
1/4-1/2
0.428 mi.
2260 ft.

650 IWILEI RD
HONOLULU, HI

RGA HWS **S114473075**
N/A

Site 1 of 2 in cluster W

Relative:
Lower

Actual:
3 ft.

RGA HWS:

2000 650 IWILEI RD

X90
SSE
1/4-1/2
0.441 mi.
2329 ft.

248-258 N BERETANIA ST
HONOLULU, HI

SHWS **1006819555**
INST CONTROL **N/A**
VCP
RGA HWS

Site 1 of 3 in cluster X

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Town Inn
HID Number:	Not reported
Facility Registry Identifier:	110013773755
Lead Agency:	HEER
Progran Name:	Voluntary Response Program
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

(Continued) **1006819555**

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

RGA HWS:

2012	TOWN INN	248-258 N BERETANIA ST
2009	TOWN INN	248-258 N BERETANIA ST
2008	TOWN INN	248-258 N BERETANIA ST
2006	TOWN INN	248-258 N BERETANIA ST
2005	TOWN INN	248-258 N BERETANIA ST

Y91 **AA ELECTRIC, LTD.** **LUST** **U001235563**
West **500 ALA KAWA ST, APT #100** **UST** **N/A**
1/4-1/2 **HONOLULU, HI 96817** **RGA LUST**
0.454 mi.
2398 ft. **Site 1 of 2 in cluster Y**

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
Ownder City,St,Zip: Honolulu, 96817 96817

Tank ID: R-1
Date Installed: Not reported
Tank Status: **Permanently Out of Use**
Date Closed: Not reported
Tank Capacity: 1000
Substance: Gasoline

RGA LUST:

2012	AA ELECTRIC, LTD.	500 ALA KAWA ST, APT #100
2011	AA ELECTRIC, LTD.	500 ALA KAWA ST, APT #100
2010	AA ELECTRIC, LTD.	500 ALA KAWA ST, APT #100
2009	AA ELECTRIC, LTD.	500 ALA KAWA ST, APT #100
2008	AA ELECTRIC, LTD.	500 ALA KAWA ST, APT #100
2007	AA ELECTRIC, LTD.	500 ALA KAWA ST, APT #100
2006	AA ELECTRIC, LTD.	500 ALA KAWA ST, APT #100
2005	AA ELECTRIC, LTD.	500 ALA KAWA ST, APT #100
2004	AA ELECTRIC, LTD.	500 ALA KAWA ST, APT #100
2003	AA ELECTRIC, LTD.	500 ALA KAWA ST, APT #100
2002	AA ELECTRIC, LTD.	500 ALA KAWA ST, APT #100
2001	AA ELECTRIC, LTD.	500 ALA KAWA ST, APT #100
2000	AA ELECTRIC, LTD.	500 ALA KAWA ST, APT #100

AA ELECTRIC, LTD. (Continued) **U001235563**

1999	AA ELECTRIC, LTD.	500 ALA KAWA ST, APT #100
1998	AA ELECTRIC, LTD.	500 ALA KAWA ST, APT. #100
1997	AA ELECTRIC, LTD.	500 ALA KAWA ST, APT. #100

Z92 **RGA LUST** **S114431718**
SSW **540 NIMITZ HWY** **N/A**
1/4-1/2 **HONOLULU, HI**
0.458 mi.
2420 ft. **Site 1 of 6 in cluster Z**

Relative:
Lower

Actual:
3 ft.

RGA LUST:

1999	ALII 1	540 NIMITZ HWY
1998	ALII 1	540 NIMITZ HWY
1997	ALII 1	540 NIMITZ HWY

Z93 **MID PAC PETROLEUM LLC 2705958** **SHWS** **U001235004**
SSW **540 N NIMITZ HWY** **LUST** **N/A**
1/4-1/2 **HONOLULU, HI 96817** **UST**
0.458 mi. **RGA HWS**
2420 ft. **Site 2 of 6 in cluster Z** **Financial Assurance**
RGA LUST

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:	Medium
Potential Hazards And Controls:	Hazard Present
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Omega
SDAR Environmental Interest Name:	Alii #3282
HID Number:	Not reported
Facility Registry Identifier:	110009360093
Lead Agency:	SHWB/HEER
Progran Name:	State
Potential Hazard And Controls:	Hazard Present
Priority:	Medium
Assessment:	Response Necessary
Response:	Response Ongoing
Nature of Contamination:	Found: Subsurface petroleum 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:	Kelton Otsuka

MID PAC PETROLEUM LLC 2705958 (Continued) **U001235004**

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: 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

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: 02/09/2009
Release ID: 080018
Project Officer: Shunsheng Fu

UST:

Facility ID: 9-100017
Owner: Mid Pac Petroleum LLC
Owner Address: 677 Ala Moana Blvd Suite 625
Ownder City,St,Zip: Honolulu, 96817 96817

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

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

MID PAC PETROLEUM LLC 2705958 (Continued) **U001235004**

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
Date Installed: Not reported
Tank Status: Permanently out of Use
Date Closed: 04/07/2008
Tank Capacity: 2000
Substance: Gasoline

Tank ID: r-5

MID PAC PETROLEUM LLC 2705958 (Continued) **U001235004**

Date Installed: Not reported
Tank Status: Permanently out of Use
Date Closed: 04/08/2008
Tank Capacity: 2000
Substance: Not reported

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-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

RGA HWS:

2012	ALII #3282	540 N NIMITZ HWY
2009	ALII #3282	540 N NIMITZ HWY
2008	ALII #3282	540 N NIMITZ HWY

HI Financial Assurance:
Alt Facility ID: 9-100017
Tank Id: R-3282-4
Tank Status: Permanently Out of Use
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

MID PAC PETROLEUM LLC 2705958 (Continued) **U001235004**

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

Alt Facility ID: 9-100017
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 09/01/2006

RGA LUST:

2012	MID PAC PETROLEUM LLC #2705958	540 N NIMITZ HWY
2011	MID PAC PETROLEUM LLC #2705958	540 N NIMITZ HWY
2010	MID PAC PETROLEUM LLC #2705958	540 N NIMITZ HWY
2009	MID PAC PETROLEUM LLC #2705958	540 N NIMITZ HWY
2008	MID PAC PETROLEUM LLC #2705958	540 N NIMITZ HWY
2007	MID PAC PETROLEUM LLC #2705958	540 N NIMITZ HWY
2006	MID PAC PETROLEUM LLC #2705958	540 N NIMITZ HWY
2005	MID PAC PETROLEUM LLC #2705958	540 N NIMITZ HWY
2004	CONCOPHILLIPS COMPANY 2705958 (PREV: ALII I)	540 N NIMITZ HWY
2003	CONCOPHILLIPS COMPANY 2705958 (PREV: ALII I)	540 N

MID PAC PETROLEUM LLC 2705958 (Continued) **U001235004**

NIMITZ HWY
2002 ALII 1 - L3282 540 N NIMITZ HWY
2001 ALII 1 - L3282 540 N NIMITZ HWY
2000 ALII 1 - L3282 540 N NIMITZ HWY

Z94 **RGA LUST** **S114431717**
SSW **540 NIMITZ HWY.** **N/A**
1/4-1/2 **HONOLULU, HI**
0.458 mi.
2420 ft. **Site 3 of 6 in cluster Z**

Relative:
Lower

Actual:
3 ft.

RGA LUST:
1995 ALII 1 540 NIMITZ HWY.
1993 ALII 1 540 NIMITZ HWY.

AA95 **WESTON SOLUTIONS, INC.** **SHWS** **S110277531**
SW **616 IWILEI STREET** **SPILLS** **N/A**
1/4-1/2 **HONOLULU, HI** **INST CONTROL**
0.459 mi. **AIRS**
2421 ft. **Site 1 of 5 in cluster AA**

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	BHP Gasco Benzene Site
HID Number:	HID982392367
Facility Registry Identifier:	110013780499
Lead Agency:	HEER
Progran Name:	State
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

WESTON SOLUTIONS, INC. (Continued) **S110277531**

Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

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:	Not reported
Activity Lead:	Not reported
Assignment End Date:	Not reported
Result:	Not reported
File Under:	BHP Hawaii, Inc.

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.

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
File Under:	BHP Hawaii, Inc.

WESTON SOLUTIONS, INC. (Continued) **S110277531**

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

AIRS:
- Facility ID: 0551-01-N
- Island: Oahu
- Mailing Address: 841 Bishop Street, Suite 2301
- Locale: Not reported
- Mailing City,St,Zip: Honolulu, HI 96813
- Business Phone: Not reported
- 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).

Z96 **RGA HWS** **S114473061**
SSW **550-580 N NIMITZ HWY** **N/A**
1/4-1/2 **HONOLULU, HI**
0.470 mi.
2484 ft. **Site 4 of 6 in cluster Z**

Relative: Lower

Actual: 3 ft.

RGA HWS:

2006	ZIPPY'S 580 NORTH NIMITZ HIGHWAY	550-580 N NIMITZ HWY
2005	ZIPPY'S 580 NORTH NIMITZ HIGHWAY	550-580 N NIMITZ HWY

W97 **RGA HWS** **S114473072**
SW **616 IWILEI ROAD** **N/A**
1/4-1/2 **HONOLULU, HI**
0.471 mi.
2486 ft. **Site 2 of 2 in cluster W**

Relative: Lower

Actual: 3 ft.

RGA HWS:

2012	BHP GASCO BENZENE SITE	616 IWILEI ROAD

X98 **RGA HWS** **S114472962**
SSE **1200 COLLEGE WALK** **N/A**
1/4-1/2 **HONOLULU, HI**
0.471 mi.
2488 ft. **Site 2 of 3 in cluster X**

Relative: Lower

Actual: 2 ft.

RGA HWS:

2000	1200 COLLEGE WALK	

X99 **RGA LUST** **S114431484**
SSE **1200 COLLEGE WALK** **N/A**
1/4-1/2 **HONOLULU, HI**
0.471 mi.
2488 ft. **Site 3 of 3 in cluster X**

Relative: Lower

Actual: 2 ft.

RGA LUST:

2006	TOWN INN	1200 COLLEGE WALK
2005	TOWN INN	1200 COLLEGE WALK
2004	TOWN INN	1200 COLLEGE WALK
2003	TOWN INN	1200 COLLEGE WALK
2002	TOWN INN	1200 COLLEGE WALK
2001	TOWN INN	1200 COLLEGE WALK
2000	TOWN INN	1200 COLLEGE WALK
1999	TOWN INN	1200 COLLEGE WALK
1998	TOWN INN	1200 COLLEGE WALK
1997	TOWN INN	1200 COLLEGE WALK

Y100 **DOLE PACKAGED FOODS CO.** **LUST** **U001237406**
West **ALA KAWA ST / WAREHOUSE 59** **UST** **N/A**
1/4-1/2 **HONOLULU, HI 96800** **RGA LUST**
0.473 mi.
2499 ft. **Site 2 of 2 in cluster Y**

Relative: Lower

Actual: 3 ft.

LUST:
- Facility ID: 9-102736
- Facility Status: Site Cleanup Completed (NFA)
- Facility Status Date: 04/21/2006
- Release ID: 930092
- Project Officer: Shunsheng Fu

UST:
- Facility ID: 9-102736
- Owner: DOLE FOOD COMPANY HAWAII, INC
- Owner Address: 1116 WHITMORE AVE
- Ownder City,St,Zip: Honolulu, 96800 96800

- Tank ID: R-1
- Date Installed: Not reported
- **Tank Status: Permanently Out of Use**
- Date Closed: 03/03/1993
- Tank Capacity: 7000
- Substance: Diesel

- Tank ID: R-2
- Date Installed: Not reported
- **Tank Status: Permanently Out of Use**

DOLE PACKAGED FOODS CO. (Continued) **U001237406**

Date Closed: 03/03/1993
Tank Capacity: 7000
Substance: Gasoline

RGA LUST:

2012	DOLE PACKAGED FOODS CO.	ALA KAWA ST / WAREHOUSE 59
2011	DOLE PACKAGED FOODS CO.	ALA KAWA ST / WAREHOUSE 59
2010	DOLE PACKAGED FOODS CO.	ALA KAWA ST / WAREHOUSE 59
2009	DOLE PACKAGED FOODS CO.	ALA KAWA ST / WAREHOUSE 59
2008	DOLE PACKAGED FOODS CO.	ALA KAWA ST / WAREHOUSE 59
2007	DOLE PACKAGED FOODS CO.	ALA KAWA ST / WAREHOUSE 59
2006	DOLE PACKAGED FOODS CO.	ALA KAWA ST / WAREHOUSE 59
2005	DOLE PACKAGED FOODS CO.	ALA KAWA ST / WAREHOUSE 59
2004	DOLE PACKAGED FOODS CO.	ALA KAWA ST / WAREHOUSE 59
2003	DOLE PACKAGED FOODS CO.	ALA KAWA ST / WAREHOUSE 59
2002	DOLE PACKAGED FOODS CO.	ALA KAWA ST / WAREHOUSE 59
2001	DOLE PACKAGED FOODS CO.	ALA KAWA ST / WAREHOUSE 59
2000	DOLE PACKAGED FOODS CO.	ALA KAWA ST / WAREHOUSE 59
1999	DOLE PACKAGED FOODS CO.	ALA KAWA ST / WAREHOUSE 59
1998	DOLE PACKAGED FOODS CO.	ALA KAWA ST / WAREHOUSE 59

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101 NNW 1/4-1/2 0.484 mi. 2558 ft. — **OAHU PLUMBING & SHEETMETAL**, **1217 N KING ST**, **HONOLULU, HI 96819** — **LUST, UST, RGA LUST** — **U003221928**, **N/A**

Relative: Lower **Actual: 13 ft.**

LUST:
Facility ID: 9-103346
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 09/08/1998
Release ID: 980032
Project Officer: Jose Ruiz

UST:
Facility ID: 9-103346
Owner: OAHU PLUMBING & SHEETMETAL
Owner Address: 1217 N KING ST
Ownder City,St,Zip: Honolulu, 96819 96819

Tank ID: R-1
Date Installed: Not reported
Tank Status: Permanently Out of Use
Date Closed: 01/06/1998
Tank Capacity: 550
Substance: Gasoline

RGA LUST:

2012	OAHU PLUMBING & SHEETMETAL	1217 N KING ST
2011	OAHU PLUMBING & SHEETMETAL	1217 N KING ST
2010	OAHU PLUMBING & SHEETMETAL	1217 N KING ST
2009	OAHU PLUMBING & SHEETMETAL	1217 N KING ST
2008	OAHU PLUMBING & SHEETMETAL	1217 N KING ST
2007	OAHU PLUMBING & SHEETMETAL	1217 N KING ST
2006	OAHU PLUMBING & SHEETMETAL	1217 N KING ST
2005	OAHU PLUMBING & SHEETMETAL	1217 N KING ST
2004	OAHU PLUMBING & SHEETMETAL	1217 N KING ST

OAHU PLUMBING & SHEETMETAL (Continued) **U003221928**

2003	OAHU PLUMBING & SHEETMETAL	1217 N KING ST
2002	OAHU PLUMBING & SHEETMETAL	1217 N KING ST
2001	OAHU PLUMBING & SHEETMETAL	1217 N KING ST
2000	OAHU PLUMBING & SHEETMETAL	1217 N KING ST
1999	OAHU PLUMBING & SHEETMETAL	1217 N KING ST
1998	OAHU PLUMBING & SHEETMETAL	1217 N KING ST

AA102 SW 1/4-1/2 0.491 mi. 2590 ft. — **BHP GASCO**, **432 PACIFIC STREET**, **HONOLULU, HI 96817** — **EDR MGP** — **1008409005**, **N/A**

Site 2 of 5 in cluster AA

Relative: Lower **Actual: 3 ft.**

Manufactured Gas Plants:
Alternate Name:HONOLULU GAS CO LTD. OPERATED FROM 1905-1974

AA103 SW 1/4-1/2 0.491 mi. 2590 ft. — **432 PACIFIC ST**, **HONOLULU, HI** — **RGA HWS** — **S114473037**, **N/A**

Site 3 of 5 in cluster AA

Relative: Lower **Actual: 3 ft.**

RGA HWS:

2009	BHP GASCO BENZENE SITE	432 PACIFIC ST
2008	BHP GASCO BENZENE SITE	432 PACIFIC ST
2006	BHP GASCO BENZENE SITE	432 PACIFIC ST
2005	BHP GASCO BENZENE SITE	432 PACIFIC ST

AB104 SW 1/4-1/2 0.491 mi. 2595 ft. — **DOLE CAN PLANT**, **601 IWILEI RD**, **HONOLULU, HI 96817** — **LUST, UST, RGA LUST** — **U001235215**, **N/A**

Site 1 of 5 in cluster AB

Relative: Lower **Actual: 3 ft.**

LUST:
Facility ID: 9-100757
Facility Status: Site Cleanup Completed (NFA)
Facility Status Date: 11/04/1999
Release ID: 890003
Project Officer: Renato Maniulit

UST:
Facility ID: 9-100757
Owner: DOLE FOOD COMPANY HAWAII, INC
Owner Address: 1116 WHITMORE AVE
Ownder City,St,Zip: Honolulu, 96817 96817

Tank ID: R-CP1
Date Installed: 05/07/1970
Tank Status: Permanently Out of Use
Date Closed: 12/12/1988
Tank Capacity: 5000
Substance: Other

DOLE CAN PLANT (Continued) **U001235215**

Tank ID: R-CP2
Date Installed: 05/07/1972
Tank Status: Permanently Out of Use
Date Closed: 12/12/1988
Tank Capacity: 10000
Substance: Other

Tank ID: R-CP3
Date Installed: 05/07/1972
Tank Status: Permanently Out of Use
Date Closed: 12/12/1988
Tank Capacity: 3000
Substance: Other

Tank ID: R-CP4
Date Installed: 05/07/1972
Tank Status: Permanently Out of Use
Date Closed: 12/12/1988
Tank Capacity: 5000
Substance: Other

RGA LUST:

2012	DOLE CAN PLANT	601 IWILEI RD
2011	DOLE CAN PLANT	601 IWILEI RD
2010	DOLE CAN PLANT	601 IWILEI RD
2009	DOLE CAN PLANT	601 IWILEI RD
2008	DOLE CAN PLANT	601 IWILEI RD
2007	DOLE CAN PLANT	601 IWILEI RD
2006	DOLE CAN PLANT	601 IWILEI RD
2005	DOLE CAN PLANT	601 IWILEI RD
2004	DOLE CAN PLANT	601 IWILEI RD
2003	DOLE CAN PLANT	601 IWILEI RD
2002	DOLE CAN PLANT	601 IWILEI RD
2001	DOLE CAN PLANT	601 IWILEI RD
2000	DOLE CAN PLANT	601 IWILEI RD
1999	DOLE CAN PLANT	601 IWILEI RD
1998	DOLE CAN PLANT	601 IWILEI RD
1997	DOLE CAN PLANT	601 IWILEI RD
1995	DOLE CAN PLANT	601 IWILEI RD.
1993	DOLE CAN PLANT	601 IWILEI RD,

AA105 SW 1/4-1/2 0.496 mi. 2617 ft. **UNOCAL/IWILE TANK FARM**
411 PACIFIC STREET
HONOLULU, HI 96817

CERCLIS 1000167543
RCRA-SQG HID000633081
FINDS

Site 4 of 5 in cluster AA

Relative: Lower
Actual: 3 ft.

CERCLIS:
Site ID: 0903673
EPA ID: HID000633081
Facility County: HONOLULU
Short Name: UNOCAL/IWILE TANK FARM
Congressional District: 01
IFMS ID: Not reported
SMSA Number: 3320
USGC Hydro Unit: Not reported

UNOCAL/IWILE TANK FARM (Continued) **1000167543**

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: 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: PA Start Needed
Non NPL Status Date: 11/07/89
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: Not reported
Contact Tel: Not reported
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Alias Comments: Not reported
Site Description: Not reported

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: / /
Date Completed: 11/07/89
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

RCRA-SQG:
Date form received by agency: 08/01/2012
Facility name: FORMER 76 HONOLULU TERMINAL (PHILLIPS 66)
Facility address: 411 PACIFIC ST.
HONOLULU, HI 96817
EPA ID: HID000633081
Contact: RICHARD SOLOMON
Contact address: 3900 KILROY AIRPORT WAY SUITE 210
LONG BEACH, CA 90806

UNOCAL/IWILE TANK FARM (Continued) **1000167543**

Contact country: US
Contact telephone: (562) 290-1551
Contact email: RICH.SOLOMON@P66.COM
EPA Region: 09
Land type: Private
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: TOSCO CORP SUBSIDIARY OF PHILLIPS PETROL
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 09/17/2001
Owner/Op end date: Not reported

Owner/operator name: LOWE'S HIW
Owner/operator address: 1605 CURTIS BRIDGE RD.
WILKESBORO, NC 28697
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/01/2005
Owner/Op end date: Not reported

Owner/operator name: TOSCO CORPORATION
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: 04/01/1977
Owner/Op end date: Not reported

Owner/operator name: LOWE'S HIW
Owner/operator address: 1605 CURTIS BRIDGE RD.
WILKESBORO, NC 28697
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 03/01/2005
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No

UNOCAL/IWILE TANK FARM (Continued) **1000167543**

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: 02/21/2008
Facility name: FORMER 76 HONOLULU TERMINAL (PHILLIPS 66)
Site name: CONOCOPHILLIPS HONOLULU TERMINAL
Classification: Large Quantity Generator

Date form received by agency: 02/28/2006
Facility name: FORMER 76 HONOLULU TERMINAL (PHILLIPS 66)
Site name: CONOCOPHILLIPS HONOLULU TERMINAL
Classification: Large Quantity Generator

Date form received by agency: 02/09/2004
Facility name: FORMER 76 HONOLULU TERMINAL (PHILLIPS 66)
Site name: CONOCOPHILLIPS COMPANY
Classification: Large Quantity Generator

Date form received by agency: 01/15/2003
Facility name: FORMER 76 HONOLULU TERMINAL (PHILLIPS 66)
Site name: CONOCOPHILLIPS HONOLULU TERMINAL
Classification: Small Quantity Generator

Date form received by agency: 02/01/2002
Facility name: FORMER 76 HONOLULU TERMINAL (PHILLIPS 66)
Site name: TOSCO HONOLULU TERMINAL
Classification: Small Quantity Generator

Date form received by agency: 10/14/1998
Facility name: FORMER 76 HONOLULU TERMINAL (PHILLIPS 66)
Site name: TOSCO HONOLULU TERMINAL
Classification: Large Quantity Generator

Date form received by agency: 03/10/1997
Facility name: FORMER 76 HONOLULU TERMINAL (PHILLIPS 66)
Site name: TOSCO HONOLULU TERMINAL
Classification: Large Quantity Generator

Date form received by agency: 01/16/1996
Facility name: FORMER 76 HONOLULU TERMINAL (PHILLIPS 66)
Site name: 76 PRODUCTS CO DBA UNOCAL
Classification: Large Quantity Generator

Hazardous Waste Summary:

UNOCAL/IWILE TANK FARM (Continued) **1000167543**

Waste code: D018
Waste name: BENZENE

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D008
Waste name: LEAD

Waste code: D018
Waste name: BENZENE

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 12/17/2002
Date achieved compliance: 07/14/2003
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/25/2003
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: Not reported
Area of violation: Generators - Manifest
Date violation determined: 12/17/2002
Date achieved compliance: 07/14/2003
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/25/2003
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: Not reported

UNOCAL/IWILE TANK FARM (Continued) **1000167543**

Area of violation: LDR - General
Date violation determined: 08/19/1996
Date achieved compliance: 10/16/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/19/1996
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: Not reported
Area of violation: Generators - General
Date violation determined: 08/19/1996
Date achieved compliance: 10/16/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/19/1996
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: 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: 12/17/2002
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 07/14/2003
Evaluation lead agency: State

Evaluation date: 12/17/2002
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/14/2003
Evaluation lead agency: State

Evaluation date: 07/09/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 10/16/1996
Evaluation lead agency: State

UNOCAL/IWILE TANK FARM (Continued) **1000167543**

Evaluation date: 07/09/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 10/16/1996
Evaluation lead agency: State

FINDS:

Registry ID: 110000495848

Environmental Interest/Information System
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.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

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 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

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.

HAZARDOUS WASTE BIENNIAL REPORTER

UNOCAL/IWILE TANK FARM (Continued) **1000167543**

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

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

AA106 **UNOCAL 76 HONOLULU LRNG CTR** **RCRA NonGen / NLR** **1000167494**
SW **411 PACIFIC ST** **FINDS** **HID981652696**
1/4-1/2 **HONOLULU, HI** **SHWS**
0.496 mi. **UST**
2617 ft. **Site 5 of 5 in cluster AA** **SPILLS**
VCP
Relative: **RGA HWS**
Lower **Financial Assurance**

Actual:
3 ft.

RCRA NonGen / NLR:
Date form received by agency: 02/16/1994
Facility name: UNOCAL 76 HONOLULU LRNG CTR
Site name: UNION OIL TERMINAL
Facility address: 411 PACIFIC ST
HONOLULU, HI 968170000
EPA ID: HID981652696
Mailing address: PO BOX 659
HONOLULU, HI 968090000
Contact: PATRICK J IONA
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (808) 522-7609
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: UNION OIL CO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported

UNOCAL 76 HONOLULU LRNG CTR (Continued) **1000167494**

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: 08/02/1993
Facility name: UNOCAL 76 HONOLULU LRNG CTR
Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:
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: 110009359826

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

UNOCAL 76 HONOLULU LRNG CTR (Continued) **1000167494**

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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: Steve Mow
Hazard Priority: High
Potential Hazards And Controls: Hazard Present
Organization: Not reported
Island: Oahu
Supplemental Location Text: Not reported
SDAR Environmental Interest Name: TOSCO Corporation-Honolulu Terminal #0282
HID Number: Not reported
Facility Registry Identifier: 110000495848
Lead Agency: HEER
Progran Name: Voluntary Response Program
Potential Hazard And Controls: Hazard Present
Priority: High
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: Not reported
Description of Restrictions: Prohibit Any Activity That May Disturb the Integrity of the Capping or Monitoring System
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

UST:
Facility ID: 9-100108
Owner: Tosco Marketing Company
Owner Address: P. O. Box 25376
Ownder City,St,Zip: Honolulu, 96817 96817

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

UNOCAL 76 HONOLULU LRNG CTR (Continued) **1000167494**

HI SPILLS:

Island:	Oahu
Supplemental Loc. Text:	Not reported
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

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

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

Island:	Oahu
Supplemental Loc. Text:	Not reported

UNOCAL 76 HONOLULU LRNG CTR (Continued) **1000167494**

Case Number:	19971110-0947
HID Number:	Not reported
Facility Registry Id:	110000495848
Lead and Program:	HEER EP&R
ER:	No
Units:	TOSCO Pinhole Pipeline Leak
Substances:	Gasoline, Unleaded
Less Or Greater Than:	Not reported
Numerical Quantity:	20
Units:	Gallons
Activity Type:	Response
Activity Lead:	Terry Corpus
Assignment End Date:	Not reported
Result:	SOSC NFA
File Under:	Phillips Petroleum Company

Island:	Oahu
Supplemental Loc. Text:	Not reported
Case Number:	20000726-1404
HID Number:	Not reported
Facility Registry Id:	110000495848
Lead and Program:	HEER EP&R
ER:	No
Units:	Tosco Tank Farm- tank #2792
Substances:	Diesel Fuel & black oil
Less Or Greater Than:	Not reported
Numerical Quantity:	30
Units:	Gallons
Activity Type:	Response
Activity Lead:	Terry Corpus
Assignment End Date:	Not reported
Result:	SOSC NFA
File Under:	Phillips Petroleum Company

Click this hyperlink while viewing on your computer to access
6 additional HI SPILLS: record(s) in the EDR Site Report.

VCP:

Program:	Voluntary Response Program
Zip Suffix:	Not reported
Supplemental Location:	Not reported
Island:	Oahu

RGA HWS:

2012	TOSCO HONOLULU BULK DISTRIBUTION TERMINAL	411 PACIFIC ST
2009	TOSCO HONOLULU BULK DISTRIBUTION TERMINAL	411 PACIFIC ST
2008	TOSCO HONOLULU BULK DISTRIBUTION TERMINAL	411 PACIFIC ST
2006	TOSCO HONOLULU BULK DISTRIBUTION TERMINAL	411 PACIFIC ST
2005	TOSCO HONOLULU BULK DISTRIBUTION TERMINAL	411 PACIFIC ST
2000	411 PACIFIC ST	

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

UNOCAL 76 HONOLULU LRNG CTR (Continued) **1000167494**

Alt Facility ID: 9-100108
Tank Id: R-4-1
Tank Status: Permanently Out of Use
FRTYPE: Self Insured
Expiration Date: Not reported

Z107 SSW 1/4-1/2 0.498 mi. 2627 ft. **HARRY & JEANETTE WEINBERG FOUNDATION** **LUST** **U003154754**
580 N NIMITZ HWY **UST** **N/A**
HONOLULU, HI 96817 **RGA LUST**

Site 5 of 6 in cluster Z

Relative: Lower

Actual: 3 ft.

LUST:
Facility ID: 9-102995
Facility Status: Monitored Natural Attenuation
Facility Status Date: 08/03/2005
Release ID: 950031
Project Officer: Shunsheng Fu

UST:
Facility ID: 9-102995
Owner: HARRY & JEANETTE WEINBERG FOUNDATION
Owner Address: 3660 WAIALAE AVE, SUITE 400
Ownder City,St,Zip: Honolulu, 96817 96817

Tank ID: R-1
Date Installed: Not reported
Tank Status: Permanently Out of Use
Date Closed: Not reported
Tank Capacity: 1000
Substance: Gasoline

Tank ID: R-2
Date Installed: Not reported
Tank Status: Permanently Out of Use
Date Closed: Not reported
Tank Capacity: 1000
Substance: Diesel

RGA LUST:

2012	HARRY & JEANETTE WEINBERG FOUNDATION	580 N NIMITZ HWY
2011	HARRY & JEANETTE WEINBERG FOUNDATION	580 N NIMITZ HWY
2010	HARRY & JEANETTE WEINBERG FOUNDATION	580 N NIMITZ HWY
2009	HARRY & JEANETTE WEINBERG FOUNDATION	580 N NIMITZ HWY
2008	HARRY & JEANETTE WEINBERG FOUNDATION	580 N NIMITZ HWY
2007	HARRY & JEANETTE WEINBERG FOUNDATION	580 N NIMITZ HWY
2006	HARRY & JEANETTE WEINBERG FOUNDATION	580 N NIMITZ HWY
2005	HARRY & JEANETTE WEINBERG FOUNDATION	580 N NIMITZ HWY
2004	HARRY & JEANETTE WEINBERG FOUNDATION	580 N NIMITZ HWY
2003	HARRY & JEANETTE WEINBERG FOUNDATION	580 N NIMITZ HWY
2002	HARRY & JEANETTE WEINBERG FOUNDATION	580 N NIMITZ HWY
2001	HARRY & JEANETTE WEINBERG FOUNDATION	580 N NIMITZ HWY
2000	HARRY & JEANETTE WEINBERG FOUNDATION	580 N NIMITZ HWY
1999	HARRY & JEANETTE WEINBERG FOUNDATION	580 N NIMITZ HWY
1998	HARRY & JEANETTE WEINBERG FOUNDATION	580 N NIMITZ HWY
1997	HARRY & JEANETTE WEINBERG FOUNDATION	580 N NIMITZ HWY

HARRY & JEANETTE WEINBERG FOUNDATION (Continued) **U003154754**

1995 HARRY & JEANETTE WEINBURG FOUNDA 580 N NIMITZ HWY

Z108 SSW 1/4-1/2 0.498 mi. 2627 ft. **580 NORTH NIMITZ HIGHWAY** **SHWS** **S109096040**
580 N NIMITZ HWY **ENG CONTROLS** **N/A**
HONOLULU, HI 96817 **RGA HWS**

Site 6 of 6 in cluster Z

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
Organization: Not reported
Island: Oahu
Supplemental Location Text: 550 N Nimitz Hwy Inbound
SDAR Environmental Interest Name: 580 North Nimitz
HID Number: Not reported
Facility Registry Identifier: 110013768495
Lead Agency: HEER
Progran Name: State
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: 550 N Nimitz Hwy Inbound
Zip Suffix: Not reported
Island: Oahu
Potential Hazards And Controls: Hazard Managed With Controls
Engineering Control: Engineering Control Required

RGA HWS:

2012	580 NORTH NIMITZ HIGHWAY	580 N NIMITZ HWY
2009	580 NORTH NIMITZ HIGHWAY	580 N NIMITZ HWY
2008	580 NORTH NIMITZ HIGHWAY	580 N NIMITZ HWY

AC109 **SHWS** **S105887731**
WSW **421 ALAKAWA ST** **ENG CONTROLS** **N/A**
1/4-1/2 **HONOLULU, HI** **INST CONTROL**
0.498 mi. **VCP**
2627 ft. **Site 1 of 2 in cluster AC** **RGA HWS**

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:	Voluntary Response Program
Project Manager:	Mark Sutterfield
Hazard Priority:	NFA
Potential Hazards And Controls:	Hazard Managed With Controls
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Home Depot
HID Number:	Not reported
Facility Registry Identifier:	110013785608
Lead Agency:	HEER
Progran Name:	Voluntary Response Program
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
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued

(Continued) **S105887731**

VCP:

Program:	Voluntary Response Program
Zip Suffix:	Not reported
Supplemental Location:	Not reported
Island:	Oahu

RGA HWS:

2012	HOME DEPOT	421 ALAKAWA ST
2009	HOME DEPOT	421 ALAKAWA ST
2008	HOME DEPOT	421 ALAKAWA ST
2006	HOME DEPOT	421 ALAKAWA ST
2005	HOME DEPOT	421 ALAKAWA ST

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110 **HAWAII HOUSING AUTHORITY** **LUST** **U001235353**
NNE **1002 N SCHOOL ST** **UST** **N/A**
1/4-1/2 **HONOLULU, HI 96817** **RGA LUST**
0.498 mi.
2631 ft.

Relative:
Higher

Actual:
40 ft.

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
Ownder City,St,Zip:	Honolulu, 96817 96817
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

RGA LUST:

2012	HAWAII HOUSING AUTHORITY	1002 N SCHOOL ST
2011	HAWAII HOUSING AUTHORITY	1002 N SCHOOL ST
2010	HAWAII HOUSING AUTHORITY	1002 N SCHOOL ST
2009	HAWAII HOUSING AUTHORITY	1002 N SCHOOL ST
2008	HAWAII HOUSING AUTHORITY	1002 N SCHOOL ST
2007	HAWAII HOUSING AUTHORITY	1002 N SCHOOL ST
2006	HAWAII HOUSING AUTHORITY	1002 N SCHOOL ST
2005	HAWAII HOUSING AUTHORITY	1002 N SCHOOL ST
2004	HAWAII HOUSING AUTHORITY	1002 N SCHOOL ST
2003	HAWAII HOUSING AUTHORITY	1002 N SCHOOL ST
2002	HAWAII HOUSING AUTHORITY	1002 N SCHOOL ST
2001	HAWAII HOUSING AUTHORITY	1002 N SCHOOL ST
2000	HAWAII HOUSING AUTHORITY	1002 N SCHOOL ST
1999	HAWAII HOUSING AUTHORITY	1002 N SCHOOL ST
1998	HAWAII HOUSING AUTHORITY	1002 N SCHOOL ST
1997	HAWAII HOUSING AUTHORITY	1002 N SCHOOL ST

111 WNW 1/2-1 0.504 mi. 2662 ft.

Relative: Lower

Actual: 3 ft.

CITY SQUARE 76 GAS STATION — **SHWS** — **U003402836**
1199 DILLINGHAM BLVD — **LUST** — **N/A**
HONOLULU, HI 96817 — **UST**
RGA HWS
Financial Assurance
RGA LUST

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	Dillingham Boulevard Contaminated Soil
HID Number:	Not reported
Facility Registry Identifier:	110013782095
Lead Agency:	SHWB
Program:	Underground Storage Tank
Project Manager:	Amelia Hicks
Hazard Priority:	NFA
Potential Hazards And Controls:	Hazard Undetermined
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Dillingham Boulevard Contaminated Soil
HID Number:	Not reported
Facility Registry Identifier:	110013782095
Lead Agency:	SHWB
Progran Name:	Underground Storage Tank
Potential Hazard And Controls:	Hazard Undetermined
Priority:	NFA
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:	Not reported
Site Closure Type:	No Further Action Letter - Unrestricted Residential Use
Document Date:	11/28/2001
Document Number:	2001-381-BH
Document Subject:	Site Referral, City Square
Project Manager:	Amelia Hicks
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

LUST:

Facility ID:	9-103241
Facility Status:	Confirmed Release
Facility Status Date:	01/09/2013
Release ID:	030045
Project Officer:	Richard Takaba

Facility ID:	9-103241
Facility Status:	Site Cleanup Completed (NFA)
Facility Status Date:	10/23/1996
Release ID:	960097
Project Officer:	Richard Takaba

CITY SQUARE 76 GAS STATION (Continued) — **U003402836**

UST:

Facility ID:	9-103241
Owner:	Mid Pac Petroleum LLC
Owner Address:	1100 Alakea Street, 8th floor
Ownder City,St,Zip:	Honolulu, 96817 96817
Tank ID:	87
Date Installed:	04/01/1998
Tank Status:	**Currently In Use**
Date Closed:	Not reported
Tank Capacity:	10000
Substance:	Gasoline
Tank ID:	92
Date Installed:	04/01/1998
Tank Status:	**Currently In Use**
Date Closed:	Not reported
Tank Capacity:	10000
Substance:	Gasoline
Tank ID:	R-1
Date Installed:	Not reported
Tank Status:	**Permanently Out of Use**
Date Closed:	09/16/1996
Tank Capacity:	500
Substance:	Used Oil

RGA HWS:

2009	ALOHA 7-ELEVEN CITY SQUARE	1199 DILLINGHAM BLVD
2008	ALOHA 7-ELEVEN CITY SQUARE	1199 DILLINGHAM BLVD
2006	ALOHA 7-ELEVEN CITY SQUARE	1199 DILLINGHAM BLVD
2005	ALOHA 7-ELEVEN CITY SQUARE	1199 DILLINGHAM BLVD
2000	1199 DILLINGHAM BLVD	

HI Financial Assurance:

Alt Facility ID:	9-103241
Tank Id:	87
Tank Status:	Currently In Use
FRTYPE:	Other
Expiration Date:	Not reported
Alt Facility ID:	9-103241
Tank Id:	92
Tank Status:	Currently In Use
FRTYPE:	Other
Expiration Date:	Not reported
Alt Facility ID:	9-103241
Tank Id:	R-1
Tank Status:	Permanently Out of Use
FRTYPE:	Other
Expiration Date:	Not reported
Alt Facility ID:	9-103241
Tank Id:	87

CITY SQUARE 76 GAS STATION (Continued) **U003402836**

Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 04/01/2012

Alt Facility ID: 9-103241
Tank Id: 92
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 04/01/2012

Alt Facility ID: 9-103241
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 04/01/2012

RGA LUST:

2012	7-11 CITY SQUARE	1199 DILLINGHAM BLVD
2011	7-11 CITY SQUARE	1199 DILLINGHAM BLVD
2010	7-11 CITY SQUARE	1199 DILLINGHAM BLVD
2009	7-11 CITY SQUARE	1199 DILLINGHAM BLVD
2008	7-11 CITY SQUARE	1199 DILLINGHAM BLVD
2007	7-11 CITY SQUARE	1199 DILLINGHAM BLVD
2006	7-11 CITY SQUARE	1199 DILLINGHAM BLVD
2005	7-11 CITY SQUARE	1199 DILLINGHAM BLVD
2004	7-11 CITY SQUARE	1199 DILLINGHAM BLVD
2003	7-11 CITY SQUARE	1199 DILLINGHAM BLVD
2002	7-11 CITY SQUARE	1199 DILLINGHAM BLVD
2001	7-11 CITY SQUARE	1199 DILLINGHAM BLVD
2000	7-11 CITY SQUARE	1199 DILLINGHAM BLVD
1999	7-11 CITY SQUARE	1199 DILLINGHAM BLVD
1998	7-ELEVEN CITY SQUARE	1199 DILLINGHAM BLVD
1997	GEM DEPARTMENT STORE	1199 DILLINGHAM BLVD

AB112
SW
1/2-1
0.505 mi.
2664 ft.

Relative:
Lower

Actual:
3 ft.

356 PACIFIC ST
HONOLULU, HI

SHWS **S110169069**
SPILLS **N/A**
RGA HWS

Site 2 of 5 in cluster AB

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:	Steve Mow
Hazard Priority:	High
Potential Hazards And Controls:	Hazard Undetermined
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Chevron Tanker Truck Loading Rack (TTLR)
HID Number:	Not reported
Facility Registry Identifier:	Not reported

(Continued) **S110169069**

Lead Agency:	HEER
Progran Name:	State
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
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:	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

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

(Continued) **S110169069**

RGA HWS:

2012 CHEVRON TANKER TRUCK LOADING RACK (TTLR) 356 PACIFIC ST

AB113 **RGA HWS** **S114473018**
SW **311 PACIFIC STREET** **N/A**
1/2-1 **HONOLULU, HI**
0.507 mi.
2676 ft. **Site 3 of 5 in cluster AB**

Relative:
Lower

Actual:
3 ft.

RGA HWS:

2000 311 PACIFIC STREET

AB114 **BREWER ENVIRONMENTAL INDUSTRIES-PACIFIC STREET** **SHWS** **1000436248**
SW **311 PACIFIC ST** **SPILLS** **N/A**
1/2-1 **HONOLULU, HI 96817** **VCP**
0.507 mi. **RGA HWS**
2676 ft. **Site 4 of 5 in cluster AB**

Relative:
Lower

Actual:
3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	Brewer Environmental Industries-Pacific Street
HID Number:	HID059472357
Facility Registry Identifier:	110000903210
Lead Agency:	HEER
Program:	Voluntary Response Program
Project Manager:	Steve Mow
Hazard Priority:	High
Potential Hazards And Controls:	Hazard Present
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Brewer Environmental Industries-Pacific Street
HID Number:	HID059472357
Facility Registry Identifier:	110000903210
Lead Agency:	HEER
Progran Name:	Voluntary Response Program
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:	Steve Mow
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

BREWER ENVIRONMENTAL INDUSTRIES-PACIFIC STREET (Continued) **1000436248**

HI SPILLS:

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

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

Island:	Oahu
Supplemental Loc. Text:	SW corner of property/pipes from Conoco-Philips
Case Number:	20110824-1130LG
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

Island:	Oahu
Supplemental Loc. Text:	Not reported

BREWER ENVIRONMENTAL INDUSTRIES-PACIFIC STREET (Continued) **1000436248**

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

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

Click this hyperlink while viewing on your computer to access
1 additional HI SPILLS: record(s) in the EDR Site Report.

VCP:
Program: Voluntary Response Program
Zip Suffix: Not reported
Supplemental Location: Not reported
Island: Oahu

RGA HWS:
2012 BREWER ENVIRONMENTAL INDUSTRIES-PACIFIC STREET 311 PACIFIC ST
2009 BREWER ENVIRONMENTAL INDUSTRIES-PACIFIC STREET 311 PACIFIC ST
2008 BREWER ENVIRONMENTAL INDUSTRIES-PACIFIC STREET 311 PACIFIC ST
2006 BREWER ENVIRONMENTAL INDUSTRIES-PACIFIC STREET 311 PACIFIC ST
2005 BREWER ENVIRONMENTAL INDUSTRIES-PACIFIC STREET 311 PACIFIC ST
2000 311 PACIFIC ST

AB115 **POLYNESIAN HOSPITALITY** **RCRA-CESQG** **1000906758**
SW **330 PACIFIC ST** **FINDS** **HI0000589812**
1/2-1 **HONOLULU, HI 96817** **SHWS**
0.507 mi. **LUST**
2679 ft. **Site 5 of 5 in cluster AB** **UST**
SPILLS
Relative: **RGA LUST**
Lower **Financial Assurance**
RGA HWS
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

POLYNESIAN HOSPITALITY (Continued) **1000906758**

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: 04/10/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

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

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

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

POLYNESIAN HOSPITALITY (Continued) **1000906758**

Project Manager: Anna Fernandez
Hazard Priority: Low
Potential Hazards And Controls: Hazard Undetermined
Organization: Not reported
Island: Oahu
Supplemental Location Text: Not reported
SDAR Environmental Interest Name: Polynesian Hospitality
HID Number: Not reported
Facility Registry Identifier: 110005722316
Lead Agency: HEER
Progran Name: State
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: Active Remediation
Facility Status Date: 05/14/1995
Release ID: 910046
Project Officer: Josh Nagashima

UST:
Facility ID: 9-101379
Owner: POLYNESIAN HOSPITALITY
Owner Address: 330 PACIFIC ST
Ownder City,St,Zip: Honolulu, 96817 96817

Tank ID: 5
Date Installed: 01/01/1995
Tank Status: Currently in Use
Date Closed: Not reported
Tank Capacity: 10000
Substance: Diesel

Tank ID: 6
Date Installed: 01/01/1995
Tank Status: Currently in Use
Date Closed: Not reported
Tank Capacity: 1000
Substance: Diesel

POLYNESIAN HOSPITALITY (Continued) **1000906758**

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-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

HI SPILLS:
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: Not reported
Activity Lead: Not reported
Assignment End Date: Not reported
Result: Not reported
File Under: Polynesian Hospitality

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 19941201-2
HID Number: Not reported
Facility Registry Id: 110005722316
Lead and Program: HEER EP&R
ER: Not reported

POLYNESIAN HOSPITALITY (Continued) **1000906758**

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

RGA LUST:

2012	POLYNESIAN HOSPITALITY	330 PACIFIC ST
2011	POLYNESIAN HOSPITALITY	330 PACIFIC ST
2010	POLYNESIAN HOSPITALITY	330 PACIFIC ST
2009	POLYNESIAN HOSPITALITY	330 PACIFIC ST
2008	POLYNESIAN HOSPITALITY	330 PACIFIC ST
2007	POLYNESIAN HOSPITALITY	330 PACIFIC ST
2006	POLYNESIAN HOSPITALITY	330 PACIFIC ST
2005	POLYNESIAN HOSPITALITY	330 PACIFIC ST
2004	POLYNESIAN HOSPITALITY	330 PACIFIC ST
2003	POLYNESIAN HOSPITALITY	330 PACIFIC ST
2002	POLYNESIAN HOSPITALITY	330 PACIFIC ST
2001	POLYNESIAN HOSPITALITY	330 PACIFIC ST
2000	POLYNESIAN HOSPITALITY	330 PACIFIC ST
1999	POLYNESIAN HOSPITALITY	330 PACIFIC ST
1998	POLYNESIAN HOSPITALITY	330 PACIFIC ST
1997	POLYNESIAN HOSPITALITY	330 PACIFIC ST

HI Financial Assurance:
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: 6
Tank Status: Currently in 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: 5
Tank Status: Currently in Use
FRTYPE: Other
Expiration Date: Not reported

Alt Facility ID: 9-101379
Tank Id: R-3
Tank Status: Permanently Out of Use

POLYNESIAN HOSPITALITY (Continued) **1000906758**

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-4
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 01/14/2014

Alt Facility ID: 9-101379
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 01/14/2014

Alt Facility ID: 9-101379
Tank Id: 6
Tank Status: Currently in Use
FRTYPE: Insurance
Expiration Date: 01/14/2014

Alt Facility ID: 9-101379
Tank Id: 5
Tank Status: Currently in Use
FRTYPE: Insurance
Expiration Date: 01/14/2014

Alt Facility ID: 9-101379
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 01/14/2014

Alt Facility ID: 9-101379
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 01/14/2014

RGA HWS:

2012	PHT, INC. DBA POLYNESIAN HOSPITALITY	330 PACIFIC ST
2009	PHT, INC. DBA POLYNESIAN HOSPITALITY	330 PACIFIC ST
2008	PHT, INC. DBA POLYNESIAN HOSPITALITY	330 PACIFIC ST
2006	PHT, INC. DBA POLYNESIAN HOSPITALITY	330 PACIFIC ST
2005	PHT, INC. DBA POLYNESIAN HOSPITALITY	330 PACIFIC ST

AD116 **SHWS** **S106820561**
NW **850 MOOWAA ST.** **SPILLS** **N/A**
1/2-1 **HONOLULU, HI** **RGA HWS**
0.508 mi.
2684 ft. **Site 1 of 2 in cluster AD**

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:	HEER
Program:	State
Project Manager:	Pierette L. Arroyo
Hazard Priority:	NFA
Potential Hazards And Controls:	Hazard Undetermined
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Takamiya Property
HID Number:	HID984468371
Facility Registry Identifier:	110009278771
Lead Agency:	HEER
Progran Name:	State
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:	Not reported
Site Closure Type:	No Further Action Letter - Unrestricted Residential Use
Document Date:	08/15/1994
Document Number:	Not reported
Document Subject:	NFA Letter for the Concrete Masonry Unit
Project Manager:	Pierette L. 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
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

(Continued) **S106820561**

Assignment End Date: Not reported
Result: SOSC NFA
File Under: Takamiya Property

RGA HWS:

2012	TAKAMIYA PROPERTY	850 MOOWAA ST
2009	TAKAMIYA PROPERTY	850 MOOWAA ST
2008	TAKAMIYA PROPERTY	850 MOOWAA ST
2006	TAKAMIYA PROPERTY	850 MOOWAA ST
2005	TAKAMIYA PROPERTY	850 MOOWAA ST
2000	850 MOOWAA ST.	

AE117 **CITY MILL** **SHWS** **U001235472**
SSW **660 N NIMITZ HWY** **LUST** **N/A**
1/2-1 **HONOLULU, HI 96817** **UST**
0.509 mi. **INST CONTROL**
2688 ft. **Site 1 of 2 in cluster AE** **RGA HWS**
RGA LUST

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	City Mill Company, Ltd.
HID Number:	Not reported
Facility Registry Identifier:	110013779189
Lead Agency:	HEER
Progran Name:	State
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
Project Manager:	Anna Fernandez

CITY MILL (Continued) **U001235472**

Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

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
Ownder City,St,Zip:	Honolulu, 96817 96817

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

INST CONTROL:
Potential hazards and controls: Hazard Managed With Controls

CITY MILL (Continued) **U001235472**

Supplemental Location: Not reported
Zip Suffix: Not reported
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

RGA HWS:

2012	CITY MILL COMPANY, LTD.	660 N NIMITZ HWY
2009	CITY MILL COMPANY, LTD.	660 N NIMITZ HWY
2008	CITY MILL COMPANY, LTD.	660 N NIMITZ HWY
2005	CITY MILL COMPANY, LTD.	660 N NIMITZ HWY

RGA LUST:

2012	CITY MILL	660 N NIMITZ HWY
2011	CITY MILL	660 N NIMITZ HWY
2010	CITY MILL	660 N NIMITZ HWY
2009	CITY MILL	660 N NIMITZ HWY
2008	CITY MILL	660 N NIMITZ HWY
2007	CITY MILL	660 N NIMITZ HWY
2006	CITY MILL	660 N NIMITZ HWY
2005	CITY MILL	660 N NIMITZ HWY
2004	CITY MILL	660 N NIMITZ HWY
2003	CITY MILL	660 N NIMITZ HWY
2002	CITY MILL	660 N NIMITZ HWY
2001	CITY MILL	660 N NIMITZ HWY
2000	CITY MILL	660 N NIMITZ HWY

AD118
NW
1/2-1
0.515 mi.
2717 ft.

819 MOOWAA ST **SHWS** **S103290154**
HONOLULU, HI **VCP** **N/A**
RGA HWS

Site 2 of 2 in cluster AD

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Ross Trusts
HID Number:	Not reported
Facility Registry Identifier:	110013778634
Lead Agency:	HEER
Progran Name:	Voluntary Response Program
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

(Continued) **S103290154**

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
Supplemental Location: Not reported
Island: Oahu

RGA HWS:

2012	ROSS TRUSTS	819 MOOWAA ST
2009	ROSS TRUSTS	819 MOOWAA ST
2008	ROSS TRUSTS	819 MOOWAA ST
2006	ROSS TRUSTS	819 MOOWAA ST
2005	ROSS TRUSTS	819 MOOWAA ST

AE119
SSW
1/2-1
0.524 mi.
2768 ft.

634 N NIMITZ HWY **SHWS** **S110061866**
HONOLULU, HI **SPILLS** **N/A**
ENG CONTROLS
INST CONTROL
RGA HWS

Site 2 of 2 in cluster AE

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:	High
Potential Hazards And Controls:	Hazard Managed With Controls
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Zippy's 634 N Nimitz Highway
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Progran Name:	State
Potential Hazard And Controls:	Hazard Managed With Controls
Priority:	High
Assessment:	Response Necessary
Response:	Response Ongoing
Nature of Contamination:	Presumed: Petroleum.
Nature of Residual Contamination:	Not reported
Use Restrictions:	Controls Required to Manage Contamination
Engineering Control:	Engineering Control Required

(Continued) **S110061866**

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

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.

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

RGA HWS:

2012	ZIPPY'S 634 N NIMITZ HIGHWAY	634 N NIMITZ HWY
2009	ZIPPY'S 634 N NIMITZ HIGHWAY	634 N NIMITZ HWY

120
SSE
1/2-1
0.530 mi.
2796 ft.

163 N HOTEL ST
HONOLULU, HI

SHWS **1006819184**
SPILLS **N/A**
RGA HWS

Relative:
Lower

Actual:
12 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
Organization: Not reported
Island: Oahu
Supplemental Location Text: Hotel St & Kekaulike St
SDAR Environmental Interest Name: Kekaulike Diamond Head Block Revitalization
HID Number: Not reported
Facility Registry Identifier: 110013769564
Lead Agency: HEER
Progran Name: State
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

(Continued) **1006819184**

Assignment End Date: Not reported
Result: SOSC NFA
File Under: City and County of Honolulu, Department of Housing and Community Development

RGA HWS:

2012	KEKAULIKE DIAMOND HEAD BLOCK REVITALIZATION	163 N HOTEL ST
2009	KEKAULIKE DIAMOND HEAD BLOCK REVITALIZATION	163 N HOTEL ST
2008	KEKAULIKE DIAMOND HEAD BLOCK REVITALIZATION	163 N HOTEL ST
2006	KEKAULIKE DIAMOND HEAD BLOCK REVITALIZATION	163 N HOTEL ST
2005	KEKAULIKE DIAMOND HEAD BLOCK REVITALIZATION	163 N HOTEL ST

AC121 **ALAKAWA ST & NIMITZ HWY** **SHWS** **S108008729**
WSW **HONOLULU, HI** **SPILLS** **N/A**
1/2-1 **RGA HWS**
0.551 mi.
2909 ft. **Site 2 of 2 in cluster AC**

Relative: Lower

Actual: 3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	Best Buy
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	Not reported
Program:	State
Project Manager:	Mark Sutterfield
Hazard Priority:	NFA
Potential Hazards And Controls:	No Hazard
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Best Buy
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	Not reported
Program Name:	State
Potential Hazard And Controls:	No Hazard
Priority:	NFA
Assessment:	Response Necessary
Response:	Response Complete
Nature of Contamination:	Found: Hydrocarbon
Nature of Residual Contamination:	No (hydrocarbon) contamination left on site above 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:	Honolulu Harbor Iwilei Unit
Site Closure Type:	No Further Action Letter - Unrestricted Residential Use
Document Date:	01/24/2006
Document Number:	2006-039-MS
Document Subject:	NFA letter

(Continued) **S108008729**

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:	20041029-1530
HID Number:	Not reported
Facility Registry Id:	Not reported
Lead and Program:	HEER EP&R
ER:	Referred
Units:	Best Buy Site
Substances:	Petroleum
Less Or Greater Than:	<
Numerical Quantity:	Not reported
Units:	Unknown
Activity Type:	Response
Activity Lead:	Liz Galvez
Assignment End Date:	2004-11-10 00:00:00
Result:	Refer to ISST
File Under:	Best Buy

RGA HWS:

2012	BEST BUY	ALAKAWA ST & NIMITZ HWY
2012	GTE HAWAIIAN TEL - CONTAMINATED SOIL	ALAKAWA ST & NIMITZ HWY
2009	GTE HAWAIIAN TEL - CONTAMINATED SOIL	ALAKAWA ST & NIMITZ HWY
2009	BEST BUY	ALAKAWA ST & NIMITZ HWY
2008	BEST BUY	ALAKAWA ST & NIMITZ HWY
2008	GTE HAWAIIAN TEL - CONTAMINATED SOIL	ALAKAWA ST & NIMITZ HWY
2005	GTE HAWAIIAN TEL- CONTAMINATED SOIL	ALAKAWA ST & NIMITZ HWY

AF122 **700 N NIMITZ IDPP RELEASE** **SHWS** **S110061245**
SW **700 N NIMITZ HWY** **SPILLS** **N/A**
1/2-1 **HONOLULU, HI** **ENG CONTROLS**
0.585 mi. **INST CONTROL**
3088 ft. **Site 1 of 4 in cluster AF** **RGA HWS**

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:	Medium
Potential Hazards And Controls:	Hazard Managed With Controls
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	TMK 1-1-5-013-003
SDAR Environmental Interest Name:	700 N Nimitz IDPP Release
HID Number:	Not reported

700 N NIMITZ IDPP RELEASE (Continued) **S110061245**

Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Progran Name:	State
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

HI SPILLS:

Island:	Oahu
Supplemental Loc. Text:	TMK 1-1-5-013-003
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

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

RGA HWS:

700 N NIMITZ IDPP RELEASE (Continued) **S110061245**

2012	700 N NIMITZ IDPP RELEASE	700 N NIMITZ HWY
2009	700 N NIMITZ IDPP RELEASE	700 N NIMITZ HWY

AG123 **HAWAIIAN GRAIN CORPORATION** **SHWS** **U003402808**
SSW **701 N NIMITZ HWY** **LUST** **N/A**
1/2-1 **HONOLULU, HI 96817** **UST**
0.586 mi. **RGA HWS**
3093 ft. **Site 1 of 4 in cluster AG** **RGA LUST**

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Fred L. Waldron Feed Mill
HID Number:	Not reported
Facility Registry Identifier:	110013789640
Lead Agency:	HEER
Progran Name:	State
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

HAWAIIAN GRAIN CORPORATION (Continued) **U003402808**

Ownder City,St,Zip: Honolulu, 96817 96817

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

RGA HWS:

2012	HAWAII GRAIN CORPORATION	701 N NIMITZ HWY
2009	HAWAII GRAIN CORPORATION	701 N NIMITZ HWY
2008	HAWAII GRAIN CORPORATION	701 N NIMITZ HWY
2006	HAWAII GRAIN CORPORATION	701 N NIMITZ HWY
2005	HAWAII GRAIN CORPORATION	701 N NIMITZ HWY
2000	701 N. NIMITZ HWY	

RGA LUST:

2012	HAWAIIAN GRAIN CORPORATION	701 N NIMITZ HWY
2011	HAWAIIAN GRAIN CORPORATION	701 N NIMITZ HWY
2010	HAWAIIAN GRAIN CORPORATION	701 N NIMITZ HWY
2009	HAWAIIAN GRAIN CORPORATION	701 N NIMITZ HWY
2008	HAWAIIAN GRAIN CORPORATION	701 N NIMITZ HWY
2007	HAWAIIAN GRAIN CORPORATION	701 N NIMITZ HWY
2006	HAWAIIAN GRAIN CORPORATION	701 N NIMITZ HWY
2005	HAWAIIAN GRAIN CORPORATION	701 N NIMITZ HWY
2004	HAWAIIAN GRAIN CORPORATION	701 N NIMITZ HWY
2003	HAWAIIAN GRAIN CORPORATION	701 N NIMITZ HWY
2002	HAWAIIAN GRAIN CORPORATION	701 N NIMITZ HWY
2001	HAWAIIAN GRAIN CORPORATION	701 N NIMITZ HWY
2000	HAWAIIAN GRAIN CORPORATION	701 N NIMITZ HWY
1999	HAWAIIAN GRAIN CORPORATION	701 N NIMITZ HWY
1998	HAWAIIAN GRAIN CORP.	701 N NIMITZ HWY
1997	HAWAIIAN GRAIN CORP.	701 N NIMITZ HWY
1995	HAWAIIAN GRAIN CORP.	701 N. NIMITZ HWY.
1993	HAWAIIAN GRAIN CORP.	701 N. NIMITZ HWY.

AH124 **RGA HWS** **S114472965**
WNW **1336 DILLINGHAM BOULEVARD** **N/A**
1/2-1 **HONOLULU, HI**
0.588 mi.
3103 ft. **Site 1 of 2 in cluster AH**

Relative: Lower

Actual: 7 ft.

RGA HWS:

2012	KAMEHAMEHA SCHOOLS - 1336 DILLINGHAM BOULEVARD	1336 DILLINGHAM BOULEVARD
2009	KAMEHAMEHA SCHOOLS - 1336 DILLINGHAM BOULEVARD	1336 DILLINGHAM BOULEVARD

AH125 **KAMEHAMEHA SCHOOLS - 1336 DILLINGHAM BOULEVARD** **SHWS** **S110061575**
WNW **1336 DILLINGHAM BLVD** **SPILLS** **N/A**
1/2-1 **HONOLULU, HI**
0.588 mi.
3103 ft. **Site 2 of 2 in cluster AH**

Relative: Lower

Actual: 7 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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Kamehameha Schools - 1336 Dillingham Boulevard
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Progran Name:	State
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:

Island:	Oahu
Supplemental Loc. Text:	Not reported
Case Number:	20090213-1326

KAMEHAMEHA SCHOOLS - 1336 DILLINGHAM BOULEVARD (Continued) **S110061575**

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

AG126 **703 N NIMITZ HWY** **SHWS** **S106817404**
SSW **HONOLULU, HI** **RGA HWS** **N/A**
1/2-1
0.598 mi.
3157 ft. **Site 2 of 4 in cluster AG**

Relative: Lower

Actual: 3 ft.

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:	Medium
Potential Hazards And Controls:	Hazard Present
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Hawaiian Flour Mill
HID Number:	Not reported
Facility Registry Identifier:	110013791469
Lead Agency:	HEER
Progran Name:	State
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:	Steve Mow
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

(Continued) **S106817404**

RGA HWS:

2012	HAWAIIAN FLOUR MILL	703 N NIMITZ HWY
2009	HAWAIIAN FLOUR MILL	703 N NIMITZ HWY
2008	HAWAIIAN FLOUR MILL	703 N NIMITZ HWY
2006	HAWAIIAN FLOUR MILL	703 N NIMITZ HWY
2005	HAWAIIAN FLOUR MILL	703 N NIMITZ HWY

AG127 **MOANA PAA KAI** **RCRA-CESQG** **1000146699**
SSW **705 N NIMITZ HWY** **SHWS** **HID982411357**
1/2-1 **HONOLULU, HI 96817** **SPILLS**
0.600 mi. **RGA HWS**
3166 ft. **Site 3 of 4 in cluster AG**

Relative: Lower

Actual: 3 ft.

RCRA-CESQG:

Date form received by agency:	04/07/2008
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:	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:	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

MOANA PAA KAI (Continued) **1000146699**

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
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: 02/07/1989
Facility name: MOANA PAA KAI
Site name: HAWAIIAN TUG & BARGE CORP
Classification: Not a generator, verified

Date form received by agency: 03/25/1988
Facility name: MOANA PAA KAI
Site name: HAWAIIAN TUG & BARGE CORP
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS 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,

MOANA PAA KAI (Continued) **1000146699**

BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

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: 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: Not reported
Area of violation: Listing - 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: 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

MOANA PAA KAI (Continued) **1000146699**

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
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

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

MOANA PAA KAI (Continued) **1000146699**

Lead Agency: HEER
Program: State
Project Manager: Anna Fernandez
Hazard Priority: Medium
Potential Hazards And Controls: Hazard Present
Organization: Not reported
Island: Oahu
Supplemental Location Text: Honolulu Harbor Pier 24-28
SDAR Environmental Interest Name: Young Brothers, Ltd. Piers 24-28
HID Number: Not reported
Facility Registry Identifier: 110005284110
Lead Agency: HEER
Program Name: State
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
Organization: Not reported
Island: Oahu
Supplemental Location Text: Honolulu Harbor Pier 21
SDAR Environmental Interest Name: Hawaiian Tug & Barge Corporation
HID Number: Not reported
Facility Registry Identifier: 110005726438
Lead Agency: HEER
Program Name: State
Potential Hazard And Controls: Hazard Undetermined
Priority: Low
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

MOANA PAA KAI (Continued) **1000146699**

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: 19950727
HID Number: Not reported
Facility Registry Id: 110005284110
Lead and Program: HEER EP&R
ER: Yes
Units: Pier 29, Young Brothers 2 Gallon Diesel Spill
Substances: Diesel Fuel
Less Or Greater Than: Not reported
Numerical Quantity: 2
Units: Gallons
Activity Type: Response
Activity Lead: Mike Cripps
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Young Brothers, Ltd.

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.

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

MOANA PAA KAI (Continued) **1000146699**

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.

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 21
Case Number: 20000809-1608
HID Number: Not reported
Facility Registry Id: 110005726438
Lead and Program: HEER EP&R
ER: No
Units: Hawaii Tug & Barge
Substances: Diesel Fuel #2
Less Or Greater Than: Not reported
Numerical Quantity: 50
Units: Gallons
Activity Type: Response
Activity Lead: Liz Galvez
Assignment End Date: Not reported
Result: Not reported
File Under: Hawaiian Tug & Barge Corporation

Island: Oahu
Supplemental Loc. Text: Honolulu Harbor Pier 21
Case Number: 20070521-0853
HID Number: Not reported
Facility Registry Id: 110005726438
Lead and Program: HEER EP&R
ER: No -
Units: Diesel Fuel Release NRC 835985
Substances: Diesel Fuel
Less Or Greater Than: Not reported
Numerical Quantity: 40
Units: Gallons
Activity Type: Response
Activity Lead: Paul Chong
Assignment End Date: 2007-05-21 00:00:00
Result: SOSC NFA
File Under: Hawaiian Tug & Barge Corporation

Click this hyperlink while viewing on your computer to access
5 additional HI SPILLS: record(s) in the EDR Site Report.

RGA HWS:

2012	YOUNG BROTHERS, LTD PIERS 24-28	705 N NIMITZ HWY
2012	HAWAIIAN TUG & BARGE CORPORATION	705 N NIMITZ HWY
2009	YOUNG BROTHERS, LTD PIERS 24-28	705 N NIMITZ HWY
2009	HAWAIIAN TUG & BARGE CORPORATION	705 N NIMITZ HWY
2008	YOUNG BROTHERS, LTD PIERS 24-28	705 N NIMITZ HWY
2008	HAWAIIAN TUG & BARGE CORPORATION	705 N NIMITZ HWY
2006	YOUNG BROTHERS, LTD PIERS 24-28	705 N NIMITZ HWY
2006	HAWAIIAN TUG & BARGE CORPORATION	705 N NIMITZ HWY

MOANA PAA KAI (Continued) **1000146699**

2005 HAWAIIAN TUG & BARGE CORPORATION 705 N NIMITZ HWY
2000 705 N NIMITZ HWY

AG128
SSW
1/2-1
0.616 mi.
3252 ft.

Relative:
Lower

Actual:
3 ft.

ALAKEA ST **SHWS** **S107024013**
HONOLULU, HI **SPILLS** **N/A**
RGA HWS

Site 4 of 4 in cluster AG

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Honolulu Harbor Pier 20
SDAR Environmental Interest Name:	Sause Brothers
HID Number:	Not reported
Facility Registry Identifier:	110013778778
Lead Agency:	HEER
Progran Name:	State
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:	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:	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

(Continued) **S107024013**

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

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
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

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

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

(Continued) **S107024013**

Activity Lead:	Liz Galvez
Assignment End Date:	Not reported
Result:	SOSC NFA
File Under:	Sause Brothers
Island:	Oahu
Supplemental Loc. Text:	Honolulu Harbor Pier 20
Case Number:	19980731-1249
HID Number:	Not reported
Facility Registry Id:	110013778778
Lead and Program:	HEER EP&R
ER:	No
Units:	Tug Kahu, diesel spill.
Substances:	Diesel Fuel #2
Less Or Greater Than:	Not reported
Numerical Quantity:	25
Units:	Gallons
Activity Type:	Response
Activity Lead:	Bill Perry
Assignment End Date:	Not reported
Result:	Not reported
File Under:	Sause Brothers

Click this hyperlink while viewing on your computer to access
2 additional HI SPILLS: record(s) in the EDR Site Report.

RGA HWS:

2012	SAUSE BROTHERS	ALAKEA ST
2009	SAUSE BROTHERS	ALAKEA ST

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129 East 1/2-1 0.617 mi. 3259 ft.

Relative: Higher

Actual: 70 ft.

KUAKINI MEDICAL CENTER#
347 N KUAKINI ST
HONOLULU, HI 96817

RCRA-SQG 1000270690
FINDS HID077701613
SHWS
LUST
UST
SPILLS
RGA LUST
Financial Assurance
RGA HWS

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

KUAKINI MEDICAL CENTER# (Continued) **1000270690**

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

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
Facility name:	KUAKINI MEDICAL CENTER#
Classification:	Small Quantity Generator
Violation Status:	No violations found

FINDS:

Registry ID: 110005723262

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

KUAKINI MEDICAL CENTER# (Continued) **1000270690**

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Kuakini Medical Center
SDAR Environmental Interest Name:	Kuakini Medical Center
HID Number:	Not reported
Facility Registry Identifier:	110005723262
Lead Agency:	HEER
Progran Name:	State
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
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

LUST:

Facility ID:	9-100264
Facility Status:	LUST Cleanup Initiated
Facility Status Date:	08/20/2011
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

KUAKINI MEDICAL CENTER# (Continued) **1000270690**

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
Ownder City,St,Zip:	Honolulu, 96817 96817

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
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

KUAKINI MEDICAL CENTER# (Continued) **1000270690**

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

RGA LUST:

2012 KUAKINI MEDICAL CENTER - MAKAI EQUIPMENT ROOM 347 N KUAKINI ST
2011 KUAKINI MEDICAL CENTER - MAKAI EQUIPMENT ROOM 347 N KUAKINI ST
2010 KUAKINI MEDICAL CENTER - MAKAI EQUIPMENT ROOM 347 N KUAKINI ST
2009 KUAKINI MEDICAL CENTER - MAKAI EQUIPMENT ROOM 347 N KUAKINI ST
2008 KUAKINI MEDICAL CENTER - MAKAI EQUIPMENT ROOM 347 N KUAKINI ST
2007 KUAKINI MEDICAL CENTER - MAKAI EQUIPMENT ROOM 347 N KUAKINI ST
2006 KUAKINI MEDICAL CENTER - MAKAI EQUIPMENT ROOM 347 N KUAKINI ST
2005 KUAKINI MEDICAL CENTER - MAKAI EQUIPMENT ROOM 347 N KUAKINI ST
2004 KUAKINI MEDICAL CENTER - MAKAI EQUIPMENT ROOM 347 N KUAKINI ST
2003 KUAKINI MEDICAL CENTER - MAKAI EQUIPMENT ROOM 347 N KUAKINI ST
2002 KUAKINI MEDICAL CENTER - MAKAI EQUIPMENT ROOM 347 N KUAKINI ST
2001 KUAKINI MEDICAL CENTER - MAKAI EQUIPMENT ROOM 347 N KUAKINI ST
2000 KUAKINI MEDICAL CENTER - MAKAI EQUIPMENT ROOM 347 N KUAKINI ST
1999 KUAKINI MEDICAL CENTER - MAKAI EQUIPMENT ROOM 347 N KUAKINI ST
1998 KUAKINI MEDICAL CENTER 347 N KUAKINI ST
1997 KUAKINI MEDICAL CENTER 347 N KUAKINI ST

HI Financial Assurance:

Alt Facility ID: 9-100264
Tank Id: M-1
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 10/01/2010

Alt Facility ID: 9-100264
Tank Id: M-2
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 10/01/2010

KUAKINI MEDICAL CENTER# (Continued) **1000270690**

Alt Facility ID: 9-100264
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 10/01/2010

Alt Facility ID: 9-100264
Tank Id: R-M-1
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 10/01/2010

Alt Facility ID: 9-100264
Tank Id: R-M-2
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 10/01/2010

RGA HWS:

2012 KUAKINI MEDICAL CENTER 347 N KUAKINI ST

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130 South 1/2-1 0.620 mi. 3273 ft. **950 MAUNAKEA ST HONOLULU, HI** **SHWS S106821168 RGA HWS N/A**

Relative: Lower

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
Lead Agency: HEER
Program: State
Project Manager: Mark Sutterfield
Hazard Priority: Low
Potential Hazards And Controls: Hazard Present
Organization: Not reported
Island: Oahu
Supplemental Location Text: Not reported
SDAR Environmental Interest Name: Yee Hop Building Maunakea Street
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Progran Name: State
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

(Continued) **S106821168**

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

RGA HWS:

2012	YEE HOP BUILDING MAUNAKEA STREET	950 MAUNAKEA ST
2009	YEE HOP BUILDING MAUNAKEA STREET	950 MAUNAKEA ST
2008	YEE HOP BUILDING MAUNAKEA STREET	950 MAUNAKEA ST
2006	YEE HOP BUILDING MAUNAKEA STREET	950 MAUNAKEA ST
2005	YEE HOP BUILDING MAUNAKEA STREET	950 MAUNAKEA ST

AF131 **SHWS** **S106816192**
SW **739 N NIMITZ HWY** **RGA HWS** **N/A**
1/2-1 **HONOLULU, HI**
0.623 mi.
3287 ft. **Site 2 of 4 in cluster AF**

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Honolulu Harbor Pier 29
SDAR Environmental Interest Name:	BHP Pier 29
HID Number:	Not reported
Facility Registry Identifier:	110013780462
Lead Agency:	HEER
Progran Name:	State
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

(Continued) **S106816192**

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	Aloha Petroleum Terminal
HID Number:	Not reported
Facility Registry Identifier:	110005723404
Lead Agency:	HEER
Program:	State
Project Manager:	Jordan Nakayama
Hazard Priority:	Medium
Potential Hazards And Controls:	Hazard Present
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Aloha Petroleum Terminal
HID Number:	Not reported
Facility Registry Identifier:	110005723404
Lead Agency:	HEER
Progran Name:	State
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

RGA HWS:

2012	ALOHA PETROLEUM TERMINAL	739 N NIMITZ HWY
2012	BHP PIER 29	739 N NIMITZ HWY
2009	ALOHA PETROLEUM TERMINAL	739 N NIMITZ HWY
2009	BHP PIER 29	739 N NIMITZ HWY
2008	ALOHA PETROLEUM TERMINAL	739 N NIMITZ HWY
2008	BHP PIER 29	739 N NIMITZ HWY
2006	BHP PIER 29	739 N NIMITZ HWY
2006	ALOHA PETROLEUM TERMINAL	739 N NIMITZ HWY
2005	BHP PIER 29	739 N NIMITZ HWY
2005	ALOHA PETROLEUM TERMINAL	739 N NIMITZ HWY

AF132 **RGA HWS** **S114473087**
SW **739 NORTH NIMITZ HIGHWAY** **N/A**
1/2-1 **HONOLULU, HI**
0.623 mi.
3287 ft. **Site 3 of 4 in cluster AF**

Relative:
Lower

Actual:
3 ft.

RGA HWS:

	2000	739 NORTH NIMITZ HIGHWAY

AF133 **755 N NIMITZ HWY** **SHWS** **S110061246**
SW **755 N NIMITZ HWY** **SPILLS** **N/A**
1/2-1 **HONOLULU, HI** **ENG CONTROLS**
0.634 mi. **INST CONTROL**
3350 ft. **Site 4 of 4 in cluster AF** **RGA HWS**

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Akamai Car Rental
SDAR Environmental Interest Name:	755 North Nimitz Highway
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Progran Name:	State
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

HI SPILLS:

Island:	Oahu
Supplemental Loc. Text:	Akamai Car Rental
Case Number:	20081118-0855

755 N NIMITZ HWY (Continued) **S110061246**

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

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

RGA HWS:

2012	755 N NIMITZ HWY	755 N NIMITZ HWY
2009	755 N NIMITZ HWY	755 N NIMITZ HWY

AI134 **SHWS** **S106821137**
SW **900 N NIMITZ HWY** **SPILLS** **N/A**
1/2-1 **HONOLULU, HI** **RGA HWS**
0.637 mi.
3362 ft. **Site 1 of 6 in cluster AI**

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:	Amelia Hicks
Hazard Priority:	Low
Potential Hazards And Controls:	Hazard Present
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Weyerhaeuser
HID Number:	Not reported
Facility Registry Identifier:	110001760390

(Continued) **S106821137**

Lead Agency:	HEER
Progran Name:	State
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:	Amelia Hicks
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

HI SPILLS:

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

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
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

(Continued) **S106821137**

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

RGA HWS:

2012	WEYERHAEUSER	900 N NIMITZ HWY
2009	WEYERHAEUSER	900 N NIMITZ HWY
2008	WEYERHAEUSER	900 N NIMITZ HWY
2006	WEYERHAEUSER	900 N NIMITZ HWY
2005	WEYERHAEUSER	900 N NIMITZ HWY

AJ135 **GTE HAWAIIAN TEL - CONTAMINATED SOIL** **SHWS** **S106817210**
WSW **ALAKAWA ST & NIMITZ HWY** **SPILLS** **N/A**
1/2-1 **HONOLULU, HI 96817** **ENG CONTROLS**
0.639 mi. **INST CONTROL**
3372 ft. **Site 1 of 4 in cluster AJ**

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	GTE Hawaiian Tel - Contaminated Soil
HID Number:	Not reported
Facility Registry Identifier:	110013789524
Lead Agency:	HEER
Progran Name:	State
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

GTE HAWAIIAN TEL - CONTAMINATED SOIL (Continued) **S106817210**

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:	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

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

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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AI136 **CHEVRON USA - HNL DISTRIBUTION C** **SHWS** **U003154454**
WSW **933 N NIMITZ HWY** **ENG CONTROLS** **N/A**
1/2-1 **, HI** **Financial Assurance**
0.640 mi. **RGA HWS**
3377 ft. **Site 2 of 6 in cluster AI**

Relative:
Lower

Actual:
3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Not reported
Island:	Oahu
Environmental Interest:	Chevron Honolulu Transportation Terminal

CHEVRON USA - HNL DISTRIBUTION C (Continued) **U003154454**

HID Number:	Not reported
Facility Registry Identifier:	110000486466
Lead Agency:	HEER
Program:	State
Project Manager:	Steve Mow
Hazard Priority:	Medium
Potential Hazards And Controls:	Hazard Managed With Controls
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Chevron Honolulu Transportation Terminal
HID Number:	Not reported
Facility Registry Identifier:	110000486466
Lead Agency:	HEER
Progran Name:	State
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:	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

HI Financial Assurance:

Alt Facility ID:	9-100242
Tank Id:	R-1
Tank Status:	Permanently Out of Use
FRTYPE:	Other
Expiration Date:	Not reported

RGA HWS:

2012	CHEVRON HONOLULU TRANSPORTATION TERMINAL	933 N NIMITZ HWY
2009	CHEVRON HONOLULU TRANSPORTATION TERMINAL	933 N NIMITZ HWY
2008	CHEVRON HONOLULU TRANSPORTATION TERMINAL	933 N NIMITZ HWY
2006	CHEVRON HONOLULU TRANSPORTATION TERMINAL	933 N NIMITZ HWY
2005	CHEVRON HONOLULU TRANSPORTATION TERMINAL	933 N NIMITZ HWY

AJ137 **SHWS** **S106817380**
WSW **965 N NIMITZ HWY** **SPILLS** **N/A**
1/2-1 **HONOLULU, HI** **ENG CONTROLS**
0.641 mi. **RGA HWS**
3387 ft. **Site 2 of 4 in cluster AJ**

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:	Medium
Potential Hazards And Controls:	Hazard Managed With Controls
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Honolulu Harbor Pier 35
SDAR Environmental Interest Name:	Chevron Pier 35 Pipeline Release
HID Number:	Not reported
Facility Registry Identifier:	110013779278
Lead Agency:	HEER
Program Name:	State
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 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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Honolulu Harbor

(Continued) **S106817380**

SDAR Environmental Interest Name:	Hawaii Stevedores
HID Number:	Not reported
Facility Registry Identifier:	110005725082
Lead Agency:	HEER
Program Name:	State
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:	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.

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

RGA HWS:

2012	CHEVRON PIER 35 PIPELINE RELEASE	965 N NIMITZ HWY
2012	HAWAII STEVEDORES	965 N NIMITZ HWY
2009	CHEVRON PIER 35 PIPELINE RELEASE	965 N NIMITZ HWY
2009	HAWAII STEVEDORES	965 N NIMITZ HWY
2008	CHEVRON PIER 35 PIPELINE RELEASE	965 N NIMITZ HWY
2008	HAWAII STEVEDORES	965 N NIMITZ HWY

(Continued) **S106817380**

2006	HAWAII STEVEDORES	965 N NIMITZ HWY
2006	CHEVRON PIER 35 PIPELINE RELEASE	965 N NIMITZ HWY
2005	HAWAII STEVEDORES	965 N NIMITZ HWY
2005	CHEVRON PIER 35 PIPELINE RELEASE	965 N NIMITZ HWY

AJ138
WSW
1/2-1
0.645 mi.
3408 ft.

HART ST WWPS **SHWS** **U003154453**
1031 N NIMITZ HWY **UIC** **N/A**
, HI **Financial Assurance**
RGA HWS

Site 3 of 4 in cluster AJ

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Nimitz Highway Relief Sewer
HID Number:	Not reported
Facility Registry Identifier:	110013788678
Lead Agency:	HEER
Progran Name:	State
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

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

HART ST WWPS (Continued) **U003154453**

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

HI Financial Assurance:

Alt Facility ID:	9-100137
Tank Id:	M-2
Tank Status:	Currently In Use
FRTYPE:	Other
Expiration Date:	06/30/2012

Alt Facility ID:	9-100137
Tank Id:	R-M-1
Tank Status:	Permanently Out of Use
FRTYPE:	Other
Expiration Date:	06/30/2012

RGA HWS:

2012	HART STREET WWPS	1031 N NIMITZ HWY
2009	HART STREET WWPS	1031 N NIMITZ HWY
2008	HART STREET WWPS	1031 N NIMITZ HWY
2006	HART STREET WWPS	1031 N NIMITZ HWY

AJ139
WSW
1/2-1
0.645 mi.
3408 ft.

1031 NIMITZ HWY **RGA HWS** **S114472955**
HONOLULU, HI **N/A**

Site 4 of 4 in cluster AJ

Relative:
Lower

Actual:
3 ft.

RGA HWS:

2005	HART STREET WWPS	1031 NIMITZ HWY

AK140 **775 NORTH NIMITZ HIGHWAY** **SHWS** **S110061247**
SW **775 N NIMITZ HWY** **ENG CONTROLS** **N/A**
1/2-1 **HONOLULU, HI** **INST CONTROL**
0.650 mi. **RGA HWS**
3432 ft. **Site 1 of 6 in cluster AK**

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	775 North Nimitz Highway
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Progran Name:	State
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

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

775 NORTH NIMITZ HIGHWAY (Continued) **S110061247**

RGA HWS:

2012	775 NORTH NIMITZ HIGHWAY	775 N NIMITZ HWY
2009	775 NORTH NIMITZ HIGHWAY	775 N NIMITZ HWY

AI141 **RGA HWS** **S114473113**
SW **861 N NIMITZ HWY** **N/A**
1/2-1 **HONOLULU, HI**
0.652 mi.
3443 ft. **Site 3 of 6 in cluster AI**

Relative:
Lower

Actual:
3 ft.

RGA HWS:

2005	861-869 NORTH NIMITZ HIGHWAY	861 N NIMITZ HWY

AI142 **861-869 NORTH NIMITZ HIGHWAY** **SHWS** **S108859941**
SW **861-869 N NIMITZ HWY** **ENG CONTROLS** **N/A**
1/2-1 **HONOLULU, HI 96817** **INST CONTROL**
0.652 mi. **RGA HWS**
3443 ft. **Site 4 of 6 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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Hakim Properties, Inc.
HID Number:	Not reported
Facility Registry Identifier:	110013790460
Lead Agency:	HEER
Progran Name:	State
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, 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

861-869 NORTH NIMITZ HIGHWAY (Continued) **S108859941**

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

RGA HWS:

2012	861-869 NORTH NIMITZ HIGHWAY	861-869 N NIMITZ HWY
2009	861-869 NORTH NIMITZ HIGHWAY	861-869 N NIMITZ HWY
2008	861-869 NORTH NIMITZ HIGHWAY	861-869 N NIMITZ HWY

AI143 **RGA HWS** **S114473114**
SW **861- 869 N NIMITZ HWY** **N/A**
1/2-1 **HONOLULU, HI**
0.652 mi.
3443 ft. **Site 5 of 6 in cluster AI**

Relative:
Lower

Actual:
3 ft.

RGA HWS:

2006	861-869 NORTH NIMITZ HIGHWAY	861- 869 N NIMITZ HWY

AI144 **SHWS** **U001235311**
SW **855 N NIMITZ HWY** **SPILLS** **N/A**
1/2-1 **HONOLULU, HI** **ENG CONTROLS**
0.653 mi. **INST CONTROL**
3449 ft. **Site 6 of 6 in cluster AI** **RGA HWS**

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
Organization: Not reported
Island: Oahu

(Continued) **U001235311**

Supplemental Location Text: Not reported
SDAR Environmental Interest Name: Hawaiian Electric Company (HECO) - Iwilei Tank Yard
HID Number: Not reported
Facility Registry Identifier: 110013791593
Lead Agency: HEER
Progran Name: State
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

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)

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: Diesel Fuel/Fuel Oil
Less Or Greater Than: Not reported
Numerical Quantity: Not reported
Units: Not reported
Activity Type: Response

(Continued) **U001235311**

Activity Lead: Curtis Martin
Assignment End Date: 2006-05-31 00:00:00
Result: Refer to SDAR
File Under: Hawaiian Electric Co., Inc. (HECO)

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)

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

RGA HWS:
2012 HAWAIIAN ELECTRIC COMPANY (HECO) - IWILEI TANK YARD 855 N NIMITZ HWY
2009 HAWAIIAN ELECTRIC COMPANY (HECO) - IWILEI TANK YARD 855 N NIMITZ HWY
2008 HAWAIIAN ELECTRIC COMPANY (HECO) - IWILEI TANK YARD 855 N NIMITZ HWY
2005 HAWAIIAN ELECTRIC COMPANY (HECO)-IWILEI TANK YARD 855 N NIMITZ HWY

AL145 **SHWS** **S108008763**
WSW **1105 N NIMITZ HWY** **SPILLS** **N/A**
1/2-1 **HONOLULU, HI** **INST CONTROL**
0.656 mi. **RGA HWS**
3464 ft. **Site 1 of 3 in cluster AL**

Relative:
Lower

Actual:
3 ft.

SHWS:
Organization: Not reported
Supplemental Location: Honolulu Harbor Pier 36
Island: Oahu

(Continued) **S108008763**

Environmental Interest: Chevron Kapalama Northeast Parcel
HID Number: Not reported
Facility Registry Identifier: 110013779731
Lead Agency: HEER
Program: State
Project Manager: Jordan Nakayama
Hazard Priority: Medium
Potential Hazards And Controls: Hazard Present
Organization: Not reported
Island: Oahu
Supplemental Location Text: Honolulu Harbor Pier 36
SDAR Environmental Interest Name: Chevron Kapalama Northeast Parcel
HID Number: Not reported
Facility Registry Identifier: 110013779731
Lead Agency: HEER
Progran Name: State
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
Organization: Not reported
Island: Oahu
Supplemental Location Text: Kapalama
SDAR Environmental Interest Name: Chevron Kapalama Northwest Parcel
HID Number: Not reported
Facility Registry Identifier: 110013779722
Lead Agency: HEER
Progran Name: State
Potential Hazard And Controls: Hazard Present
Priority: Low
Assessment: Response Necessary
Response: Response Ongoing

(Continued) **S108008763**

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
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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Honolulu Harbor Pier 37
SDAR Environmental Interest Name:	Chevron Kapalama Southwest Parcel
HID Number:	Not reported
Facility Registry Identifier:	110013779713
Lead Agency:	HEER
Progran Name:	State
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

(Continued) **S108008763**

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Chevron Kapalama Terminal
HID Number:	Not reported
Facility Registry Identifier:	110005730842
Lead Agency:	HEER
Progran Name:	State
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

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.

Island:	Oahu

(Continued) **S108008763**

Supplemental Loc. Text:	Not reported
Case Number:	19930315
HID Number:	Not reported
Facility Registry Id:	110005730842
Lead and Program:	HEER EP&R
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.

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

RGA HWS:

2012	CHEVRON KAPALAMA NORTHEAST PARCEL	1105 N NIMITZ HWY
2012	CHEVRON KAPALAMA SOUTHWEST PARCEL	1105 N NIMITZ HWY
2012	CHEVRON KAPALAMA TERMINAL	1105 N NIMITZ HWY
2012	CHEVRON KAPALAMA NORTHWEST PARCEL	1105 N NIMITZ HWY
2009	CHEVRON KAPALAMA TERMINAL	1105 N NIMITZ HWY
2009	CHEVRON KAPALAMA SOUTHWEST PARCEL	1105 N NIMITZ HWY
2009	CHEVRON KAPALAMA NORTHEAST PARCEL	1105 N NIMITZ HWY
2009	CHEVRON KAPALAMA NORTHWEST PARCEL	1105 N NIMITZ HWY
2008	CHEVRON KAPALAMA SOUTHWEST PARCEL	1105 N NIMITZ HWY
2008	CHEVRON KAPALAMA NORTHWEST PARCEL	1105 N NIMITZ HWY
2008	CHEVRON KAPALAMA NORTHEAST PARCEL	1105 N NIMITZ HWY
2008	CHEVRON KAPALAMA TERMINAL	1105 N NIMITZ HWY
2005	CHEVRON KAPALAMA TERMINAL	1105 N NIMITZ HWY
2005	CHEVRON KAPALAMA NORTHEAST PARCEL	1105 N NIMITZ HWY
2005	CHEVRON KAPALAMA NORTHWEST PARCEL	1105 N NIMITZ HWY
2005	CHEVRON KAPALAMA SOUTHWEST PARCEL	1105 N NIMITZ HWY
2000	1105 N NIMITZ HWY	

AK146 **RGA HWS** **S114473096**
SW **789 N NIMITZ HWY** **N/A**
1/2-1 **HONOLULU, HI**
0.656 mi.
3465 ft. **Site 2 of 6 in cluster AK**

Relative: Lower

Actual: 3 ft.

RGA HWS:

2009	EQUILON ENTERPRISES LLC HONOLULU TERMINAL	789 N NIMITZ HWY
2008	EQUILON ENTERPRISES LLC HONOLULU TERMINAL	789 N NIMITZ HWY
2006	EQUILON ENTERPRISES LLC HONOLULU TERMINAL	789 N NIMITZ HWY
2005	EQUILON ENTERPRISES LLC HONOLULU TERMINAL	789 N NIMITZ HWY

AK147 **RGA HWS** **S114473097**
SW **789 NIMITZ HWY** **N/A**
1/2-1 **HONOLULU, HI**
0.656 mi.
3465 ft. **Site 3 of 6 in cluster AK**

Relative: Lower

Actual: 3 ft.

RGA HWS:

2000	789 NIMITZ HWY	

AK148 **PAULEY PETROLEUM** **SHWS** **S108009116**
SW **795 N NIMITZ HWY** **SPILLS** **N/A**
1/2-1 **HONOLULU, HI 96817** **ENG CONTROLS**
0.657 mi. **INST CONTROL**
3471 ft. **Site 4 of 6 in cluster AK** **RGA HWS**

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Honolulu Harbor Pier 32/33
SDAR Environmental Interest Name:	Former Pauley Petroleum
HID Number:	Not reported
Facility Registry Identifier:	110013773522
Lead Agency:	HEER
Progran Name:	State
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

HI SPILLS:

Island:	Oahu

PAULEY PETROLEUM (Continued) **S108009116**

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

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

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
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

ENG CONTROLS:
Supplemental Location Text: Honolulu Harbor Pier 32/33
Zip Suffix: Not reported
Island: Oahu

PAULEY PETROLEUM (Continued) **S108009116**

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
Island: Oahu
Institutional Control: Government - Hawaii Dept. of Health Letter Issued

RGA HWS:

2012	PAULEY PETROLEUM	795 N NIMITZ HWY
2009	PAULEY PETROLEUM	795 N NIMITZ HWY
2008	PAULEY PETROLEUM	795 N NIMITZ HWY

AK149 **RGA HWS** **S114473100**
SW **795 N NIMITZ HIGHWAY** **N/A**
1/2-1 **HONOLULU, HI**
0.657 mi.
3471 ft. **Site 5 of 6 in cluster AK**

Relative:
Lower

Actual:
3 ft.

RGA HWS:

2006	PAULEY PETROLEUM	795 N NIMITZ HIGHWAY

AK150 **RGA HWS** **S114473101**
SW **795 NORTH NIMITZ HIGHWAY** **N/A**
1/2-1 **HONOLULU, HI**
0.657 mi.
3471 ft. **Site 6 of 6 in cluster AK**

Relative:
Lower

Actual:
3 ft.

RGA HWS:

2005	PAULEY PETROLEUM	795 NORTH NIMITZ HIGHWAY

AL151 **SHWS** **1006818946**
West **1130 N NIMITZ HWY** **SPILLS** **N/A**
1/2-1 **HONOLULU, HI** **RGA HWS**
0.662 mi.
3496 ft. **Site 2 of 3 in cluster AL**

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

(Continued) **1006818946**

Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Suite A265
SDAR Environmental Interest Name:	McCabe, Hamilton, & Renny Company, Ltd.
HID Number:	Not reported
Facility Registry Identifier:	110013767030
Lead Agency:	HEER
Progran Name:	State
Potential Hazard And Controls:	Hazard Undetermined
Priority:	Low
Assessment:	Response Necessary
Response:	Response Ongoing
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.

RGA HWS:

2012	MCCABE, HAMILTON, & RENNY COMPANY, LTD	1130 N NIMITZ HWY
2009	MCCABE, HAMILTON, & RENNY COMPANY, LTD	1130 N NIMITZ HWY
2008	MCCABE, HAMILTON, & RENNY COMPANY, LTD	1130 N NIMITZ HWY
2006	MCCABE, HAMILTON, & RENNY COMPANY, LTD	1130 N NIMITZ HWY
2005	MCCABE, HAMILTON, & RENNY COMPANY, LTD	1130 N NIMITZ HWY

AL152 **SHWS** **S111677154**
West **1133 N NIMITZ HWY** **SPILLS** **N/A**
1/2-1 **HONOLULU, HI** **ENG CONTROLS**
0.670 mi. **INST CONTROL**
3540 ft. **Site 3 of 3 in cluster AL** **RGA HWS**

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Honolulu Harbor Pier 36-38
SDAR Environmental Interest Name:	Domestic Commercial Fishing Village
HID Number:	Not reported
Facility Registry Identifier:	110013782344
Lead Agency:	HEER
Progran Name:	State
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

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

(Continued) **S111677154**

Assignment End Date: Not reported
Result: SOSC NFA
File Under: State of Hawaii, Department of Transportation, Harbors Division

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

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
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

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

(Continued) **S111677154**

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

Click this hyperlink while viewing on your computer to access
additional HI SPILLS: detail in the EDR Site Report.

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

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

RGA HWS:
2012 DOMESTIC COMMERCIAL FISHING VILLAGE 1133 N NIMITZ HWY

153
WNW
1/2-1
0.695 mi.
3668 ft.

505 WAIAKAMILO RD
HONOLULU, HI

SHWS **S106817180**
SPILLS **N/A**
RGA HWS

Relative:
Lower

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
Organization: Not reported

(Continued) **S106817180**

Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Former General Tire Petroleum Contamination
HID Number:	Not reported
Facility Registry Identifier:	110005726884
Lead Agency:	HEER
Progran Name:	State
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

RGA HWS:

2012	GENERAL TIRE	505 WAIAKAMILO RD
2009	GENERAL TIRE	505 WAIAKAMILO RD
2008	GENERAL TIRE	505 WAIAKAMILO RD

154 SW 1/2-1 0.716 mi. 3782 ft. **CHEVRON HONOLULU TERMINAL MARINE** **SHWS** **U001235369**
777 N NIMITZ HWY **SPILLS** **N/A**
HONOLULU, HI 96817 **RGA HWS**

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Chevron Honolulu Terminal Marine
HID Number:	Not reported
Facility Registry Identifier:	110000486457
Lead Agency:	HEER
Progran Name:	State
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

CHEVRON HONOLULU TERMINAL MARINE (Continued) **U001235369**

Assignment End Date: Not reported
Result: SOSC NFA
File Under: Chevron USA, Inc.

Island: Oahu
Supplemental Loc. Text: Not reported
Case Number: 20110131-1610
HID Number: Not reported
Facility Registry Id: 110000486457
Lead and Program: HEER EP&R
ER: None
Units: Honolulu Harbor Pier 29
Substances: Oil
Less Or Greater Than: Not reported
Numerical Quantity: 0
Units: Not reported
Activity Type: Response
Activity Lead: TC
Assignment End Date: Not reported
Result: Refer to SDAR
File Under: Chevron USA, Inc.

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.

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.

CHEVRON HONOLULU TERMINAL MARINE (Continued) **U001235369**

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
Assignment End Date: Not reported
Result: SOSC NFA
File Under: Chevron USA, Inc.

Click this hyperlink while viewing on your computer to access
4 additional HI SPILLS: record(s) in the EDR Site Report.

RGA HWS:

2012	CHEVRON HONOLULU TERMINAL MARINE	777 N NIMITZ HWY
2009	CHEVRON HONOLULU TERMINAL MARINE	777 N NIMITZ HWY
2008	CHEVRON HONOLULU TERMINAL MARINE	777 N NIMITZ HWY
2006	CHEVRON HONOLULU TERMINAL MARINE	777 N NIMITZ HWY
2005	CHEVRON HONOLULU TERMINAL MARINE	777 N NIMITZ HWY

AM155 **1305 HART STREET** **SHWS** **S106815169**
West **1305 HART ST** **SPILLS** **N/A**
1/2-1 **HONOLULU, HI 96814** **INST CONTROL**
0.770 mi. **RGA HWS**
4064 ft. **Site 1 of 2 in cluster AM**

Relative:
Lower

Actual:
5 ft.

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
Organization: Not reported
Island: Oahu
Supplemental Location Text: 1305 Hart St, 1301 and 1321 also?
SDAR Environmental Interest Name: 1305 Hart Street
HID Number: Not reported
Facility Registry Identifier: Not reported
Lead Agency: HEER
Progran Name: State
Potential Hazard And Controls: Hazard Managed With Controls
Priority: NFA
Assessment: Response Necessary
Response: Response Complete

1305 HART STREET (Continued) **S106815169**

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 Street. 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

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
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

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

RGA HWS:

2012	1305 HART STREET	1305 HART ST
2009	1305 HART STREET	1305 HART ST
2008	1305 HART STREET	1305 HART ST
2006	1305 HART STREET	1305 HART ST
2005	1305 HART STREET	1305 HART ST

AM156 West 1/2-1 0.811 mi. 4282 ft. **YOUNG BROTHERS, LTD. PIERS 39, 40** **SHWS** **S108009312**
1331 N NIMITZ HWY **SPILLS** **N/A**
HONOLULU, HI 96801 **RGA HWS**

Site 2 of 2 in cluster AM

Relative: Lower
Actual: 3 ft.

SHWS:

Organization:	Not reported
Supplemental Location:	Honolulu Harbor Pier 39/40 at Waiakamilo Rd
Island:	Oahu

YOUNG BROTHERS, LTD. PIERS 39, 40 (Continued) **S108009312**

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Honolulu Harbor Pier 39/40 at Waiakamilo Rd
SDAR Environmental Interest Name:	Young Brothers, Ltd. Piers 39, 40
HID Number:	Not reported
Facility Registry Identifier:	110013774521
Lead Agency:	HEER
Progran Name:	State
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:

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.

Island:	Oahu
Supplemental Loc. Text:	Honolulu Harbor Pier 39/40 at Waiakamilo Rd
Case Number:	19990221-1737
HID Number:	Not reported

YOUNG BROTHERS, LTD. PIERS 39, 40 (Continued) **S108009312**

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.

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.

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.

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

YOUNG BROTHERS, LTD. PIERS 39, 40 (Continued) **S108009312**

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.

Click this hyperlink while viewing on your computer to access additional HI SPILLS: detail in the EDR Site Report.

RGA HWS:

2012	YOUNG BROTHERS, LTD. PIERS 39, 40	1331 N NIMITZ HWY
2009	YOUNG BROTHERS, LTD. PIERS 39, 40	1331 N NIMITZ HWY
2008	YOUNG BROTHERS, LTD. PIERS 39, 40	1331 N NIMITZ HWY
2006	YOUNG BROTHERS, LTD. PIERS 39, 40	1331 N NIMITZ

157
South
1/2-1
0.821 mi.
4337 ft.

66 QUEEN ST
HONOLULU, HI

SHWS **1006820894**
RGA HWS **N/A**

Relative:
Lower

Actual:
7 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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Harbor Court
HID Number:	Not reported
Facility Registry Identifier:	110013789212
Lead Agency:	Not reported
Progran Name:	State
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
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Not reported
Site Closure Type:	No Further Action - Type Undetermined

(Continued) **1006820894**

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

RGA HWS:

2012	HARBOR COURT	66 QUEEN ST
2009	HARBOR COURT	66 QUEEN ST
2008	HARBOR COURT	66 QUEEN ST
2006	HARBOR COURT	66 QUEEN ST
2005	HARBOR COURT	66 QUEEN ST

AN158 **RGA HWS** **S114472970**
NW **1564 N KING STREET** **N/A**
1/2-1 **HONOLULU, HI**
0.854 mi.
4510 ft. **Site 1 of 2 in cluster AN**

Relative:
Higher

Actual:
45 ft.

RGA HWS:

2000	1564 N KING STREET

AN159 **FARRINGTON HIGH SCHOOL** **FTTS** **1007277849**
NW **1564 N KING ST** **HIST FTTS** **N/A**
1/2-1 **HONOLULU, HI 96817** **SHWS**
0.854 mi. **SPILLS**
4510 ft. **Site 2 of 2 in cluster AN** **RGA HWS**

Relative:
Higher

Actual:
45 ft.

FTTS INSP:
Inspection Number: 19910624R7016 2
Region: 07
Inspection Date: 06/24/91
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

SHWS:
Organization: Not reported

FARRINGTON HIGH SCHOOL (Continued) **1007277849**

Supplemental Location: Not reported
Island: Oahu
Environmental Interest: Farrington High School
HID Number: HID984467050
Facility Registry Identifier: 110009278753
Lead Agency: Not reported
Program: State
Project Manager: Eric Sadoyama
Hazard Priority: Not reported
Potential Hazards And Controls: Hazard Undetermined
Organization: Not reported
Island: Oahu
Supplemental Location Text: Not reported
SDAR Environmental Interest Name: Farrington High School
HID Number: HID984467050
Facility Registry Identifier: 110009278753
Lead Agency: Not reported
Progran Name: State
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: Eric Sadoyama
Contact Information: (808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

HI SPILLS:
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

Island: Oahu
Supplemental Loc. Text: Not reported

FARRINGTON HIGH SCHOOL (Continued) **1007277849**

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

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

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
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

RGA HWS:

2012	FARRINGTON HIGH SCHOOL	1564 N KING ST
2009	FARRINGTON HIGH SCHOOL	1564 N KING ST
2008	FARRINGTON HIGH SCHOOL	1564 N KING ST
2006	FARRINGTON HIGH SCHOOL	1564 N KING ST

FARRINGTON HIGH SCHOOL (Continued) **1007277849**

2005	FARRINGTON HIGH SCHOOL	1564 N KING ST

160
SSE
1/2-1
0.865 mi.
4567 ft.

1001 BISHOP ST
HONOLULU, HI

RGA HWS **S114472950**
N/A

Relative:
Lower

Actual:
10 ft.

RGA HWS:

2008	CHEVRON USA, INC.	1001 BISHOP ST
2006	CHEVRON USA, INC.	1001 BISHOP ST
2005	CHEVRON USA, INC.	1001 BISHOP ST

161
East
1/2-1
0.867 mi.
4579 ft.

CHEVRON NUUANU
1909 NUUANU AVE
, HI

SHWS **1000601437**
SPILLS **N/A**
INST CONTROL
RGA HWS
Financial Assurance

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	At Pauoa Rd
SDAR Environmental Interest Name:	Richard's Chevron
HID Number:	Not reported
Facility Registry Identifier:	110005727320
Lead Agency:	HEER
Progran Name:	State
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

CHEVRON NUUANU (Continued) **1000601437**

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

INST CONTROL:

Potential hazards and controls:	Hazard Managed With Controls
Supplemental Location:	At Pauoa Rd
Zip Suffix:	Not reported
Island:	Oahu
Institutional Control:	Government - Hawaii Dept. of Health Letter Issued

RGA HWS:

2012	RICHARD'S CHEVRON	1909 NUUANU AVE
2009	RICHARD'S CHEVRON	1909 NUUANU AVE
2008	RICHARD'S CHEVRON	1909 NUUANU AVE

HI Financial Assurance:

Alt Facility ID:	9-101101
Tank Id:	92
Tank Status:	Currently In Use
FRTYPE:	Other
Expiration Date:	Not reported
Alt Facility ID:	9-101101
Tank Id:	87
Tank Status:	Currently In Use
FRTYPE:	Other
Expiration Date:	Not reported
Alt Facility ID:	9-101101
Tank Id:	r-4
Tank Status:	Permanently out of Use
FRTYPE:	Other
Expiration Date:	Not reported
Alt Facility ID:	9-101101
Tank Id:	r-4
Tank Status:	Permanently out of Use
FRTYPE:	Self Insured
Expiration Date:	04/30/2010

CHEVRON NUUANU (Continued) **1000601437**

Alt Facility ID:	9-101101
Tank Id:	92
Tank Status:	Currently In Use
FRTYPE:	Self Insured
Expiration Date:	04/30/2010
Alt Facility ID:	9-101101
Tank Id:	87
Tank Status:	Currently In Use
FRTYPE:	Self Insured
Expiration Date:	04/30/2010
Alt Facility ID:	9-101101
Tank Id:	r-4
Tank Status:	Permanently out of Use
FRTYPE:	Guarantee
Expiration Date:	04/24/2014
Alt Facility ID:	9-101101
Tank Id:	87
Tank Status:	Currently In Use
FRTYPE:	Guarantee
Expiration Date:	04/24/2014
Alt Facility ID:	9-101101
Tank Id:	92
Tank Status:	Currently In Use
FRTYPE:	Guarantee
Expiration Date:	04/24/2014

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162 **SHWS** **S108008488**
SE **1212 QUEEN EMMA ST** **RGA HWS** **N/A**
1/2-1 **HONOLULU, HI**
0.874 mi.
4617 ft.

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
Organization:	Not reported
Island:	Oahu
Supplemental Location Text:	Not reported
SDAR Environmental Interest Name:	Capitol Place Development Project
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER
Progran Name:	State
Potential Hazard And Controls:	No Hazard
Priority:	NFA

(Continued) **S108008488**

Assessment:	Response Necessary
Response:	Response Complete
Nature of Contamination:	Found: Diesel, lead
Nature of Residual Contamination:	Lead 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:	11/15/2005
Document Number:	2005-583-MS
Document Subject:	NFA letter for Capitol Development Project 1212 Queen Emma Street
Project Manager:	Mark Sutterfield
Contact Information:	(808) 586-4249 919 Ala Moana Blvd, Honolulu, HI 96814

RGA HWS:

2012 CAPITOL PLACE DEVELOPMENT PROJECT 1212 QUEEN EMMA ST
2009 CAPITOL PLACE DEVELOPMENT PROJECT 1212 QUEEN EMMA ST
2008 CAPITOL PLACE DEVELOPMENT PROJECT 1212 QUEEN EMMA ST
2006 CAPITOL PLACE DEVELOPMENT PROJECT 1212 QUEEN EMMA ST
2005 CAPITOL PLACE DEVELOPMENTAL PROJECT 1212 QUEEN EMMA ST

163
West
1/2-1
0.996 mi.
5258 ft.

LIBBY ST & REPUBLICAN ST
HONOLULU, HI

RGA HWS **S114473275**
N/A

Relative:
Lower

Actual:
10 ft.

RGA HWS:

2008 REPUBLICAN & LIBBY STREETS, BURNT VAN LIBBY ST & REPUBLICAN ST
2006 REPUBLICAN & LIBBY STREETS, BURNT VAN LIBBY ST & REPUBLICAN ST
2005 REPUBLICAN & LIBBY STREETS, BURNT VAN LIBBY ST & REPUBLICAN ST

ORPHAN SUMMARY

Count: 20 records.

City	EDR ID	Site Name	Site Address	Zip	Database(s)
HONOLULU	1006820751		COOKE ST & ILALO ST		SHWS, RGA HWS
HONOLULU	1000978853	HAWAII MARITIME CENTER	HONOLULU HARBOR PIER 7 AREA A		RCRA NonGen / NLR, FINDS
HONOLULU	1006819301	KEEHI LAGOON CANOE FACILITY, INCRE	HOONEE PL	96819	SHWS, ENG CONTROLS, INST CONTROL, RGA HWS
HONOLULU	1003879469	PACIFIC RESOURCES, INCORPORATED (G	IWILEI RD	96817	CERC-NFRAP
HONOLULU	S114431578		2312 KAM HWY, BLDG. H-2		RGA LUST
HONOLULU	S114431577		2305 KAM HWY		RGA LUST
HONOLULU	S114431576		2305 KAM HWY P O BOX 30707		RGA LUST
HONOLULU	S114431527		1861 KAM IV HWY		RGA LUST
HONOLULU	1015916139	CHILD DEVELOPMENT CENTER FY09-MCON	KAMEHAMEHA HWY & CENTER DR		FINDS
HONOLULU	1006820337		2760 KAMEHAMEHA HWY		SHWS, RGA HWS
HONOLULU	1003879931	KEEHI LAGOON CANOE FACILITY	KEEHI LAGOON	96819	CERCLIS, FINDS
HONOLULU	1000232179	KING SERVICE STATION	10709 NORTH KING ST	96817	RCRA NonGen / NLR
HONOLULU	1008012815	SITE IMPROVEMENTS - PHASE 1	75-6060 KUAKINI HWY		FINDS
HONOLULU	1000357999	ENERGY & ENVIRONMENT RESEARCH GROU	55 KUKUI ST		RCRA NonGen / NLR, FINDS
HONOLULU	1000133177	D O T HARBORS DIVISION	MAALAEA B H	96813	RCRA NonGen / NLR
HONOLULU	1000474522	UNITEK ENVIRONMENTAL SERVICES	2889 MOKUMOA ST	96819	RCRA-TSDF, CERC-NFRAP, CORRA RCRA NonGen / NLR, FTTS, HIST FTTS, PADS, RAATS, MANIFEST, 2020 COR ACTION
HONOLULU	S111704706	FORMER KAPALAMA MILITARY RESERVATI	N NIMITZ HWY		SHWS
HONOLULU	S108008765		NIMITZ HWY		SHWS, SPILLS, ENG CONTROLS, IN CONTROL, RGA HWS
HONOLULU	S106819311		N NIMITZ HWY		SHWS, RGA HWS
HONOLULU	1006820220		SAND ISLAND ACCESS RD		SHWS, SPILLS, INST CONTROL, RG HWS

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: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 78

Source: EPA
Telephone: N/A
Last EDR Contact: 01/21/2014
Next Scheduled EDR Contact: 04/21/2014
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: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 78

Source: EPA
Telephone: N/A
Last EDR Contact: 01/09/2014
Next Scheduled EDR Contact: 04/21/2014
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 78

Source: EPA
Telephone: N/A
Last EDR Contact: 01/09/2014
Next Scheduled EDR Contact: 04/21/2014
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 05/29/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 72

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 11/11/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Quarterly

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: 05/31/2013
Date Data Arrived at EDR: 07/08/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 151

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/10/2014
Next Scheduled EDR Contact: 04/21/2014
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 05/29/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 72

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 11/11/2013
Next Scheduled EDR Contact: 03/10/2014
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: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
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: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
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: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
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: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
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: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

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: 12/17/2013
Date Data Arrived at EDR: 01/14/2014
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
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: 12/17/2013
Date Data Arrived at EDR: 01/14/2014
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Varies

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: 08/20/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 70

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Varies

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: 09/30/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 66

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/10/2014
Next Scheduled EDR Contact: 04/14/2014
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: 01/17/2013
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/09/2013
Number of Days to Update: 40

Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 11/27/2013
Next Scheduled EDR Contact: 03/10/2014
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: 12/30/2013
Next Scheduled EDR Contact: 04/14/2014
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: 12/04/2013
Date Data Arrived at EDR: 12/05/2013
Date Made Active in Reports: 12/10/2013
Number of Days to Update: 5

Source: Department of Health
Telephone: 808-586-4228
Last EDR Contact: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Semi-Annually

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/27/2013
Date Data Arrived at EDR: 08/27/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 66

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
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: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

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: 03/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/06/2013
Date Data Arrived at EDR: 11/07/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 29

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
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: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

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: 08/20/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 70

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

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: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/30/2014
Next Scheduled EDR Contact: 05/12/2014
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: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

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: 12/04/2013
Date Data Arrived at EDR: 12/05/2013
Date Made Active in Reports: 12/10/2013
Number of Days to Update: 5

Source: Department of Health
Telephone: 808-586-4228
Last EDR Contact: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Semi-Annually

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: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 272

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/30/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

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: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
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: 08/20/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 70

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

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: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Semi-Annually

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: 12/31/2012
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 43

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
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: 07/29/2013
Date Data Arrived at EDR: 08/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 92

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

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: 07/29/2013
Date Data Arrived at EDR: 07/30/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 129

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

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: 02/05/2013
Date Data Arrived at EDR: 02/06/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 65

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

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: 01/13/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Varies

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: 01/17/2013
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/09/2013
Number of Days to Update: 40

Source: Department of Health
Telephone: 404-586-4249
Last EDR Contact: 11/27/2013
Next Scheduled EDR Contact: 03/10/2014
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: 01/17/2013
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/09/2013
Number of Days to Update: 40

Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 11/27/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

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: 09/17/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 66

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Varies

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

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: 01/17/2013
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/09/2013
Number of Days to Update: 40
Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 11/27/2013
Next Scheduled EDR Contact: 03/10/2014
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: 01/17/2013
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/09/2013
Number of Days to Update: 40
Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 11/27/2013
Next Scheduled EDR Contact: 03/10/2014
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: 09/24/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 73
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/24/2013
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

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: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: No Update Planned

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: 11/04/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

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.

Date of Government Version: 08/06/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 22
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 12/05/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Quarterly

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: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register
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.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

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: 02/06/2013
Date Data Arrived at EDR: 04/25/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
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: 09/30/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 76

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 01/13/2014
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: 03/01/2013
Date Data Arrived at EDR: 08/27/2013
Date Made Active in Reports: 09/18/2013
Number of Days to Update: 22

Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 11/27/2013
Next Scheduled EDR Contact: 03/10/2014
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
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: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Varies

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: 11/06/2013
Next Scheduled EDR Contact: 02/17/2014
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: 01/15/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Semi-Annually

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: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/13/2013
Next Scheduled EDR Contact: 03/24/2014
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: 06/30/2013
Date Data Arrived at EDR: 08/07/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Varies

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: 04/26/2013
Date Data Arrived at EDR: 06/11/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 143

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/12/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Annually

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: 11/26/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Varies

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: 08/01/2013
Date Data Arrived at EDR: 09/05/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 28

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/06/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Semi-Annually

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: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/27/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Annually

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: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: Every 4 Years

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: 11/21/2013
Next Scheduled EDR Contact: 03/10/2014
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: 11/21/2014
Next Scheduled EDR Contact: 03/10/2014
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

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: 01/28/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Annually

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: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/09/2014
Next Scheduled EDR Contact: 04/28/2014
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: 06/01/2013
Date Data Arrived at EDR: 07/17/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 107

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/28/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Annually

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: 07/22/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Quarterly

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: 09/30/2013
Date Data Arrived at EDR: 10/09/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/10/2014
Next Scheduled EDR Contact: 04/21/2014
Data Release Frequency: Quarterly

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: 03/08/2013
Date Data Arrived at EDR: 03/21/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 111
Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/10/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Quarterly

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

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: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46
Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
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: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52
Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/25/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Biennially

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: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Varies

DRYCLEANERS: Permitted Drycleaner Facility Listing
A listing of permitted drycleaner facilities in the state.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/25/2013
Date Made Active in Reports: 02/28/2013
Number of Days to Update: 34
Source: Department of Health
Telephone: 808-586-4200
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 04/21/2014
Data Release Frequency: Varies

AIRS: List of Permitted Facilities
A listing of permitted facilities in the state.

Date of Government Version: 06/30/2013
Date Data Arrived at EDR: 08/09/2013
Date Made Active in Reports: 08/12/2013
Number of Days to Update: 3
Source: Department of Health
Telephone: 808-586-4200
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 04/21/2014
Data Release Frequency: Varies

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: 01/15/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Semi-Annually

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: 01/20/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Varies

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: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7
Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/15/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013
Date Data Arrived at EDR: 02/14/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 13
Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 04/21/2014
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

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013
Date Data Arrived at EDR: 07/03/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 72
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Quarterly

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: 01/15/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: N/A

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: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30
Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30
Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Annually

COAL ASH DOE: Sleam-Electric Plan 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: 01/13/2014
Next Scheduled EDR Contact: 04/28/2014
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: 09/24/2013
Date Data Arrived at EDR: 09/25/2013
Date Made Active in Reports: 10/21/2013
Number of Days to Update: 26
Source: Department of Health
Telephone: 808-586-4226
Last EDR Contact: 01/13/2014
Next Scheduled EDR Contact: 03/31/2014
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: 10/28/2013
Date Data Arrived at EDR: 10/29/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 38
Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Quarterly

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: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/13/2013
Next Scheduled EDR Contact: 03/24/2014
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: 01/30/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

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: 06/30/2013
Date Data Arrived at EDR: 08/13/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 31
Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/15/2013
Next Scheduled EDR Contact: 02/24/2014
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 US Hist Auto Stat: 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 US Hist Cleaners: 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 US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

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: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

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: N/A
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 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.

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: EDR
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

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.

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: EDR
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.

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: EDR
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: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

KALIHI-PALAMA HEALTH CENTER SITE
1040 PUA LANE
HONOLULU, HI 96817

TARGET PROPERTY COORDINATES

Latitude (North):	21.3206 - 21˚ 19' 14.16''
Longitude (West):	157.8658 - 157˚ 51' 56.88''
Universal Tranverse Mercator:	Zone 4
UTM X (Meters):	617630.1
UTM Y (Meters):	2357914.5
Elevation:	16 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	21157-C7 HONOLULU, HI
Most Recent Revision:	Not reported
West Map:	21157-C8 PEARL HARBOR, HI
Most Recent Revision:	Not reported

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).

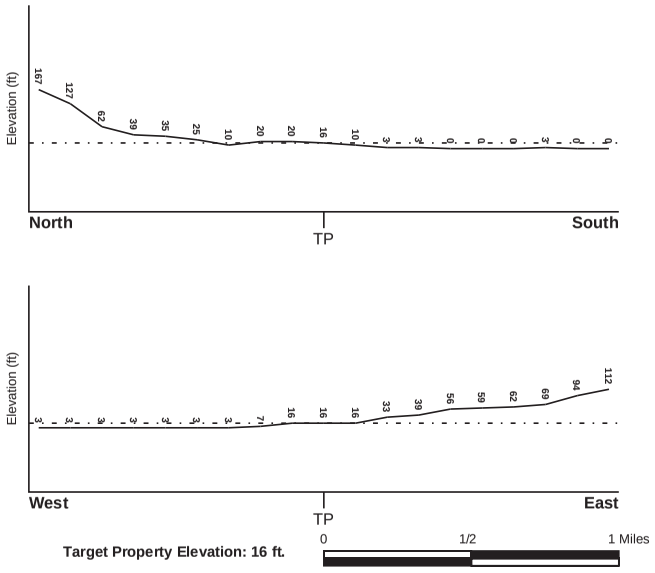
TOPOGRAPHIC INFORMATION

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



Target Property Elevation: 16 ft.

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

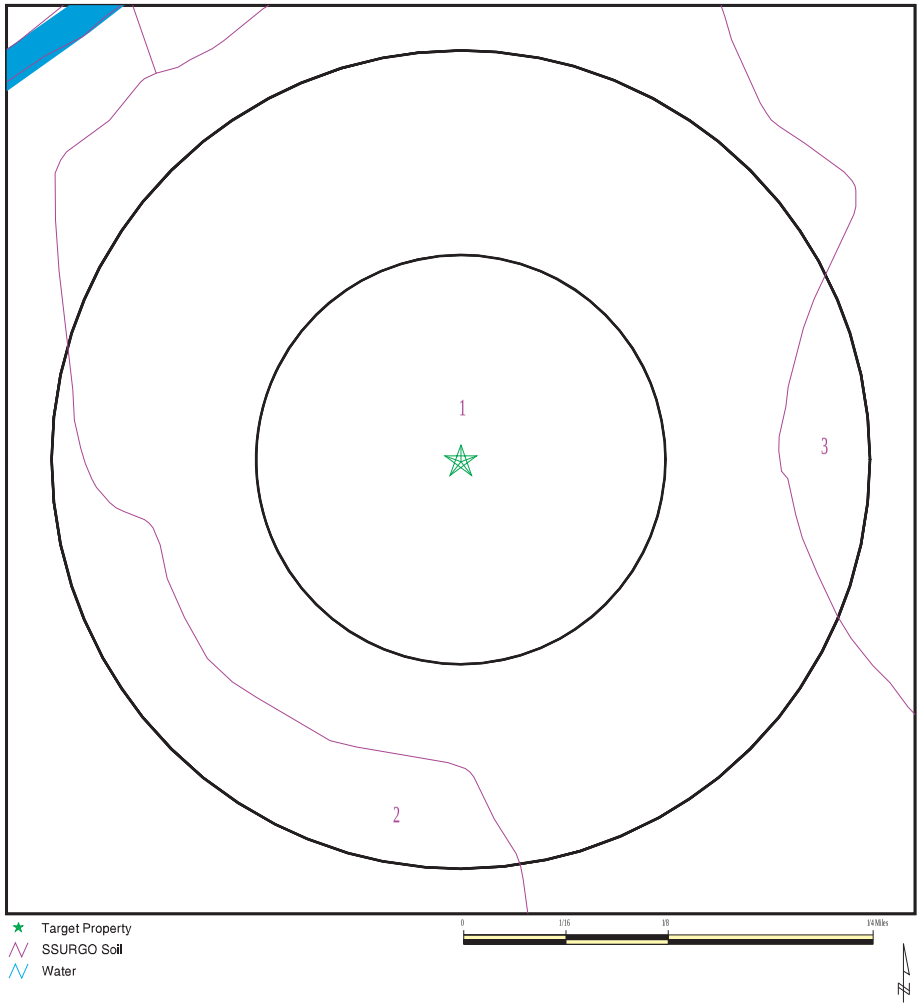
Era: -
System: -
Series: -
Code: N/A *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: -

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 - 3850125.2s



★ Target Property
SSURGO Soil
Water

SITE NAME: Kalihi-Palama Health Center Site ADDRESS: 1040 Pua Lane Honolulu HI 96817 LAT/LONG: 21.3206 / 157.8658	CLIENT: PBR Hawaii CONTACT: Nathalie Razo INQUIRY #: 3850125.2s DATE: February 07, 2014 4:04 pm

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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: 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:

Soil Map ID: 3

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

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 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	USGS40000269810	0 - 1/8 Mile NNW

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
B4	USGS40000269794	1/8 - 1/4 Mile South
C6	USGS40000269795	1/8 - 1/4 Mile SSW
D7	USGS40000269822	1/8 - 1/4 Mile NNE
E11	USGS40000269799	1/4 - 1/2 Mile SW
E12	USGS40000269800	1/4 - 1/2 Mile SW
F13	USGS40000269813	1/4 - 1/2 Mile WNW
F15	USGS40000269815	1/4 - 1/2 Mile WNW
F16	USGS40000269816	1/4 - 1/2 Mile WNW
F17	USGS40000269817	1/4 - 1/2 Mile WNW
E26	USGS40000269801	1/4 - 1/2 Mile WSW
F27	USGS40000269811	1/4 - 1/2 Mile WNW
F28	USGS40000269812	1/4 - 1/2 Mile WNW
F30	USGS40000269814	1/4 - 1/2 Mile WNW
E32	USGS40000269796	1/4 - 1/2 Mile SW
E34	USGS40000269802	1/4 - 1/2 Mile WSW
G35	USGS40000269805	1/4 - 1/2 Mile ESE
E37	USGS40000269790	1/4 - 1/2 Mile SW
H41	USGS40000269778	1/4 - 1/2 Mile SW
H42	USGS40000269779	1/4 - 1/2 Mile SW
H43	USGS40000269780	1/4 - 1/2 Mile SW
H46	USGS40000269771	1/4 - 1/2 Mile SW
H47	USGS40000269768	1/4 - 1/2 Mile SW
I50	USGS40000269788	1/4 - 1/2 Mile SW
J52	USGS40000269763	1/4 - 1/2 Mile SW
J54	USGS40000269772	1/4 - 1/2 Mile SW
I55	USGS40000269786	1/4 - 1/2 Mile SW
K56	USGS40000269850	1/4 - 1/2 Mile North
I59	USGS40000269781	1/4 - 1/2 Mile SW
I61	USGS40000269789	1/4 - 1/2 Mile WSW
L63	USGS40000269751	1/2 - 1 Mile SSW
I64	USGS40000269773	1/2 - 1 Mile SW
K65	USGS40000269854	1/2 - 1 Mile North
K66	USGS40000269853	1/2 - 1 Mile North
K69	USGS40000269863	1/2 - 1 Mile North
M71	USGS40000269852	1/2 - 1 Mile NNE
N74	USGS40000269785	1/2 - 1 Mile ESE
76	USGS40000269742	1/2 - 1 Mile SSE
O77	USGS40000269731	1/2 - 1 Mile South
P78	USGS40000269855	1/2 - 1 Mile NW
P79	USGS40000269864	1/2 - 1 Mile NW
P80	USGS40000269867	1/2 - 1 Mile NW
P81	USGS40000269866	1/2 - 1 Mile NW
P82	USGS40000269865	1/2 - 1 Mile NW
P83	USGS40000269868	1/2 - 1 Mile NW
P84	USGS40000269871	1/2 - 1 Mile NW
P85	USGS40000269870	1/2 - 1 Mile NW
P86	USGS40000269869	1/2 - 1 Mile NW
Q97	USGS40000269888	1/2 - 1 Mile North
98	USGS40000269791	1/2 - 1 Mile WSW
R101	USGS40000269729	1/2 - 1 Mile SSE
S103	USGS40000269893	1/2 - 1 Mile NNW
T105	USGS40000269784	1/2 - 1 Mile ESE

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
Q107	USGS40000269899	1/2 - 1 Mile North
R109	USGS40000269728	1/2 - 1 Mile SSE
U110	USGS40000269894	1/2 - 1 Mile NNW
V111	USGS40000269764	1/2 - 1 Mile WSW
V115	USGS40000269754	1/2 - 1 Mile WSW
W116	USGS40000269718	1/2 - 1 Mile SSE
U118	USGS40000269900	1/2 - 1 Mile NNW
X121	USGS40000269711	1/2 - 1 Mile South
W122	USGS40000269713	1/2 - 1 Mile SSE
Y123	USGS40000269719	1/2 - 1 Mile SSE
125	USGS40000269730	1/2 - 1 Mile SW
Z126	USGS40000269733	1/2 - 1 Mile SE
W128	USGS40000269708	1/2 - 1 Mile SSE
W130	USGS40000269706	1/2 - 1 Mile SSE
W131	USGS40000269707	1/2 - 1 Mile SSE
W132	USGS40000269705	1/2 - 1 Mile SSE
AA137	USGS40000269819	1/2 - 1 Mile West
AA138	USGS40000269820	1/2 - 1 Mile West
X140	USGS40000269700	1/2 - 1 Mile South
X141	USGS40000269701	1/2 - 1 Mile South
Y142	USGS40000269717	1/2 - 1 Mile SSE
AA146	USGS40000269821	1/2 - 1 Mile West
AB147	USGS40000269704	1/2 - 1 Mile SSE
AC153	USGS40000269697	1/2 - 1 Mile SSE
AD154	USGS40000269715	1/2 - 1 Mile SSE
AD155	USGS40000269716	1/2 - 1 Mile SSE
AD157	USGS40000269712	1/2 - 1 Mile SSE
AC159	USGS40000269692	1/2 - 1 Mile South
AE160	USGS40000269693	1/2 - 1 Mile South
AC165	USGS40000269690	1/2 - 1 Mile South
AC166	USGS40000269691	1/2 - 1 Mile South
AE167	USGS40000269684	1/2 - 1 Mile South
AG169	USGS40000269919	1/2 - 1 Mile North
AF171	USGS40000269834	1/2 - 1 Mile WNW
AG172	USGS40000269923	1/2 - 1 Mile North
AH175	USGS40000269688	1/2 - 1 Mile SSE
AH176	USGS40000269689	1/2 - 1 Mile SSE
AI180	USGS40000269699	1/2 - 1 Mile SSE
AG181	USGS40000269937	1/2 - 1 Mile North
AI184	USGS40000269703	1/2 - 1 Mile SSE
AH186	USGS40000269682	1/2 - 1 Mile SSE
AH187	USGS40000269683	1/2 - 1 Mile SSE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
E10	HI0000301	1/4 - 1/2 Mile SW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

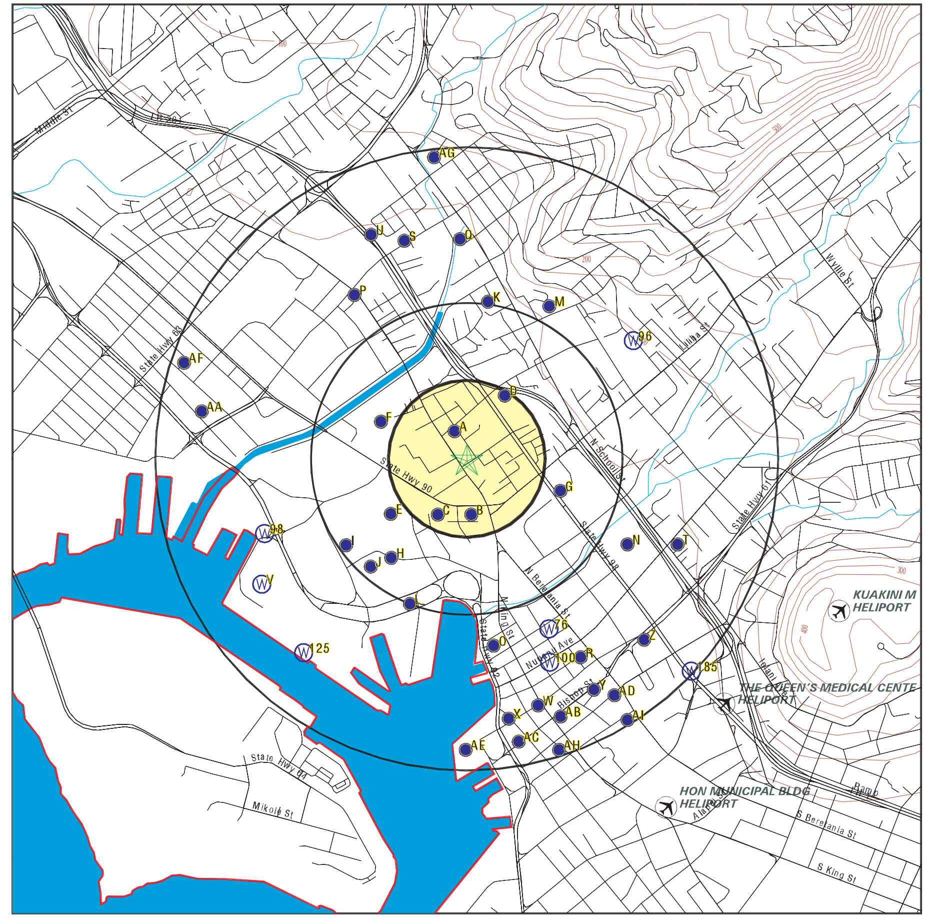
MAP ID	WELL ID	LOCATION FROM TP
A2	HI8000000002375	0 - 1/8 Mile NNW
B3	HI8000000002359	1/8 - 1/4 Mile South
C5	HI8000000002358	1/8 - 1/4 Mile SSW
D8	HI8000000002389	1/8 - 1/4 Mile NNE
E9	HI8000000002364	1/4 - 1/2 Mile SW
E14	HI8000000002363	1/4 - 1/2 Mile WSW
F18	HI8000000002379	1/4 - 1/2 Mile WNW
F19	HI8000000002380	1/4 - 1/2 Mile WNW
F20	HI8000000002377	1/4 - 1/2 Mile WNW
F21	HI8000000002378	1/4 - 1/2 Mile WNW
F22	HI8000000002383	1/4 - 1/2 Mile WNW
F23	HI8000000002384	1/4 - 1/2 Mile WNW
F24	HI8000000002381	1/4 - 1/2 Mile WNW
F25	HI8000000002382	1/4 - 1/2 Mile WNW
E29	HI8000000002357	1/4 - 1/2 Mile SW
E31	HI8000000002362	1/4 - 1/2 Mile WSW
G33	HI8000000002369	1/4 - 1/2 Mile ESE
E36	HI8000000002354	1/4 - 1/2 Mile SW
H38	HI8000000002342	1/4 - 1/2 Mile SW
H39	HI8000000002343	1/4 - 1/2 Mile SW
H40	HI8000000002344	1/4 - 1/2 Mile SW
H44	HI8000000002338	1/4 - 1/2 Mile SSW
H45	HI8000000002335	1/4 - 1/2 Mile SW
I48	HI8000000002353	1/4 - 1/2 Mile WSW
H49	HI8000000002328	1/4 - 1/2 Mile SW
J51	HI8000000002337	1/4 - 1/2 Mile SW
I53	HI8000000002347	1/4 - 1/2 Mile SW
I57	HI8000000002341	1/4 - 1/2 Mile SW
K58	HI8000000002429	1/4 - 1/2 Mile North
I60	HI8000000002352	1/4 - 1/2 Mile WSW
L62	HI8000000002318	1/4 - 1/2 Mile SSW
K67	HI8000000002435	1/2 - 1 Mile North
K68	HI8000000002436	1/2 - 1 Mile North
K70	HI8000000002450	1/2 - 1 Mile North
M72	HI8000000002430	1/2 - 1 Mile NNE
N73	HI8000000002348	1/2 - 1 Mile ESE
O75	HI8000000002306	1/2 - 1 Mile South
P87	HI8000000002441	1/2 - 1 Mile NW
P88	HI8000000002442	1/2 - 1 Mile NW
P89	HI8000000002439	1/2 - 1 Mile NW
P90	HI8000000002440	1/2 - 1 Mile NW
P91	HI8000000002443	1/2 - 1 Mile NW
P92	HI8000000002446	1/2 - 1 Mile NW
P93	HI8000000002447	1/2 - 1 Mile NW
P94	HI8000000002444	1/2 - 1 Mile NW
P95	HI8000000002445	1/2 - 1 Mile NW
96	HI8000000002419	1/2 - 1 Mile NE
R99	HI8000000002307	1/2 - 1 Mile SSE
100	HI8000000002302	1/2 - 1 Mile SSE
Q102	HI8000000002481	1/2 - 1 Mile North
T104	HI8000000002349	1/2 - 1 Mile ESE
S106	HI8000000002478	1/2 - 1 Mile NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
R108	HI8000000002303	1/2 - 1 Mile SSE
U112	HI8000000002477	1/2 - 1 Mile NNW
R113	HI8000000002301	1/2 - 1 Mile SSE
W114	HI8000000002294	1/2 - 1 Mile SSE
X117	HI8000000002290	1/2 - 1 Mile South
W119	HI8000000002292	1/2 - 1 Mile SSE
U120	HI8000000002484	1/2 - 1 Mile NNW
Z124	HI8000000002308	1/2 - 1 Mile SE
W127	HI8000000002286	1/2 - 1 Mile SSE
W129	HI8000000002287	1/2 - 1 Mile SSE
X133	HI8000000002279	1/2 - 1 Mile South
X134	HI8000000002278	1/2 - 1 Mile South
AA135	HI8000000002385	1/2 - 1 Mile West
AA136	HI8000000002386	1/2 - 1 Mile West
Y139	HI8000000002295	1/2 - 1 Mile SSE
AB143	HI8000000002288	1/2 - 1 Mile SSE
X144	HI8000000002276	1/2 - 1 Mile South
AA145	HI8000000002387	1/2 - 1 Mile West
AC148	HI8000000002277	1/2 - 1 Mile SSE
AB149	HI8000000002280	1/2 - 1 Mile SSE
AB150	HI8000000002281	1/2 - 1 Mile SSE
AD151	HI8000000002297	1/2 - 1 Mile SSE
AD152	HI8000000002296	1/2 - 1 Mile SSE
AD156	HI8000000002293	1/2 - 1 Mile SSE
AE158	HI8000000002264	1/2 - 1 Mile South
AC161	HI8000000002266	1/2 - 1 Mile South
AC162	HI8000000002267	1/2 - 1 Mile South
AC163	HI8000000002265	1/2 - 1 Mile South
AE164	HI8000000002259	1/2 - 1 Mile South
AF168	HI8000000002412	1/2 - 1 Mile WNW
AG170	HI8000000002519	1/2 - 1 Mile North
AH173	HI8000000002269	1/2 - 1 Mile SSE
AH174	HI8000000002268	1/2 - 1 Mile SSE
AG177	HI8000000002534	1/2 - 1 Mile North
AI178	HI8000000002282	1/2 - 1 Mile SSE
AI179	HI8000000002284	1/2 - 1 Mile SSE
AH182	HI8000000002260	1/2 - 1 Mile SSE
AH183	HI8000000002261	1/2 - 1 Mile SSE
185	HI8000000002300	1/2 - 1 Mile SE
AG188	HI8000000002537	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 3850125.2s



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
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location

SITE NAME:	Kalihi-Palama Health Center Site
ADDRESS:	1040 Pua Lane Honolulu HI 96817
LAT/LONG:	21.3206 / 157.8658
CLIENT:	PBR Hawaii
CONTACT:	Nathalie Razo
INQUIRY #:	3850125.2s
DATE:	February 07, 2014 4:04 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
A1 **NNW** **0 - 1/8 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

A2 **NNW** **0 - 1/8 Mile** **Higher**	**HI WELLS**	**HI8000000002375**	

Objectid:	911	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:	-157.866388889		
Lat83dd:	21.3219444444		
Gps:	0	Utm:	-1
Owner user:	Hawn Evanglcl	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:	HI8000000002375

B3 **South** **1/8 - 1/4 Mile** **Lower**	**HI WELLS**	**HI8000000002359**	

Objectid:	913	Wid:	3-1952-003
Island:	Oahu	Well name:	Dillingham Blvd
Old name:	Not Reported		
Yr drilled:	1900		
Driller:	PINKHAM		
Quad map:	13		
Long83dd:	-157.865555556		
Lat83dd:	21.3180555556		
Gps:	0	Utm:	-1
Owner user:	Oahu R R & L	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:	HI8000000002359

Map ID Direction Distance Elevation	Database	EDR ID Number
B4 **South** **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

C5 **SSW** **1/8 - 1/4 Mile** **Lower**	**HI WELLS**	**HI8000000002358**

Objectid:	933	Wid:	3-1952-023
Island:	Oahu	Well name:	Kapalama
Old name:	Not Reported		
Yr drilled:	1939		
Driller:	MULLIN		
Quad map:	13		
Long83dd:	-157.867222222		
Lat83dd:	21.3180555556		
Gps:	0	Utm:	-1
Owner user:	Haw Gas Prod	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:	HI8000000002358

C6 **SSW** **1/8 - 1/4 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

D7 **NNE** **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
NNE
1/8 - 1/4 Mile
Higher

HI WELLS **HI8000000002389**

Objectid:	925	Wid:	3-1952-015
Island:	Oahu	Well name:	Palama Settlement
Old name:	Vineyard Blvd		
Yr drilled:	1924		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.863889		
Lat83dd:	21.323611		
Gps:	0	Utm:	-1
Owner user:	Palama Settlement	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:	HI8000000002389

E9
SW
1/4 - 1/2 Mile
Lower

HI WELLS **HI8000000002364**

Objectid:	930	Wid:	3-1952-020
Island:	Oahu	Well name:	Kapalama 3
Old name:	Not Reported		
Yr drilled:	1927		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.869166667		
Lat83dd:	21.3183333333		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke Hawaii, Inc. [03]	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:	HI8000000002364

E10
SW
1/4 - 1/2 Mile
Lower

FRDS PWS **HI0000301**

Pwsid:	HI0000301	Epa region:	09
State:	HI	County:	Honolulu
Pws name:	DOLE FRESH FRUIT		
Population Served:	1200	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	NTNCWS		
Status:	Closed	Owner type:	Private
Facility id:	1249		
Facility name:	KAPALAMA BATT 3 1952-20		
Facility type:	Well	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		
Contact name:	Not Reported		
Original name:	Not Reported		
Contact phone:	Not Reported	Contact address1:	Not Reported
Contact address2:	Not Reported		
Contact city:	Not Reported		
Contact zip:	Not Reported		
Facility id:	1250		
Facility name:	KAPALAMA BATT 4 1952-21		
Facility type:	Well	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		
Facility id:	182		
Facility name:	KAPALAMA BATT 2 1952-13		
Facility type:	Treatment_plant	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		
Facility id:	183		
Facility name:	KAPALAMA BATT 3 1952-20		
Facility type:	Treatment_plant	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		
Facility id:	184		
Facility name:	KAPALAMA BATT 4 1952-21		
Facility type:	Treatment_plant	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		
Facility id:	1248		
Facility name:	KAPALAMA BATT 2 1952-13		
Facility type:	Well	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		
Facility id:	1249		
Facility name:	KAPALAMA BATT 3 1952-20		
Facility type:	Well	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		
Facility id:	1250		
Facility name:	KAPALAMA BATT 4 1952-21		
Facility type:	Well	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		
Facility id:	182		
Facility name:	KAPALAMA BATT 2 1952-13		
Facility type:	Treatment_plant	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		

Facility id:	183		
Facility name:	KAPALAMA BATT 3 1952-20		
Facility type:	Treatment_plant	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		
Facility id:	184		
Facility name:	KAPALAMA BATT 4 1952-21		
Facility type:	Treatment_plant	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		
Facility id:	1248		
Facility name:	KAPALAMA BATT 2 1952-13		
Facility type:	Well	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		
Facility id:	1249		
Facility name:	KAPALAMA BATT 3 1952-20		
Facility type:	Well	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		
Facility id:	1250		
Facility name:	KAPALAMA BATT 4 1952-21		
Facility type:	Well	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		
Facility id:	182		
Facility name:	KAPALAMA BATT 2 1952-13		
Facility type:	Treatment_plant	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		
Facility id:	183		
Facility name:	KAPALAMA BATT 3 1952-20		
Facility type:	Treatment_plant	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		
Facility id:	184		
Facility name:	KAPALAMA BATT 4 1952-21		
Facility type:	Treatment_plant	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		
Facility id:	1248		
Facility name:	KAPALAMA BATT 2 1952-13		
Facility type:	Well	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		

PWS ID:	HI0000301		
Date Initiated:	7706	Date Deactivated:	Not Reported
PWS Name:	DOLE CANNERY 801 DILLINGHAM BLVD HONOLULU, OAHU, HI 96817		
Addressee / Facility:	System Owner/Responsible Party MR. MORT NIMEROFF, ENGINEER DOLE PACKAGED FOODS COMPANY P.O. BOX 3380 HONOLULU, HI 96801		

Facility Latitude:	21 19 17	Facility Longitude:	157 52 21
Facility Latitude:	21 19 17	Facility Longitude:	157 52 19
Facility Latitude:	21 19 17	Facility Longitude:	157 52 22
City Served:	CANNING OP		
City Served:	HONOLULU		
Treatment Class:	Treated	Population:	00001200

Violations information not reported.

ENFORCEMENT INFORMATION:

System Name:	DOLE CANNERY		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1995-06-01 - 1995-06-30		
Violation ID:	9500005		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	DOLE CANNERY		
Violation Type:	Monitoring, Repeat Minor (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1995-06-01 - 1995-06-30		
Violation ID:	9500006		
Enforcement Date:	1995-06-21	Enf. Action:	State Violation/Reminder Notice
System Name:	DOLE CANNERY		
Violation Type:	Monitoring, Repeat Minor (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1995-06-01 - 1995-06-30		
Violation ID:	9500006		
Enforcement Date:	1995-06-21	Enf. Action:	State Public Notif Requested
System Name:	DOLE CANNERY		
Violation Type:	Monitoring, Repeat Minor (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1995-06-01 - 1995-06-30		
Violation ID:	9500006		
Enforcement Date:	1995-06-27	Enf. Action:	State Public Notif Issued

E11
SW **FED USGS** **USGS40000269799**
1/4 - 1/2 Mile
Lower

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

E12
SW **FED USGS** **USGS40000269800**
1/4 - 1/2 Mile
Lower

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

F13
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

E14
WSW
1/4 - 1/2 Mile
Lower

HI WELLS **HI8000000002363**

Objectid:	931	Wid:	3-1952-021
Island:	Oahu	Well name:	Kapalama 4
Old name:	Not Reported		
Yr drilled:	1927		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.869722222		
Lat83dd:	21.3183333333		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke Hawaii, Inc. [03]	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:	HI8000000002363

F15
WNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000269815**

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	

F16
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

F17
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

F18
WNW
1/4 - 1/2 Mile
Lower

HI WELLS **HI8000000002379**

Objectid:	951	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 Comm College	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:	HI8000000002379

F19
WNW
1/4 - 1/2 Mile
Lower

HI WELLS **HI8000000002380**

Objectid:	952	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 Comm College	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:	HI8000000002380

Map ID Direction Distance Elevation			Database	EDR ID Number
F20 **WNW** **1/4 - 1/2 Mile** **Lower**			**HI WELLS**	**HI8000000002377**
Objectid:	949	Wid:	3-1952-039	
Island:	Oahu	Well name:	HCC Aqua Cltr A	
Old name:	Not Reported			
Yr drilled:	1983			
Driller:	FRED PAGE			
Quad map:	13			
Long83dd:	-157.87			
Lat83dd:	21.3225			
Gps:	0	Utm:	-1	
Owner user:	Honolulu Comm College	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:	HI8000000002377	

F21 **WNW** **1/4 - 1/2 Mile** **Lower**			**HI WELLS**	**HI8000000002378**
Objectid:	950	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 Comm College	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:	HI8000000002378

F22 **WNW** **1/4 - 1/2 Mile** **Lower**			**HI WELLS**	**HI8000000002383**
Objectid:	955	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 Comm College	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:	HI8000000002383

F23
WNW
1/4 - 1/2 Mile
Lower

HI WELLS **HI8000000002384**

Objectid:	956	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 Comm College	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:	HI8000000002384

F24
WNW
1/4 - 1/2 Mile
Lower

HI WELLS **HI8000000002381**

Objectid:	953	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 Comm College	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:	HI8000000002381

F25
WNW
1/4 - 1/2 Mile
Lower

HI WELLS **HI8000000002382**

Objectid:	954	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 Comm College	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:	HI8000000002382

E26
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

F27
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

F28
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

Map ID Direction Distance Elevation	Database	EDR ID Number
E29 **SW** **1/4 - 1/2 Mile** **Lower**	**HI WELLS**	**HI8000000002357**

Objectid:	921	Wid:	3-1952-011
Island:	Oahu	Well name:	Kapalama 1
Old name:	Not Reported		
Yr drilled:	1913		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.869722222		
Lat83dd:	21.3180555556		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke Hawaii, Inc. [03]	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:	HI8000000002357

F30 **WNW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000269814**	

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

E31 **WSW** **1/4 - 1/2 Mile** **Lower**	**HI WELLS**	**HI8000000002362**	

Objectid:	923	Wid:	3-1952-013
Island:	Oahu	Well name:	Kapalama 2
Old name:	Not Reported		
Yr drilled:	1923		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.87		
Lat83dd:	21.3183333333		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke Hawaii, Inc. [03]	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:	HI8000000002362

Map ID Direction Distance Elevation	Database	EDR ID Number
E32 **SW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000269796**

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

G33 **ESE** **1/4 - 1/2 Mile** **Higher**	**HI WELLS**	**HI8000000002369**

Objectid:	908	Wid:	3-1951-003
Island:	Oahu	Well name:	Vineyard Blvd
Old name:	Not Reported		
Yr drilled:	1905		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.861111111		
Lat83dd:	21.3191666667		
Gps:	0	Utm:	-1
Owner user:	Salvation Army	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:	HI8000000002369

E34 **WSW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000269802**

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

G35 **ESE** **1/4 - 1/2 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

E36
SW **HI WELLS** **HI8000000002354**
1/4 - 1/2 Mile
Lower

Objectid:	922	Wid:	3-1952-012
Island:	Oahu	Well name:	Kapalama
Old name:	Not Reported		
Yr drilled:	1920		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.869444444		
Lat83dd:	21.3172222222		
Gps:	0	Utm:	-1
Owner user:	Cann Slf Stor	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:	HI8000000002354

E37
SW **FED USGS** **USGS40000269790**
1/4 - 1/2 Mile
Lower

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	

H38
SW **HI WELLS** **HI8000000002342**
1/4 - 1/2 Mile
Lower

Objectid:	936	Wid:	3-1952-026
Island:	Oahu	Well name:	Kapalama Battery
Old name:	Not Reported		
Yr drilled:	1950		
Driller:	MULLIN		
Quad map:	13		
Long83dd:	-157.869444444		
Lat83dd:	21.3163888889		
Gps:	0	Utm:	-1
Owner user:	Lone Star Haw	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:	HI8000000002342

H39
SW **HI WELLS** **HI8000000002343**
1/4 - 1/2 Mile
Lower

Objectid:	937	Wid:	3-1952-027
Island:	Oahu	Well name:	Kapalama Battery
Old name:	Not Reported		
Yr drilled:	1950		
Driller:	MULLIN		
Quad map:	13		
Long83dd:	-157.869444444		
Lat83dd:	21.3163888889		
Gps:	0	Utm:	-1
Owner user:	Lone Star Haw	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:	HI8000000002343

H40
SW **HI WELLS** **HI8000000002344**
1/4 - 1/2 Mile
Lower

Objectid:	938	Wid:	3-1952-028
Island:	Oahu	Well name:	Kapalama Battery
Old name:	Not Reported		
Yr drilled:	1950		
Driller:	MULLIN		
Quad map:	13		
Long83dd:	-157.869444444		
Lat83dd:	21.3163888889		
Gps:	0	Utm:	-1
Owner user:	Lone Star Haw	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:	HI8000000002344

H41
SW **FED USGS** **USGS40000269778**
1/4 - 1/2 Mile
Lower

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

Map ID
Direction
Distance
Elevation

Database EDR ID Number

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

H44
SSW
1/4 - 1/2 Mile
Lower

HI WELLS **HI8000000002338**

Objectid:	943	Wid:	3-1952-033
Island:	Oahu	Well name:	Kapalama Battery
Old name:	Not Reported		
Yr drilled:	1978		
Driller:	ROSCOE MOSS		
Quad map:	13		
Long83dd:	-157.868888889		
Lat83dd:	21.3158333333		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke Hawaii, Inc. [03]	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:	HI8000000002338

H45
SW
1/4 - 1/2 Mile
Lower

HI WELLS **HI8000000002335**

Objectid:	941	Wid:	3-1952-031
Island:	Oahu	Well name:	Kapalama Battery
Old name:	Not Reported		
Yr drilled:	1954		
Driller:	SAMSON-SMOCK		
Quad map:	13		
Long83dd:	-157.869722222		
Lat83dd:	21.3155555556		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke Hawaii, Inc. [03]	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:	HI8000000002335

Map ID Direction Distance Elevation	Database	EDR ID Number
H46 **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

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

I48
WSW
1/4 - 1/2 Mile
Lower

HI WELLS **HI8000000002353**

Objectid:	940	Wid:	3-1952-030
Island:	Oahu	Well name:	Kapalama
Old name:	Not Reported		
Yr drilled:	1951		
Driller:	NAT WHITON		
Quad map:	13		
Long83dd:	-157.871666667		
Lat83dd:	21.3169444444		
Gps:	0	Utm:	-1
Owner user:	Hon Gas	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:	HI8000000002353

H49
SW
1/4 - 1/2 Mile
Lower

HI WELLS **HI8000000002328**

Objectid:	942	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:	21.3152777778		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke Hawaii, Inc. [03]	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:	HI8000000002328

I50
SW
1/4 - 1/2 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

J51
SW
1/4 - 1/2 Mile
Lower

HI WELLS **HI8000000002337**

Objectid:	939	Wid:	3-1952-029
Island:	Oahu	Well name:	Kapalama Battery
Old name:	Not Reported		
Yr drilled:	1951		
Driller:	SAMSON-SMOCK		
Quad map:	13		
Long83dd:	-157.870833333		
Lat83dd:	21.3158333333		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke Hawaii, Inc. [03]	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:	HI8000000002337

J52
SW
1/4 - 1/2 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

I53
SW
1/4 - 1/2 Mile
Lower

HI WELLS **HI8000000002347**

Objectid:	935	Wid:	3-1952-025
Island:	Oahu	Well name:	Kapalama
Old name:	Not Reported		
Yr drilled:	1947		
Driller:	MULLIN		
Quad map:	13		
Long83dd:	-157.871666667		
Lat83dd:	21.3166666667		
Gps:	0	Utm:	-1
Owner user:	Hon Gas	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:	Other	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:	HI8000000002347

J54
SW
1/4 - 1/2 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

I55
SW
1/4 - 1/2 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

K56
North
1/4 - 1/2 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

I57
SW
1/4 - 1/2 Mile
Lower

HI WELLS **HI8000000002341**

Objectid:	934	Wid:	3-1952-024
Island:	Oahu	Well name:	Kapalama
Old name:	Not Reported		
Yr drilled:	1947		
Driller:	MULLIN		
Quad map:	13		
Long83dd:	-157.871666667		
Lat83dd:	21.3163888889		
Gps:	0	Utm:	-1
Owner user:	Hon Gas	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:	HI8000000002341

K58
North **HI WELLS** **HI8000000002429**
1/4 - 1/2 Mile
Higher

Objectid:	914	Wid:	3-1952-004
Island:	Oahu	Well name:	Kapalama
Old name:	Not Reported		
Yr drilled:	1900		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.864444444		
Lat83dd:	21.3275		
Gps:	0	Utm:	-1
Owner user:	Ahin Y Trust	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:	HI8000000002429

I59
SW **FED USGS** **USGS40000269781**
1/4 - 1/2 Mile
Lower

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

I60
WSW **HI WELLS** **HI8000000002352**
1/4 - 1/2 Mile
Lower

Objectid:	924	Wid:	3-1952-014
Island:	Oahu	Well name:	Kapalama
Old name:	Not Reported		
Yr drilled:	1923		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.872222		
Lat83dd:	21.316944		
Gps:	0	Utm:	-1
Owner user:	Gasco	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:	HI8000000002352

I61
WSW **FED USGS** **USGS40000269789**
1/4 - 1/2 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	

L62
SSW **HI WELLS** **HI8000000002318**
1/4 - 1/2 Mile
Lower

Objectid:	947	Wid:	3-1952-037
Island:	Oahu	Well name:	Kapalama
Old name:	Not Reported		
Yr drilled:	1972		
Driller:	CONTINENTAL		
Quad map:	13		
Long83dd:	-157.868611111		
Lat83dd:	21.3138888889		
Gps:	0	Utm:	-1
Owner user:	Union Oil Co	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:	HI8000000002318

L63
SSW **FED USGS** **USGS40000269751**
1/2 - 1 Mile
Lower

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	

I64
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000269773**

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

K65
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

K66
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

K67
North
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002435**

Objectid:	920	Wid:	3-1952-010
Island:	Oahu	Well name:	Kapalama
Old name:	Not Reported		
Yr drilled:	1901		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.865		
Lat83dd:	21.3280555556		
Gps:	0	Utm:	-1
Owner user:	Ishimoto T	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:	HI8000000002435

K68
North
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002436**

Objectid:	915	Wid:	3-1952-005
Island:	Oahu	Well name:	Kapalama
Old name:	Not Reported		
Yr drilled:	1900		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.864722222		
Lat83dd:	21.3280555556		
Gps:	0	Utm:	-1
Owner user:	KS/Bishop Estate	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:	HI8000000002436

K69
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

K70
North
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002450**

Objectid:	919	Wid:	3-1952-009
Island:	Oahu	Well name:	Kapalama
Old name:	Not Reported		
Yr drilled:	1901		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.864722222		
Lat83dd:	21.3283333333		
Gps:	0	Utm:	-1
Owner user:	KS/Bishop Estate	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:	HI8000000002450

M71
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

M72
NNE
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002430**

Objectid:	907	Wid:	3-1951-002
Island:	Oahu	Well name:	Lanakila
Old name:	Not Reported		
Yr drilled:	1894		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.861666667		
Lat83dd:	21.3277777778		
Gps:	0	Utm:	-1
Owner user:	State Of Hawaii	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:	HI8000000002430

N73
ESE
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002348**

Objectid:	906	Wid:	3-1951-001
Island:	Oahu	Well name:	Botanic Garden
Old name:	Not Reported		
Yr drilled:	1883		
Driller:	Not Reported		
Quad map:	13		
Long83dd:	-157.857777778		
Lat83dd:	21.3166666667		
Gps:	0	Utm:	-1
Owner user:	C&C Parks & Recreation	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:	HI8000000002348

N74
ESE
1/2 - 1 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

O75
South
1/2 - 1 Mile
Lower

HI WELLS **HI8000000002306**

Objectid:	805	Wid:	3-1852-001
Island:	Oahu	Well name:	Ala Moana Blvd
Old name:	Not Reported		
Yr drilled:	1937		
Driller:	MULLIN		
Quad map:	13		
Long83dd:	-157.864444444		
Lat83dd:	21.3119444444		
Gps:	0	Utm:	-1
Owner user:	Chun Hoon Mkt	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:	HI8000000002306

76
SSE **FED USGS** **USGS40000269742**
1/2 - 1 Mile
Higher

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

O77
South **FED USGS** **USGS40000269731**
1/2 - 1 Mile
Lower

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

P78
NW **FED USGS** **USGS40000269855**
1/2 - 1 Mile
Higher

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

P79
NW **FED USGS** **USGS40000269864**
1/2 - 1 Mile
Higher

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

P80
NW **FED USGS** **USGS40000269867**
1/2 - 1 Mile
Higher

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

P81
NW **FED USGS** **USGS40000269866**
1/2 - 1 Mile
Higher

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

P82
NW **FED USGS** **USGS40000269865**
1/2 - 1 Mile
Higher

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

P83
NW **FED USGS** **USGS40000269868**
1/2 - 1 Mile
Higher

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		
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

P84
NW **FED USGS** **USGS40000269871**
1/2 - 1 Mile
Higher

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

P85
NW **FED USGS** **USGS40000269870**
1/2 - 1 Mile
Higher

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

P86
NW **FED USGS** **USGS40000269869**
1/2 - 1 Mile
Higher

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

P87
NW **HI WELLS** **HI8000000002441**
1/2 - 1 Mile
Higher

Objectid:	918	Wid:	3-1952-008
Island:	Oahu	Well name:	Kalihi Pump Station
Old name:	Not Reported		
Yr drilled:	1900		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.871389		
Lat83dd:	21.328333		
Gps:	0	Utm:	-1
Owner user:	Honolulu BWS	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:	HI8000000002441

P88
NW **HI WELLS** **HI8000000002442**
1/2 - 1 Mile
Higher

Objectid:	926	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:	Honolulu BWS	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:	HI8000000002442

P89
NW **HI WELLS** **HI8000000002439**
1/2 - 1 Mile
Higher

Objectid:	916	Wid:	3-1952-006
Island:	Oahu	Well name:	Kalihi Pump Station
Old name:	Not Reported		
Yr drilled:	1900		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.871389		
Lat83dd:	21.328333		
Gps:	0	Utm:	-1
Owner user:	Honolulu BWS	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:	HI8000000002439

P90
NW **HI WELLS** **HI8000000002440**
1/2 - 1 Mile
Higher

Objectid:	917	Wid:	3-1952-007
Island:	Oahu	Well name:	Kalihi Pump Station
Old name:	Not Reported		
Yr drilled:	1900		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.871389		
Lat83dd:	21.328333		
Gps:	0	Utm:	-1
Owner user:	Honolulu BWS	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:	HI8000000002440

P91
NW
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002443**

Objectid:	927	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:	Honolulu BWS	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:	HI8000000002443

P92
NW
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002446**

Objectid:	932	Wid:	3-1952-022
Island:	Oahu	Well name:	Kalihi Pump Station
Old name:	Not Reported		
Yr drilled:	1927		
Driller:	PRIMMER		
Quad map:	13		
Long83dd:	-157.871389		
Lat83dd:	21.328333		
Gps:	0	Utm:	-1
Owner user:	Honolulu BWS	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:	HI8000000002446

Map ID Direction Distance Elevation	Database	EDR ID Number
P93 **NW** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI8000000002447**

Objectid:	958	Wid:	3-1952-048
Island:	Oahu	Well name:	Kalihi Sta Deep Monitor
Old name:	Not Reported		
Yr drilled:	2000		
Driller:	WAT RES INTL		
Quad map:	13		
Long83dd:	-157.871389		
Lat83dd:	21.328333		
Gps:	0	Utm:	-1
Owner user:	Honolulu BWS	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:	HONOLULU BWS
T:	Not Reported	Site id:	HI8000000002447

P94 **NW** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI8000000002444**	

Objectid:	928	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:	Honolulu BWS	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:	HI8000000002444

P95 **NW** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI8000000002445**	

Objectid:	929	Wid:	3-1952-019
Island:	Oahu	Well name:	Kalihi Pump Station
Old name:	Not Reported		
Yr drilled:	1926		
Driller:	PRIMMER		
Quad map:	13		
Long83dd:	-157.871389		
Lat83dd:	21.328333		
Gps:	0	Utm:	-1
Owner user:	Honolulu BWS	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:	HI8000000002445

96
NE
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002419**

Objectid:	910	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:	21.3261111111		
Gps:	0	Utm:	-1
Owner user:	City & County Parks&Rec	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:	HI8000000002419

Q97
North
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

98
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

Map ID Direction Distance Elevation	Database	EDR ID Number
R99 **SSE** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI8000000002307**

Objectid:	765	Wid:	3-1851-037
Island:	Oahu	Well name:	Nuuanu Ave
Old name:	Not Reported		
Yr drilled:	1936		
Driller:	HOBART		
Quad map:	13		
Long83dd:	-157.860277778		
Lat83dd:	21.3119444444		
Gps:	0	Utm:	-1
Owner user:	Cons Amus Co	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:	HI8000000002307

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100 **SSE** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI8000000002302**

Objectid:	767	Wid:	3-1851-039
Island:	Oahu	Well name:	Hawaii Theatre
Old name:	Not Reported		
Yr drilled:	1937		
Driller:	MULLIN		
Quad map:	13		
Long83dd:	-157.861666667		
Lat83dd:	21.3111111111		
Gps:	0	Utm:	-1
Owner user:	Cons Amus Co	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:	HI8000000002302

R101 **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

Map ID Direction Distance Elevation	Database	EDR ID Number
Q102 **North** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI8000000002481**

Objectid:	1092	Wid:	3-2052-012
Island:	Oahu	Well name:	Jonathan Springs
Old name:	Not Reported		
Yr drilled:	2002		
Driller:	ROSCOE MOSS		
Quad map:	13		
Long83dd:	-157.866111		
Lat83dd:	21.331111		
Gps:	0	Utm:	-1
Owner user:	Honolulu BWS	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:	HI8000000002481

S103 **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

T104 **ESE** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI8000000002349**	

Objectid:	909	Wid:	3-1951-004
Island:	Oahu	Well name:	Liliha
Old name:	Not Reported		
Yr drilled:	1939		
Driller:	MULLIN		
Quad map:	13		
Long83dd:	-157.855277778		
Lat83dd:	21.3166666667		
Gps:	0	Utm:	-1
Owner user:	Chun Hoon Mkt	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:	HI8000000002349

Map ID Direction Distance Elevation	Database	EDR ID Number
T105 **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

S106 **NNW** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI8000000002478**

Objectid:	1083	Wid:	3-2052-003
Island:	Oahu	Well name:	Waiakamilo
Old name:	Not Reported		
Yr drilled:	1894		
Driller:	Not Reported		
Quad map:	13		
Long83dd:	-157.868888889		
Lat83dd:	21.3308333333		
Gps:	0	Utm:	-1
Owner user:	Chinese YWCA	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:	HI8000000002478

Q107 **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	

R108 **SSE** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI8000000002303**

Objectid:	778	Wid:	3-1851-050
Island:	Oahu	Well name:	Ft St Mall
Old name:	Not Reported		
Yr drilled:	1940		
Driller:	NAT WHITON		
Quad map:	13		
Long83dd:	-157.859722222		
Lat83dd:	21.3113888889		
Gps:	0	Utm:	-1
Owner user:	Ramsey W A	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:	HI8000000002303

R109
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

U110
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

V111
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

U112
NNW
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002477**

Objectid:	1084	Wid:	3-2052-004
Island:	Oahu	Well name:	Bishop Museum
Old name:	Not Reported		
Yr drilled:	1895		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.870555556		
Lat83dd:	21.3308333333		
Gps:	0	Utm:	-1
Owner user:	KS/Bishop Estate	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:	HI8000000002477

R113
SSE
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002301**

Objectid:	769	Wid:	3-1851-041
Island:	Oahu	Well name:	Ft St Mall
Old name:	Not Reported		
Yr drilled:	1938		
Driller:	NAT WHITON		
Quad map:	13		
Long83dd:	-157.86		
Lat83dd:	21.3108333333		
Gps:	0	Utm:	-1
Owner user:	Fronk & Wynn	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:	HI8000000002301

W114
SSE
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002294**

Objectid:	777	Wid:	3-1851-049
Island:	Oahu	Well name:	King St
Old name:	Not Reported		
Yr drilled:	1940		
Driller:	MULLIN		
Quad map:	13		
Long83dd:	-157.8625		
Lat83dd:	21.3097222222		
Gps:	0	Utm:	-1
Owner user:	Royal Amusemt	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:	HI8000000002294

V115
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

W116
SSE
1/2 - 1 Mile
Lower

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

X117
South
1/2 - 1 Mile
Lower

HI WELLS **HI8000000002290**

Objectid:	807	Wid:	3-1852-003
Island:	Oahu	Well name:	Ala Moana Blvd
Old name:	Not Reported		
Yr drilled:	1947		
Driller:	NAT WHITON		
Quad map:	13		
Long83dd:	-157.863888889		
Lat83dd:	21.3091666667		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke Hawaii, Inc. [03]	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:	HI8000000002290

U118
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

W119
SSE
1/2 - 1 Mile
Lower

HI WELLS **HI8000000002292**

Objectid:	768	Wid:	3-1851-040
Island:	Oahu	Well name:	Ft St Mall
Old name:	Not Reported		
Yr drilled:	1938		
Driller:	HOBART		
Quad map:	13		
Long83dd:	-157.862222222		
Lat83dd:	21.3094444444		
Gps:	0	Utm:	-1
Owner user:	Easy Applianc	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:	HI8000000002292

U120
NNW
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002484**

Objectid:	1086	Wid:	3-2052-006
Island:	Oahu	Well name:	Kapalama Ave
Old name:	Not Reported		
Yr drilled:	1910		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.870555556		
Lat83dd:	21.3313888889		
Gps:	0	Utm:	-1
Owner user:	State Of Hawaii	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:	HI8000000002484

X121
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

W122
SSE
1/2 - 1 Mile
Lower

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

Y123
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

Z124
SE
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002308**

Objectid:	744	Wid:	3-1851-016
Island:	Oahu	Well name:	Central School
Old name:	Not Reported		
Yr drilled:	1889		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.856944444		
Lat83dd:	21.3122222222		
Gps:	0	Utm:	-1
Owner user:	C&C Honolulu	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:	HI8000000002308

125
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

Map ID Direction Distance Elevation	Database	EDR ID Number
Z126 **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

W127
SSE
1/2 - 1 Mile
Lower

HI WELLS **HI8000000002286**

Objectid:	766	Wid:	3-1851-038
Island:	Oahu	Well name:	Ft St Mall
Old name:	Not Reported		
Yr drilled:	1937		
Driller:	MULLIN		
Quad map:	13		
Long83dd:	-157.862777778		
Lat83dd:	21.3088888889		
Gps:	0	Utm:	-1
Owner user:	Brewer C & Co	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:	HI8000000002286

W128
SSE **FED USGS** **USGS40000269708**
1/2 - 1 Mile
Lower

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

W129
SSE **HI WELLS** **HI8000000002287**
1/2 - 1 Mile
Lower

Objectid:	780	Wid:	3-1851-052
Island:	Oahu	Well name:	King St
Old name:	Not Reported		
Yr drilled:	1952		
Driller:	SAMSON-SMOCK		
Quad map:	13		
Long83dd:	-157.861666667		
Lat83dd:	21.3088888889		
Gps:	0	Utm:	-1
Owner user:	Bank Of Hawaii	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:	HI8000000002287

W130
SSE **FED USGS** **USGS40000269706**
1/2 - 1 Mile
Lower

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

W131
SSE **FED USGS** **USGS40000269707**
1/2 - 1 Mile
Lower

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.

W132
SSE **FED USGS** **USGS40000269705**
1/2 - 1 Mile
Lower

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

X133
South **HI WELLS** **HI8000000002279**
1/2 - 1 Mile
Lower

Objectid:	800	Wid:	3-1851-072
Island:	Oahu	Well name:	Ft St Mall 2
Old name:	Not Reported		
Yr drilled:	1973		
Driller:	ROSCOE MOSS		
Quad map:	13		
Long83dd:	-157.863611111		
Lat83dd:	21.3083333333		
Gps:	0	Utm:	-1
Owner user:	Center Prop	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	Casing:	Power De 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:	HI8000000002279

Map ID Direction Distance Elevation	Database	EDR ID Number
X134 **South** **1/2 - 1 Mile** **Lower**	**HI WELLS**	**HI8000000002278**

Objectid:	799	Wid:	3-1851-071
Island:	Oahu	Well name:	Ft St Mall 1
Old name:	Not Reported		
Yr drilled:	1973		
Driller:	ROSCOE MOSS		
Quad map:	13		
Long83dd:	-157.863611111		
Lat83dd:	21.3083333333		
Gps:	0	Utm:	-1
Owner user:	Center Prop	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	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:	HI8000000002278

AA135 **West** **1/2 - 1 Mile** **Lower**	**HI WELLS**	**HI8000000002385**	

Objectid:	945	Wid:	3-1952-035
Island:	Oahu	Well name:	Kapalama
Old name:	Not Reported		
Yr drilled:	1960		
Driller:	SAMSON-SMOCK		
Quad map:	13		
Long83dd:	-157.878888889		
Lat83dd:	21.3227777778		
Gps:	0	Utm:	-1
Owner user:	KS/Bishop Estate	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:	HI8000000002385

AA136 **West** **1/2 - 1 Mile** **Lower**	**HI WELLS**	**HI8000000002386**	

Objectid:	946	Wid:	3-1952-036
Island:	Oahu	Well name:	Kapalama
Old name:	Not Reported		
Yr drilled:	1967		
Driller:	NAT WHITON		
Quad map:	13		
Long83dd:	-157.878888889		
Lat83dd:	21.3227777778		
Gps:	0	Utm:	-1
Owner user:	KS/Bishop Estate	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:	Other	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:	HI8000000002386

AA137
West
1/2 - 1 Mile
Lower

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

AA138
West
1/2 - 1 Mile
Lower

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

Y139
SSE
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002295**

Objectid:	758	Wid:	3-1851-030
Island:	Oahu	Well name:	Alakea St
Old name:	Not Reported		
Yr drilled:	1915		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.859166667		
Lat83dd:	21.3097222222		
Gps:	0	Utm:	-1
Owner user:	Hon Mdse Mart	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:	HI8000000002295

Map ID Direction Distance Elevation	Database	EDR ID Number
X140 **South** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000269700**

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	

X141
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000269701**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211841157515902		
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	

Y142
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

AB143
SSE
1/2 - 1 Mile
Lower

HI WELLS **HI8000000002288**

Objectid:	751	Wid:	3-1851-023
Island:	Oahu	Well name:	Bishop St
Old name:	Not Reported		
Yr drilled:	1901		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.860555556		
Lat83dd:	21.3088888889		
Gps:	0	Utm:	-1
Owner user:	A Young Hotel	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:	HI8000000002288

X144
South
1/2 - 1 Mile
Lower

HI WELLS **HI8000000002276**

Objectid:	804	Wid:	3-1851-076
Island:	Oahu	Well name:	Amfac Center
Old name:	Not Reported		
Yr drilled:	0		
Driller:	Not Reported		
Quad map:	13		
Long83dd:	-157.863611111		
Lat83dd:	21.3080555556		
Gps:	0	Utm:	-1
Owner user:	Duesenburg Inv Co	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	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:	HI8000000002276

AA145
West
1/2 - 1 Mile
Lower

HI WELLS **HI8000000002387**

Objectid:	944	Wid:	3-1952-034
Island:	Oahu	Well name:	Kapalama
Old name:	Not Reported		
Yr drilled:	1959		
Driller:	NAT WHITON		
Quad map:	13		
Long83dd:	-157.879166667		
Lat83dd:	21.3230555556		
Gps:	0	Utm:	-1
Owner user:	KS/Bishop Estate	Old number:	130-
Well type:	Not Reported	Casing dia:	12
Ground el:	15		
Well depth:	85		
Solid case:	60	Perf case:	Not Reported
Use:	Other	Use year:	Not Reported
Init head:	4	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	0		
Test date:	Not Reported	Test gpm:	750
Test ddown:	31.4	Test chlor:	18850
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:	-70
Bot solid:	-45	Bot perf:	Not Reported
Spec capac:	24		
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-59
Pir:	Not Reported	Surveyor:	Not Reported
T:	Not Reported	Site id:	HI8000000002387

AA146
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000269821**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211934157525501		
Monloc name:	3-1952-34 W130 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:	21.3229462
Longitude:	-157.8792006	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:	19590410	Welldepth:	85
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AB147
SSE **FED USGS** **USGS40000269704**
1/2 - 1 Mile
Lower

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

Map ID
Direction
Distance
Elevation Database EDR ID Number

AC148
SSE **HI WELLS** **HI8000000002277**
1/2 - 1 Mile
Lower

Objectid:	781	Wid:	3-1851-053
Island:	Oahu	Well name:	Queen St
Old name:	Not Reported		
Yr drilled:	1956		
Driller:	SAMSON-SMOCK		
Quad map:	13		
Long83dd:	-157.862777778		
Lat83dd:	21.3080555556		
Gps:	0	Utm:	-1
Owner user:	A&B	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:	HI8000000002277

AB149
SSE **HI WELLS** **HI8000000002280**
1/2 - 1 Mile
Lower

Objectid:	775	Wid:	3-1851-047
Island:	Oahu	Well name:	King St
Old name:	Not Reported		
Yr drilled:	1939		
Driller:	NAT WHITON		
Quad map:	13		
Long83dd:	-157.861666667		
Lat83dd:	21.3083333333		
Gps:	0	Utm:	-1
Owner user:	Walston & Co	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:	HI8000000002280

AB150
SSE **HI WELLS** **HI8000000002281**
1/2 - 1 Mile
Lower

Objectid:	776	Wid:	3-1851-048
Island:	Oahu	Well name:	King St
Old name:	Not Reported		
Yr drilled:	1939		
Driller:	NAT WHITON		
Quad map:	13		
Long83dd:	-157.861666667		
Lat83dd:	21.3083333333		
Gps:	0	Utm:	-1
Owner user:	Walston & Co	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:	HI8000000002281

AD151
SSE **HI WELLS** **HI8000000002297**
1/2 - 1 Mile
Higher

Objectid:	784	Wid:	3-1851-056
Island:	Oahu	Well name:	Alakea St
Old name:	Not Reported		
Yr drilled:	1958		
Driller:	NAT WHITON		
Quad map:	13		
Long83dd:	-157.858333333		
Lat83dd:	21.3097222222		
Gps:	0	Utm:	-1
Owner user:	Am Mutual Ins	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:	HI8000000002297

AD152
SSE **HI WELLS** **HI8000000002296**
1/2 - 1 Mile
Higher

Objectid:	783	Wid:	3-1851-055
Island:	Oahu	Well name:	Alakea St
Old name:	Not Reported		
Yr drilled:	1958		
Driller:	NAT WHITON		
Quad map:	13		
Long83dd:	-157.858333333		
Lat83dd:	21.3097222222		
Gps:	0	Utm:	-1
Owner user:	Am Mutual Ins	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:	HI8000000002296

AC153
SSE
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

AD154
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

AD155
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

AD156
SSE
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002293**

Objectid:	733	Wid:	3-1851-005
Island:	Oahu	Well name:	Alakea St
Old name:	Not Reported		
Yr drilled:	1882		
Driller:	Not Reported		
Quad map:	13		
Long83dd:	-157.858611111		
Lat83dd:	21.3094444444		
Gps:	0	Utm:	-1
Owner user:	Cooper K M	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:	HI8000000002293

AD157
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000269712**

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

AE158
South
1/2 - 1 Mile
Lower

HI WELLS **HI8000000002264**

Objectid:	808	Wid:	3-1852-004
Island:	Oahu	Well name:	Aloha Towers
Old name:	Not Reported		
Yr drilled:	1947		
Driller:	NAT WHITON		
Quad map:	13		
Long83dd:	-157.865833333		
Lat83dd:	21.3072222222		
Gps:	0	Utm:	-1
Owner user:	Castle & Cooke Hawaii, Inc. [03]	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:	HI8000000002264

AC159
South **FED USGS** **USGS40000269692**
1/2 - 1 Mile
Lower

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	

AE160
South **FED USGS** **USGS40000269693**
1/2 - 1 Mile
Lower

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

AC161
South **HI WELLS** **HI8000000002266**
1/2 - 1 Mile
Lower

Objectid:	797	Wid:	3-1851-069
Island:	Oahu	Well name:	Bishop St
Old name:	Not Reported		
Yr drilled:	1968		
Driller:	NAT WHITON		
Quad map:	13		
Long83dd:	-157.863333333		
Lat83dd:	21.3072222222		
Gps:	0	Utm:	-1
Owner user:	Duesenburg Inv Co	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	Cooling:	Power De 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:	HI8000000002266

Map ID Direction Distance Elevation			Database	EDR ID Number
AC162 **South** **1/2 - 1 Mile** **Lower**			**HI WELLS**	**HI8000000002267**
Objectid:	798	Wid:	3-1851-070	
Island:	Oahu	Well name:	Ft St Mall	
Old name:	Not Reported			
Yr drilled:	1968			
Driller:	NAT WHITON			
Quad map:	13			
Long83dd:	-157.863333333			
Lat83dd:	21.3072222222			
Gps:	0	Utm:	-1	
Owner user:	AMFAC	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:	HI8000000002267	

AC163 **South** **1/2 - 1 Mile** **Lower**			**HI WELLS**	**HI8000000002265**
Objectid:	796	Wid:	3-1851-068	
Island:	Oahu	Well name:	Bishop St	
Old name:	Not Reported			
Yr drilled:	1968			
Driller:	NAT WHITON			
Quad map:	13			
Long83dd:	-157.863333333			
Lat83dd:	21.3072222222			
Gps:	0	Utm:	-1	
Owner user:	Duesenburg Inv Co	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	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:	HI8000000002265

AE164 **South** **1/2 - 1 Mile** **Lower**			**HI WELLS**	**HI8000000002259**
Objectid:	809	Wid:	3-1852-005	
Island:	Oahu	Well name:	Aloha Tower	
Old name:	Not Reported			
Yr drilled:	1951			
Driller:	NAT WHITON			
Quad map:	13			
Long83dd:	-157.865833333			
Lat83dd:	21.3069444444			
Gps:	0	Utm:	-1	
Owner user:	Podmore J W	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:	HI8000000002259

AC165
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

AC166
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

AE167
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

AF168
WNW
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002412**

Objectid:	948	Wid:	3-1952-038
Island:	Oahu	Well name:	Kapalama
Old name:	Not Reported		
Yr drilled:	1900		
Driller:	Not Reported		
Quad map:	13		
Long83dd:	-157.879722222		
Lat83dd:	21.3252777778		
Gps:	0	Utm:	-1
Owner user:	KS/Bishop Estate	Old number:	134

Well type:	Not Reported	Casing dia:	10
Ground el:	15		
Well depth:	603		
Solid case:	492	Perf case:	Not Reported
Use:	UNU - Unused	Use year:	Not Reported
Init head:	25.6	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	124		
Test date:	Not Reported	Test gpm:	12
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:	-588
Bot solid:	-477	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) 1-5-028:041
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	02-JAN-00
Pir:	Not Reported	Surveyor:	Not Reported
T:	Not Reported	Site id:	HI8000000002412

AG169
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000269919**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-212015157521501		
Monloc name:	3-2052-10 T69 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:	21.3343344
Longitude:	-157.8680894	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:	80.00
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:	19590101	Welldepth:	283
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
AG170 **North** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI8000000002519**

Objectid:	1090	Wid:	3-2052-010
Island:	Oahu	Well name:	Kapalama
Old name:	Not Reported		
Yr drilled:	1959		
Driller:	SAMSON-SMOCK		
Quad map:	13		
Long83dd:	-157.868056		
Lat83dd:	21.334444		
Gps:	0	Utm:	-1
Owner user:	Honolulu BWS	Old number:	T69-
Well type:	Not Reported	Casing dia:	8
Ground el:	80		
Well depth:	283		
Solid case:	233	Perf case:	Not Reported
Use:	OBS - Water Level	Use year:	Not Reported
Init head:	24.2	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:	-203
Bot solid:	-153	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) 1-6-026:022
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-59
Pir:	Not Reported	Surveyor:	Not Reported
T:	Not Reported	Site id:	HI8000000002519

AF171
WNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000269834**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-211941157525801		
Monloc name:	3-1952-38 W134 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:	21.3248906
Longitude:	-157.8800339	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:	17.36
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:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19000701	Welldepth:	607
Welldepth units:	ft	Wellholedepth:	607
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1917-07-05	-15.11	

AG172
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000269923**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-212016157521201		
Monloc name:	3-2052-07 W133 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:	21.3346121
Longitude:	-157.867256	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:	80.00
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:	19270201	Welldepth:	321
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AH173
SSE
1/2 - 1 Mile
Lower

HI WELLS **HI8000000002269**

Objectid:	771	Wid:	3-1851-043
Island:	Oahu	Well name:	Merchant St
Old name:	Not Reported		
Yr drilled:	1939		
Driller:	NAT WHITON		
Quad map:	13		
Long83dd:	-157.861111111		
Lat83dd:	21.3072222222		
Gps:	0	Utm:	-1
Owner user:	Wilcox Dev	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:	HI8000000002269

AH174
SSE
1/2 - 1 Mile
Lower

HI WELLS **HI8000000002268**

Objectid:	770	Wid:	3-1851-042
Island:	Oahu	Well name:	Merchant St
Old name:	Not Reported		
Yr drilled:	1939		
Driller:	NAT WHITON		
Quad map:	13		
Long83dd:	-157.861111111		
Lat83dd:	21.3072222222		
Gps:	0	Utm:	-1
Owner user:	Wilcox Dev	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:	HI8000000002268

AH175
SSE
1/2 - 1 Mile
Lower

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

AH176
SSE
1/2 - 1 Mile
Lower

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

AG177
North
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002534**

Objectid:	1087	Wid:	3-2052-007
Island:	Oahu	Well name:	Kamehameha Sch 1
Old name:	Not Reported		
Yr drilled:	1927		
Driller:	MCCANDLESS		
Quad map:	13		
Long83dd:	-157.867222222		
Lat83dd:	21.3347222222		
Gps:	0	Utm:	-1
Owner user:	KS/Bishop Estate	Old number:	133-
Well type:	Not Reported	Casing dia:	12
Ground el:	80		
Well depth:	321		
Solid case:	118	Perf case:	Not Reported
Use:	ABN - Sealed	Use year:	Not Reported
Init head:	26	Init head2:	Not Reported
Init head3:	Not Reported		
Init cl:	84		
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:	79	Head feet:	Not Reported
Max chlor:	Not Reported	Min chlor:	Not Reported
Geology:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-241
Bot solid:	-38	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) 1-6-027:077
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JAN-27
Pir:	1/1/1977	Surveyor:	Not Reported
T:	Not Reported	Site id:	HI8000000002534

AI178
SSE
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002282**

Objectid:	789	Wid:	3-1851-061
Island:	Oahu	Well name:	State Capitol
Old name:	Not Reported		
Yr drilled:	1963		
Driller:	SAMSON-ZERBE		
Quad map:	13		
Long83dd:	-157.858055556		
Lat83dd:	21.3083333333		
Gps:	0	Utm:	-1
Owner user:	State DAGS	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	Geology:	Power De
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:	HI8000000002282

AI179
SSE
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002284**

Objectid:	794	Wid:	3-1851-066
Island:	Oahu	Well name:	Beretania
Old name:	Not Reported		
Yr drilled:	1967		
Driller:	LAYNE INTL		
Quad map:	13		
Long83dd:	-157.8575		
Lat83dd:	21.3086111111		
Gps:	0	Utm:	-1
Owner user:	State Of Hawaii	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	Geology:	Power De
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:	HI8000000002284

AI180
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

AG181
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000269937**

Org. Identifier:	USGS-HI		
Formal name:	USGS Hawaii Water Science Center		
Monloc Identifier:	USGS-212017157521101		
Monloc name:	3-2052-11 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:	21.3348899
Longitude:	-157.8669783	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:	90.00
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:	19770714	Welldepth:	334
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AH182
SSE
1/2 - 1 Mile
Lower

HI WELLS **HI8000000002260**

Objectid:	773	Wid:	3-1851-045
Island:	Oahu	Well name:	Merchant&Richard
Old name:	Not Reported		
Yr drilled:	1939		
Driller:	MULLIN		
Quad map:	13		
Long83dd:	-157.861111111		
Lat83dd:	21.3069444444		
Gps:	0	Utm:	-1
Owner user:	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:	HI8000000002260

AH183
SSE
1/2 - 1 Mile
Lower

HI WELLS **HI8000000002261**

Objectid:	774	Wid:	3-1851-046
Island:	Oahu	Well name:	Merchant&Richard
Old name:	Not Reported		
Yr drilled:	1939		
Driller:	MULLIN		
Quad map:	13		
Long83dd:	-157.861111111		
Lat83dd:	21.3069444444		
Gps:	0	Utm:	-1
Owner user:	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:	HI8000000002261

Map ID Direction Distance Elevation	Database	EDR ID Number
AI184 **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

185 **SE** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI8000000002300**

Objectid:	735	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:	Pacific Club	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)	Usagecode:	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:	HI8000000002300

AH186 **SSE** **1/2 - 1 Mile** **Lower**	**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

AH187 **SSE** **1/2 - 1 Mile** **Lower**	**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

AG188
North
1/2 - 1 Mile
Higher

HI WELLS **HI8000000002537**

Objectid:	1091	Wid:	3-2052-011
Island:	Oahu	Well name:	Kamehameha Sch 2
Old name:	Not Reported		
Yr drilled:	1977		
Driller:	WAT RES INTL		
Quad map:	13		
Long83dd:	-157.866944444		
Lat83dd:	21.335		
Gps:	0	Utm:	-1
Owner user:	KS/Bishop Estate	Old number:	Not Reported
Well type:	ROT	Casing dia:	12
Ground el:	90		
Well depth:	334		
Solid case:	129	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:	50		
Test date:	1/1/1977	Test gpm:	850
Test ddown:	4.8	Test chlor:	75
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:	TKB		
Pump yr:	0		
Draft yr:	Not Reported	Bot hole:	-244
Bot solid:	-39	Bot perf:	Not Reported
Spec capac:	177		
Pump mgd:	.864		

Draft mgd:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Tmk:	(1) 1-6-027:077
Aqui code:	30103		
Latest hd:	Not Reported	Wcr:	01-JUL-77
Pir:	Not Reported	Surveyor:	Not Reported
T:	Not Reported	Site id:	HI8000000002537

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.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

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.

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 Services
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 Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, 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.

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

STREET AND ADDRESS INFORMATION

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Appendix D:

Neighborhood Board Meeting Minutes

KALIHI – PALAMA NEIGHBORHOOD BOARD NO. 15

c/o NEIGHBORHOOD COMMISSION • 530 SOUTH KING STREET ROOM 406 • HONOLULU, HAWAII, 96813
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DRAFT-REGULAR MEETING MINUTES
WEDNESDAY, SEPTEMBER 18, 2013
KALIHI UNION CHURCH

CALL TO ORDER: Chair Donald Guerrero called the meeting to order at 7:10 p.m. **Quorum was NOT established with five (5) members present.** Note: This 13-member Board requires seven (7) members to establish quorum and to take official Board action.

Members Present: Thomas Enos, Cardy Fang (Arrived at 7:16 p.m.), Leo Gozar (Departed at 8:15 p.m.), Donald Guerrero, Rodolfo Ibay (Departed at 8:15 p.m.), Fetu Taua Kolio (Arrived at 7:13 p.m.), Roland Louie (Arrived at 7:30 p.m./Departed at 9:05 p.m.), and Darryn Ng (Departed at 8:45 p.m.).

Members Absent: Cy Feng and Daniel Holt.

Vacancies: At-large three (3) seats.

Guests: Councilmember Joey Manahan and Dennis Arakaki (Councilmember Joey Manahan's Office staff); Nobu Nakamura (Kalihi Union Church); Sergeant Harry Burt (Honolulu Police Department, District 5-Kalihi); Lorrie Kanno (YMCA/Weed & Seed); Sergeant Bryan Oato and Corporal Jose Martinez (Honolulu Police Department Weed & Seed); Lieutenant Baron Lee and Sergeant Castro (Honolulu Police Department, District 1); Daniel D. Sanchez (UPRAH Newsletters); Firefighter Eric Le, Firefighter Adrian Aiu and Captain Raymond Egan (Honolulu Fire Department, Kalihi Kai); Perry Tsuruoka; Stephane Hall; Daven Astero and Kameron Noyam (UH School of Nursing); Justin Kessler (Board of Water Supply); Rose Manuel and Felma Valiente (Felix Ortho); Donn Sato and Emmanuel Kinto (Kalihi Palama Health Center); Ronald Higa; Pat Lee (Honolulu Rail Project); Natalie Iwasa (Cycle On Hawaii); Keith Yamamoto (Governor Neil Abercrombie's Representative); Patricia Dang (DOE, Kapalama Elementary School); Sheri Kajiwara (Mayor Kirk Caldwell's Representative); Steven Sung (Cascadia for AT&T); and Nola J. Frank (Neighborhood Commission Office staff).

FILLING OF THREE (3) VACANT AT-LARGE BOARD SEATS: There were no persons present interested in filling the vacancies.

PUBLIC SAFETY INPUT:

Honolulu Fire Department (HFD) – Firefighter Aiu of the Kalihi Kai Fire Station reported the following:

- August 2013 Fire Statistics – Included 9 structure fires, 1 wildland fire, 5 rubbish fires, and 2 vehicle fires; 117 medical responses, 5 search/rescues, and 18 miscellaneous calls for service.
- Fire Safety Tip – Candles may be pretty to look at, but they may cause home fires and deaths. A candle is an open flame, which means it can easily ignite anything that can burn. Extinguish candles before leaving a room or going to bed. Avoid using candles in the bedroom and areas where people fall asleep. Keep candles at least 12 inches away from items that can burn. Use candle holders that are sturdy and will not easily tip over. Extinguish a candle before it gets too close to the holder or container. Never use a candle if an oxygen tank is used in the home. Do not use candles during a power outage; use flashlights and battery-powered lights instead. Consider using flameless candles in the home, they look and smell like real candles. Never leave a child in a room alone with a burning candle. Place matches and lighters out of children's reach.

Honolulu Police Department (HPD) District 1 – Sergeant Castro reported the following:

- August 2013 Crime Statistics – Included 3 assaults, 1 burglary, 3 drug offenses, 11 motor vehicle collisions, 3 motor vehicle thefts, 2 property damages, 1 robbery, 5 unauthorized entries into motor vehicles (UEMV), and 27 miscellaneous calls for service.

- District 1 Going on Vacation Safety Tips:
  - Check all doors and windows to make sure they are securely locked.
  - If any locks need to be replaced or reinforced, make these improvements before the trip.
  - Use automatic timers on interior lights. A timer can also be used on a portable radio.
  - Use photo electric cells (screws into the light socket) on exterior lights. These devices will automatically turn lights on/off depending on the level of darkness.
  - If leaving for an extended period of time, arrange to have the lawn mowed and ask a neighbor to park a car in the driveway and use the garbage container.
  - Make sure that items such as children's toys, ladders, and lawn furniture, are put away.
  - A trusted neighbor should be informed of the vacation plans, when the dates and are and expected return date. Leave a key with a trusted friend or neighbor so that the position of curtains, blinds can be changed. If the newspapers and postal delivery are not canceled, ask the friend or neighbor to pick up and place in the house.
  - Inform trusted neighbors on all fours sides of departure and return date of the trip so that a complete look out is maintained. Be selective in announcing the plans to anyone else.
  - If there is an alarm system, make sure it's activated when departing. Leave the alarm key with a neighbor and show him/her how to turn the system on/off.
- Community Security Watches – To join or participate in a Neighborhood Security, Business Security Watch or Citizen Patrol Group, contact Sergeant Derek Valoroso at 529-3695 or at dvaloroso@honolulu.gov.

Board member Fetu Taua Kolio arrived at 7:13 p.m.; six (6) members present.

Honolulu Police Department (HPD) District 5 – Sergeant H. Burt reported the following:

- August 2013 Crime Statistics – Included 257 arguments, 27 assaults, 27 burglaries, 6 drugs/narcotics, 28 driving while under the influence (DUI), 8 family offenses, 10 graffiti, 12 motor vehicle thefts, 269 motor vehicle collisions (MVC), 23 property damages, 4 robberies, 82 thefts, 34 UEMV; totaling 787 calls for service.

Questions, comments and concerns: Motor Vehicle Collisions – Chair Guerrero asked and Burt replied that various types of collisions including in parking lots occur. Since part of the freeway is in the district those collisions are also included in the statistics.

Board member Cardy Fang arrived at 7:16 p.m.; Quorum was established with seven (7) members present.

Weed and Seed (W&S) – Sergeant Bryan Oato highlighted the following:

- Events Held – Include a small fair at Kalakaua Middle School; I Love Liliha (HPD keiki identification cards); Farrington High School Law and Justice Academy partnership; and youth mentoring.
- Community Traffic Awareness Partnership (CTAP) – CTAP events took place with Ma'ema'e and Fern Elementary Schools, and the Kamehameha Heights Neighborhood Security Watch (NSW).
- Upcoming Events – Include NWS Chief's review on Wednesday, September 25, 2013 at the Kalihi District Park; Palama clean-up in October 2013; Bishop Museum Kids Fest; and a Taste of Kalihi on Saturday, October 19, 2013.
- Information – Visit www.honolulu.pd.org for more information.

Questions, comments and concerns:

1. Street Fighting – Enos inquired if street fighting between area school kids is still happening. Oata noted that the biggest problem was with students from Dole and Kalakaua Middle Schools. No fights have recently been reported. Chair Guerrero commented that a video on you tube shows kids fighting while the crowd films the fight. Chair Guerrero asked if any bad injuries occur. Oata replied that some kids get knocked out, but the video is then shut-off. Kolio thanked HPD for in dealing with the Dole/Kalakaua Middle Schools incidents.
2. Video Titled "Nitty Gritty" – Kolio asked Oata if he had seen a video relating to a Samoan group. Oata has not view the video and had no comment. Kolio pointed out that the video has a lot of violence and bad influence. Oata noted he does not think that the filming was approved by Hawaii Public Housing Authority (HPHA).

Mayor Kirk Caldwell's Representative – Sheri Kajiwara reported the following:

- Road Repairs – 1) Rehabilitation of Streets Unit 75 (School/Kalihi Streets), ongoing design and construction. 2) Rehabilitation of Streets Unit 48 (N. King Street between Peterson Lane and Ola Lane, and Poepoe Place, between N. King Street and mauka end) ongoing planning and design.
- Sewers – 1) Hart Street Waste Water Pump Station (WWPS) old force main improvements Phase 1, ongoing construction. 2) Hart Street WWPS old force main improvements Phase 2, ongoing construction. 3) Iwilei/Kalihi Kai Sewer Rehabilitation/Reconstruction, ongoing planning and design. 4) Sewer I/I Relief and Rehabilitation Projects: Hart street tributary basin ongoing planning and design.
- Parks – 1) Kalihi Waena Neighborhood Park Play court Resurfacing ongoing planning and design. 2) Kamehameha Community Park field improvements ongoing planning and design.
- Business Parking Cars on Public Streets – HPD District 5 Corporal Fabian Mata attempted to call the Board member for clarification of the complaint, but was unsuccessful. On September 1, 2013, beat officers noted that none of the vehicles parked on Kalihi, Democrat and Homerule Streets had "For Sale" signs on them. Enos noted that he was contacted by Corporal Mata and that matters in the area have improved.
- Closure of the Kailua Satellite City Hall – Kajiwara reported that the Kailua Satellite City Hall would be closing and consolidated with the Windward Satellite City Hall. Study results show that this City Hall is the least utilized with approximately 16 people per hour. Pearl Ridge handles about 78 people per hour and Dillingham about 58. The Kailua Neighborhood Board is circulating a petition, which will be presented at the Council Budget Committee meeting next Wednesday, September 25, 2013. Written or oral testimony will be accepted.

Questions, comments and concerns:

1. Relocation of the Kailua Satellite City Hall – Ng asked how many miles is the Windward Satellite Hall from Kailua. Kajiwara replied approximately six (6) miles.
2. Business Parking Cars on Public Streets Follow Up – Enos thanked Kajiwara for following up on the parking problem. Enos reiterated that he was contacted by Officer Mata who will monitor the area.
3. Council Budget Committee Meeting – Kolio asked and Kajiwara reiterated that the meeting is scheduled for Wednesday, September 25, 2013 at 9:00 a.m. Kajiwara mentioned that she attended both the Kailua No. 31 and Waimanalo No. 32 Neighborhood Boards and reported the closure. However, it is an Administration decision.

Board of Water Supply (BWS) – Justin Kessler reported the following:

- August 2013 Water Main Breaks – One (1) water main break reported on August 24, 2013 at 237 Kalihi Street due to a broken 12-inch pipe.
- About the BWS – The BWS was established in 1929 as a semi-autonomous agency of the City and County of Honolulu. As a semi-autonomous agency, the BWS is governed by a seven (7) member Board of Directors that approves the Department's budget and water rates, and sets policy and overall direction of the BWS. The BWS Board consists of business and government professionals who ensure that the funds collected from the water customers will be solely used for the benefit of the water supply system. The BWS Board and semi-autonomous status also promotes greater efficiency in decision-making, encourages continuity of management, and fosters the establishment and monitoring of long range planning. The BWS manages Oahu's municipal water resources and distribution, which includes 2,100 miles of pipeline, 90 booster pump stations, 94 source stations, 172 reservoirs, and 166,000 customers. BWS operations and capital improvement program are funded by a combination of Operating Revenue (funds collected from rate payers), low-interest bonds, and State Revolving Funds loans; BWS does not receive any funds generated from City property taxes.

Questions, comments and concerns:

1. August 24, 2013 Water Main Break – Enos mentioned that the patchwork following repairs on the roadway was not done well. Kessler explained that BWS crews do temporary road/sidewalk repairs. After about two to three weeks after the repairs, a finishing contractor will go and do the final roadwork.
2. BWS Council Resolutions – Kessler noted that there are two (2) resolutions before the City Council: Resolution 13-177 would shift the power from the BWS Board of Directors to the City Council; and Resolution 13-201 requests a BWS audit.

3. Sand Island Park – Chair Guerrero asked and follow up will be done regarding how many gallons of water it takes to water this park. Kessler noted that the State receives a bill like all customers and no discount.

RESIDENTS' CONCERNS:

1. Letter from Constituent about Renewed Concern Over Home for Ex-Convicts on Gulick Avenue – Chair Guerrero read the letter from a concerned constituent.

2. Citizen Upset Over Honolulu Harbor Molasses Spill – Discussion with Councilmember Joey Manahan and Governor's Representative Keith Yamamoto:

   - City/State Knowledge About the Spill – Ng asked if the City or State knows anything about the spill. Manahan noted that he contacted the State for more information.
   - Available Funding – Yamamoto relayed that federal funding is available to assist with the clean-up.
   - Spillage – A resident asked and Yamamoto replied that 233,000 gallons of molasses was spilled into the Keehi Lagoon; 14,000-15,000 fish found dead.
   - Reefs – A resident note that some reports indicate that the spill may cause damage to the reefs. Manahan replayed that he would contact Matson and provide information as it is received.
   - Mokauea Island – Manahan spoke with residents of Mokauea Island who noted that the fish ponds received no damage. However, concerns may occur with their boats.
   - Gas Line – Louie mentioned that underground gas lines exist along Nimitz Highway and suggested that the lines be checked. Manahan noted that Matson leases the harbor and has taken responsibility.
   - Procedure – Chair Guerrero asked about the clean-up procedure.
   - Cause of Spill – Enos asked and Yamamoto noted that a pipe that was loading molasses onto a Matson ship leaked. The ship was loaded with 1,600 tons of molasses for shipping to the West Coast for processing. A dark discoloration of the water was reported as the ship left the harbor.
   - Frequently Asked Questions (FAQ)/Replies – A) Yamamoto reported that the public is advised to not consume any of the dead fish that may be from the Honolulu Harbor and Keehi Lagoon area. B) It is advised that the public stay out of the water at Keehi Lagoon, Honolulu Harbor, and any other place where warning signs have been posted. When the situation is safe, the Department of Health (DOH) will remove the warning signs. C) The DOH is the agency responding to the spill. The DOH, State, County, Federal partners, and Matson are all assisting and monitoring the situation D) The spill is flowing from Honolulu Harbor into Keehi Lagoon and dissipating into the ocean naturally with the tides and currents.
   - Other Shipping Companies – Chair Guerrero noted that Paisha does direct deliveries to the neighbor islands by passing Honolulu Harbor. Manahan noted that Paisha competes with Young Brothers. Manahan will follow up as to why direct shipping from the other islands is not done.
   - Apology – Ng said that Matson has apologized. However, Ng asked why the response time took so long, noting that the area is only about 75 feet deep. Yamamoto agreed that the DOH, DLNR, and DOT response could have been quicker. Discussions are taking place on ways to monitor and dissipate the molasses in the area. The DOH is monitoring, testing and responding to the disaster. Matson will reimburse agencies involved in the clean-up.
   - Removal of Molasses – Ng asked and Yamamoto noted that to-date none of the spilled molasses have been removed.
   - Board Meeting – Kolio asked if an engineer could attend a Board meeting to discuss the issue. Yamamoto will follow up.
   - Aging Infrastructure – Enos pointed out that the harbor is filled with pipes. Yamamoto noted that this incident has brought awareness to the aging facility.

UNFINISHED BUSINESS:

Farrington High School Report – Enos reported that a tour of the school is scheduled for Saturday, September 21, 2013 at 10:30 a.m. Persons joining the tour are asked to meet at the library and parking will be available on King Street.

BOARD BUSINESS/PRESENTATIONS:

Kalihi/Palama Health Clinic (KPHC) – Councilmember Manahan introduced Executive Director, Emmanuel Kintu who highlighted the following:

- KPHC – Is an independent, 501 (c) (3) non-profit, organization that plays a crucial role in the Kalihi-Palama community as a provider of health and social services to patients who face significant barriers when accessing health care.
- History – The center opened in 1975 to address community concerns regarding health and social needs of lower income Native Hawaiian, Asian, and Pacific Island immigrants' population.
- Plans – The KPHC is planning a $9 million expansion of the Honolulu facilities. The Phase 2 renovation and expansion will add about 30,000 square feet of space to better serve an increasing number of patients and add new services. The non-profit health provider currently spreads its services among three (3) locations. The goal of the expansion project is to consolidate the non-profit's services for greater efficiency and convenience of care. The Chinatown location will remain unchanged.
- Phase 1 – Phase 1 will consolidate Kalihi-Palama Health Center's services on 710 N. King Street, which is leased from landowner St. Elizabeth Episcopal Church. The building will be renovated and plans are to add a bigger second floor with an elevator, as well as an entrance parlor. The request for bids on the existing building will be out by October 7, 2013, with a projected completion date of May 2014. Once complete the building will consist of women, infants and children care, dental, and pharmacy services. A new building will be added on the parking lot at the corner of King Street and Pua Lane. This additional building will house comprehensive primary care services, as well as behavioral health, and optometry. Work will go out to bid at a later date and is projected to finish by January 2015.
- Funding – So far, $309 million has been raised, between state funding and the non-profit's own fundraising efforts.
- Phase 2 – This phase will not begin until 2017, but will add more space by consolidating and renovating the existing church community center. There is a joint development agreement with the church KPHC has up to four (4) years to take over the space. The lease also includes 45 parking spaces behind the church, which will be shared by both organizations.
- Source: http://www.bizjournals.com/pacific/news/2013/09/12/kalihi-palama-health-center-plans-9m.html.

Questions, comments and concerns:

1. Opening – Kolio asked and Kintu noted that opening day will take place in May 2014 when Phase 1 is completed.
2. Health Providers – Ibay asked what health services are provided. Kintu noted KPHC provides direct services to more patients than any other health center in Hawaii.
3. Obama Care – Chair Guerrero asked if Obama Care has influenced the services. Kintu replied yes, with the emphasis on quality and significant primary health care services.
4. Services – Ibay asked if the health center is available to anyone. Kintu noted yes that many of the patients are uninsured. However, residency, identification and proof of income are required. The center works closely with the DOH and other recent partnerships, such as the Lanakila Health Center.

8:15 p.m. Board members Ibay and Gozar departed the meeting; six (6) members present; quorum lost.

Cyclovia Presentation – Natalie Iwasa presented the following:

- "Hele on Kalihi" – "Hele on Kalihi" will take place on May 18 or 25, 2013 along King Street to Richard Lane (approximately 2 miles). The loop route includes Gulick Avenue down Kohou Street, up Kalani Street to McNeil Street, Mokauea Street and back to King Street.
- Set-UP – Parquets will be set-up to park the bicycles (takes up 2 parking stalls) along King and Kopke Streets; some with picnic tables. Charros will be placed on the roadway to notify the community that there are bicycles in the area.

Questions, comments and concerns:

1. Complete Streets Comment – Chair Guerrero noted that the complete street ideas are not good in all areas. Iwasa replied that complete streets are working with professional designers and submitted to the city for a five (5) month review in October 2013. Community presentations will continue and updated information incorporated into fliers.
2. Helmets – Iwasa emphasized the importance of using a helmet when bicycling.
3. Healthy Lifestyle – Cycovia promotes a healthy lifestyle; ideas are welcome.
4. Information – Visit info@cycleonhawaii.org or bikemon@cycleonhawaii.com.

AT&T Wireless Tower – Steven Sung representing AT&T reported the following:

- Stealth Antenna Pole – Kapalama Elementary School officials have agreed to allow AT&T Wireless to construct a 65-foot stealth pole antenna depicting a palm tree on the north/west corner of the school next to the custodian cottage.
- Ground Equipment – The equipment cabinets with generator will be 12 by 20 feet.
- Fees – Kapalama elementary School will receive monthly rent from AT&T.

Questions, comments and concerns:

1. Area Choice – Enos asked why the tower is being built in the Kalihi-Palama area. Sung replied that due to population growth, there is concern of the wireless transmission capacity running out. Output in this area is low and needs to be increased. All Federal Communication Commission (FCC) guidelines are followed.
2. Co-Locators – Chair Guerrero asked and Sung noted that there may other companies co-locating in the future.
3. Input – Ng asked if input from the students' parents were considered.
4. Kapalama Elementary School Principal – Principal Patricia Dang reported that a meeting was held with the Parent teachers Association (PTA), the School Community Council (SCC) and parents to discuss the matter. Parents are well aware of the tower. Student safety is the first priority.
5. Future Towers – Ng questioned if other towers would be built in the future
6. Fees – Enos asked if the rental fees would boost the school's budget. Dang replied the money would help with the band, after school programs, teachers pay, and supplies. School enrollment has decreased. The monthly fees are still being negotiated (approximately $1,400 monthly).

Fenix Orthopedic Gear – Felma Valiente reported that Fenix Orthopedic offers services to the community through the Medicare program for people 65 and older, and people with disabilities who are on Medicare. Free services and arthritic gear are provided. For more information call (808) 852-1080 or contact Chair Guerrero.

Board member Ng departed the meeting at 8:45 p.m.; five (5) members present.

Board Letter to the Department of land and Natural Resources (DLNR) **–** Enos provided Chair Guerrero and the neighborhood assistant with copies of the final letter to DLNR.

MONTHLY REPORTS:

Honolulu High Capacity Transit Corridor Project (HHCTC) – Pat Lee reported the following:

- Thank You – Thanks to the actions of the Honolulu City Council, rail construction resumed on Monday, September 16, 2013 following a 13 months delay. The Council held special committee meetings and passed two (2) resolutions at their
regular meeting, one for a Special Management Area (SMA) and Shoreline Setback Variance permit for the alignment, and the other for an inter-governmental agreement with the State DOT for the use of the highway right of ways to build the rail guideway from Kamehameha Highway to Ala Moana Center.
- Project Delay – The project had been delayed since the Hawaii State Supreme Court ruling of August 24, 2012 on the Archeological Inventory Survey (AIS). The delay has cost about $35 million, not including materials escalation costs (roughly $200,000 each day of delay). The AIS was accepted at the end of August. Honolulu Autority for Rapid Transportation (HART) still plans to finish construction and have the system operational by 2019.
- Construction – As construction resumes, HART also wants motorists to be aware that rail construction and design work will cause some traffic detours, lane closures and delays in various areas. Motorists are advised to use caution when entering a construction zone, observe posted signs for detours and construction activity and keep a safe distance from workers and equipment.

- Information – For more information, please visit the website www.honolulutransit.org, call the project hotline at 566-2299 or email a question at info@honolulutransit.org.

Questions, comments and concerns:

1. Position – Chair Guerrero asked and Lee replied that he is a sub-contractor to the rails general consultant. Daniel Grabauskas is the Executor Director (CEO) for HART.
2. Archaeological Sites – Chair Guerrero wanted to know why the archaeological sites were not considered earlier. Lee noted that decisions were made on past practices and segmented.

Approval of the August 21, 2013 Regular Meeting Minutes – Due to lack of a quorum, this item was deferred to the October 2013 meeting.

Treasurer's Report – Deferred until the next meeting.

ELECTED OFFICIALS:

Councilmember Joey Manahan – Council member Joey Manahan circulated his annual report and the City Council Calendar and highlighted:

- Cyclovia – Per a request from Councilmember Manahan, Natalie Iwasa was asked to attend tonight's meeting and demonstrate the "complete streets" improvements to Kalihi.
- Council Committee Meeting – BWS will be discussed in the committee meeting this week.

Questions, comments and concerns:

1. Molasses Spill Tour – Enos asked if Councilmember Manahan had toured the spill site. Manahan replied that the harbor is under state not city jurisdiction. It was noted that the spill is moving towards the east side of the harbor.
2. Comment – Enos relayed that the harbor is now contaminated with pipes running through the entire area. Enos pointed out that this is a wake up call.

Board member Louie departed the meeting at 9:05 p.m.; four (4) members present.

Governor Neil Abercrombie's Representative – Keith Yamamoto reported the following:

1. Molasses Spill – Yamamoto provided the neighborhood assistant with a FAQ sheet, which was discussed earlier in the meeting. Yamamoto noted that the DOH may be calling a special briefing to discuss the issue.
2. Special Session – Governor Abercrombie has called a special session set for October 28, 2013 to discuss the marriage equality bill.

Senators – Representatives were not present nor reports available for Senator Donna Mercado Kim and Senator Senator Glenn Wakai.

Senator Suzanne Chun Oakland – A representative was not present; a report was available.

Representative Karl Rhoads – Staff member Jessie Faige reported the following updates:

- Student concerns Regarding Farrington High School Building Conditions – Representative Rhoads received a list of student concerns regarding the conditions of the buildings.
- Kalihi Street Repaving Request Between King Street and Nimitz Highway – According to the City, this section of road is under the authority of the State Department of Transportation (DOT). The request was forwarded to DOT.
- Peter Buck Mini Park – The City was contacted regarding graffiti and damaged playground equipment. The City recently reported that the graffiti was removed to the extent possible, the flooring of the equipment has been cleaned, and the surrounding retaining wall repainted.
- Request for Left-turn Signal at Waiakamilo Road and Dillingham Boulevard – This was tentatively scheduled to start in November 2012. Since the left-turn signal has not been installed, Representative Rhoads has asked the City Department of Transportation Services (DTS) for a status report on the project.

- Kamehameha Homes – The Hawaii Public Housing Authority (HPHA) was contacted regarding falling plaster of the perimeter wall on the N. King Street side. The wall was repaired. An HPHA tenant contacted Representative Rhoads about needed necessary repairs to one (1) of the units. HPHA claims all repairs have been made.
- Kaahumanu Homes New Security Measures –HPHA reported that it several steps have been taken to ensure security, including fixing the property fencing, having security guards on patrol from 9:00 p.m. to 5:00 a.m., installing more lighting, and implementing a resident ID card. HPHA also reported that they would like to install security cameras and build a guard shack at the entrance.
- Use of Outside Water at Public Housing Complexes – HPHA was contacted and confirmed that it is restricting outdoor water use by tenants, as a means of cost savings and to curb excessive use of water. HPHA will explore options for the watering of tenants' gardens on the property.
- Status of Smoking Ban in Public Housing – HPHA has surveyed residents, met with The Resident Advisory Board, and drafted the rules. The next step is a public hearing on the proposed rules.
- Illegal Dumping at 1454 Kohou Street – Requested HPD to provide additional area patrols.
- Overgrown Grass along Roadway at 1454 Kohou Street – Reported to the City.
- Illegal Dumping of Tires – Reported at the corner of Halona and Kohou Streets.
- Speeding on School Street Between Houghtailing Street and Lanakila Avenue – Speeding reported during the afternoon rush hour. Request to HPD to provide extra enforcement at that location.
- Exposed Rebar – Reported in the sidewalk on Vineyard Boulevard fronting Palama Settlement near the bus stop; reported to the City.
- Uplift in Sidewalk – Located at 1300 Halona Street reported to the City.
- /Damaged Road/Potholes – Reported on Kaauwai Place reported to the City.
- Pothole – Reported near the gate to Bishop Gardens complex just Ewa of 1441 Kaumualii Street.
- Overgrown Grass and Plants – Reported on both sides of the sidewalk on Houghtailing Street across from Peter Buck Mini Park making it difficult for pedestrians to pass; reported to the City.

Representative Romy Cachola – A representative was not present; a report was provided.

Representative Takashi Ohno – A representative was not present; a report was provided.

ANNOUNCEMENTS:

- Next Meeting – The next regular meeting will be held on Wednesday, October 16, 2013, at 7:00 p.m. at the Kalihi Union Church (2214 North King Street).

ADJOURNMENT – The meeting adjourned at 9:30 p.m.

Submitted by: Nola J. Frank, Neighborhood Assistant
Reviewed by: Kazuaki McArthur, Neighborhood Commission Office staff
Reviewed and Finalized by: Chair Donald Guerrero

Appendix E:

Enviroquest Inspection Report

EnviroQuest

INSPECTION REPORT FOR ASBESTOS, LEAD-BASED PAINT, ARSENIC, PCBS, PESTICIDES AND LEAD IN SOIL

710 North King Street
Future Site of Kalihi Palama Health Center

Prepared for:

Kalihi-Palama Health Care Center
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Honolulu, Hawaii 96817

Prepared by:

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June 2013

ENVIROQUEST Project 7095

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EXECUTIVE SUMMARY

ENVIROQUEST, INC. (EQI) was retained by the Kalihi-Palama Health Care Center. to conduct a hazardous material inspection of 710 North King Street located in Honolulu, Hawaii. The inspection was conducted on May 14, 15, and 29, 2013.

The objective of the inspection was to determine the presence of asbestos-containing materials (ACMs), lead-based paints (LBPs), arsenic-containing materials (AsCMs), fluorescent light ballasts containing polychlorinated biphenyls (PCB), pesticide and lead contaminated soil and other hazardous materials which may be impacted by the demolition of 710 North King Street.

Asbestos Containing Material

The listed materials were identified as asbestos-containing materials.

Material	Location	Condition
Black sink mastic	Former King's Market 1st floor	Good
Black sealant*	Former King's Market 2nd floor, windows, between glass pane and seam.	Good
White sealant*	Former Salon and Former Storage windows, between frame and glass. Church Space 2nd floor, windows between window frame and wall.	Good
Black mastic and backing	Former Storage restroom and wood toilet platform, under linoleum	Good
Black tar sealant	Two story building roof, vent pipe penetrations	Good
White caulking	Two story building roof , parapet flashing	Good
White coating	Two story building roof, parapet wall	Good

**Materials containing trace amount of asbestos.*

Due to their disturbance during the demolition, the materials must be removed prior to the demolition activity. All removal must be completed by a certified asbestos abatement contractor under controlled conditions in accordance with Environmental Protection Agency (EPA) and Hawaii Department of Health (HDOH) regulations. Work should also be monitored by an independent industrial hygiene professional.

Lead-Based Paint

The listed building component was painted or coated with LBP or lead coatings.

Color	Location	Condition
Green	Former King's Market, wood ceiling and eaves	Intact

Although the EPA/HDOH does not require that lead paint be removed prior to any renovation or demolition activity, Occupational Safety and Health Administration (OSHA) and Hawaii Division of Occupational Safety and Health (HIOSH) requirements would still apply in regards to worker exposure. The contractor's employees removing or disturbing the painted material must be informed that it contains lead and must have received training under OSHA 29 CFR 1926.62 *Lead* and HIOSH 12-148.1 *Lead*.

Toxic Characteristic Leaching Procedure

The composite sample of the expected building waste generated from the painted concrete/CMU component, plaster and wooden components was also collected for *Toxicity Characteristic Leaching Procedure* (TCLP) analysis to determine the waste disposal characterization. The TCLP lead sample concentration did not exceed the HDOH *Maximum Concentration of Contaminants for the Toxicity Characteristic* (11-261) of 5.0 mg/L. Based on this result, the materials may be disposed of as construction debris. Note that painted metal components are exempt from TCLP testing and hazardous waste disposal if recycled. However, lead-based painted concrete materials cannot be recycled.

Arsenic Containing Material

The listed material was identified as an arsenic containing material.

Material	Location	Condition
Canec ceiling	Church Space, 2nd floor main area	Good

The contractor's employees removing or disturbing the arsenic containing canec board must be informed it contains arsenic and must also ensure that workers are not exposed to levels of arsenic exceeding the permissible exposure limit as listed in HIOSH 12-202-31 *Inorganic Arsenic.*

Arsenic containing canec building materials are exempt from HDOH laws requiring a hazardous waste determination to be made prior to disposal. The exemption applies whenever canec building materials are segregated from other building materials and disposed of separately. When canec is mixed with other building demolition waste, the combined waste could be subject to hazardous waste characterization before disposal.

Poly-Chlorinated Biphenyls (PCB)/Mercury Lamps

Light ballasts containing PCB were not identified in this inspection. All fluorescent light tubes are known to contain measurable amounts of mercury and should be collected and recycled.

Per HECO the pole mounted transformer observed at the site does not contain PCBs.

Pesticide and Lead in Soil

Chlordane and heptachlor were detected above the HDOH environmental action levels (EAL). Lead and other constituents of organochlorine pesticide were also detected but below the EALs. Although chlordane and heptachlor exceeded the EAL, the soil can be managed in place. However, any unused soil from future excavation activities must be tested to determine disposal requirements. In addition, prior to any work, the Contractor disturbing the soil must notify his employees and subcontractors of the presence of pesticide and lead and must also ensure that all work is conducted in accordance with OSHA and HIOSH requirements.

1.0 INTRODUCTION

This report presents the results of the hazardous material inspection of 710 North King Street located in Honolulu, Hawaii. The inspection was conducted on May 14, 15, and 29, 2013.

The objective of the inspection was to determine the presence of asbestos-containing materials (ACMs), lead-based paints (LBPs), arsenic-containing materials (AsCMs), fluorescent light ballasts containing polychlorinated biphenyl (PCB), pesticide and lead contaminated soil and other hazardous materials which may be impacted by the demolition of 710 North King Street.

2.0 ASBESTOS

One hundred fifty-six samples were collected from suspect asbestos-containing materials.

2.1 Methodology

Prior to sampling, EQI visually surveyed 710 North King Street for suspect asbestos-containing materials and homogeneous areas (areas that have uniform color, texture, and appearance.) Suspect materials were divided into friable and non-friable materials and placed in one of the following EPA categories:

- Surfacing Materials (sprayed or troweled-on materials)
- Thermal Systems Insulations (materials generally applied to various mechanical systems)
- Miscellaneous Materials (any materials which do not fit in the above categories)

Sampling methodology followed the general guidelines for bulk asbestos sampling as presented in Section 40, Part 763 (AHERA) of the Code of Federal Regulations (CFR) and Hawaii Administrative Rules (HAR) 11-501 and 11-502.

2.2 Results

Samples were submitted to Forensic Analytical in Rancho Dominguez, California. The samples were analyzed by polarized-light microscopy (PLM), using EPA Method 600/R-93-116, Visual Area Estimation.

Forensic Analytical is accredited for bulk asbestos analysis through successful participation in the US Department of Commerce, National Institute of Standards and Technologies (NIST), National Voluntary Laboratory Accreditation Program (NVLAP). The laboratory is currently registered to provide asbestos laboratory services in the State of Hawaii under Title 11 of the HAR, Chapter 504.

Based on the laboratory analytical report, nine of 156 samples were identified as ACM. The National Emission Standard for Hazardous Air Pollutants (NESHAP), 40 CFR 61 Part M, defines asbestos containing materials as those which contain greater than 1% asbestos. NESHAP also categorizes ACM as either being a friable material, a Category I non-friable material or a Category II non-friable material. Friable materials are defined as those that can be reduced to powder by hand pressure. Category I non-friable materials are the asphalt roofing materials, resilient floor covering, excluding linoleum, packings, and gaskets. Category II non-friable materials are the cementitious materials such as stucco and asbestos cement board. In accordance with NESHAP requirements, samples consisting of distinct layers of materials were analyzed and reported separately by the laboratory. NESHAP also states that if asbestos is identified in amounts less than 10%, the owner or operator of the building must elect to assume the amount to be greater than 1% and treat the material as asbestos-containing material or request verification of the amount by point counting. No samples were point counted for this report.

A summary of the homogeneous materials is presented in Table 1. The laboratory analytical report, chain of custody form, and sample location diagrams are included in Appendix 1.

TABLE 1
Homogeneous Material Summary
710 North King Street

Homogeneous Material	ACM[1] (Y/N)	Location	Sample ID	Friable (Y/N)	Est Qty (ACM) (ft^2)	Condition[2]	Photo No.
Former Mr. Mandoo							
5"x5" red quarry tile, grout, and mortar	N	Front area, back area, and restroom	7095-01A 7095-02A 7095-03A	N	-	G	4
Exterior gray concrete brick wall grout	N	Exterior wall	7095-04A 7095-05A 7095-06A	N	-	G	5
White drywall and joint compound wall	N	Front area, back area, and restroom	7095-07A 7095-08A 7095-09A	N	-	G	6
White drywall and joint compound ceiling	N	Front area, back area, and restroom	7095-10A 7095-11A 7095-12A	N	-	D	7
Gray window caulking	N	Windows, between frame and wall	7095-13A 7095-14A 7095-15A	N	-	G	5
White door caulking	N	Doors, between frame and wall	7095-16A 7095-17A 7095-18A	N	-	G	8
Former King's Market, 1st floor							
Brown covebase and white adhesive	N	Market area	7095-19A 7095-20A 7095-21A	N	-	G	10
White drywall and joint compound wall and ceiling	N	Market area and toilet	7095-22A 7095-23A 7095-24A	N	-	D	11
Black sink mastic	Y	Sink	7095-154A 7095-155A 7095-156A	N	-	G	12

1. ACM=>1% asbestos content
2. Good (G); Damaged (D) <10% distributed or 25% localized; Significant Damage (SD), >10% distributed or 25% localized

TABLE 1 (continued)
Homogeneous Material Summary
710 North King Street

Homogeneous Material	ACM[1] (Y/N)	Location	Sample ID	Friable (Y/N)	Est Qty (ACM) (ft^2)	Condition[2]	Photo No.
Former King's Market, 2nd floor							
Black sealant	Y*	Windows, between glass pane and seam	7095-25A 7095-26A 7095-27A	N	-	G	14
White drywall and joint compound wall and ceiling	N	Bedroom	7095-28A 7095-29A 7095-30A	N	-	G	15
Tan covebase and white adhesive	N	Bedroom	7095-31A 7095-32A 7095-33A	N	-	G	16
Former Pawn Shop and Former Office							
12"x12" beige floor tile with black and tan mastic	N	Front area	7095-34A 7095-35A 7095-36A	N	-	G	19
12"x12" beige floor tile with brown streaks and black mastic	N	Behind counter and restroom	7095-37A 7095-38A 7095-39A	N	-	G	20
Brown covebase and tan adhesive	N	Front, behind counter, back area, and restroom	7095-40A 7095-41A 7095-42A	N	-	G	20
White drywall and joint compound	N	Storage, counter, front area, back area, and restroom	7095-43A 7095-44A 7095-45A	N	-	D	21
Plaster lath ceiling	N	Front area, storage, and behind counter	7095-46A 7095-47A 7095-48A	Y	-	D	22
Plaster ceiling	N	Back area and restroom	7095-49A 7095-50A 7095-51A	Y	-	G	23

1. ACM=>1% asbestos content
2. Good (G); Damaged (D) <10% distributed or 25% localized; Significant Damage (SD), >10% distributed or 25% localized
**Materials containing trace amount of asbestos*

TABLE 1 (continued)
Homogeneous Material Summary
710 North King Street

Homogeneous Material	ACM[1] (Y/N)	Location	Sample ID	Friable (Y/N)	Est Qty (ACM) (ft^2)	Condition[2]	Photo No.
Former Salon							
12"x12" yellow floor tile over yellow floor tile	N	Floor	7095-52A 7095-53A 7095-54A	N	-	G	25
12"x12" pink floor tile over yellow floor tile	N	Floor	7095-55A 7095-56A 7095-57A	N	-	G	25
12"x12" gray floor tile over yellow floor tile	N	Floor	7095-58A 7095-59A 7095-60A	N	-	G	25
White covebase and beige adhesive	N	Baseboard	7095-61A 7095-62A 7095-63A	N	-	G	26
Gray sealant	N	Windows, between pane and wall	7095-64A 7095-65A 7095-66A	N	-	G	27
White sealant	Y*	Windows, between frame and glass	7095-67A 7095-68A 7095-69A	N	-	G	28
Drywall and joint compound	N	Walls	7095-70A 7095-71A 7095-72A	N	-	G	29
Textured gypsumboard ceiling	N	Ceiling	7095-73A 7095-74A 7095-75A	N	-	G	30

1. ACM=>1% asbestos content
2. Good (G); Damaged (D) <10% distributed or 25% localized; Significant Damage (SD), >10% distributed or 25% localized
**Materials containing trace amount of asbestos.*

TABLE 1 (continued)
Homogeneous Material Summary
710 North King Street

Homogeneous Material	ACM[1] (Y/N)	Location	Sample ID	Friable (Y/N)	Est Qty (ACM) (ft^2)	Condition[2]	Photo No.
Former Storage							
Blue covebase and white adhesive	N	Main area and restroom	7095-76A 7095-77A 7095-78A	N	-	G	32
White sealant	Y*	Windows, between pane and glass	7095-79A 7095-80A 7095-81A	N	-	G	33
12"x12" white square patterned vinyl flooring	N	Main area, restroom, and wood toilet platform	7095-82A 7095-83A 7095-84A	N	-	G	31
White drywall and joint compound wall and ceiling	N	Main area and restroom	7095-85A 7095-86A 7095-87A	N	-	G	34
Yellow floor tile, black mastic and backing	Y	Wood toilet platform, under 12"x12" white square patterned vinyl flooring	7095-88A 7095-89A 7095-90A	N	25	G	35
Black mastic and backing	Y	Restroom, under 12"x12" white square patterned vinyl flooring	7095-91A 7095-92A 7095-93A	N	20	G	36
Church space, 2nd floor							
12"x12" beige ceramic floor tile with mortar and grout	N	Restrooms 1, 2, and 3	7095-130A 7095-131A 7095-132A	N	-	G	38
Brown carpet mastic over brown floor tile and black mastic	Y	Main Area and Room 1	7095-133A 7095-134A 7095-135A	N	1150	G	39
Cement topping under carpet	N	Room 2	7095-136A 7095-137A 7095-138A	N	-	G	40

1. ACM=>1% asbestos content
2. Good (G); Damaged (D) <10% distributed or 25% localized; Significant Damage (SD), >10% distributed or 25% localized
**Materials containing trace amount of asbestos*

TABLE 1 (continued)
Homogeneous Material Summary
710 North King Street

Homogeneous Material	ACM[1] (Y/N)	Location	Sample ID	Friable (Y/N)	Est Qty (ACM) (ft^2)	Condition[2]	Photo No.
Church Space, 2nd floor continued							
Brown covebase with tan and brown adhesive	N	Main Area, Room 1 and Room 2	7095-139A 7095-140A 7095-141A	N	-	G	40
White drywall and joint compound	N	Main Area and Room 2	7095-142A 7095-143A 7095-144A	N	-	G	41
Plaster wall	N	Room 1, Restroom 1 and 2	7095-145A 7095-146A 7095-147A	Y	-	D	-
Canec ceiling	N	Main Area	7095-148A 7095-149A 7095-150A	Y	-	G	42
White sealant	Y*	Windows, between wall and frame	7095-151A 7095-152A 7095-153A	N	-	G	43
Two story building roof							
Black felt roof	N	West half of roof	7095-94A 7095-95A 7095-96A	N	-	G	45
Fibrous roof over black felt	N	East half of roof	7095-97A 7095-98A 7095-99A	N	-	G	46
Black tar sealant	Y	Vent pipe penetration	7095-100A 7095-101A 7095-102A	N	3	G	47
Skylight sealant	N	Skylights	7095-103A 7095-104A 7095-105A	N	-	G	48

1. ACM=>1% asbestos content
2. Good (G); Damaged (D) <10% distributed or 25% localized; Significant Damage (SD), >10% distributed or 25% localized
**Materials containing trace amount of asbestos*

TABLE 1 (continued)
Homogeneous Material Summary
710 North King Street

Homogeneous Material	ACM[1] (Y/N)	Location	Sample ID	Friable (Y/N)	Est Qty (ACM) (ft^2)	Condition[2]	Photo No.
2 story building roof, continued							
White caulking	Y	Parapet flashing	7095-106A 7095-107A 7095-108A	N	250 lf	G	49
Black sealant	N	AC conduit	7095-109A 7095-110A 7095-111A	N	-	G	50
White coating	Y	Parapet wall	7095-112A 7095-113A 7095-114A	N	1000 sf	G	49
Former Mr. Mandoo roof							
Black roof shingles	N	Roof	7095-115A 7095-116A 7095-117A	N	-	G	51
Black felt	N	Parapet wall	7095-118A 7095-119A 7095-120A	N	-	G	52
Black tar sealant	N	Electrical conduit, A/C pipe, and cone head	7095-121A 7095-122A 7095-123A	N	-	G	53
White coating and black sealant	N	Roof and church wall seams	7095-124A 7095-125A 7095-126A	N	-	G	54
Side canopy roof							
Green roofing felt	N	Roof, Market	7095-127A 7095-128A 7095-129A	N	-	G	55

1. ACM=>1% asbestos content
2. Good (G); Damaged (D) <10% distributed or 25% localized; Significant Damage (SD), >10% distributed or 25% localized

3.0 LEAD

3.1 Paint Bulk Samples

Forty paint chip samples were collected from painted or coated materials that may be disturbed by the demolition work.

3.1.1 Methodology

Prior to sampling, EQI visually surveyed 710 North King Street for painted building components. Our sampling methodology generally followed the "Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing" published by the Department of Housing and Urban Development (HUD) in 1995.

Sample analysis was conducted by Hygeia Laboratories, Inc. in Sierra Madre, California in accordance with EPA Method 7420, Atomic Absorption Spectroscopy. Hygeia is accredited for lead analysis through successful participation in the American Industrial Hygiene Association's (AIHA) Environmental Lead Laboratory Accreditation Program (ELLAP).

3.1.2 Results

One lead in paint measurements exceeded EPA guidelines for lead in paint. EPA defines lead-based paint as paint or other coatings containing lead in equal to, or in excess of, 0.5% lead by weight. A homogeneous paint summary is presented in Table 2. The laboratory analytical report, chain of custody forms and sample location diagram are included in Appendix 2.

3.2 TCLP Sample

A single composite representative sample of the painted waste stream of Mr. Mandoo was collected for TCLP Lead analysis to determine the waste disposal requirements.

3.2.1 Methodology

Volume proportions were determined for each material. This was accomplished by estimating the volume of each painted building component scheduled for demolition. The proportion of each painted component type e.g., wooden components and CMU/concrete components were calculated as a percent of the total volume of the waste. Calculated volume proportions were used to collect the appropriate amount of material from each painted building component. For example, if the calculated volume proportion of the painted wood is 10%, the sample will consist of 10% wood by volume from the painted wood component.

Sample analysis was conducted by Hygeia Laboratories, Inc. in Sierra Madre, California in accordance with EPA Method 7420, Atomic Absorption Spectroscopy. Hygeia is accredited for lead analysis through successful participation in the American Industrial Hygiene Association's (AIHA) Environmental Lead Laboratory Accreditation Program (ELLAP).

3.2.2 Results

The TCLP lead concentration did not exceed the HDOH *Maximum Concentration of Contaminants for the Toxicity Characteristic* (11-261) of 5.0 mg/L. Based on this result, the materials may be disposed of as construction debris.

The TCLP sample summary is presented in Table 3. The laboratory analytical report and chain of custody forms are included in Appendix 2.

TABLE 2
Homogeneous Paint Summary
710 North King Street

Paint Color	Int/Ext	LBP_1 (Y/N)	LCP_2 (Y/N)	Paint Location	Sample ID	$Condition_{3,4}$	Photo No.
Former Mr. Mandoo							
Blue	Int	N	N	CMU walls	7095-01L	Intact	56
White	Int	N	N	CMU walls	7095-02L	Intact	57
Tan	Int	N	N	Drywall ceiling	7095-03L	Intact	58
Brown	Ext	N	N	Wood doors and doorframes	7095-04L	Intact	59
Beige	Ext	N	N	Wood eaves and fascia	7095-05L	Intact	60
Blue	Ext	N	N	Plastic shingles	7095-13L	Intact	60
Former King's Market, 1st floor							
Off-white	Int	N	N	Wood post, drywall wall	7095-06L 7095-07L	Intact	61
White	Int	N	N	CMU walls	7095-08L	Intact	62
Red	Int	N	N	CMU striping on walls	7095-09L	Intact	63
Green	Int	N	N	CMU striping on walls	7095-10L	Intact	63
Orange	Int	N	N	CMU striping on walls	7095-11L	Intact	63
Brown	Int	N	Y	Wood door and doorframe	7095-12L	Intact	62
Light gray over green	Ext	N	Y	CMU wall	7095-16L	Fair	64
Yellow	Ext	N	N	Concrete curb	7095-17L	Intact	65
Former King's Market, 2nd floor							
Green	Int	Y	N	Wood ceiling and beams	7095-14L	Intact	66
Gray	Ext	N	N	Metal shingles	7095-15L	Intact	64
Light gray	Ext	N	N	Wood eaves	7095-18L	Intact	64
Former Pawn Shop and Former Office							
White	Int	N	N	CMU and drywall walls, plaster ceiling	7095-19L 7095-21L	Intact	67
Gray	Int	N	N	Gray wood doorframes	7095-20L	Intact	68
Brown	Int	N	Y	Storage doorframe	7095-22L	Intact	69
Pink	Int	N	N	Restroom walls and ceiling	7095-23L	Intact	70
White	Ext	N	N	Wood fascia	7095-24L	Intact	64
Light gray over green	Ext	N	Y	CMU column	7095-25L	Poor	71

1. LBP = >0.5% lead by weight
2. LCP = >laboratory detection limit but <0.5%
3. Exterior: Intact – Entire surface is intact; Fair - ≤ 10ft^2; Poor - >10 ft^2
4. Interior: Intact – Entire surface is intact; Fair - ≤ 2ft^2 or ≤ 10%; Poor - >2 ft^2 or >10%

TABLE 2 (continued)
Homogeneous Paint Summary
710 North King Street

Paint Color	Int/Ext	LBP[1] (Y/N)	LCP[2] (Y/N)	Paint Location	Sample ID	Condition[3,4]	Photo No.
Former Salon							
Gray	Ext	N	Y	Metal downspout	7095-26L	Fair	71
Light gray	Ext	N	Y	Metal electrical panel	7095-27L	Fair	71
Red	Ext	N	Y	Metal window frame	7095-28L	Intact	72
White	Ext	N	Y	Metal window grate	7095-29L	Intact	72
White	Int	N	N	CMU and drywall walls	7095-30L	Intact	73
Former Storage							
White	Int	N	N	CMU wall and drywall walls	7095-31L 7095-32L	Intact	74
Blue	Int	N	N	Wood door and doorframe	7095-33L	Intact	-
Beige	Int	N	Y	Metal window system	7095-34L	Intact	74
Light gray over green	Ext	N	Y	CMU walls	7095-35L	Poor	75
Church Space, 2nd floor							
White	Int	N	N	Drywall walls Plaster walls	7095-36L 7095-37L	Intact	76
White over green	Int	N	N	CMU walls	7095-38L	Intact	77
White	Int	N	Y	Wood doors and doorframes Metal ducts	7095-39L 7095-40L	Intact	78

1. LBP = >0.5% lead by weight
2. LCP = >laboratory detection limit but <0.5%
3. Exterior: Intact – Entire surface is intact; Fair - ≤ 10ft^2; Poor - >10 ft^2
4. Interior: Intact – Entire surface is intact; Fair - ≤ 2ft^2 or ≤ 10%; Poor - >2 ft^2 or >10%

TABLE 3
TCLP-Lead Summary
710 North King Street

Sample No.	Sample Description	Results (mg/L)
7095-01T	Composite representative sample of the painted waste stream of Mr. Mandoo (including painted concrete/CMU walls, painted drywall and, painted wood components)	<0.4

4.0 ARSENIC

A sample from a suspect arsenic-containing material was collected.

4.1 Methodology

Prior to sampling, EQI visually surveyed 710 North King Street for suspect arsenic-containing materials. EQI collected the sample from the following material:

- Canec ceiling

4.2 Results

The sample was submitted to Forensic Analytical, in Hayward, California for analysis using *Atomic Absorption Spectroscopy, Flame* in accordance with EPA Method ICP, 3050B/6010B.

Based on the laboratory analytical laboratory report, the canec ceiling was identified as arsenic containing materials. The laboratory analytical report and chain of custody forms are included in Appendix 3.

TABLE 4
Arsenic Summary
710 North King Street

Sample ID	Sample Description	Results (mg/kg)	Arsenic (Y/N)	Photo No.
7095-01AS	2nd floor church space, main area canec ceiling	95	Y	42

5.0 POLYCHLORINATED BIPHENYLS

5.1 Methodology

EQI visually surveyed 710 North King Street for fluorescent light fixtures. The light fixtures were dismantled to expose the ballasts for inspection. If the ballast was marked with a manufacturer's label of "NO PCBs", the ballast was presumed to be PCB free. Ballasts without the label were presumed to contain PCBs.

EQI also observed a pole mounted transformer at the site. EQI requested information about this transformer from HECO. The information is provided in Appendix 4.

5.2 Results

A total of 63 light fixtures were observed. Twelve fixtures were selected as randomly as feasible to be a representative cross section of the building. Observed ballasts in the twelve of the fixtures contained a "no PCB" label.

Per HECO letter dated May 16, 2013 the pole mounted transformer observed at the site did not contain PCBs.

6.0 PESTICIDES AND LEAD IN SOIL

6.1 Methodology

A multi-increment soil sampling strategy was utilized to determine the average lead and organochlorine pesticides concentrations in the soil at the parking lot and the existing building concrete foundation

One multi-increment sample, consisting of ten increments, was collected from the first decision unit. The decision unit was identified as:

Decision Unit 1: The parking lot 0 – 6 inches below ground surface (bgs) under the asphalt.

Another multi-increment sample, consisting of thirty increments, was collected from the another decision unit. The decision unit was identified as:

Decision Unit: 2 The perimeter area within 0-1 feet from the building foundation of the two story building and from 0 - 6 inches bgs.

The incremental soil samples collected from each decision unit were combined as one multi-increment sample. The incremental sampling points were selected by collecting an equal volume of soil evenly distributed across each decision unit.

Each incremental sample was collected using a stainless steel hand trowel and placed in a large sealable bag. Once all the samples were collected, the soil was homogenized and placed in a four-ounce sample jar. The jar was then placed in a cooler for transport to the laboratory.

The samples were logged and recorded following standard chain-of-custody procedures and submitted to Advanced Analytical in Honolulu, Hawaii for analysis.

6.2 Results

The soil sample were analyzed for lead and organochlorine pesticide using EPA Methods 6020A/3050B and 8081B/3555C, respectively. The results of the detected constituents are summarized in Table 5. Chlordane and heptaclor were detected at a concentration above the HDOH Environmental Action Level (EAL) in Decision Unit 2. Also, Aldrin, Dieldrin, Endrin 4,4'-DDE, 4,4'-DDT and, Endrin aldehyde , constituents of organochlorine pesticide, were detected at a concentration below their respective HDOH EALs. The sample results are summarized in Table 5. The laboratory analytical report and chain of custody forms are included in Appendix 5.

TABLE 5
Pesticides and Lead in Soil Summary
710 North King Street

Constituent	Reporting Limit (mg/kg)	HDOH EAL (mg/kg)	7095-01S Decision Unit #1 (mg/kg)	7095-02S Decision Unit #2 (mg/kg)
Lead	1.0	200	9.6	27
Heptachlor	0.001	0.11	None detected	0.16
Aldrin	0.001	0.92	None detected	0.13
Heptachlor epoxide	0.001	0.053	None detected	None detected
Dieldrin	0.001	1.5	None detected	1.5
Endrin	0.001	3.7	None detected	0.070
4,4'-DDE	0.001	1.4	None detected	0.097
4,4'-DDD	0.001	2.0	None detected	None detected
4,4'-DDT	0.002	1.7	None detected	0.034
Endrin aldehyde	0.004	None Available	None detected	0.023
Technical chlordane	0.1	16.0	None detected	17

7.0 SUMMARY

7.1 Asbestos

Based on the laboratory analytical results from this inspection, the listed materials were identified as asbestos-containing materials.

Material	Location	Condition
Black sink mastic	Former King's Market 1st floor	Good
Black sealant*	Former King's Market 2nd floor, windows, between glass pane and seam	Good
White sealant*	Former Salon and Former Storage windows, between frame and glass Church Space 2nd floor, windows between window frame and wall	Good
Black mastic and backing	Former Storage restroom and wood toilet platform, under linoleum	Good
Black tar sealant	Two story building roof, vent pipe penetrations	Good
White caulking	Parapet flashing	Good
White coating	Parapet wall	Good

**Materials containing trace amount of asbestos*

7.2 Lead

Based on the laboratory analytical results from this inspection, the listed material was identified as lead-based paint.

Color	Location	Condition
Green	Former King's Market, wood ceiling and beams	Intact

7.3 Arsenic Containing Material

Based on the laboratory analytical results from this inspection, the listed materials were identified as arsenic containing materials.

Material	Location	Condition
Canec ceiling	Church Space, 2nd floor main area	Good

7.4 Polychlorinated Biphenyls/Mercury Lamps

Light ballasts containing PCBs were not identified in this inspection. Per HECO the pole mounted transformer observed at the site did not contain PCBs.

7.5 Pesticide and Lead in Soil

Chlordane and Heptachlor were detected above their HDOH EAL. Lead and other constituents of organochlorine pesticide were also detected, but below the EALs.

8.0 LIMITATIONS

The information set forth is based solely on the agreed upon scope of services, on personal observation, laboratory data, and information provided by the Kalihi-Palama Health Care Center.

Although this inspection provides information on the relative presence or absence of hazardous materials, it should not be construed as a final statement that all hazardous materials have been identified.

Given the often obscure and elusive nature of hazardous materials, it is never possible to absolutely dismiss the possibility of additional hazardous materials. EnviroQuest, Inc. expressly disclaims any and all liability, representations, expressed or implied, contained in, or for omission from this report, or any other written or oral communication which might be interpreted as establishing the total extent of all liability present at the subject property.

Our services have been performed with usual thoroughness and competence of the consulting profession, in accordance with the standard of professional services at this time. No other warranty or representation, either expressed or implied is included or intended.

Any question regarding our work and this report, the presentation of the information, and the interpretation of the data are welcome and should be referred to the undersigned. EQI greatly appreciates this opportunity to assist you with your industrial hygiene needs. We look forward to working with you again in the future.

Jason Turban
Industrial Hygienist/
HDOH Asbestos Building Inspector
HIASB3421

Appendix 1

Asbestos
Laboratory Analytical Reports
Drawings

Forensic Analytical Laboratories

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

EnviroQuest, Inc.
Steve Tanaka
98-029 Hekaha Street
Suite 21
Aiea, HI 96701

Client ID: 7104
Report Number: B177375
Date Received: 05/16/13
Date Analyzed: 05/20/13
Date Printed: 05/21/13
First Reported: 05/21/13

Job ID/Site: 7095; 710 King Street

FALI Job ID: 7104

Date(s) Collected: 05/14/2013

Total Samples Submitted: 93
Total Samples Analyzed: 89

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-01A	50801953						
Layer: Brown Ceramic Tile			**ND**				
Layer: Brown Grout			**ND**				
Layer: Light Grey Mortar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-02A	50801954						
Layer: Brown Ceramic Tile			**ND**				
Layer: Brown Grout			**ND**				
Layer: Light Grey Mortar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-03A	50801955						
Layer: Brown Ceramic Tile			**ND**				
Layer: Brown Grout			**ND**				
Layer: Light Grey Mortar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-04A	50801956						
Layer: Beige Cementitious Material			**ND**				
Layer: Light Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-05A	50801957						
Layer: Beige Cementitious Material			**ND**				
Layer: Off-White Cementitious Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-06A	50801958						
Layer: Beige Cementitious Material			**ND**				
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Client Name: EnviroQuest, Inc.

Report Number: B177375
Date Printed: 05/21/13

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-07A	50801959						
Layer: White Drywall			**ND**				
Layer: Off-White Skimcoat/Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-08A	50801960						
Layer: White Drywall			**ND**				
Layer: Off-White Skimcoat/Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-09A	50801961						
Layer: White Drywall			**ND**				
Layer: Off-White Skimcoat/Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-10A	50801962						
Layer: White Drywall			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-11A	50801963						
Layer: White Drywall			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-12A	50801964						
Layer: White Drywall			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-13A	50801965						
Layer: Dark Grey Non-Fibrous Material			**ND**				
Layer: Tan Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (5 %)		**Asbestos (ND)**					
7095-14A	50801966						
Layer: Dark Grey Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Client Name: EnviroQuest, Inc.

Report Number: B177375
Date Printed: 05/21/13

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-15A	50801967						
Layer: Dark Grey Non-Fibrous Material			**ND**				
Layer: Tan Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (5 %)		**Asbestos (ND)**					
7095-16A	50801968						
Layer: Grey Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-17A	50801969						
Layer: Grey Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-18A	50801970						
Layer: Beige Non-Fibrous Material			**ND**				
Layer: Grey Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-19A	50801971						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Beige Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-20A	50801972						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Beige Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-21A	50801973						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Beige Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-22A	50801974						
Layer: White Drywall			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					

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Client Name: EnviroQuest, Inc.

Report Number: B177375
Date Printed: 05/21/13

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-23A	50801975						
Layer: White Drywall			**ND**				
Layer: Off-White Skimcoat/Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-24A	50801976						
Layer: White Drywall			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-25A	50801977						
Layer: Off-White Putty		Chrysotile	**Trace**				
Layer: Light Grey Putty			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					
7095-26A	50801978						
Layer: Light Grey Putty			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-27A	50801979						
Layer: Light Grey Putty			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-28A	50801980						
Layer: White Drywall			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-29A	50801981						
Layer: White Drywall			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-30A	50801982						
Layer: White Drywall			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-31A	50801983						
Layer: Beige Non-Fibrous Material			**ND**				
Layer: Beige Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-32A	50801984						
Layer: Beige Non-Fibrous Material			**ND**				
Layer: Beige Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-33A	50801985						
Layer: Beige Non-Fibrous Material			**ND**				
Layer: Beige Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-34A	50801986						
Layer: Beige Tile			**ND**				
Layer: Tan and Black Mastics			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-35A	50801987						
Layer: Beige Tile			**ND**				
Layer: Tan and Black Mastics			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-36A	50801988						
Layer: Beige Tile			**ND**				
Layer: Tan and Black Mastics			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-37A	50801989						
Layer: Beige Tile			**ND**				
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %)		**Asbestos (ND)**					
7095-38A	50801990						
Layer: Beige Tile			**ND**				
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-39A	50801991						
Layer: Beige Tile			**ND**				
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %)		**Asbestos (ND)**					
7095-40A	50801992						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-41A	50801993						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-42A	50801994						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-43A	50801995						
Layer: White Drywall			**ND**				
Layer: Drywall Tape			**ND**				
Layer: Off-White Skimcoat/Joint Compounds			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-44A	50801996						
Layer: White Drywall			**ND**				
Layer: Off-White Skimcoat/Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-45A	50801997						
Layer: White Drywall			**ND**				
Layer: Off-White Skimcoat/Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-46A	50801998						
Layer: Light Beige Plaster			**ND**				
Layer: Paint			**ND**				
Layer: Off-White Texture			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-47A	50801999						
Layer: Light Beige Plaster			**ND**				
Layer: Paint			**ND**				
Layer: Off-White Texture			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-48A	50802000						
Layer: Light Beige Plaster			**ND**				
Layer: Paint			**ND**				
Layer: Off-White Texture			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-49A	50802001						
Layer: Light Beige Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-50A	50802002						
Layer: Light Beige Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-51A	50802003						
Layer: Light Beige Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-52A	50802004						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Layer: Off-White Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-53A	50802005						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Layer: Off-White Tile			**ND**				
Layer: Tan Mastic			**ND**				
Layer: Grey Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-54A	50802006						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Layer: Off-White Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-55A	50802007						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Layer: Tan Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-56A	50802008						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Layer: Tan Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-57A	50802009						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Layer: Tan Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-58A	50802010						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Layer: Tan Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-59A	50802011						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Layer: Tan Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-60A	50802012						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Layer: Tan Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-61A	50802013						
Layer: Off-White Non-Fibrous Material			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-62A	50802014						
Layer: Off-White Non-Fibrous Material			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-63A	50802015						
Layer: Off-White Non-Fibrous Material			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-64A	50802016						
Layer: Light Grey Putty			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-65A	50802017						
Layer: Light Grey Putty			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-66A	50802018						
Layer: Light Grey Putty			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-67A	50802019						
Layer: Beige Putty		Chrysotile	**Trace**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					
7095-68A	50802020						
Layer: Beige Putty		Chrysotile	**Trace**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					
7095-69A	50802021						
Layer: Beige Putty		Chrysotile	**Trace**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					
7095-70A	50802022						
Layer: White Drywall			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-71A	50802023						
Layer: White Drywall			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-72A	50802024						
Layer: White Drywall			**ND**				
Layer: Off-White Skimcoat/Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-73A	50802025						
Layer: White Drywall			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-74A	50802026						
Layer: White Drywall			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-75A	50802027						
Layer: White Drywall			**ND**				
Layer: Off-White Skimcoat/Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-76A	50802028						
Layer: Paint			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Layer: Beige Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-77A	50802029						
Layer: Paint			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Layer: Beige Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-78A	50802030						
Layer: Paint			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Layer: Beige Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-79A	50802031						
Layer: Beige Putty		Chrysotile	**Trace**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					
7095-80A	50802032						
Layer: Beige Putty		Chrysotile	**Trace**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					
7095-81A	50802033						
Layer: Beige Putty		Chrysotile	**Trace**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					
7095-82A	50802034						
Layer: Tan Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-83A	50802035						
Layer: Tan Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-84A	50802036						
Layer: Tan Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-85A	50802037						
Layer: White Drywall			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-86A	50802038						
Layer: White Drywall			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-87A	50802039						
Layer: White Drywall			**ND**				
Layer: Off-White Skimcoat/Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-88A	50802040						
Layer: Tan Sheet Flooring			**ND**				
Layer: Fibrous Backing/Black Mastic		Chrysotile	**70 %**				
Total Composite Values of Fibrous Components: Cellulose (5 %)		**Asbestos (32%)**					
7095-89A	50802041						
Comment: Sample not analyzed due to prior positive result in series.							
7095-90A	50802042						
Comment: Sample not analyzed due to prior positive result in series.							
7095-91A	50802043						
Layer: Fibrous Backing/Black Mastic		Chrysotile	**70 %**				
Total Composite Values of Fibrous Components: Cellulose (10 %)		**Asbestos (70%)**					
7095-92A	50802044						
Comment: Sample not analyzed due to prior positive result in series.							
7095-93A	50802045						
Comment: Sample not analyzed due to prior positive result in series.							

2959 Pacific Commerce Drive, Rancho Dominguez, CA 90221 / Telephone: (310) 763-2374 (888) 813-9417 / Fax: (310) 763-8684

Report Number: B177375
Client Name: EnviroQuest, Inc. **Date Printed:** 05/21/13

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer

Steven Takahashi, Laboratory Supervisor, Rancho Dominguez Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

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EnviroQuest

PLM DATA SHEET

Project No.: 7095 Project Name: 710 King Street Date: 5/14/13

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Material Description: 5"x5" red quarry tile, grout, and mortar

Sample No.	Location	% Asb.	Friable / Non-friable Asb. Type
7095-01A	Mr. Mandan, front room		
-02A			
-03A	back room		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☑ Good Cond.	% H_2O/Gouges-

Contact Potential	☑ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☑ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: gray CMU w/ grout

Sample No.	Location	% Asb.	Friable / Non-friable Asb. Type
7095-04A	Mr. Mandan, ext. wall		
-05A			
-06A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☑ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☑ Low
Vibration Potential	☐ High	☐ Moderate	☑ Low
Air Erosion	☐ High	☐ Moderate	☑ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☑ Minimal Damage

Sampled By: J. Fernandez DOH Cert No: 3421	Relinquished By/Date/Time:	Relinquished By/Date/Time:
Delivered to Lab By: EQE	Received By/Date/Time: 10:13am J. Carrillo 5/16/13 F/E	Received By/Date/Time:

TURNAROUND TIME: ☐ < 12 Hours ☐ 24 Hours ☑ 3 Days ☐ 5 Days ☐

Surfacing	<1,000 ft² = 3 Samples	1,000 – 5,000 ft² = 5 Samples	>5,000 ft² = 7 Samples
TSI	Minimum of 3 Samples (Run) UNLESS	<6 In. or ft² = 1 Sample	Minimum of 3 Samples (Elbow & 'T')
Misc.	Minimum of 3 Samples (Hawaii)		

Surfacing	Sig. Damage = > 10% Dist. or 25% Local	Damaged = < 10% Dist. or 25% Local	Good = Very Limited Damage
TSI	Sig. Damage = 10% Missing Jacket OR > 10% Dist. or 25% Local	Damaged = < 10% Missing Jacket OR < 10% Dist. or 25% Local	Good = Very Limited Damage
Misc	Sig. Damage = > 10% Dist. or 25% Local	Damaged = < 10% Dist. or 25% Local	Good = Very Limited Damage

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EnviroQuest

PLM DATA SHEET

Project No.: 7095 Project Name: 710 King St. Date: 5/14/13

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Material Description: White drywall and joint cmpd wall — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-07A	Mr. Mandoo, front wall		
-08A	Mr. Mandoo, mid wall		
-09A	Mr. Mandoo, restroom wall		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct - % Crushed - % H2O Stains -

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

Contact Potential: ☐ High ☐ Moderate ☐ Low
Vibration Potential: ☐ High ☐ Moderate ☐ Low
Air Erosion: ☐ High ☐ Moderate ☐ Low
OVERALL POTENTIAL RATING: ☐ Significant Damage ☐ Damage ☐ Minimal Damage

Material Description: White drywall/joint cmpd ceiling — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-10A	Mr. Mandoo, front space		
-11A			
-12A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct - % Crushed - % H2O Stains -

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

Contact Potential: ☐ High ☐ Moderate ☐ Low
Vibration Potential: ☐ High ☐ Moderate ☐ Low
Air Erosion: ☐ High ☐ Moderate ☐ Low
OVERALL POTENTIAL RATING: ☐ Significant Damage ☐ Damage ☐ Minimal Damage

Material Description: Gray window caulking — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-13A	Mr. Mandoo, front window		
-14A	Mr. Mandoo, rear window		
-15A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct - % Crushed - % H2O Stains -

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

Contact Potential: ☐ High ☐ Moderate ☐ Low
Vibration Potential: ☐ High ☐ Moderate ☐ Low
Air Erosion: ☐ High ☐ Moderate ☐ Low
OVERALL POTENTIAL RATING: ☐ Significant Damage ☐ Damage ☐ Minimal Damage

EnviroQuest

PLM DATA SHEET

Project No.: 7095 Project Name: 710 King St. Date: 5/14/13

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Material Description: White door caulking — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-16A	Mr. Mandoo, ~~front door~~ Entrance		
-17A	Mr. Mandoo, staff only		
-18A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct - % Crushed - % H2O Stains -

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

Contact Potential: ☐ High ☐ Moderate ☐ Low
Vibration Potential: ☐ High ☐ Moderate ☐ Low
Air Erosion: ☐ High ☐ Moderate ☐ Low
OVERALL POTENTIAL RATING: ☐ Significant Damage ☐ Damage ☐ Minimal Damage

Material Description: Brown covebase / white adhesive — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-19A	Marketplace, 1st floor		
-20A			
-21A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct - % Crushed - % H2O Stains -

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

Contact Potential: ☐ High ☐ Moderate ☐ Low
Vibration Potential: ☐ High ☐ Moderate ☐ Low
Air Erosion: ☐ High ☐ Moderate ☐ Low
OVERALL POTENTIAL RATING: ☐ Significant Damage ☐ Damage ☐ Minimal Damage

Material Description: White drywall/joint cmpd — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-22A	Marketplace, 1st floor, right wall		
-23A	Marketplace, 1st floor, left wall		
-24A	Marketplace, 1st floor, ceiling		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct - % Crushed - % H2O Stains -

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

Contact Potential: ☐ High ☐ Moderate ☐ Low
Vibration Potential: ☐ High ☐ Moderate ☐ Low
Air Erosion: ☐ High ☐ Moderate ☐ Low
OVERALL POTENTIAL RATING: ☐ Significant Damage ☐ Damage ☐ Minimal Damage

EnviroQuest

PLM DATA SHEET

Project No.: 7095 Project Name: _____ Date: 5/14/13

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Material Description: Black Sealant — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-25A	Market 2nd floor, window b/t glass pane seam		
-26A			
-27A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct, % Crushed, % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: Dry wall/Joint compd — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-28A	Market 2nd flr, office		
-29A			
-30A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct, % Crushed, % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: tan cove base/white adhesive — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-31A	Market 2nd floor, office		
-32A			
-33A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct, % Crushed, % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

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PLM DATA SHEET

Project No.: 7095 Project Name: 710 King Street Date: 5/14/13

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Material Description: 12"x12" beige f.t / tan/black mastic — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-34A	office front area		
-35A			
-36A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct, % Crushed, % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: 12"x12" Beige w/brown streak/black mastic — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-37A	office behind counter		
-38A			
-39A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct, % Crushed, % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: brown cove base/ tan adhesive — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-40A	office, front area, rear area, behind desk		
-41A			
-42A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct, % Crushed, % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

EnviroQuest

PLM DATA SHEET

Project No.: 7095 Project Name: 710 King St. Date: 5/19/15

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Material Description: drywall/jt cmpd

Sample No.	Location	% Asb.	Friable / Non-friable Asb. Type
7095-43A	storage		
-44A	office, hall		
-45A	behind counter		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material	TSI	Misc.
☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H2O/Gauges -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Gouge/Punct - % Crushed - % H2O Stains -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H2O/Gauges -

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: plaster 19th ceiling

Sample No.	Location	% Asb.	Friable / Non-friable Asb. Type
7095-46A	office front area		
-47A			
-48A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material	TSI	Misc.
☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H2O/Gauges -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Gouge/Punct - % Crushed - % H2O Stains -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H2O/Gauges -

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: plaster ceiling

Sample No.	Location	% Asb.	Friable / Non-friable Asb. Type
7095-49A	office, rear area		
-50A	& restroom		
-51A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material	TSI	Misc.
☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H2O/Gauges -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Gouge/Punct - % Crushed - % H2O Stains -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H2O/Gauges -

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

EnviroQuest

PLM DATA SHEET

Project No.: 7095 Project Name: 710 King St. Date: 5/19/15

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Material Description: 12"x12" yellow f.t./yellow f.t. (stalactite)

Sample No.	Location	% Asb.	Friable / Non-friable Asb. Type
7095-52A	salon		
-53A			
-54A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material	TSI	Misc.
☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H2O/Gauges -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Gouge/Punct - % Crushed - % H2O Stains -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H2O/Gauges -

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: 12"x12" pink f.t./f.t. (glue & stick)

Sample No.	Location	% Asb.	Friable / Non-friable Asb. Type
7095-55A	salon		
-56A			
-57A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material	TSI	Misc.
☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H2O/Gauges -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Gouge/Punct - % Crushed - % H2O Stains -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H2O/Gauges -

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: 12"x12" gray f.t./f.t. (glue & stick)

Sample No.	Location	% Asb.	Friable / Non-friable Asb. Type
7095-58A	salon		
-59A			
-60A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material	TSI	Misc.
☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H2O/Gauges -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Gouge/Punct - % Crushed - % H2O Stains -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H2O/Gauges -

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

EnviroQuest

PLM DATA SHEET

Project No.: 7095 Project Name: 710 Kinoole St

Date: 5/14/13

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Material Description: White Cove base / beige adhesive

Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-51A, -52A, -53A	Salon		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H₂O/Gouges -

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct - % Crushed - % H₂O Stains -

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H₂O/Gouges -

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: Gray Sealant

Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-84A, -85A, -86A	window, 1st window frame & wall		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H₂O/Gouges -

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct - % Crushed - % H₂O Stains -

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H₂O/Gouges -

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: White Sealant

Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-87A, -88A, -89A	window, 1st frame and glass		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H₂O/Gouges -

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct - % Crushed - % H₂O Stains -

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H₂O/Gouges -

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

EnviroQuest

PLM DATA SHEET

Project No.: 7095 Project Name: 710 Kinoole St

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Material Description: drywall / joint compound

Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-70A, -71A, -72A	Salon		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H₂O/Gouges -

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct - % Crushed - % H₂O Stains -

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H₂O/Gouges -

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: textured sypboard ceiling

Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-73A, -74A, -75A	Salon		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H₂O/Gouges -

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct - % Crushed - % H₂O Stains -

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H₂O/Gouges -

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: Blue cove base / White adhesive

Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-76A, -77A, -78A	storage		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H₂O/Gouges -

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct - % Crushed - % H₂O Stains -

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H₂O/Gouges -

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

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PLM DATA SHEET

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Material Description: White Sealant

Sample No.	Location	% Asb.	Friable / Non-friable Asb. Type
7095-79A, -80A, -81A	Storage bldg Windowpane and glass		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct, % Crushed, % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

Contact Potential: ☐ High ☐ Moderate ☐ Low

Vibration Potential: ☐ High ☐ Moderate ☐ Low

Air Erosion: ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING: ☐ Significant Damage ☐ Damage ☐ Minimal Damage

Material Description: 12"x12" white vinyl floating square pattern

Sample No.	Location	% Asb.	Friable / Non-friable Asb. Type
7095-82A, -83A, -84A	Storage		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct, % Crushed, % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

Contact Potential: ☐ High ☐ Moderate ☐ Low

Vibration Potential: ☐ High ☐ Moderate ☐ Low

Air Erosion: ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING: ☐ Significant Damage ☐ Damage ☐ Minimal Damage

Material Description: Primary jt cmpd

Sample No.	Location	% Asb.	Friable / Non-friable Asb. Type
7095-85A, -86A, -87A	Storage, Wall Ceiling		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct, % Crushed, % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

Contact Potential: ☐ High ☐ Moderate ☐ Low

Vibration Potential: ☐ High ☐ Moderate ☐ Low

Air Erosion: ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING: ☐ Significant Damage ☐ Damage ☐ Minimal Damage

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Project No.: Project Name: Date:

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Material Description: 12"x12" vinyl floating / yellow vinyl tile / black mastic

Sample No.	Location	% Asb.	Friable / Non-friable Asb. Type
7095-88A, -89A, -90A	Storage Women toilet platform		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct, % Crushed, % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

Contact Potential: ☑ High ☐ Moderate ☐ Low

Vibration Potential: ☐ High ☐ Moderate ☐ Low

Air Erosion: ☐ High ☐ Moderate ☑ Low

OVERALL POTENTIAL RATING: ☐ Significant Damage ☐ Damage ☑ Minimal Damage

Material Description: Beige vinyl floor tile

Sample No.	Location	% Asb.	Friable / Non-friable Asb. Type
7095-91A, -92A, -93A	Storage restroom		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct, % Crushed, % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

Contact Potential: ☑ High ☐ Moderate ☐ Low

Vibration Potential: ☐ High ☐ Moderate ☐ Low

Air Erosion: ☐ High ☐ Moderate ☑ Low

OVERALL POTENTIAL RATING: ☐ Significant Damage ☐ Damage ☑ Minimal Damage

Material Description:

Sample No.	Location	% Asb.	Friable / Non-friable Asb. Type

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct, % Crushed, % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Gouges

Contact Potential: ☐ High ☐ Moderate ☐ Low

Vibration Potential: ☐ High ☐ Moderate ☐ Low

Air Erosion: ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING: ☐ Significant Damage ☐ Damage ☐ Minimal Damage

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Forensic Analytical Laboratories

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

EnviroQuest, Inc.
Steve Tanaka
98-029 Hekaha Street
Suite 21
Aiea, HI 96701

Client ID: 7104
Report Number: B177446
Date Received: 05/17/13
Date Analyzed: 05/22/13
Date Printed: 05/22/13
First Reported: 05/22/13

Job ID/Site: 7095; 710 N. King St.

FALI Job ID: 7104

Date(s) Collected: 05/15/2013

Total Samples Submitted: 60
Total Samples Analyzed: 57

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-94A	50802359						
Layer: Tan Roof Shingle			**ND**				
Layer: 3 Black Tars			**ND**				
Layer: 3 Black Felts			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Fibrous Glass (45 %) Synthetic (15 %)							
7095-95A	50802360						
Layer: Tan Roof Shingle			**ND**				
Layer: 3 Black Tars			**ND**				
Layer: 3 Black Felts			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Fibrous Glass (45 %) Synthetic (15 %)							
7095-96A	50802361						
Layer: Tan Roof Shingle			**ND**				
Layer: 3 Black Tars			**ND**				
Layer: 3 Black Felts			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Fibrous Glass (45 %) Synthetic (15 %)							
7095-97A	50802362						
Layer: Tan Roof Shingle			**ND**				
Layer: 3 Black Tars			**ND**				
Layer: 3 Black Felts			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Fibrous Glass (45 %) Synthetic (15 %)							

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Client Name: EnviroQuest, Inc.

Report Number: B177446
Date Printed: 05/22/13

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-98A	50802363						
Layer: Tan Roof Shingle			**ND**				
Layer: 3 Black Tars			**ND**				
Layer: 3 Black Felts			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Fibrous Glass (45 %) Synthetic (15 %)							
7095-99A	50802364						
Layer: Tan Roof Shingle			**ND**				
Layer: 3 Black Tars			**ND**				
Layer: 3 Black Felts			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Fibrous Glass (45 %) Synthetic (15 %)							
7095-100A	50802365						
Layer: Black Non-Fibrous Material			**ND**				
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %)							
7095-101A	50802366						
Layer: Beige Coating			**ND**				
Layer: Black Non-Fibrous Material			**ND**				
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %)							
7095-102A	50802367						
Layer: Beige Coating			**ND**				
Layer: Black Non-Fibrous Material			**ND**				
Layer: Black Semi-Fibrous Tar 1			**ND**				
Layer: Black Semi-Fibrous Tar 2		Chrysotile	**5 %**				
Total Composite Values of Fibrous Components:		**Asbestos (Trace)**					
Cellulose (5 %)							
7095-103A	50802368						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %)							
7095-104A	50802369						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %)							
7095-105A	50802370						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-106A	50802371						
Layer: Black Tar			**ND**				
Layer: Beige Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-107A	50802372						
Layer: Beige Coating		Chrysotile	**3 %**				
Layer: Paint			**ND**				
Layer: Black Tar			**ND**				
Layer: Beige Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					
7095-108A	50802373						
Comment: Sample not analyzed due to prior positive result in series.							
7095-109A	50802374						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (5 %)		**Asbestos (ND)**					
7095-110A	50802375						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (5 %)		**Asbestos (ND)**					
7095-111A	50802376						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (5 %)		**Asbestos (ND)**					
7095-112A	50802377						
Layer: Green Coating		Chrysotile	**5 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (5%)**					
7095-113A	50802378						
Comment: Sample not analyzed due to prior positive result in series.							
7095-114A	50802379						
Comment: Sample not analyzed due to prior positive result in series.							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-115A	50802380						
Layer: Grey Roof Shingle			**ND**				
Layer: Dark Grey Roof Shingle			**ND**				
Layer: Green Roof Shingle			**ND**				
Layer: 2 Black Tars			**ND**				
Layer: 2 Black Felts			**ND**				
Total Composite Values of Fibrous Components: Cellulose (15 %) Fibrous Glass (45 %)		**Asbestos (ND)**					
7095-116A	50802381						
Layer: Grey Roof Shingle			**ND**				
Layer: Dark Grey Roof Shingle			**ND**				
Layer: Green Roof Shingle			**ND**				
Layer: 2 Black Tars			**ND**				
Layer: 2 Black Felts			**ND**				
Total Composite Values of Fibrous Components: Cellulose (15 %) Fibrous Glass (45 %)		**Asbestos (ND)**					
7095-117A	50802382						
Layer: Grey Roof Shingle			**ND**				
Layer: Dark Grey Roof Shingle			**ND**				
Layer: Green Roof Shingle			**ND**				
Layer: 2 Black Tars			**ND**				
Layer: 2 Black Felts			**ND**				
Total Composite Values of Fibrous Components: Cellulose (15 %) Fibrous Glass (45 %)		**Asbestos (ND)**					
7095-118A	50802383						
Layer: Green Roof Shingle			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (45 %)		**Asbestos (ND)**					
7095-119A	50802384						
Layer: Green Roof Shingle			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (45 %)		**Asbestos (ND)**					
7095-120A	50802385						
Layer: Green Roof Shingle			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (45 %)		**Asbestos (ND)**					
7095-121A	50802386						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (10 %) Fibrous Glass (3 %) Synthetic (Trace)		**Asbestos (ND)**					
7095-122A	50802387						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (10 %) Fibrous Glass (3 %) Synthetic (Trace)		**Asbestos (ND)**					

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Client Name: EnviroQuest, Inc.

Report Number: B177446
Date Printed: 05/22/13

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-123A	50802388						
Layer: Off-White Coating			**ND**				
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (10 %) Fibrous Glass (3 %) Synthetic (Trace)		**Asbestos (ND)**					
7095-124A	50802389						
Layer: Off-White Coating			**ND**				
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (15 %)		**Asbestos (ND)**					
7095-125A	50802390						
Layer: Off-White Coating			**ND**				
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (15 %)		**Asbestos (ND)**					
7095-126A	50802391						
Layer: Off-White Coating			**ND**				
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (15 %)		**Asbestos (ND)**					
7095-127A	50802392						
Layer: Green Roof Shingle			**ND**				
Layer: Dark Green Roof Shingle			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (45 %)		**Asbestos (ND)**					
7095-128A	50802393						
Layer: Green Roof Shingle			**ND**				
Layer: Dark Green Roof Shingle			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (45 %)		**Asbestos (ND)**					
7095-129A	50802394						
Layer: Green Roof Shingle			**ND**				
Layer: Dark Green Roof Shingle			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (45 %)		**Asbestos (ND)**					
7095-130A	50802395						
Layer: Beige Ceramic Tile			**ND**				
Layer: Brown Grout			**ND**				
Layer: Grey Mortar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Fibrous Glass (2 %)		**Asbestos (ND)**					

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Date Printed: 05/22/13

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-131A	50802396						
Layer: Beige Ceramic Tile			**ND**				
Layer: Brown Grout			**ND**				
Layer: Grey Mortar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-132A	50802397						
Layer: Beige Ceramic Tile			**ND**				
Layer: Brown Grout			**ND**				
Layer: Grey Mortar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-133A	50802398						
Layer: Tan Mastic (top)			**ND**				
Layer: Tan Tile		Chrysotile	**3 %**				
Layer: Black Mastic (bottom)			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (3%)**					
7095-134A	50802399						
Layer: Tan Mastic (top)			**ND**				
Layer: Tan Tile		Chrysotile	**3 %**				
Layer: Black Mastic (bottom)			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (3%)**					
7095-135A	50802400						
Layer: Tan Mastic (top)			**ND**				
Layer: Tan Tile		Chrysotile	**3 %**				
Layer: Black Mastic (bottom)			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (3%)**					
7095-136A	50802401						
Layer: Tan Mastic			**ND**				
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-137A	50802402						
Layer: Tan Mastic			**ND**				
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-138A	50802403						
Layer: Tan Mastic			**ND**				
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-139A	50802404						
Layer: Black Non-Fibrous Material			**ND**				
Layer: Tan Mastic			**ND**				
Layer: Brown Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-140A	50802405						
Layer: Black Non-Fibrous Material			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-141A	50802406						
Layer: Black Non-Fibrous Material			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-142A	50802407						
Layer: White Drywall			**ND**				
Layer: Off-White Skimcoat/Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-143A	50802408						
Layer: White Drywall			**ND**				
Layer: Off-White Skimcoat/Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					
7095-144A	50802409						
Layer: White Drywall			**ND**				
Layer: Drywall Tape			**ND**				
Layer: Off-White Skimcoat/Joint Compounds			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (Trace)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-145A	50802410						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-146A	50802411						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-147A	50802412						
Layer: Off-White Plaster			**ND**				
Layer: Light Beige Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
7095-148A	50802413						
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (95 %)		**Asbestos (ND)**					
7095-149A	50802414						
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (95 %)		**Asbestos (ND)**					
7095-150A	50802415						
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (95 %)		**Asbestos (ND)**					
7095-151A	50802416						
Layer: Beige Putty		Chrysotile	**Trace**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					
7095-152A	50802417						
Layer: Beige Putty		Chrysotile	**Trace**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					

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Client Name: EnviroQuest, Inc.

Report Number: B177446
Date Printed: 05/22/13

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-153A	50802418						
Layer: Beige Putty		Chrysotile	**Trace**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (Trace)**					
Cellulose (Trace)							

Steven Takahashi, Laboratory Supervisor, Rancho Dominguez Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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EnviroQuest

PLM DATA SHEET

Project No. 7095 Project Name: 710 N. King st Date: 5/15/13

Page: 1 of 7

Material Description: black felt roof

Sample No.	Location	% Asb.	Friable Non-friable Asb. Type
7095-94A	2 story build, main roof, west half		
95A	" " " " "		
96A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: fibrous roof over black felt

Sample No.	Location	% Asb.	Friable Non-friable Asb. Type
7095-97A	2 story build, main roof, east half		
98A	" " " "		
99A	" " "		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Sampled By: J. Sacramento
DOH Cert No: HI-ASB-0173
Delivered to Lab By: [illegible]

Relinquished By/Date/Time: [illegible]
Relinquished By/Date/Time: [illegible] 5/17/13 [illegible]

Relinquished By/Date/Time:
Relinquished By/Date/Time:

TURNAROUND TIME: ☐ < 12 Hours ☐ 24 Hours ☑ 3 Days ☐ 5 Days ☐

Surfacing	<1,000 ft² = 3 Samples	1,000 – 5,000 ft² = 5 Samples	>5,000 ft² = 7 Samples
TSI	Minimum of 3 Samples (Run) UNLESS	<6 in. or ft² = 1 Sample	Minimum of 3 Samples (Elbow & 'T')
Misc.	Minimum of 3 Samples (Hawaii)		

Surfacing	Sig. Damage = > 10% Dist. or 25% Local	Damaged = < 10% Dist. or 25% Local	Good = Very Limited Damage
TSI	Sig. Damage = 10% Missing Jacket OR > 10% Dist. or 25% Local	Damaged = < 10% Missing Jacket OR < 10% Dist. or 25% Local	Good = Very Limited Damage
Misc	Sig. Damage = > 10% Dist. or 25% Local	Damaged = < 10% Dist. or 25% Local	Good = Very Limited Damage

98-029 Hekaha Street, Suite 21, Aiea, HI 96701 Phone: (808) 486-5881 Fax: (808) 486-5889 E-mail: eql@enviroquestinc.com

EnviroQuest

PLM DATA SHEET

Project No.: 1095 Project Name: 710 N. King street Date: 5/15/13

Page: 2 of 7

Material Description: pipe vent sealant — Friable / Non-Friable

Sample No.	Location	% Asb.	Asb. Type
1095-100A	2 story build, main roof vent pipe		
101A	" " "		
102A	" " "		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct - % Crushed - % H2O Stains -

Misc.: ☐ Sig. Damage ☐ Damaged ☑ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

Contact Potential: ☐ High ☐ Moderate ☐ Low

Vibration Potential: ☐ High ☐ Moderate ☐ Low

Air Erosion: ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING: ☐ Significant Damage ☐ Damage ☑ Minimal Damage

Material Description: skylight sealant — Friable / Non-Friable

Sample No.	Location	% Asb.	Asb. Type
1095-103A	2 story build, main roof, skylight		
104A	" " "		
105A	" " "		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct - % Crushed - % H2O Stains -

Misc.: ☑ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

Contact Potential: ☐ High ☐ Moderate ☐ Low

Vibration Potential: ☐ High ☐ Moderate ☐ Low

Air Erosion: ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING: ☑ Significant Damage ☐ Damage ☐ Minimal Damage

Material Description: flashing (parapet) caulking — Friable / Non-Friable

Sample No.	Location	% Asb.	Asb. Type
1095-106A	2 story build, main roof, parapet flashing		
107A	" " "		
108A	" " "		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct - % Crushed - % H2O Stains -

Misc.: ☐ Sig. Damage ☑ Damaged ☑ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

Contact Potential: ☐ High ☐ Moderate ☐ Low

Vibration Potential: ☐ High ☐ Moderate ☐ Low

Air Erosion: ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING: ☐ Significant Damage ☐ Damage ☑ Minimal Damage

EnviroQuest

PLM DATA SHEET

Project No.: 1095 Project Name: 710 north King st Date: 5/15/13

Page: 3 of 7

Material Description: AC conduit sealant — Friable / Non-Friable

Sample No.	Location	% Asb.	Asb. Type
1095-109A	2 story build, main roof AC conduit		
110A	" " " "		
111A	" " " "		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct - % Crushed - % H2O Stains -

Misc.: ☐ Sig. Damage ☐ Damaged ☑ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

Contact Potential: ☐ High ☐ Moderate ☐ Low

Vibration Potential: ☐ High ☐ Moderate ☐ Low

Air Erosion: ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING: ☐ Significant Damage ☐ Damage ☑ Minimal Damage

Material Description: white parapet wall coat — Friable / Non-Friable

Sample No.	Location	% Asb.	Asb. Type
1095-112A	2 story build, main roof parapet wall		
113A	" " " "		
114A	" " " "		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct - % Crushed - % H2O Stains -

Misc.: ☐ Sig. Damage ☐ Damaged ☑ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

Contact Potential: ☐ High ☐ Moderate ☐ Low

Vibration Potential: ☐ High ☐ Moderate ☐ Low

Air Erosion: ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING: ☐ Significant Damage ☐ Damage ☑ Minimal Damage

Material Description: black roof shingle — Friable / Non-Friable

Sample No.	Location	% Asb.	Asb. Type
1095-115A	Mr. mandino, roof, main		
116A	" " "		
117A	" " "		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct - % Crushed - % H2O Stains -

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling - % Delaminating - % H2O/Gouges -

Contact Potential: ☐ High ☐ Moderate ☐ Low

Vibration Potential: ☐ High ☐ Moderate ☐ Low

Air Erosion: ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING: ☐ Significant Damage ☐ Damage ☑ Minimal Damage

EnviroQuest

PLM DATA SHEET

Project No.: 7095 Project Name: 710 N. King St Date: 5/15/14

Page: 4 of 7

Material Description: wall ~~roof felt~~ felt — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-118A	Mr. Mandin, roof, wall		
119A	" " "		
120A	" " "		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Grease

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct, % Crushed, % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Grease

Contact Potential ☐ High ☐ Moderate ☐ Low

Vibration Potential ☐ High ☐ Moderate ☐ Low

Air Erosion ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING ☐ Significant Damage ☐ Damage ☐ Minimal Damage

Material Description: black tar sealant (elect, AC, conc breaks) — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-121A	Mr. Mandin roof, elect conduit/roof		
122A	" " AC pipe/roof		
123A	" " conc break		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Grease

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct, % Crushed, % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Grease

Contact Potential ☐ High ☐ Moderate ☐ Low

Vibration Potential ☐ High ☐ Moderate ☐ Low

Air Erosion ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING ☐ Significant Damage ☐ Damage ☐ Minimal Damage

Material Description: white coating flashing black sealant — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-124A	Mr. Mandin, roof/church wall seam		
125A	" " "		
126A	" " "		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Grease

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct, % Crushed, % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Grease

Contact Potential ☐ High ☐ Moderate ☐ Low

Vibration Potential ☐ High ☐ Moderate ☐ Low

Air Erosion ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING ☐ Significant Damage ☐ Damage ☐ Minimal Damage

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PLM DATA SHEET

Project No.: 7095 Project Name: 710 N. King Street Date: 5/15/14

Page: 5 of 7

Material Description: green roof felt — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-120A	Side canopy roof, King's market		
123A	" " "		
124A	" " "		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Grease

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct, % Crushed, % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Grease

Contact Potential ☐ High ☐ Moderate ☐ Low

Vibration Potential ☐ High ☐ Moderate ☐ Low

Air Erosion ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING ☐ Significant Damage ☐ Damage ☐ Minimal Damage

Material Description: 12"x12" Beige ceramic tile/mortar/sealant — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-130A	Church Space 2nd Floor, RKA		
-131A	Church Space 2nd Floor, MKS		
-132A	Church Space 2nd Floor, RKA		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Grease

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct, % Crushed, % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Grease

Contact Potential ☐ High ☐ Moderate ☐ Low

Vibration Potential ☐ High ☐ Moderate ☐ Low

Air Erosion ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING ☐ Significant Damage ☐ Damage ☐ Minimal Damage

Material Description: brown carpet mastic/brown fit/black mastic — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-133A	Church Space 2nd Floor, Room		
-134A	Church Space 2nd Floor, Mandrea		
-135A	Church Space 2nd Floor, "		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Grease

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct, % Crushed, % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling, % Delaminating, % H2O/Grease

Contact Potential ☐ High ☐ Moderate ☐ Low

Vibration Potential ☐ High ☐ Moderate ☐ Low

Air Erosion ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING ☐ Significant Damage ☐ Damage ☐ Minimal Damage

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PLM DATA SHEET

Project No.: 7095 Project Name: 41 N King St Date: 5/14/13

Page: 5 of 7

Material Description: Cement texturing on ceiling

Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-136A	back room 2nd		
-137A			
-138A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling % Delaminating % H2O/Gouges

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct % Crushed % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling % Delaminating % H2O/Gouges

Contact Potential ☐ High ☐ Moderate ☐ Low

Vibration Potential ☐ High ☐ Moderate ☐ Low

Air Erosion ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING ☐ Significant Damage ☐ Damage ☐ Minimal Damage

Material Description: Black cove base / tan/brown adhesive

Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-139A	Main area 2nd		
-140A			
-141A	back room		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling % Delaminating % H2O/Gouges

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct % Crushed % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling % Delaminating % H2O/Gouges

Contact Potential ☐ High ☐ Moderate ☐ Low

Vibration Potential ☐ High ☐ Moderate ☐ Low

Air Erosion ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING ☐ Significant Damage ☐ Damage ☐ Minimal Damage

Material Description: drywall / jt cmpd

Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-142A	Main area 2nd		
-143A			
-144A	back room		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling % Delaminating % H2O/Gouges

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct % Crushed % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling % Delaminating % H2O/Gouges

Contact Potential ☐ High ☐ Moderate ☐ Low

Vibration Potential ☐ High ☐ Moderate ☐ Low

Air Erosion ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING ☐ Significant Damage ☐ Damage ☐ Minimal Damage

EnviroQuest

PLM DATA SHEET

Project No.: 7095 Project Name: 40 King St Date: 5/15/

Page: 7 of 7

Material Description: Plaster wall

Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-145A	2nd floor Main Area		
-146A	CR2		
-147A	CR1		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling % Delaminating % H2O/Gouges

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct % Crushed % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling % Delaminating % H2O/Gouges

Contact Potential ☐ High ☐ Moderate ☐ Low

Vibration Potential ☐ High ☐ Moderate ☐ Low

Air Erosion ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING ☐ Significant Damage ☐ Damage ☐ Minimal Damage

Material Description: Cane ceiling

Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-148A	Main area		
-149A			
-150A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling % Delaminating % H2O/Gouges

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct % Crushed % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling % Delaminating % H2O/Gouges

Contact Potential ☐ High ☐ Moderate ☐ Low

Vibration Potential ☐ High ☐ Moderate ☐ Low

Air Erosion ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING ☐ Significant Damage ☐ Damage ☐ Minimal Damage

Material Description: White sealant

Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
7095-151A	2nd floor main area window		
-152A			
-153A	4th wall + window		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling % Delaminating % H2O/Gouges

TSI: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Gouge/Punct % Crushed % H2O Stains

Misc.: ☐ Sig. Damage ☐ Damaged ☐ Good Cond. — % Crumbling % Delaminating % H2O/Gouges

Contact Potential ☐ High ☐ Moderate ☐ Low

Vibration Potential ☐ High ☐ Moderate ☐ Low

Air Erosion ☐ High ☐ Moderate ☐ Low

OVERALL POTENTIAL RATING ☐ Significant Damage ☐ Damage ☐ Minimal Damage

Forensic Analytical Laboratories

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

EnviroQuest, Inc.
Steve Tanaka
98-029 Hekaha Street
Suite 21
Aiea, HI 96701

Client ID: 7104
Report Number: B177886
Date Received: 05/30/13
Date Analyzed: 06/03/13
Date Printed: 06/04/13
First Reported: 06/04/13

Job ID/Site: 7095; 710 North King Street

Date(s) Collected: 05/29/2013

FALI Job ID: 7104
Total Samples Submitted: 3
Total Samples Analyzed: 1

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7095-154A	50804076						
Layer: Black Non-Fibrous Material		Chrysotile	**2 %**				
Total Composite Values of Fibrous Components:		**Asbestos (2%)**					
Cellulose (Trace)							
7095-155A	50804077						
Comment: Sample not analyzed due to prior positive result in series.							
7095-156A	50804078						
Comment: Sample not analyzed due to prior positive result in series.							

Steven Takahashi, Laboratory Supervisor, Rancho Dominguez Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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EnviroQuest

PLM DATA SHEET

Project No.: 7095 Project Name: 710 North King Street Date: 5/29/13

Page: 1 of 1

Material Description: black sink mastic (Friable / Non-friable)

Sample No.	Location	% Asb.	Asb. Type
7095-154A	Farm		
-155A	King's Market 1st floor, sink		
-156A			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☒ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: (Friable / Non-friable)

Sample No.	Location	% Asb.	Asb. Type

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Sampled By: J. TUCDAN
DOH Cert No: 3431
Delivered to Lab By: FEDEX

Relinquished By/Date/Time:
Received By/Date/Time: J Carillo 5/30/13 1030 F/E

Relinquished By/Date/Time:
Received By/Date/Time:

TURNAROUND TIME: ☐ < 12 Hours ☐ 24 Hours ☒ 3 Days ☐ 5 Days ☐ _____

Surfacing	<1,000 ft² = 3 Samples	1,000 – 5,000 ft² = 5 Samples	>5,000 ft² = 7 Samples
TSI	Minimum of 3 Samples (Run) UNLESS	<6 in. or ft² = 1 Sample	Minimum of 3 Samples (Elbow & 'T')
Misc.	Minimum of 3 Samples (Hawaii)		

Surfacing	Sig. Damage = > 10% Dist. or 25% Local	Damaged = < 10% Dist. or 25% Local	Good = Very Limited Damage
TSI	Sig. Damage = 10% Missing Jacket OR > 10% Dist. or 25% Local	Damaged = < 10% Missing Jacket OR < 10% Dist. or 25% Local	Good = Very Limited Damage
Misc	Sig. Damage = > 10% Dist. or 25% Local	Damaged = < 10% Dist. or 25% Local	Good = Very Limited Damage

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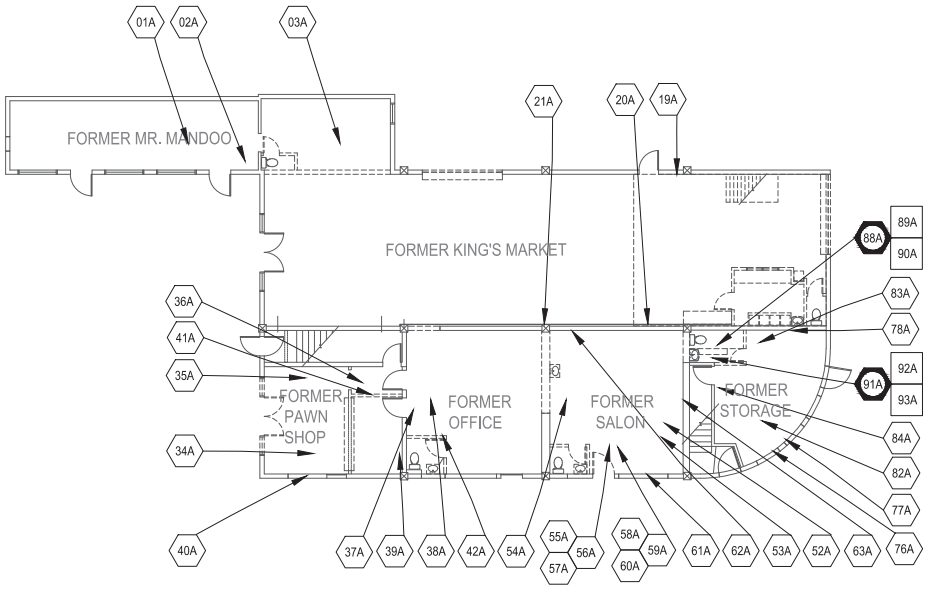
8-10-4-201 Sagamiono, Minami-ku, Sagamihara-shi, Kanagawa-ken 252-0303 Phone: (042) 851-5675



* NOT TO SCALE

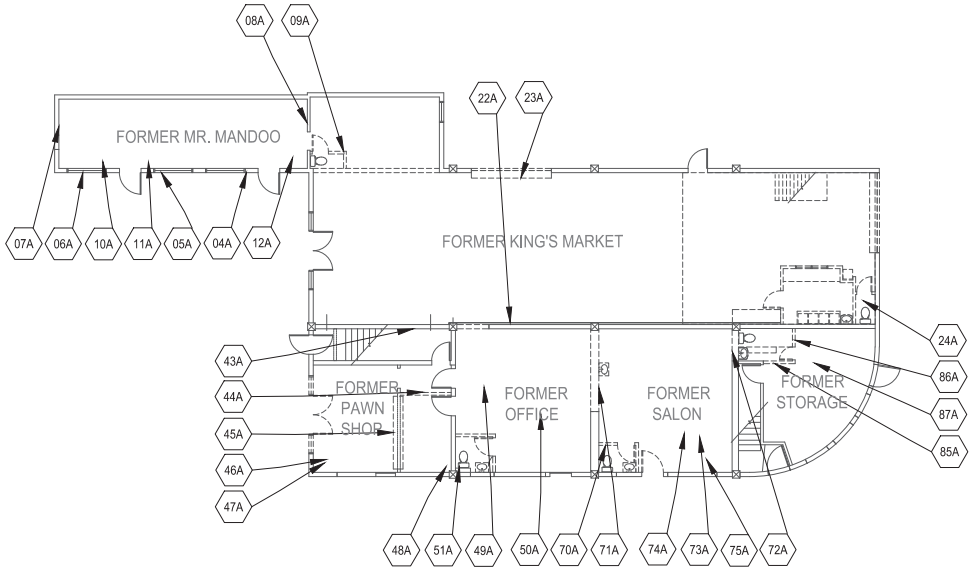
1ST FLOOR
FLOOR AND COVEBASE

EnviroQuest

ASBESTOS SAMPLE LOCATIONS
710 NORTH KING STREET
KALIHI PALAMA HEALTH CENTER

ACM LEGEND
No. BULK SAMPLE LOCATION (GREATER THAN 1 %)
No. BULK SAMPLE LOCATION (LESS THAN 1 %)
No. BULK SAMPLE LOCATION (NONE DETECTED)
No. BULK SAMPLE LOCATION (NOT ANALYZED)

DRAWN BY:	JT
CHECKED BY:	DLS
DATE:	MAY 2013
JOB NO.	7095
SHEET NO.	H-1



* NOT TO SCALE

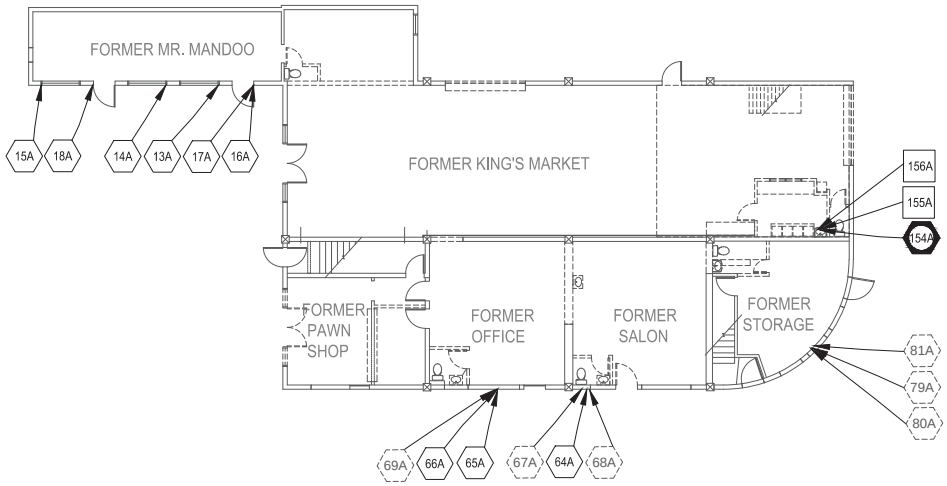
1ST FLOOR
WALLS AND CEILING

EnviroQuest

ASBESTOS SAMPLE LOCATIONS
710 NORTH KING STREET
KALIHI PALAMA HEALTH CENTER

ACM LEGEND
No. BULK SAMPLE LOCATION (GREATER THAN 1 %)
No. BULK SAMPLE LOCATION (LESS THAN 1 %)
No. BULK SAMPLE LOCATION (NONE DETECTED)
No. BULK SAMPLE LOCATION (NOT ANALYZED)

DRAWN BY:	JT
CHECKED BY:	DSL
DATE:	MAY 2013
JOB NO.	7095
SHEET NO.	H-2



1ST FLOOR
MISCELLANEOUS MATERIALS

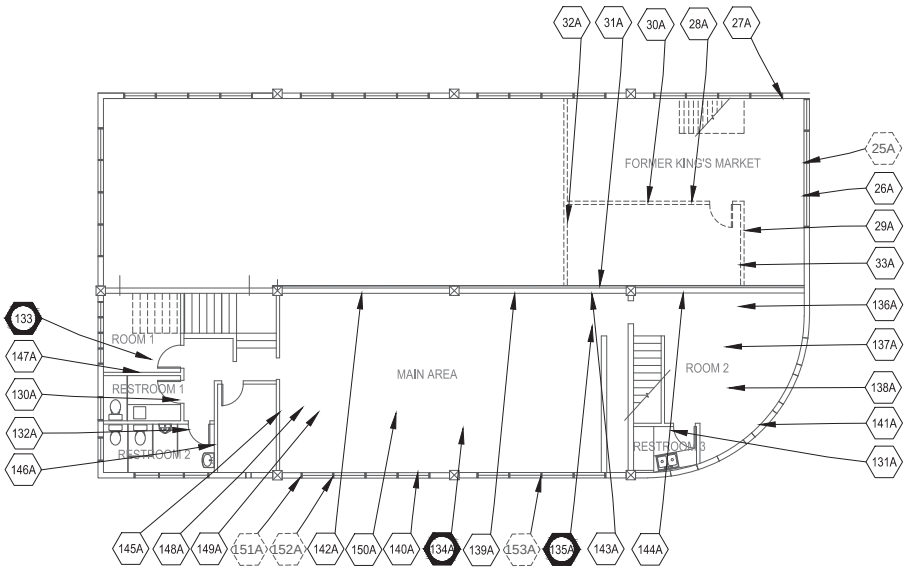
* NOT TO SCALE

EnviroQuest

ASBESTOS SAMPLE LOCATIONS
710 NORTH KING STREET
KALIHI PALAMA HEALTH CENTER

ACM LEGEND
No. BULK SAMPLE LOCATION (GREATER THAN 1 %)
No. BULK SAMPLE LOCATION (LESS THAN 1 %)
No. BULK SAMPLE LOCATION (NONE DETECTED)
No. BULK SAMPLE LOCATION (NOT ANALYZED)

DRAWN BY:	JT
CHECKED BY:	DSL
DATE:	MAY 2013
JOB NO.	7095
SHEET NO.	H-3



2ND FLOOR

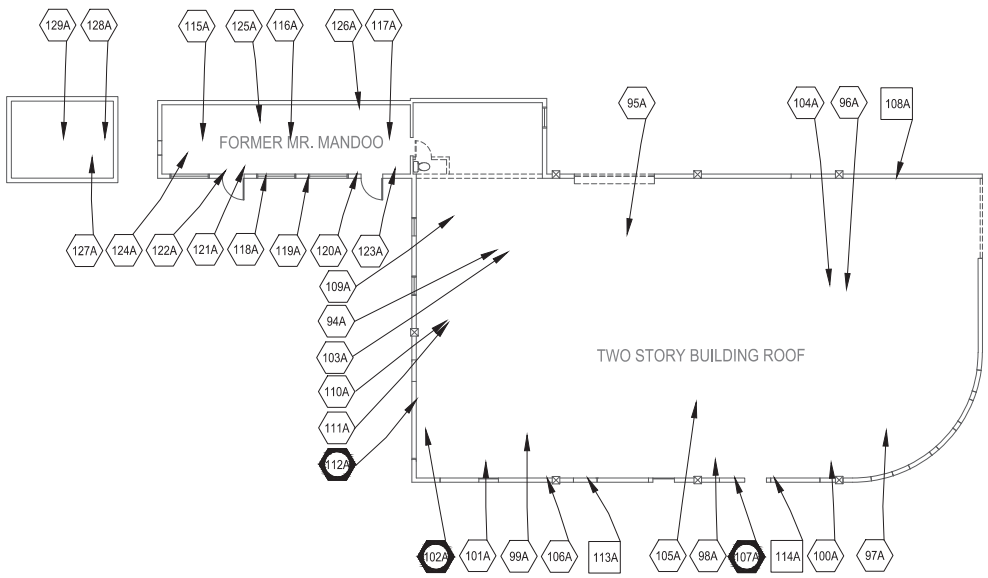
* NOT TO SCALE

EnviroQuest

ASBESTOS SAMPLE LOCATIONS
710 NORTH KING STREET
KALIHI PALAMA HEALTH CENTER

ACM LEGEND
No. BULK SAMPLE LOCATION (GREATER THAN 1 %)
No. BULK SAMPLE LOCATION (LESS THAN 1 %)
No. BULK SAMPLE LOCATION (NONE DETECTED)
No. BULK SAMPLE LOCATION (NOT ANALYZED)

DRAWN BY:	JT
CHECKED BY:	DSL
DATE:	MAY 2013
JOB NO.	7095
SHEET NO.	H-4



ROOF

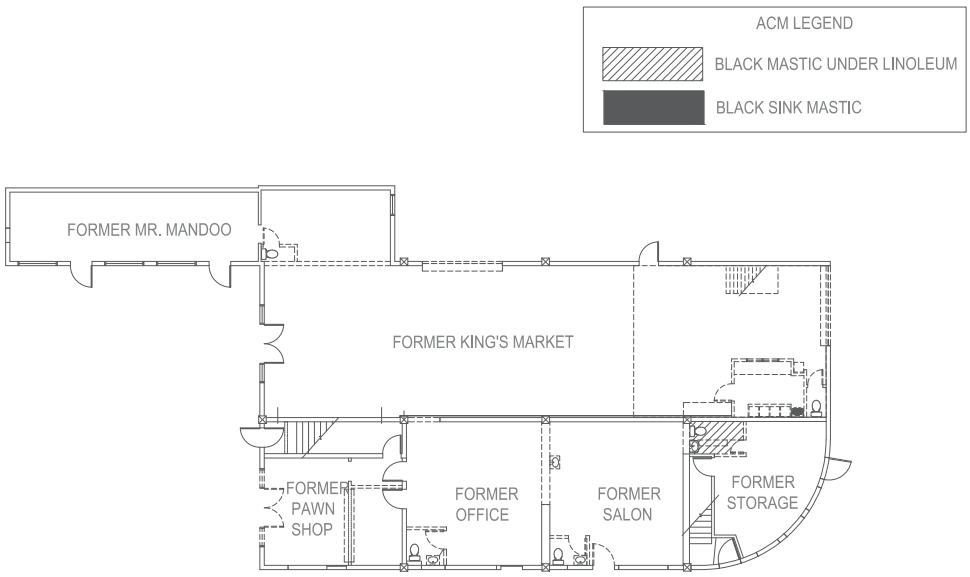
* NOT TO SCALE

EnviroQuest

ASBESTOS SAMPLE LOCATIONS
710 NORTH KING STREET
KALIHI PALAMA HEALTH CENTER

ACM LEGEND
No. BULK SAMPLE LOCATION (GREATER THAN 1 %)
No. BULK SAMPLE LOCATION (LESS THAN 1 %)
No. BULK SAMPLE LOCATION (NONE DETECTED)
No. BULK SAMPLE LOCATION (NOT ANALYZED)

DRAWN BY:	JT
CHECKED BY:	DSL
DATE:	MAY 2013
JOB NO.	7095
SHEET NO.	H-5



1ST FLOOR

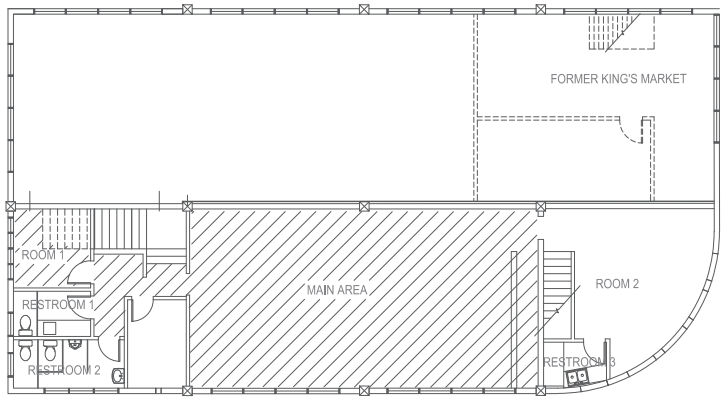
* NOT TO SCALE

EnviroQuest

HOMOGENEOUS MATERIAL LOCATIONS
710 NORTH KING STREET
KALIHI PALAMA HEALTH CENTER

ASBESTOS

DRAWN BY:	JT
CHECKED BY:	DSL
DATE:	MAY 2013
JOB NO.	7095
SHEET NO.	H-6



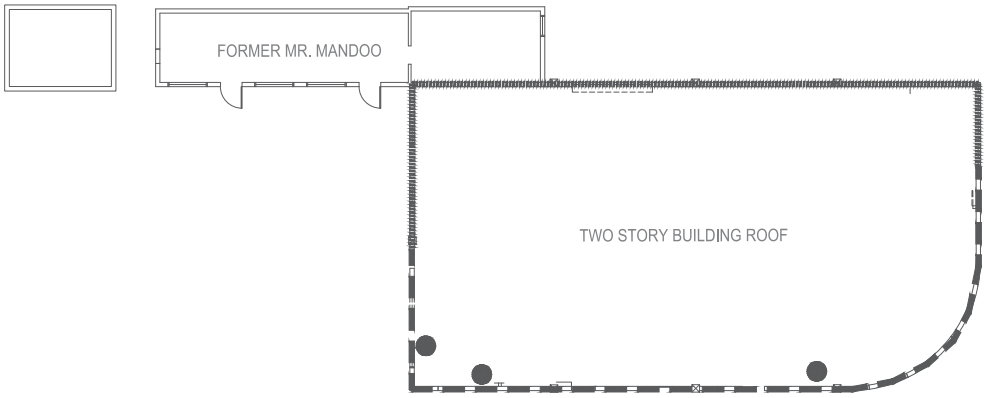
2ND FLOOR

* NOT TO SCALE

EnviroQuest

HOMOGENEOUS MATERIAL LOCATIONS
710 NORTH KING STREET
KALIHI PALAMA HEALTH CENTER
ASBSETOS

DRAWN BY:	JT
CHECKED BY:	DSL
DATE:	MAY 2013
JOB NO.	7095
SHEET NO.	H-7



ROOF

* NOT TO SCALE

EnviroQuest

HOMOGENEOUS MATERIAL LOCATIONS
710 NORTH KING STREET
KALIHI PALAMA HEALTH CENTER
ASBESTOS

DRAWN BY:	JT
CHECKED BY:	DSL
DATE:	MAY 2013
JOB NO.	7095
SHEET NO.	H-8

Lead
Laboratory Analytical Report
Drawings

Appendix 2

EnviroQuest, Inc.

Hygeia Laboratories

Analytical Report

May 20, 2013

AIHA LAP, LLC
ACCREDITED LABORATORY
ENVIRONMENTAL LEAD
ISO/IEC 17025:2005
www.aihaaccreditedlabs.org
LAB #101658

Mr. Jason Turban
EnviroQuest, Inc
98-029 Hekaha St., Bldg.5, Ste 21
Aiea, HI 96701-4917

Hygeia Reference No.: **25855 13 0101**
Date Sampled: May 14, 2013
Date Received: May 16, 2013
Date Analyzed: May 20, 2013
Analyst: Nahid Motamedi

Client Ref.: 7095 710 King Street
Samples and data provided by: Jason Turban
Analyte: TTLC Lead **Analytical Method:** EPA 7420 **Detection Limit:** 25 ppm **Samples Analyzed:** 35
Sample Matrix: paint/bulk **Digestion Method:** EPA 3050B **Reporting Limit:** 100 ppm *Sample Condition Acceptable* ☑

Hygeia Sample ID	Client Sample ID	TTLC Lead Conc. (ppm)	TTLC Lead Conc. (wt%)
1358354	7095-01L	<100	<0.01
1358355	7095-02L	<100	<0.01
1358356	7095-03L	<100	<0.01
1358357	7095-04L	<100	<0.01
1358358	7095-05L	<100	<0.01
1358359	7095-06L	<100	<0.01
1358360	7095-07L	<100	<0.01
1358361	7095-08L	<100	<0.01
1358362	7095-09L	<100	<0.01
1358363	7095-10L	<100	<0.01
1358364	7095-11L	<100	<0.01
1358365	7095-12L	133	0.013
1358366	7095-13L	<100	<0.01
1358367	7095-14L	13770	1.38
1358368	7095-15L	<100	<0.01
1358369	7095-16L	1115	0.112
1358370	7095-17L	<100	<0.01
1358371	7095-18L	<100	<0.01
1358372	7095-19L	<100	<0.01
1358373	7095-20L	<100	<0.01
1358374	7095-21L	<100	<0.01

Hygeia Laboratories

Analytical Report

May 20, 2013

Hygeia Reference No.: 25855 13 0101
Client Reference: 7095 710 King Street

Hygeia Sample ID	Client Sample ID	TTLC Lead Conc. (ppm)	TTLC Lead Conc. (wt%)
1358375	7095-22L	1121	0.112
1358376	7095-23L	<100	<0.01
1358377	7095-24L	<100	<0.01
1358378	7095-25L	913	0.091
1358379	7095-26L	1346	0.135
1358380	7095-27L	336	0.034
1358381	7095-28L	2130	0.213
1358382	7095-29L	1477	0.148
1358383	7095-30L	<100	<0.01
1358384	7095-31L	<100	<0.01
1358385	7095-32L	<100	<0.01
1358386	7095-33L	<100	<0.01
1358387	7095-34L	241	0.024
1358388	7095-35L	1430	0.143

ppm = parts per million = mg/kg

Nahid Motamedi

Supervisor of Chemistry Laboratory
Nahid Motamedi

nm

Sample results have not been blank corrected. All quality control results meet the QC requirements of AIHA ELLAP. This report only pertains to the samples investigated and does not apply to other similar material. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without authorization is prohibited.

25855 13 0101

EnviroQuest

MISCELLANEOUS BULK DATA SHEET

Project Name: 710 King Street
Location:
Page: 1/5
Date: 5/14/13
Project No.: 7095

Turnaround Time: ☐<12 Hrs ☐24 Hrs ☐48 Hrs ☒3 Days ☐5 Days ☐Other:

Analysis: ☐TCLP Lead ☐TCLP RCRA 8 ☒Total Lead ☐Micro ID (spore) ☐ ☐ ☐

Sampling Media: ☒Bulk ☐Soil ☐Swab ☐Tape ☐Vacuum ☐Water ☐Wipe ☐ ☐

	Sample #	Building	Int/ Ext	Flr.	Room	Component	Substrate	Color	% of Waste Stream	Area / Vol	Result
1	7095-01L	Mr Manic	int		Main	Wall	CMU	blue			
					Mr in Main						
2	-02L	"	"		Main	Wall	CMU	White			
					elsen back room						
3	-03L	"	"		Main	Ceiling	drywall	tan			
					elsen back						
4	-04L	"	ext			door frame	Wood	brown			
5	-05L	"	ext			eaves fascia	Wood	beige			
6	-06L	Market	int			Post	Wood	off-white			
7	-07L	"	"		1A2	Wall	drywall	off-white			

Sampled By: J. Turgan
Delivered to Lab By: FEDEX
Relinquished By/Date/Time: 5.16.13 9:25 AM
Received By/Date/Time
Relinquished By/Date/Time
Received By/Date/Time
Analyzed By: 5-20-13
Date Analyzed: n/

SEND ALL CORRESPONDENCE TO: ☐FAX: 808.486.5889 ☐E-mail: eqi@enviroquestinc.com

98-029 Hekaha Street, Suite 21, Aiea, HI 96701 Phone: (808) 486-5881 Fax: (808) 486-5889 E-mail: eqi@enviroquestinc.com

25855 13 0101

EnviroQuest

MISCELLANEOUS BULK DATA SHEET

Project Name: 710 King Street

Page: 2/5

Date: 5/14/13

Location:

Project No.:

Turnaround Time: ☐<12 Hrs ☐24 Hrs ☐48 Hrs ☑3 Days ☐5 Days ☐Other:

Analysis:
☐TCLP Lead ☐Micro ID (spore)
☐TCLP RCRA 8 ☐
☑Total Lead ☐

Sampling Media:
☑Bulk ☐Tape ☐Wipe
☐Soil ☐Vacuum ☐
☐Swab ☐Water ☐

	Sample #	Building	Int/ Ext	Flr.	Room	Component	Substrate	Color	% of Waste Stream	Area / Vol	Result
1	7095-08L	Market	int	1		wall	CMU	white			
2	-09L	"	"	1		wall	CMU	red			
3	-10L	"	"	1		wall	CMU	green			
4	-11L	"	"	1		"	"	orange			
5	-12L	"	"	1		door/frame	wood	brown			
6	-13L	McMarket	"			shingle	plastic	blue			
7	-14L	Market		2		ceiling	wood	green			

Sampled By:	Relinquished By/Date/Time	Relinquished By/Date/Time	Analyzed By
Delivered to Lab By: Fed ex	Received By/Date/Time 5.16.13 9:25 Am	Received By/Date/Time	Date Analyzed 5-20-13

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25855 13 0101

EnviroQuest

MISCELLANEOUS BULK DATA SHEET

Project Name: 710 King St

Page: 3/5

Date: 5/14/13

Location:

Project No.:

Turnaround Time: ☐<12 Hrs ☐24 Hrs ☐48 Hrs ☑3 Days ☐5 Days ☐Other:

Analysis:
☐TCLP Lead ☐Micro ID (spore)
☐TCLP RCRA 8 ☐
☑Total Lead ☐

Sampling Media:
☐Bulk ☐Tape ☐Wipe
☐Soil ☐Vacuum ☐
☐Swab ☐Water ☐

	Sample #	Building	Int/ Ext	Flr.	Room	Component	Substrate	Color	% of Waste Stream	Area / Vol	Result
1	7095-15L	Market	ext			shingle	metal	~~black~~ gray			
2	-16L	"	"			wall	CMU	legoy ~~black~~ black			
3	-17L	"	"			curb	concrete	yellow			
4	-18L	"	"			eave	wood	gray			
5	-19L	office	int			wall	CMU, drywall	white			
6	-20L	"	int			door/frame	wood	gray			
7	-21L	"	"			ceiling	plaster	white			

Sampled By:	Relinquished By/Date/Time	Relinquished By/Date/Time	Analyzed By
Delivered to Lab By: Fed ex	Received By/Date/Time 5.16.13 9:25Am	Received By/Date/Time	Date Analyzed 5-20-13

SEND ALL CORRESPONDENCE TO: ☐*FAX: 808.486.5889* ☐*E-mail: eqi@enviroquestinc.com*

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25855 13 0101

EnviroQuest

MISCELLANEOUS BULK DATA SHEET

Project Name: 710 King St

Page: 4/5

Date:

Location:

Project No.:

Turnaround Time: ☐<12 Hrs ☐24 Hrs ☐48 Hrs ☑3 Days ☐5 Days ☐Other:

Analysis:
☐TCLP Lead ☐Micro ID (spore)
☐TCLP RCRA 8 ☐
☐Total Lead ☑

Sampling Media:
☑Bulk ☐Tape ☐Wipe
☐Soil ☐Vacuum ☐
☐Swab ☐Water ☐

	Sample #	Building	Int/ Ext	Flr.	Room	Component	Substrate	Color	% of Waste Stream	Area / Vol	Result
1	7095.22L	office	int		Storage	door frame	wood	brown			
2	-23L	"	"		restroom	wall or ceiling	plaster	pink			
3	-24L	"	ext			fascia	wood	white			
4	-25L	"	"			column	concrete	light gray	poor		
5	-26L	"	"			downspout	metal	light gray			
6	-27L	salon	int			electrical panel	metal	gray			
7	-28L	"	ext			window frame	metal	red			

Sampled By:	Relinquished By/Date/Time	Relinquished By/Date/Time	Analyzed By
Delivered to Lab By: Fed ex	Received By/Date/Time 5.16.13 9:25Am	Received By/Date/Time	Date Analyzed 5-20-13

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25855 130101

EnviroQuest

MISCELLANEOUS BULK DATA SHEET

Project Name:

Page: 5/5

Date: 5/14/13

Location:

Project No.: 7095

Turnaround Time: ☐<12 Hrs ☐24 Hrs ☐48 Hrs ☐3 Days ☐5 Days ☐Other:

Analysis:
☐TCLP Lead ☐Micro ID (spore)
☐TCLP RCRA 8 ☐
☐Total Lead ☐

Sampling Media:
☐Bulk ☐Tape ☐Wipe
☐Soil ☐Vacuum ☐
☐Swab ☐Water ☐

	Sample #	Building	Int/ Ext	Flr.	Room	Component	Substrate	Color	% of Waste Stream	Area / Vol	Result
1	7095.29L	Salon	ext			window sill	metal	white			
2	-30L	"	int			wall	CMU, drywall	white			
3	-31L	Storage	int			wall	CMU	white			
4	-32L	"	"			"	drywall	"			
5	-33L	"	"			door frame	wood	blue			
6	-34L	"	ext			window system	metal	bronze			
7	-35L	salon	ext			CMU	wall	light gray/ tan			

Sampled By:	Relinquished By/Date/Time	Relinquished By/Date/Time	Analyzed By
Delivered to Lab By: Fed ex	Received By/Date/Time 5.16.13 9:25Am	Received By/Date/Time	Date Analyzed 5-20-13

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Hygeia Laboratories

Analytical Report

May 20, 2013

AIHA LAP, LLC
ACCREDITED LABORATORY
ENVIRONMENTAL LEAD
ISO/IEC 17025:2005
www.aihaaccreditedlabs.org
LAB #101658

Mr. Jason Turban
EnviroQuest, Inc
98-029 Hekaha St., Bldg.5, Ste 21
Aiea, HI 96701-4917

Hygeia Reference No.: **25855 13 0106**
Date Sampled: May 15, 2013
Date Received: May 17, 2013
Date Analyzed: May 20, 2013
Analyst: Nahid Motamedi

Client Ref.: 7095 710 N. King Street, Honolulu

Samples and data provided by: Jason Turban

Analyte: TTLC Lead **Analytical Method:** EPA 7420 **Detection Limit:** 25 ppm **Samples Analyzed:** 5

Sample Matrix: paint/bulk **Digestion Method:** EPA 3050B **Reporting Limit:** 100 ppm *Sample Condition Acceptable* ☑

Hygeia Sample ID	Client Sample ID	TTLC Lead Conc. (ppm)	TTLC Lead Conc. (wt%)
1358641	7095-36L	<100	<0.01
1358642	7095-37L	<100	<0.01
1358643	7095-38L	<100	<0.01
1358644	7095-39L	101	0.01
1358645	7095-40L	127	0.013

ppm = parts per million = mg/kg

Nahid Motamedi

Supervisor of Chemistry Laboratory
Nahid Motamedi

nm

Sample results have not been blank corrected. All quality control results meet the QC requirements of AIHA ELLAP. This report only pertains to the samples investigated and does not apply to other similar material. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without authorization is prohibited.

25855 13 0106

EnviroQuest

MISCELLANEOUS BULK DATA SHEET

Project Name: 710 N. King St.
Location: Honolulu, HI
Page: 1/1
Date: 5/15/13
Project No.: 7095
Other:

Turnaround Time: ☐<12 Hrs ☐24 Hrs ☐48 Hrs ☑3 Days ☐5 Days

Analysis: ☐TCLP Lead ☐TCLP RCRA 8 ☑Total Lead ☐Micro ID (spore)

Sampling Media: ☑Bulk ☐Soil ☐Swab ☐Tape ☐Vacuum ☐Water ☐Wipe

	Sample #	Building	Int/ Ext	Flr.	Room	Component	Substrate	Color	% of Waste Stream	Area / Vol	Result
1	7095-36L	Chinatown		2		wall	drywall	white			
2	-37L	"		4		wall	plaster	white			
3	-38L	"		4		wall	CMU	white/green			
4	-39L	"		"		door frame	wood	white			
5	-40L	"		"		door	vinyl	white			
6											
7											

Sampled By: Delivered to Lab By: FedEx
Relinquished By/Date/Time: Received By/Date/Time: 5.17.13 9:20AM
Relinquished By/Date/Time: Received By/Date/Time:
Analyzed By: Date Analyzed: 5-20-2013

SEND ALL CORRESPONDENCE TO: _____ ☐FAX: 808.486.5889 ☐E-mail: eqi@enviroquestinc.com

98-029 Hekaha Street, Suite 21, Aiea, HI 96701 Phone: (808) 486-5881 Fax: (808) 486-5889 E-mail: eqi@enviroquestinc.com

Arsenic
Laboratory Analytical Report

Appendix 3

EnviroQuest, Inc.

Final Report

Forensic Analytical Laboratories

Metals Analysis of Bulks

EnviroQuest, Inc.
Steve Tanaka
98-029 Hekaha Street
Suite 21
Aiea, HI 96701

Client ID: 7104
Report Number: M139139
Date Received: 05/17/13
Date Analyzed: 05/21/13
Date Printed: 05/22/13
First Reported: 05/22/13

Job ID / Site: 7095, 710 N. King Street, Honolulu, HI
Date(s) Collected:05/15/13

FALI Job ID: 7104
Total Samples Submitted: 1
Total Samples Analyzed: 1

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
7095-01AS	30465252	As	95	mg/kg	4	EPA 3050B/6010B

* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.

Daniele Siu

Daniele Siu, Laboratory Supervisor, Hayward Laboratory

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3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

EnviroQuest

MISCELLANEOUS BULK DATA SHEET

Project Name: 710 N. King Street

Page: 16

Date: 5/15/13

Location: Honolulu, HI

Project No.: 7095

Turnaround Time: ☐<12 Hrs ☐24 Hrs ☐48 Hrs ☑3 Days ☐5 Days ☐Other:

Analysis:
- ☐TCLP Lead
- ☐TCLP RCRA 8
- ☐Total Lead
- ☐Micro ID (spore)
- ☑ Total arsenic
- ☐

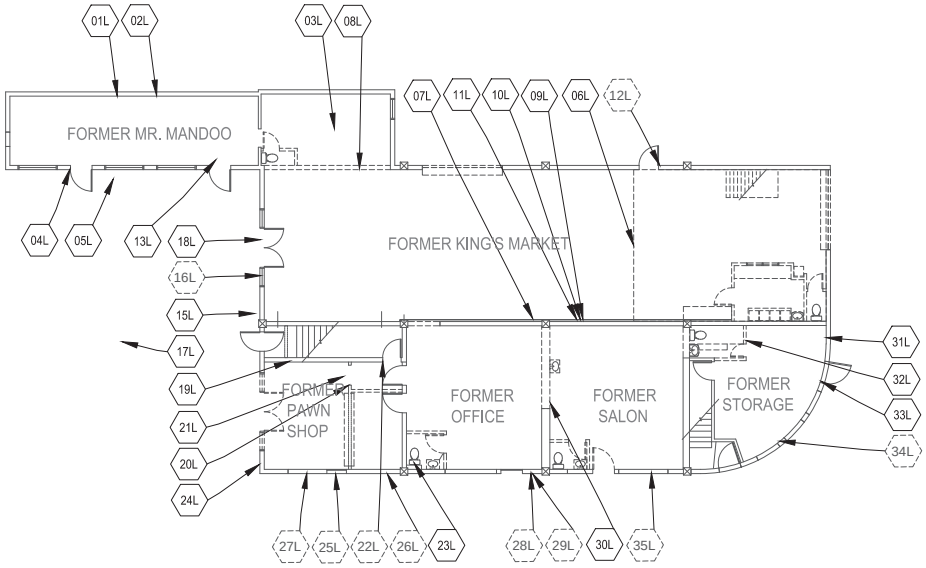
Sampling Media:
- ☑Bulk
- ☐Soil
- ☐Swab
- ☐Tape
- ☐Vacuum
- ☐Water
- ☐Wipe
- ☐

	Sample #	Building	Int/ Ext	Flr.	Room	Component	Substrate	Color	% of Waste Stream	Area / Vol	Result
1	7095-01A	Composite of Caulking in 2nd Floor Main area									
2											
3											
4											
5											
6											
7											

Sampled By:	Relinquished By/Date/Time	Relinquished By/Date/Time	Analyzed By
J.T URBAN			
Delivered to Lab By:	**Received By/Date/Time**	**Received By/Date/Time**	**Date Analyzed**
FEDEX	Dillon Kelly FX 5/17/13 10:30AM		

SEND ALL CORRESPONDENCE TO: ☐FAX: 808.486.5889 ☐E-mail: eqi@enviroquestinc.com

98-029 Hekaha Street, Suite 21, Aiea, HI 96701 Phone: (808) 486-5881 Fax: (808) 486-5889 E-mail: eqi@enviroquestinc.com



1ST FLOOR

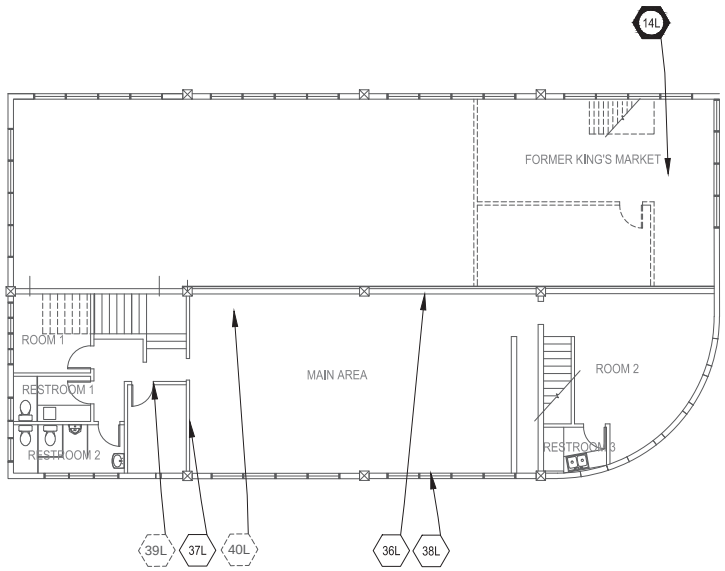
* NOT TO SCALE

EnviroQuest

PAINT CHIP SAMPLE LOCATIONS
710 NORTH KING STREET
KALIHI PALAMA HEALTH CENTER

LBP LEGEND
- No. PAINT SAMPLE LOCATION (GREATER THAN 0.5% BY WEIGHT)
- No. PAINT SAMPLE LOCATION (LESS THAN 0.5% BY WEIGHT)
- No. PAINT SAMPLE LOCATION (LESS THAN DETECTION LIMIT)
- No. BULK SAMPLE LOCATION (NOT ANALYZED)

DRAWN BY:	JT
CHECKED BY:	DSL
DATE:	MAY 2013
JOB NO.	7095
SHEET NO.	H-9



2ND FLOOR

* NOT TO SCALE

EnviroQuest

PAINT CHIP SAMPLE LOCATIONS
710 NORTH KING STREET
KALIHI PALAMA HEALTH CENTER

LBP LEGEND

No. PAINT SAMPLE LOCATION (GREATER THAN 0.5% BY WEIGHT)

No. PAINT SAMPLE LOCATION (LESS THAN 0.5% BY WEIGHT)

No. PAINT SAMPLE LOCATION (LESS THAN DETECTION LIMIT)

No. BULK SAMPLE LOCATION (NOT ANALYZED)

DRAWN BY:	JT
CHECKED BY:	DSL
DATE:	MAY 2013
JOB NO.	7095
SHEET NO.	H-10

Appendix 4

PCBs
Letter

EnviroQuest, Inc.

Hawaiian Electric Company. • PO Box 2750 • Honolulu, HI 96840-0001

TSC 2.5.1 (HECO)
Due Diligence Inquiries

May 16, 2013

Mr. David Leigh
EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea, Hawaii 96701

Re: Transformer Information; 710 North King Street, Honolulu

Mr. Leigh:

In response to your request for information regarding HECO transformers at the above referenced location, we provide the following information:

Pole / Vault Number	Transformer Number	Address	Date Purchased	PCB Status
P2	70557	1010 Pua Lane	11/01/99	Non PCB
	70558			
	70559			

If you have any other questions, please contact me at 543-4517.

Sincerely,

Virgil Kong
Environmental Scientist

Appendix 5

ACCU LABORATORY

14204 21st Street
Bellevue ,WA 98007
Tel: 425-214-5858
Fax: 425-214-5868
Email:lisa@accu-lab.com
www.accu-lab.com

Analytical Report

Client	Advanced Analytical Laboratory 3210 Koapaka Street #A 96819 Honolulu HI	**Acculab WO#**	**13-AL0517-1**
		Date Sampled	**5/15/2013**
Project Manager	Uwe Baumgartner/ Elisa Young	**Date Received**	**5/17/2013**
Project Name	**710 North Kind Street**	**Date Reported**	**5/21/2013**
Project#	**M114**		

Metals By EPA 6020A/EPA 3050B

Accu Lab analytical Batch# AL051713-3
Accu Laboratory ID 13-AL0517-1-1

Client sample ID 7095-01S

Matrix: *Soil* ***Moisture:*** *7.2%*

Analyte	PQL	Unit	**Result**	Dilution Factor	Date Digested	Date Analyzed	Note
Total Lead (Pb)	1.0	mg/Kg	**9.6**	500	5/17/2013	5/20/2013	

Accu Lab analytical Batch# AL051713-3
Accu Laboratory ID 13-AL0517-1-2

Client sample ID 7095-02S

Matrix: *Soil* ***Moisture:*** *7.6%*

Analyte	PQL	Unit	**Result**	Dilution Factor	Date Digested	Date Analyzed	Note
Total Lead (Pb)	1.0	mg/Kg	**27**	500	5/17/2013	5/20/2013	

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Analytical Report

Client	Advanced Analytical Laboratory 3210 Koapaka Street #A 96819 Honolulu HI	**Acculab WO#**	**13-AL0517-1**
		Date Sampled	**5/15/2013**
Project Manager	Uwe Baumgartner/ Elisa Young	**Date Received**	**5/17/2013**
Project Name	**710 North Kind Street**	**Date Reported**	**5/21/2013**
Project#	**M114**		

Metals By EPA 6020A/EPA 3050B

QC Report

Accu Lab analytical Batch# AL051713-3

Method Blank ***Matrix:*** *Soil*

Analyte	PQL	Unit	**Result**	Dilution Factor	Date Digested	Date Analyzed	Note
Total Lead (Pb)	1.0	mg/Kg	**nd**	500	5/17/2013	5/20/2013	

Accu Lab analytical Batch# AL051713-3

Laboratory Control Sample (LCS) ***Matrix:*** *Soil*

Analyte	PQL	Unit	**Result**	Amount Spiked	% Recovery	Dilution Factor	Date Digested	Date Analyzed	Note
Total Lead (Pb)	1.0	mg/Kg	**53**	50	106%	500	5/17/2013	5/20/2013	

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Analytical Report

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		Date Sampled	**5/15/2013**
Project Manager	Uwe Baumgartner/ Elisa Young	**Date Received**	**5/17/2013**
Project Name	**710 North Kind Street**	**Date Reported**	**5/21/2013**
Project#	**M114**		

Metals By EPA 6020A/EPA 3050B

Accu Lab analytical Batch# AL051713-3

Matrix Spike (MS) **Area 4 Sample 2** ***Matrix:*** *Soil* ***Moisture:*** *14%*

Analyte	PQL	Unit	**Result**	Amount Spiked	% Recovery	Dilution Factor	Date Digested	Date Analyzed	Note
Total Lead (Pb)	1.0	mg/Kg	**26**	25	104%	500	5/17/2013	5/20/2013	

Accu Lab analytical Batch# AL051713-3

Matrix Spike Dup (MSD) **Area 4 Sample 2** ***Matrix:*** *Soil* ***Moisture:*** *14%*

Analyte	PQL	Unit	**Result**	Amount Spiked	% Recovery	RPD	Dilution Factor	Date Digested	Date Analyzed
Total Lead (Pb)	1.0	mg/Kg	**28**	25	112%	7%	500	5/17/2013	5/20/2013

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Analytical Report

Client	Advanced Analytical Laboratory 3210 Koapaka Street #A 96819 Honolulu HI	**Acculab WO#**	**13-AL0517-1**
		Date Sampled	**5/15/2013**
Project Manager	Uwe Baumgartner/ Elisa Young	**Date Received**	**5/17/2013**
Project Name	**710 North Kind Street**	**Date Reported**	**5/21/2013**
Project#	**M114**		

Metals By EPA 6020A/EPA 3050B

PQL- Practical Quantitation Limit
nd- Indicates the analyte is not detected at the listing reporting limit.
C- Coelution with other compounds.
M- % recoveries of matrix spike and matrix spike duplicate are out of the acceptable limit due to matrix effect.
B- Indicates the analyte is detected in the method blank associated with the sample.
J- The analyte is detected at below the reporting limit.
E- The result reported exceeds the calibration range, and is an estimate.
D- Sample required dilution due to matrix.
H- Sample was received or analyzed past holding time
Q- Sample was received with head space, improper preserved or above recommended temperature.

Results reported on dry-weight basis.

Acceptable Recovery Limits: LCS/MS/MSD **70-130%**
Acceptable RPD limit: **30%**

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Analytical Report

Client	Advanced Analytical Laboratory	**Acculab WO#**	**13-AL0517-1**
	3210 Koapaka Street #A		
	96819 Honolulu HI	**Date Sampled**	**5/15/2013**
Project Manager	Uwe Baumgartner/ Elisa Young	**Date Received**	**5/17/2013**
Project Name	**710 North Kind Street**	**Date Reported**	**5/21/2013**
Project#	**M114**		

Organochlorine Pesticides By EPA 8081B/3550C

Accu Lab analytical Batch# AL052013-1
Accu Laboratory ID 13-AL00517-1-1

Client sample ID **7095-01S**

Matrix: *Soil* ***Moisture:*** *7.2%*

Analyte	PQL	Unit	**Result**	Dilution Factor	Date Extracted	Date Analyzed	Note
α-BHC	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
γ-BHC (Lindane)	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
β-BHC	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Heptachlor	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
δ-BHC	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Aldrin	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Heptachlor Epoxide	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Endosulfan I	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
4,4'-DDE	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Dieldrin	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Endrin	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
4,4'-DDD	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Endosulfan II	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
4,4'-DDT	2.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Endrin Aldehyde	4.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Methoxychlor	5.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Endrin Ketone	2.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Endosulfan Sulfate	2.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Technical Chlordane	100	ug/Kg	**nd**	1	5/20/2013	5/20/2013	

Surrogate Recoveries

Decachlorobiphenyl	76%
Tetrachloro-m-xylene	87%

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Analytical Report

Client	Advanced Analytical Laboratory	**Acculab WO#**	**13-AL0517-1**
	3210 Koapaka Street #A		
	96819 Honolulu HI	**Date Sampled**	**5/15/2013**
Project Manager	Uwe Baumgartner/ Elisa Young	**Date Received**	**5/17/2013**
Project Name	**710 North Kind Street**	**Date Reported**	**5/21/2013**
Project#	**M114**		

Organochlorine Pesticides By EPA 8081B/3550C

Accu Lab analytical Batch# AL052013-1
Accu Laboratory ID 13-AL00517-1-2

Client sample ID **7095-02S**

Matrix: *Soil* ***Moisture:*** *7.6%*

Analyte	PQL	Unit	**Result**	Dilution Factor	Date Extracted	Date Analyzed	Note
α-BHC	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
γ-BHC (Lindane)	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
β-BHC	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Heptachlor	1.0	ug/Kg	**160**	100	5/20/2013	5/20/2013	
δ-BHC	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Aldrin	1.0	ug/Kg	**130**	1	5/20/2013	5/20/2013	
Heptachlor Epoxide	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Endosulfan I	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
4,4'-DDE	1.0	ug/Kg	**97**	1	5/20/2013	5/20/2013	
Dieldrin	1.0	ug/Kg	**1500**	100	5/20/2013	5/20/2013	
Endrin	1.0	ug/Kg	**70**	1	5/20/2013	5/20/2013	
4,4'-DDD	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Endosulfan II	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
4,4'-DDT	2.0	ug/Kg	**34**	1	5/20/2013	5/20/2013	
Endrin Aldehyde	4.0	ug/Kg	**23**	1	5/20/2013	5/20/2013	
Methoxychlor	5.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Endrin Ketone	2.0	ug/Kg	**20**	1	5/20/2013	5/20/2013	
Endosulfan Sulfate	2.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Technical Chlordane	200	ug/Kg	**17000**	1	5/20/2013	5/20/2013	

Surrogate Recoveries

Decachlorobiphenyl	91%
Tetrachloro-m-xylene	87%

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Analytical Report

Client	Advanced Analytical Laboratory	**Acculab WO#**	**13-AL0517-1**
	3210 Koapaka Street #A		
	96819 Honolulu HI	**Date Sampled**	**5/15/2013**
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Project Name	**710 North Kind Street**	**Date Reported**	**5/21/2013**
Project#	**M114**		

Organochlorine Pesticides By EPA 8081B/3550C

QC Report

Accu Lab analytical Batch# AL052013-1

Method Blank ***Matrix:*** *Soil*

Analyte	PQL	Unit	**Result**	Dilution Factor	Date Extracted	Date Analyzed	Note
α-BHC	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
γ-BHC (Lindane)	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
β-BHC	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Heptachlor	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
δ-BHC	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Aldrin	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Heptachlor Epoxide	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Endosulfan I	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
4,4'-DDE	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Dieldrin	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Endrin	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
4,4'-DDD	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Endosulfan II	1.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
4,4'-DDT	2.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Endrin Aldehyde	4.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Methoxychlor	5.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Endrin Ketone	2.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Endosulfan Sulfate	2.0	ug/Kg	**nd**	1	5/20/2013	5/20/2013	
Technical Chlordane	100	ug/Kg	**nd**	1	5/20/2013	5/20/2013	

Surrogate Recoveries

Decachlorobiphenyl	128%
Tetrachloro-m-xylene	114%

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Analytical Report

Client	Advanced Analytical Laboratory	**Acculab WO#**	**13-AL0517-1**
	3210 Koapaka Street #A		
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Project Manager	Uwe Baumgartner/ Elisa Young	**Date Received**	**5/17/2013**
Project Name	**710 North Kind Street**	**Date Reported**	**5/21/2013**
Project#	**M114**		

Organochlorine Pesticides By EPA 8081B/3550C

Accu Lab analytical Batch# AL052013-1

Laboratory Control Sample (LCS) ***Matrix:*** *Soil*

Analyte	PQL	Unit	**Result**	Amount Spiked	% Recovery	Date Extracted	Date Analyzed	Note
α-BHC	1.0	ug/Kg				5/20/2013	5/20/2013	
γ-BHC (Lindane)	1.0	ug/Kg	**22**	25	87%	5/20/2013	5/20/2013	
β-BHC	1.0	ug/Kg				5/20/2013	5/20/2013	
Heptachlor	1.0	ug/Kg	**25**	25	99%	5/20/2013	5/20/2013	
δ-BHC	1.0	ug/Kg				5/20/2013	5/20/2013	
Aldrin	1.0	ug/Kg	**23**	25	90%	5/20/2013	5/20/2013	
Heptachlor Epoxide	1.0	ug/Kg				5/20/2013	5/20/2013	
Endosulfan I	1.0	ug/Kg				5/20/2013	5/20/2013	
4,4'-DDE	1.0	ug/Kg				5/20/2013	5/20/2013	
Dieldrin	1.0	ug/Kg	**64**	50	128%	5/20/2013	5/20/2013	
Endrin	1.0	ug/Kg	**58**	50	116%	5/20/2013	5/20/2013	
4,4'-DDD	1.0	ug/Kg				5/20/2013	5/20/2013	
Endosulfan II	1.0	ug/Kg				5/20/2013	5/20/2013	
4,4'-DDT	2.0	ug/Kg	**48**	50	96%	5/20/2013	5/20/2013	
Endrin Aldehyde	4.0	ug/Kg				5/20/2013	5/20/2013	
Methoxychlor	5.0	ug/Kg				5/20/2013	5/20/2013	
Endrin Ketone	2.0	ug/Kg				5/20/2013	5/20/2013	
Endosulfan Sulfate	2.0	ug/Kg				5/20/2013	5/20/2013	
Techincal Chlordane	100	ug/Kg				5/20/2013	5/20/2013	

Surrogate Recoveries

Decachlorobiphenyl	97%
Tetrachloro-m-xylene	94%

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Analytical Report

Client	Advanced Analytical Laboratory	**Acculab WO#**	**13-AL0517-1**
	3210 Koapaka Street #A		
	96819 Honolulu HI	**Date Sampled**	**5/15/2013**
Project Manager	Uwe Baumgartner/ Elisa Young	**Date Received**	**5/17/2013**
Project Name	**710 North Kind Street**	**Date Reported**	**5/21/2013**
Project#	**M114**		

Organochlorine Pesticides By EPA 8081B/3550C

Accu Lab analytical Batch# AL052013-1

Matrix Spike (MS) **7095-02S** ***Matrix:*** *Soil*

Analyte	PQL	Unit	**Result**	Amount Spiked	% Recovery	Date Extracted	Date Analyzed	Note
α-BHC	1.0	ug/Kg				5/20/2013	5/20/2013	
γ-BHC (Lindane)	1.0	ug/Kg	**21**	25	84%	5/20/2013	5/20/2013	
β-BHC	1.0	ug/Kg				5/20/2013	5/20/2013	
Heptachlor	1.0	ug/Kg	**22**	25	88%	5/20/2013	5/20/2013	
δ-BHC	1.0	ug/Kg				5/20/2013	5/20/2013	
Aldrin	1.0	ug/Kg	**22**	25	88%	5/20/2013	5/20/2013	
Heptachlor Epoxide	1.0	ug/Kg				5/20/2013	5/20/2013	
Endosulfan I	1.0	ug/Kg				5/20/2013	5/20/2013	
4,4'-DDE	1.0	ug/Kg				5/20/2013	5/20/2013	
Dieldrin	1.0	ug/Kg	**63**	50	126%	5/20/2013	5/20/2013	
Endrin	1.0	ug/Kg	**53**	50	106%	5/20/2013	5/20/2013	
4,4'-DDD	1.0	ug/Kg				5/20/2013	5/20/2013	
Endosulfan II	1.0	ug/Kg				5/20/2013	5/20/2013	
4,4'-DDT	2.0	ug/Kg	**37**	50	74%	5/20/2013	5/20/2013	
Endrin Aldehyde	4.0	ug/Kg				5/20/2013	5/20/2013	
Methoxychlor	5.0	ug/Kg				5/20/2013	5/20/2013	
Endrin Ketone	2.0	ug/Kg				5/20/2013	5/20/2013	
Endosulfan Sulfate	2.0	ug/Kg				5/20/2013	5/20/2013	
Techincal Chlordane	100	ug/Kg				5/20/2013	5/20/2013	

Surrogate Recoveries

Decachlorobiphenyl	99%
Tetrachloro-m-xylene	96%

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ACCU LABORATORY

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www.accu-lab.com

Analytical Report

Client	Advanced Analytical Laboratory	**Acculab WO#**	**13-AL0517-1**
	3210 Koapaka Street #A		
	96819 Honolulu HI	**Date Sampled**	**5/15/2013**
Project Manager	Uwe Baumgartner/ Elisa Young	**Date Received**	**5/17/2013**
Project Name	**710 North Kind Street**	**Date Reported**	**5/21/2013**
Project#	**M114**		

Organochlorine Pesticides By EPA 8081B/3550C

Accu Lab analytical Batch# AL052013-1

Matrix Spike Dup (MSD) **7095-02S** ***Matrix:*** *Soil*

Analyte	PQL	Unit	**Result**	Amount Spiked	% Recovery	RPD	Date Extracted	Date Analyzed	Note
α-BHC	1.0	ug/Kg					5/20/2013	5/20/2013	
γ-BHC (Lindane)	1.0	ug/Kg	**22**	25	87%	1%	5/20/2013	5/20/2013	
β-BHC	1.0	ug/Kg					5/20/2013	5/20/2013	
Heptachlor	1.0	ug/Kg	**25**	25	99%	3%	5/20/2013	5/20/2013	
δ-BHC	1.0	ug/Kg					5/20/2013	5/20/2013	
Aldrin	1.0	ug/Kg	**23**	25	90%	1%	5/20/2013	5/20/2013	
Heptachlor Epoxide	1.0	ug/Kg					5/20/2013	5/20/2013	
Endosulfan I	1.0	ug/Kg					5/20/2013	5/20/2013	
4,4'-DDE	1.0	ug/Kg					5/20/2013	5/20/2013	
Dieldrin	1.0	ug/Kg	**64**	50	128%	0%	5/20/2013	5/20/2013	
Endrin	1.0	ug/Kg	**58**	50	116%	2%	5/20/2013	5/20/2013	
4,4'-DDD	1.0	ug/Kg					5/20/2013	5/20/2013	
Endosulfan II	1.0	ug/Kg					5/20/2013	5/20/2013	
4,4'-DDT	2.0	ug/Kg	**48**	50	96%	6%	5/20/2013	5/20/2013	
Endrin Aldehyde	4.0	ug/Kg					5/20/2013	5/20/2013	
Methoxychlor	5.0	ug/Kg					5/20/2013	5/20/2013	
Endrin Ketone	2.0	ug/Kg					5/20/2013	5/20/2013	
Endosulfan Sulfate	2.0	ug/Kg					5/20/2013	5/20/2013	
Techincal Chlordane	100	ug/Kg					5/20/2013	5/20/2013	

Surrogate Recoveries

Decachlorobiphenyl	98%
Tetrachloro-m-xylene	93%

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Analytical Report

Client	Advanced Analytical Laboratory	**Acculab WO#**	**13-AL0517-1**
	3210 Koapaka Street #A		
	96819 Honolulu HI	**Date Sampled**	**5/15/2013**
Project Manager	Uwe Baumgartner/ Elisa Young	**Date Received**	**5/17/2013**
Project Name	**710 North Kind Street**	**Date Reported**	**5/21/2013**
Project#	**M114**		

Organochlorine Pesticides By EPA 8081B/3550C

Data Qualifiers and Comments:

PQL- Practical Quantitation Limit
nd- Indicates the analyte is not detected at the listing reporting limit.
C- Coelution with other compounds.
M- % recoveries of matrix spike and matrix spike duplicate are out of the acceptable limit due to matrix effects.
B- Indicates the analyte is detected in the method blank associated with the sample.
J- The analyte is detected at below the reporting limit.
E- The result reported exceeds the calibration range, and is an estimate.
D- Sample required dilution due to matrix.
H- Sample was received or analyzed past holding time
Q- Sample was received with head space, improper preserved or above recommended temperature.

Results reported on dry-weight basis.

Acceptable Recovery Limits:

Surrogates/LCS	**70-130%**
MS/MSD	**65-135%**

Acceptable RPD limit: **30%**

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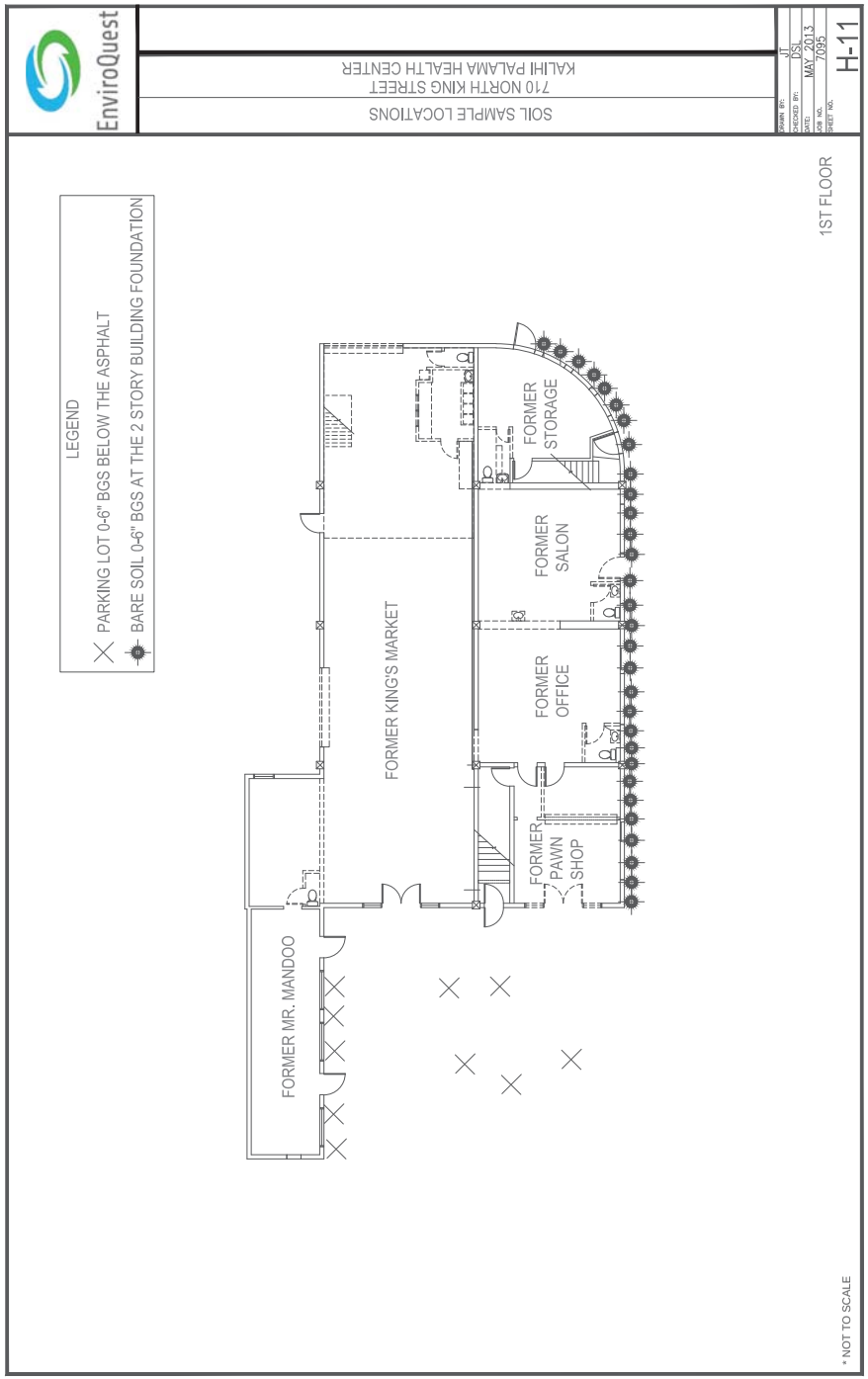


Photographs

Appendix 6

EnviroQuest, Inc.

Photo 1: 710 North King Street.

Photo 2: 710 North King Street.

Photo 3: Former Mr. Mandoo.

Photo 4: Former Mr. Mandoo.
Non-asbestos containing 5"x5" red quarry tile, grout, and mortar.

Photo 5: Former Mr. Mandoo.
Non-asbestos containing exterior gray concrete brick wall, grout, and gray window caulking.

Photo 6: Former Mr. Mandoo.
Non-asbestos containing white drywall and joint compound wall.

EnviroQuest

PHOTOGRAPHIC LOG

Future site of Kalihi Palama Health Center
710 North King Street

Photo 7: Former Mr. Mandoo.
Non-asbestos containing white drywall and joint compound ceiling

Photo 8: Former Mr. Mandoo.
Non-asbestos containing white door caulking.

Photo 9: Former King's Market, 1st floor.

Photo 10: Former King's Market, 1st floor.
Non-asbestos containing brown covebase and white adhesive.

Photo 11: Former King's Market, 1st floor.
Non-asbestos containing white drywall and joint compound wall.

Photo 12: Former King's Market, 1st floor.
Asbestos containing black sink mastic.

EnviroQuest

PHOTOGRAPHIC LOG

Future site of Kalihi Palama Health Center
710 North King Street

Photo 13: Former King's Market, 2nd floor.

Photo 14: Former King's Market, 2nd floor
Trace amount of asbestos containing black sealant between glass pane and seam.

Photo 15: Former King's Market, 2nd floor.
Non-asbestos containing white drywall and joint compound wall and ceiling.

Photo 16: Former King's Market, 2nd floor.
Non-asbestos containing tan covebase and white adhesive.

Photo 17: Former Pawn Shop.

Photo 18: Former Office.

EnviroQuest

PHOTOGRAPHIC LOG

Future site of Kalihi Palama Health Center
710 North King Street

Photo 19: Former Pawn Shop.
Non-asbestos containing 12"x12" beige floor tile with black and tan mastic

Photo 20: Former Pawn shop.
Non-asbestos containing 12"x12" beige with brown streaks floor tile with black mastic and brown covebase and tan adhesive.

Photo 21: Former Pawn Shop storage.
Non-asbestos containing white drywall and joint compound.

Photo 22: Former Pawn Shop.
Non-asbestos containing plaster lath ceiling.

Photo 23: Former Office.
Non-asbestos containing plaster ceiling.

Photo 24: Former Salon.

EnviroQuest

PHOTOGRAPHIC LOG

Future site of Kalihi Palama Health Center
710 North King Street

Photo 25: Former Salon.
Non-asbestos containing 12"x12" yellow, pink, and gray floor tile over yellow tile.

Photo 26: Former Salon.
Non-asbestos containing white covebase and beige adhesive.

Photo 27: Former Salon.
Non-asbestos containing gray sealant between window frame and wall.

Photo 28: Former Salon.
Trace amount of asbestos containing white sealant between window pane and glass.

Photo 29: Former Salon.
Non-asbestos containing drywall and joint compound wall.

Photo 30: Former Salon.
Non-asbestos containing textured gypsumboard ceiling.

EnviroQuest

PHOTOGRAPHIC LOG

Future site of Kalihi Palama Health Center
710 North King Street

Photo 31: Former Storage.
Non-asbestos containing 12"x12" white square pattern vinyl flooring

Photo 32: Former Storage.
Non-asbestos containing blue covebase and white adhesive.

Photo 33: Former Storage.
Trace amount of asbestos containing white sealant between window pane and glass.

Photo 34: Former Storage.
Non-asbestos-containing drywall and joint compound ceiling.

Photo 35: Former Storage.
Asbestos containing black mastic and backing under 12"x12" white square pattern vinyl flooring and yellow flooring.

Photo 36: Former Storage.
Asbestos containing black mastic and backing under 12"x12" white square pattern vinyl flooring.

EnviroQuest

PHOTOGRAPHIC LOG

Future site of Kalihi Palama Health Center
710 North King Street

Photo 37: Church Space, 2nd floor.

Photo 38: Restrooms.
Non-asbestos containing 12"x12" beige ceramic tile, grout, and mortar.

Photo 39: Church Space, 2nd floor.
Asbestos-containing brown floor tile under brown carpet mastic.

Photo 40: Church Space, 2nd floor.
Non-asbestos containing cement topping under carpet and brown covebase with tan and brown adhesive.

Photo 41: Church Space, 2nd floor.
Non-asbestos containing drywall and joint compound.

Photo 42: Church Space, 2nd floor.
Arsenic-containing and non-asbestos containing canec ceiling.

EnviroQuest

PHOTOGRAPHIC LOG

Future site of Kalihi Palama Health Center
710 North King Street

Photo 43: Church Space, 2nd floor.
Non-asbestos containing white sealant between window frame and wall.

Photo 44: Two story building roof.

Photo 45: Two story roof.
Non-asbestos containing black felt roof.

Photo 46: Two story roof.
Non-asbestos containing fibrous roof over black felt.

Photo 47: Two story roof.
Asbestos-containing black tar sealant around vent pipe penetration.

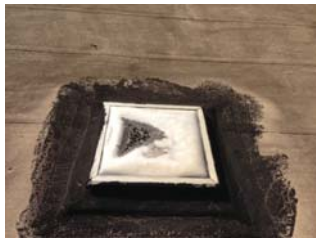


Photo 48: Two story roof.
Non-asbestos containing black skylight sealant.

EnviroQuest

PHOTOGRAPHIC LOG

Future site of Kalihi Palama Health Center
710 North King Street

Photo 49: Two story roof.
Asbestos-containing white caulking on parapet flashing and white coating on parapet wall.

Photo 50: Two story roof.
Non-asbestos containing black A/C conduit sealant.

Photo 51: Former Mr. Mandoo roof.
Non-asbestos containing black roof shingles.

Photo 52: Former Mr. Mandoo roof.
Non-asbestos containing black felt on the parapet wall.

Photo 53: Former Mr. Mandoo roof.
Non-asbestos containing black tar sealant around cone head.

Photo 54: Former Mr. Mandoo roof.
Non-asbestos containing black coating and sealant at the roof and church wall seams.

EnviroQuest

PHOTOGRAPHIC LOG

Future site of Kalihi Palama Health Center
710 North King Street

Photo 55: Side canopy roof.
Non-asbestos containing green roofing felt.

Photo 56: Former Mr. Mandoo.
Non-lead based painted blue CMU wall.

Photo 57:Former Mr. Mandoo.
Non-lead based painted white CMU walls.

Photo 58: Former Mr. Mandoo.
Non-lead based painted tan drywall ceiling.

Photo 59: Former Mr. Mandoo.
Non-lead based painted brown wood door and doorframe.

Photo 60: Former Mr. Mandoo
Non-lead based painted beige wood fascia, eaves, and blue plastic shingles.

EnviroQuest

PHOTOGRAPHIC LOG

Future site of Kalihi Palama Health Center
710 North King Street

Photo 61: Former King's Market, 1st floor.
Non-lead based painted off-white wood post and drywall wall.

Photo 62: Former King's Market, 1st floor.
Non-lead based painted white CMU wall and brown wood door and doorframe.

Photo 63: Former King's Market, 1st floor.
Non-lead based painted red, green, and orange CMU wall.

Photo 64: Former King's Market, 1st floor.
Non-lead based painted light gray over green CMU wall, gray metal shingles, light gray wood eaves, and white wood fascia.

Photo 65: Former King's Market, 1st floor.
Non-lead based painted yellow concrete curb.

Photo 66: Asbestos containing drywall and joint compound.

EnviroQuest

PHOTOGRAPHIC LOG

Future site of Kalihi Palama Health Center
710 North King Street

Photo 67: Former Office.
Non-lead based painted white drywall and plaster ceiling.

Photo 68: Former Office.
Non-lead based gray wood doorframe.

Photo 69: Former Pawn Shop.
Non-lead based painted brown wood doorframe.

Photo 70: Former Office restroom.
Non-lead based painted pink plaster ceiling.

Photo 71: Non-lead based painted light gray over green CMU column, gray metal downspout, and light gray metal electrical panel.

Photo 72: Former Salon.
Non-lead based painted red metal window frame and white metal window grate.

EnviroQuest

PHOTOGRAPHIC LOG

Future site of Kalihi Palama Health Center
710 North King Street

Photo 73: Former Salon.
Non-lead based painted white CMU and drywall walls.

Photo 74: Former Storage.
Non-lead based painted white CMU wall and window system.

Photo 75: Former Storage.
Non-lead based painted gray over green CMU wall.

Photo 76: Church space, 2nd floor.
Non-lead based painted white drywall wall.

Photo 77: Church space, 2nd floor.
Non-lead based white metal duct.

Photo 78: Non-lead based painted white CMU wall.

EnviroQuest

PHOTOGRAPHIC LOG

Future site of Kalihi Palama Health Center
710 North King Street

Photo 79: Former Mr. Mandoo.
Ballast with "No PCBs" label.

Photo 80: Former Pawn Shop.
Ballast with "No PCBs" label.

Photo 81: Decision Unit 1.
Incremental soil samples collected from the parking lot.

Photo 82: Decision Unit 1.
Incremental soil samples collected from the parking lot.

Photo 83: Decision Unit 2.
Incremental soil samples collected from the foundation of the building.

Photo 84: Decision Unit 2.
Incremental soil samples collected from the foundation of the building.

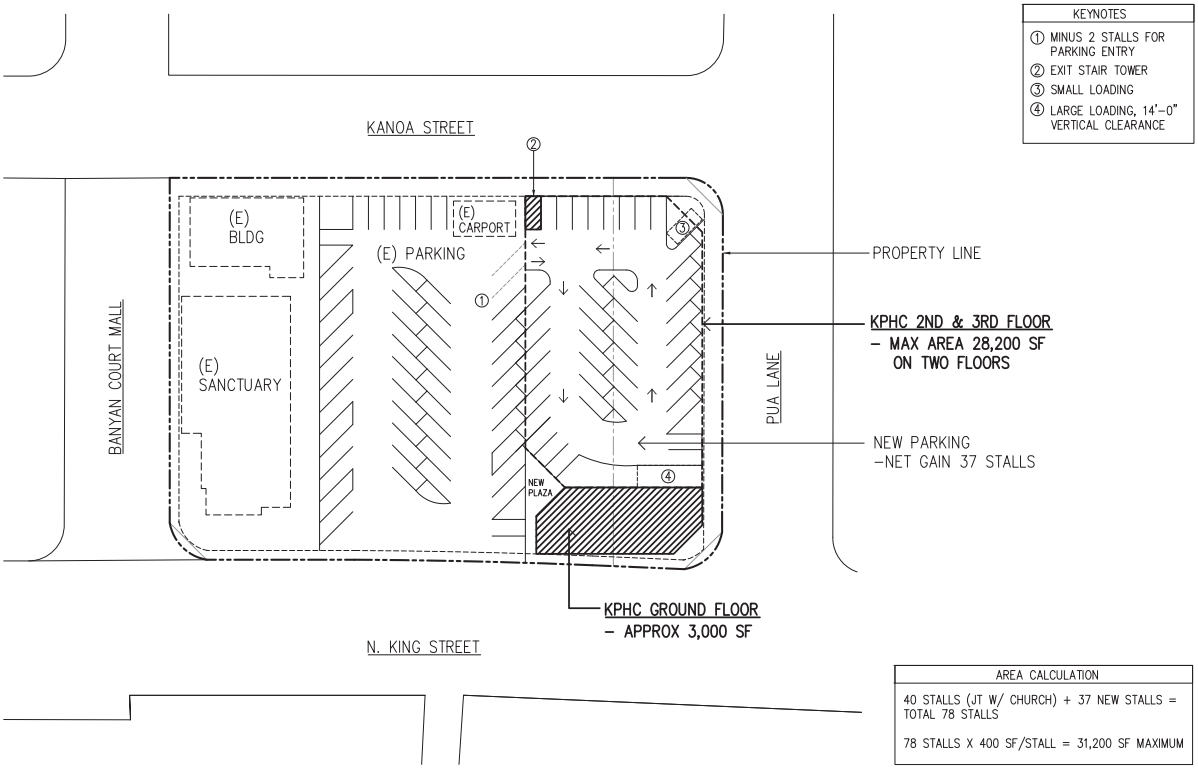
EnviroQuest

PHOTOGRAPHIC LOG

Future site of Kalihi Palama Health Center
710 North King Street

Appendix F:

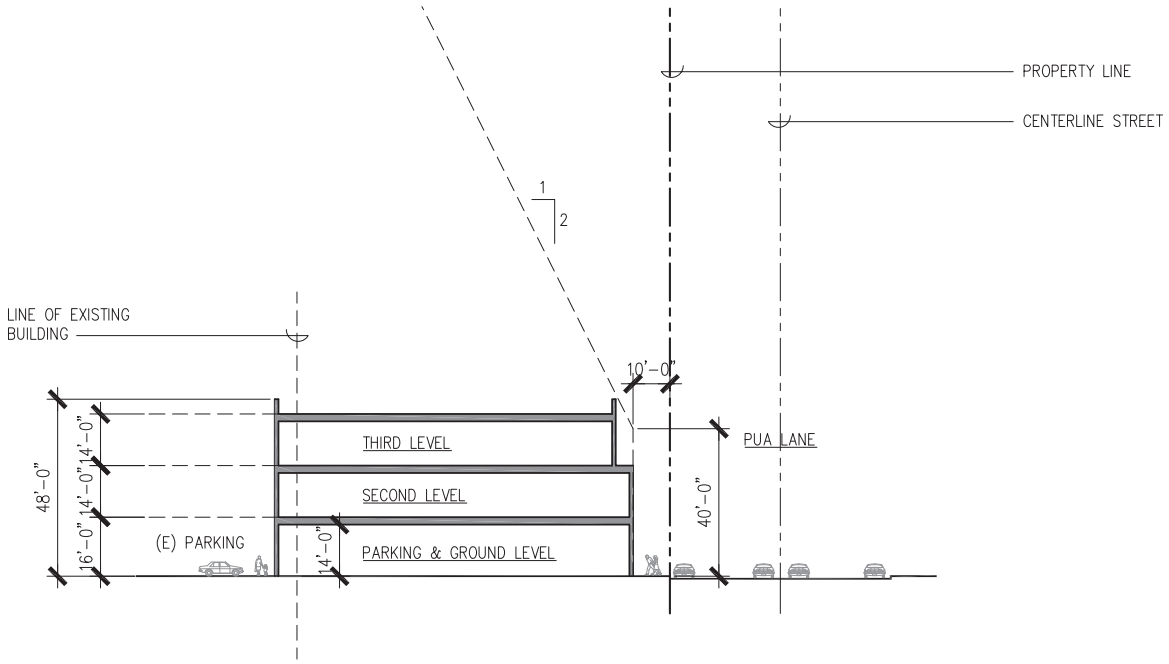
Previous Site Alternatives



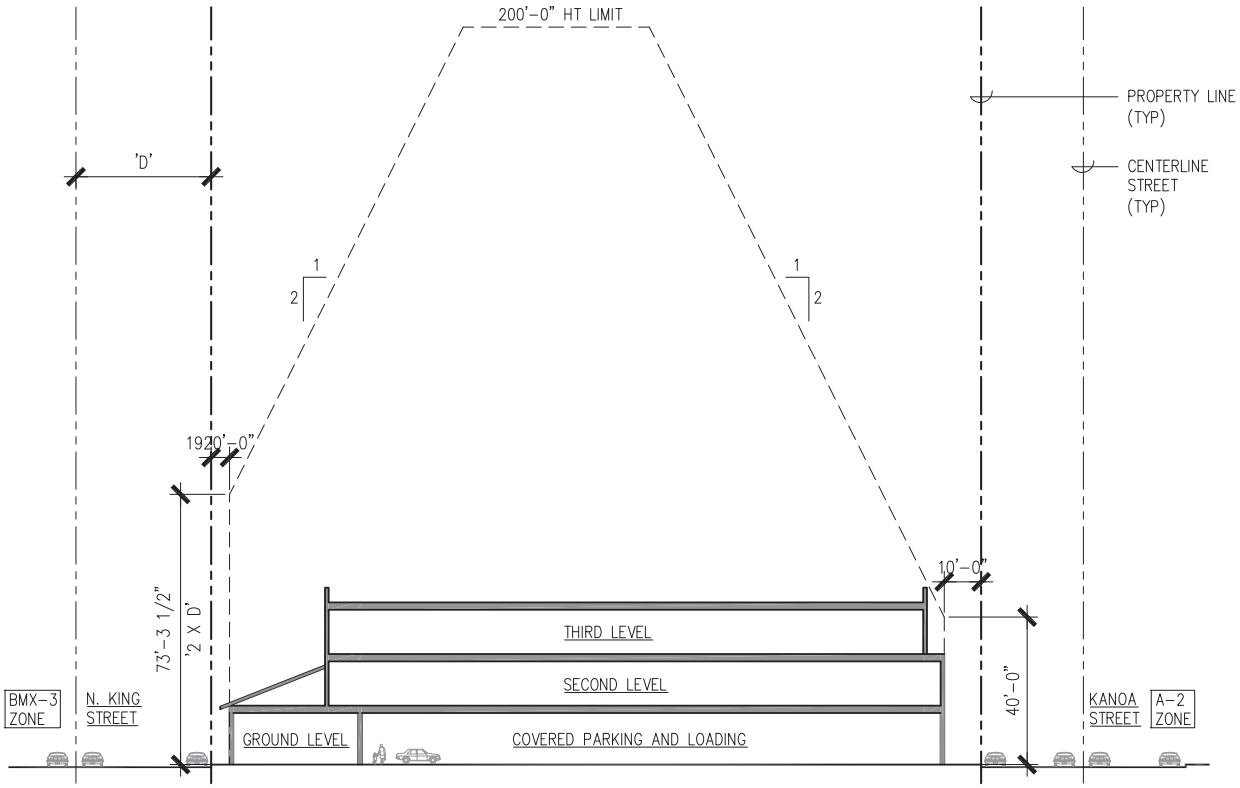
KEYNOTES
① MINUS 2 STALLS FOR PARKING ENTRY
② EXIT STAIR TOWER
③ SMALL LOADING
④ LARGE LOADING, 14'–0" VERTICAL CLEARANCE

AREA CALCULATION
40 STALLS (JT W/ CHURCH) + 37 NEW STALLS = TOTAL 78 STALLS
78 STALLS X 400 SF/STALL = 31,200 SF MAXIMUM

OPTION 1
PRELIMINARY PROPOSED PLAN
SCALE: 1/64"=1'–0"



OPTION 1
BUILDING ENVELOPE/
MASSING STUDY
SCALE: 1/32"" 1'–0"

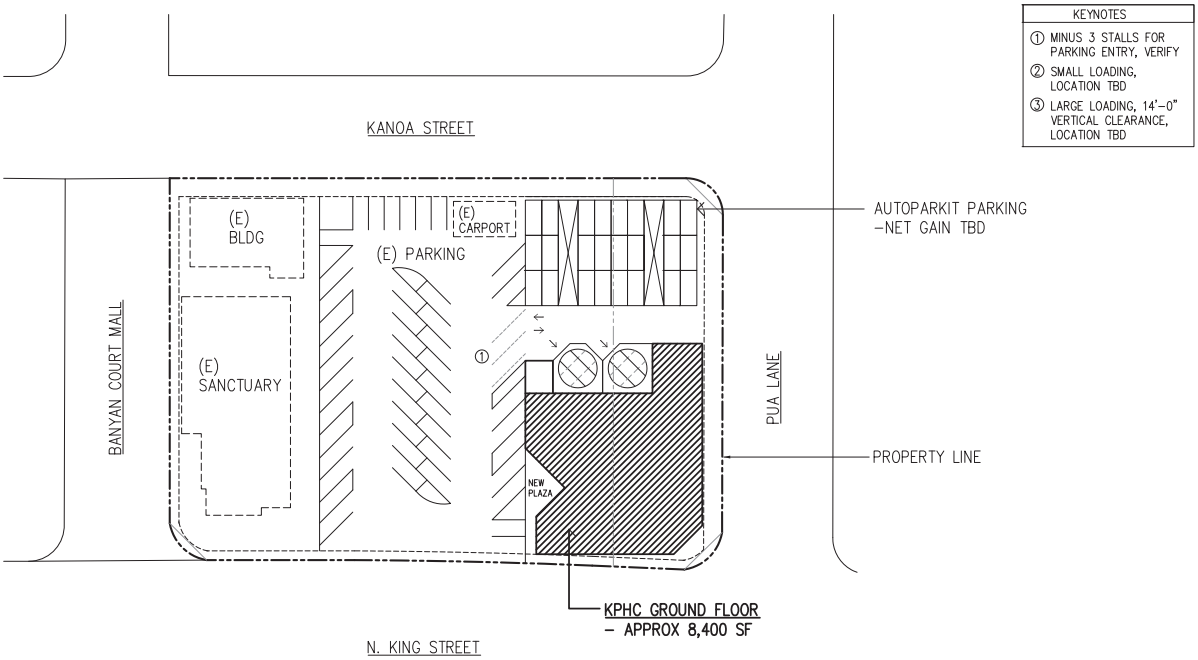


OPTION 1
BUILDING ENVELOPE/
MASSING STUDY
SCALE: 1/32"" 1'-0"

KALIHI PALAMA HEALTH CENTER
FEASIBILITY STUDY FOR 710 N. KING STREET

INFORM DESIGN

9/30/10



KEYNOTES
① MINUS 3 STALLS FOR PARKING ENTRY, VERIFY
② SMALL LOADING, LOCATION TBD
③ LARGE LOADING, 14'-0" VERTICAL CLEARANCE, LOCATION TBD

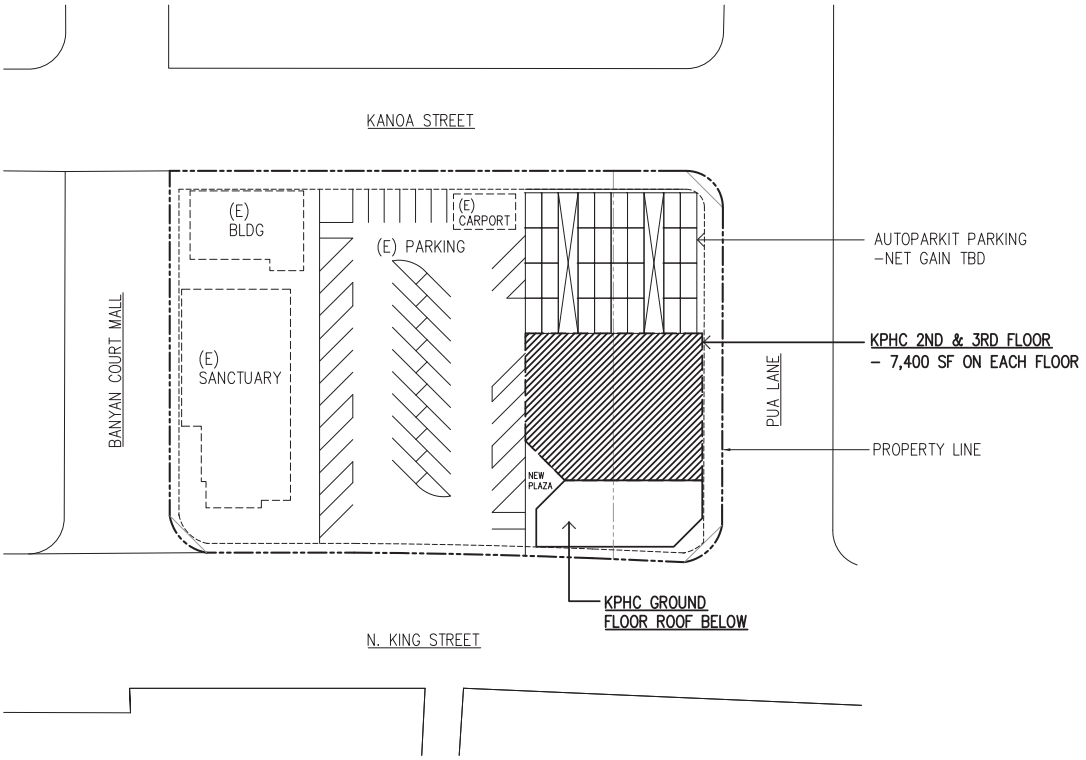
PARKING CALCULATION		
GROUND FLOOR	=	8,400 SF
2ND & 3RD FLOOR	=	14,800 SF
4TH THRU 7TH FLOOR	=	31,200 SF
TOTAL	=	54,400 SF
54,400 SF / 400 SF PER STALL = 136 STALLS		

OPTION 2
PRELIMINARY PROPOSED
GROUND FLOOR PLAN
SCALE: 1/64"= 1'-0"

KALIHI PALAMA HEALTH CENTER
FEASIBILITY STUDY FOR 710 N. KING STREET

INFORM DESIGN

10/4/10

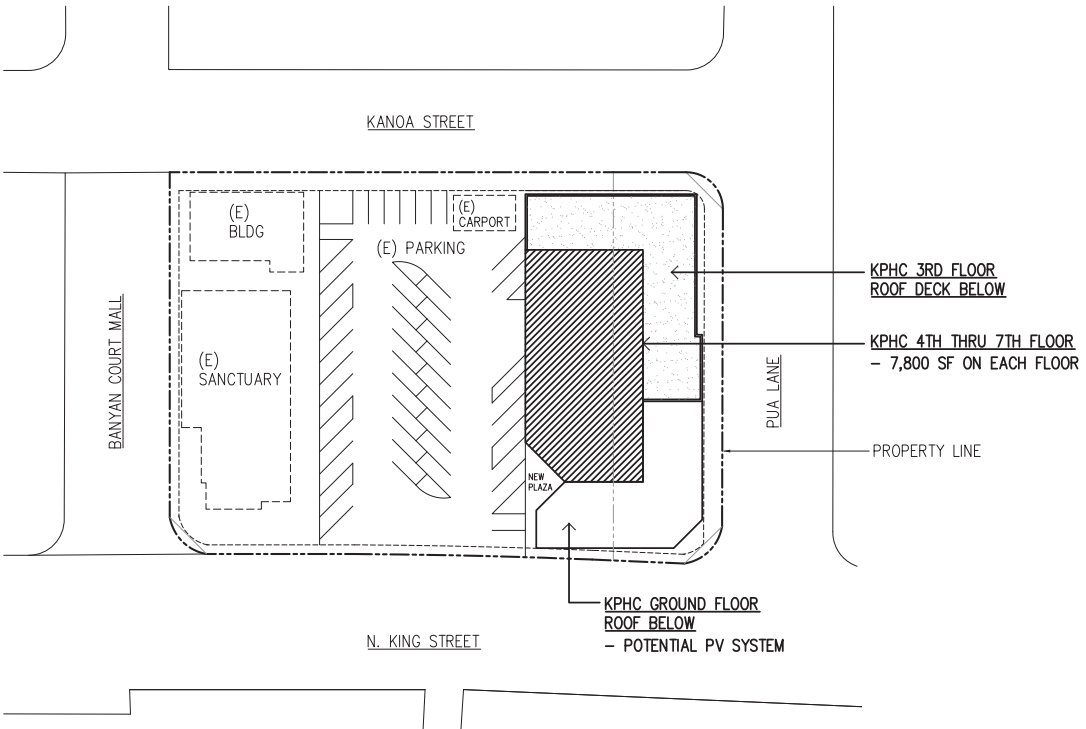


OPTION 2
PRELIMINARY PROPOSED
2ND & 3RD FLOOR PLAN
SCALE: 1/64"= 1'-0"

KALIHI PALAMA HEALTH CENTER
FEASIBILITY STUDY FOR 710 N. KING STREET

INFORM DESIGN

10/4/10

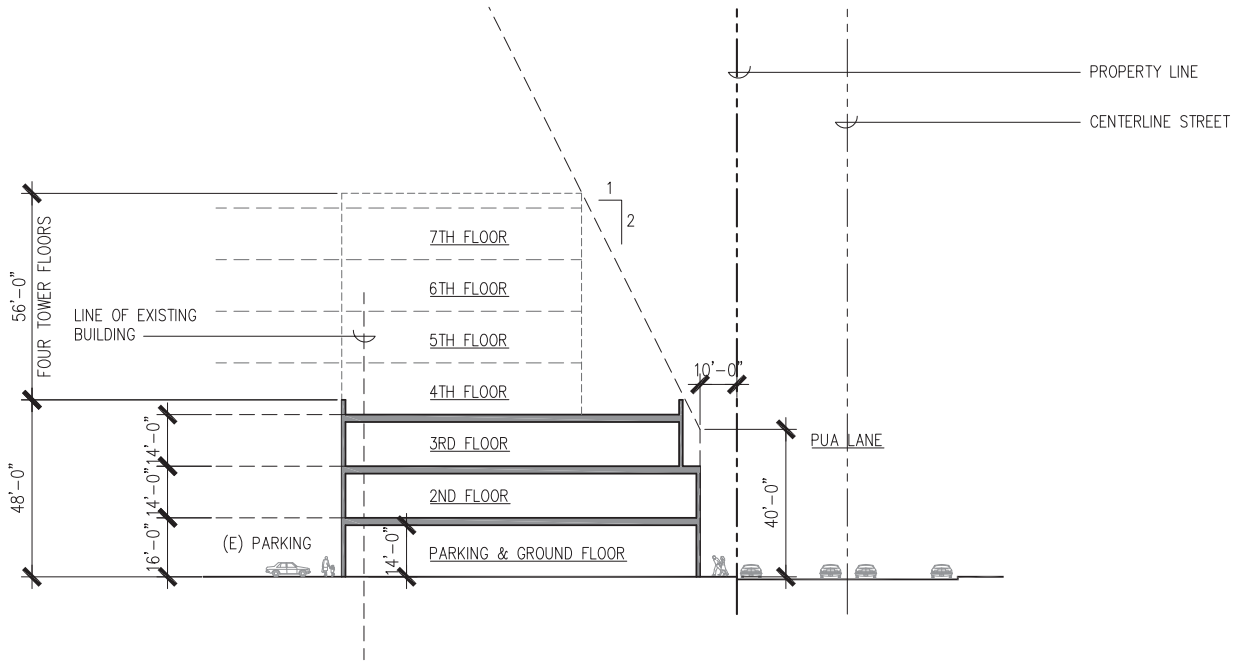


OPTION 2
PRELIMINARY PROPOSED
4TH THRU 7TH FLOOR PLAN
SCALE: 1/64"= 1'-0"

KALIHI PALAMA HEALTH CENTER
FEASIBILITY STUDY FOR 710 N. KING STREET

INFORM DESIGN

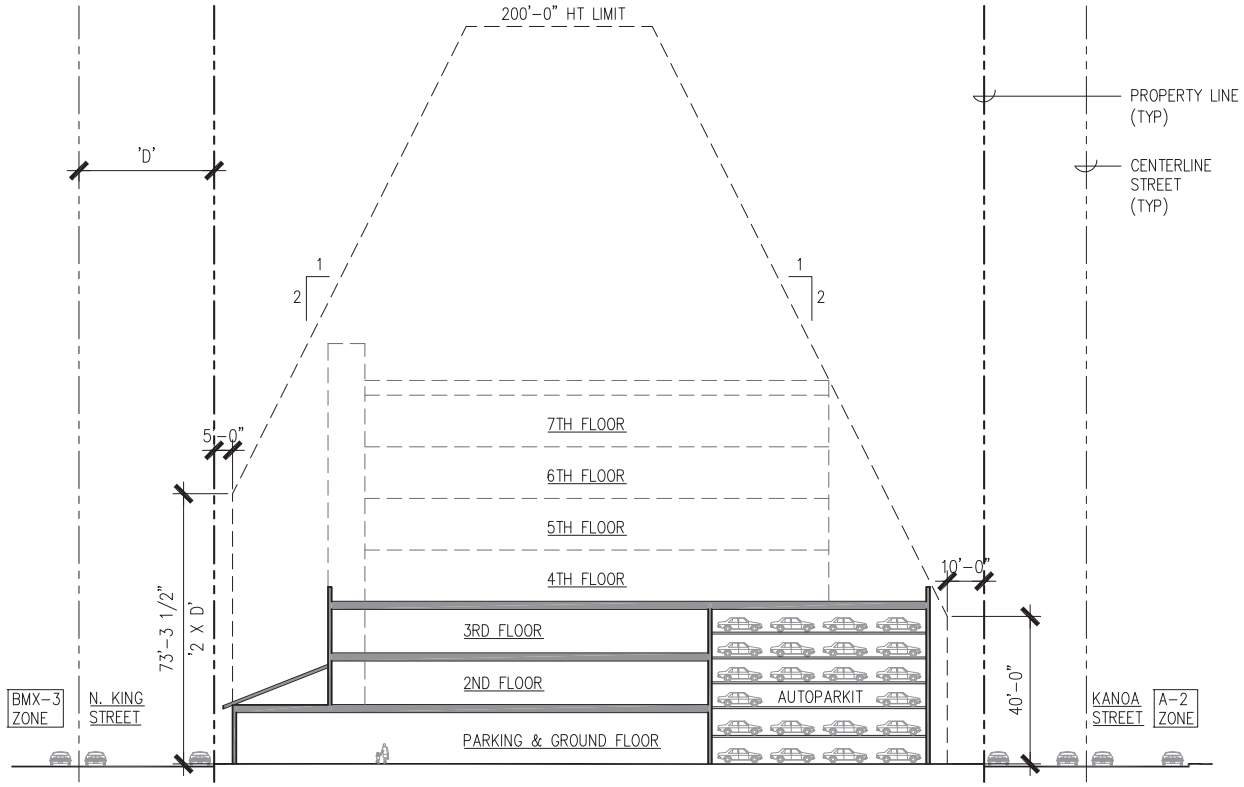
10/4/10



OPTION 2
BUILDING ENVELOPE/
MASSING STUDY
SCALE: 1/32"" 1'-0"

KALIHI PALAMA HEALTH CENTER
FEASIBILITY STUDY FOR 710 N. KING STREET

INFORM DESIGN
10/4/10



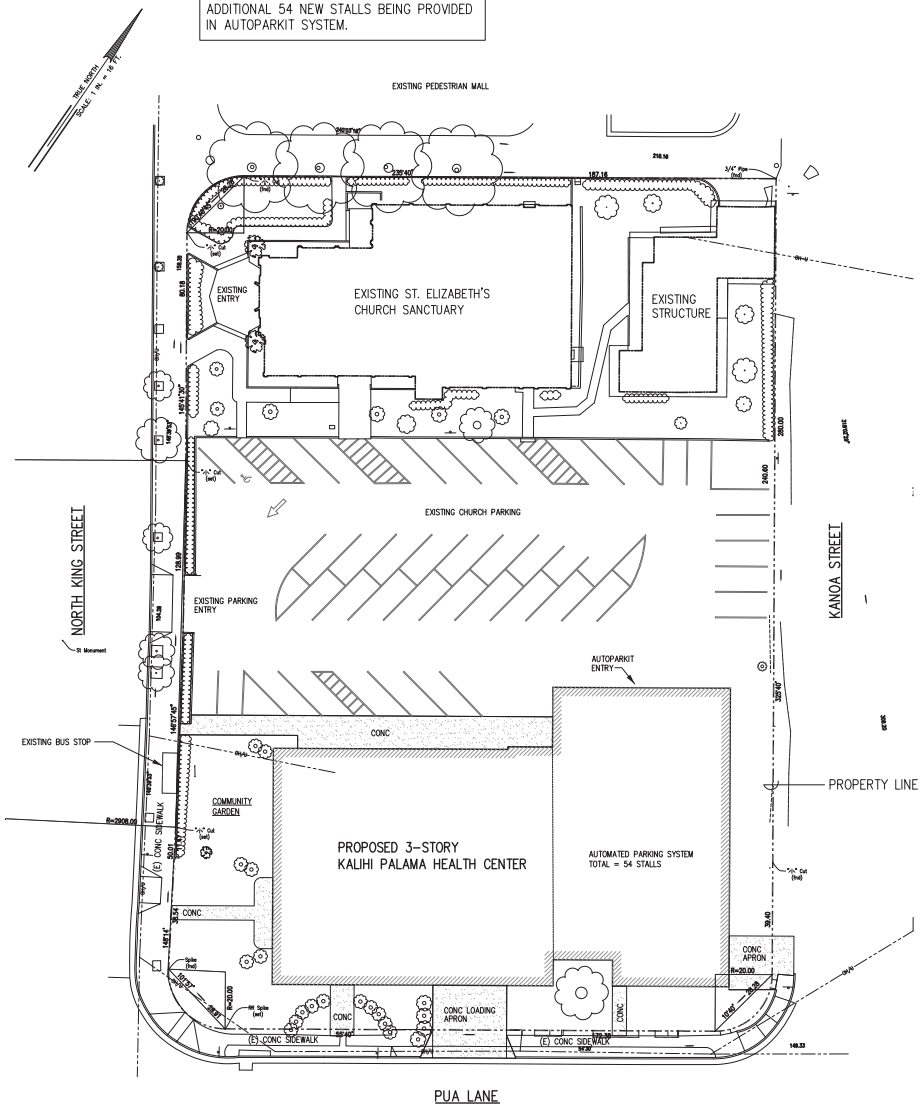
OPTION 2
BUILDING ENVELOPE/
MASSING STUDY
SCALE: 1/32"" 1'-0"

KALIHI PALAMA HEALTH CENTER
FEASIBILITY STUDY FOR 710 N. KING STREET

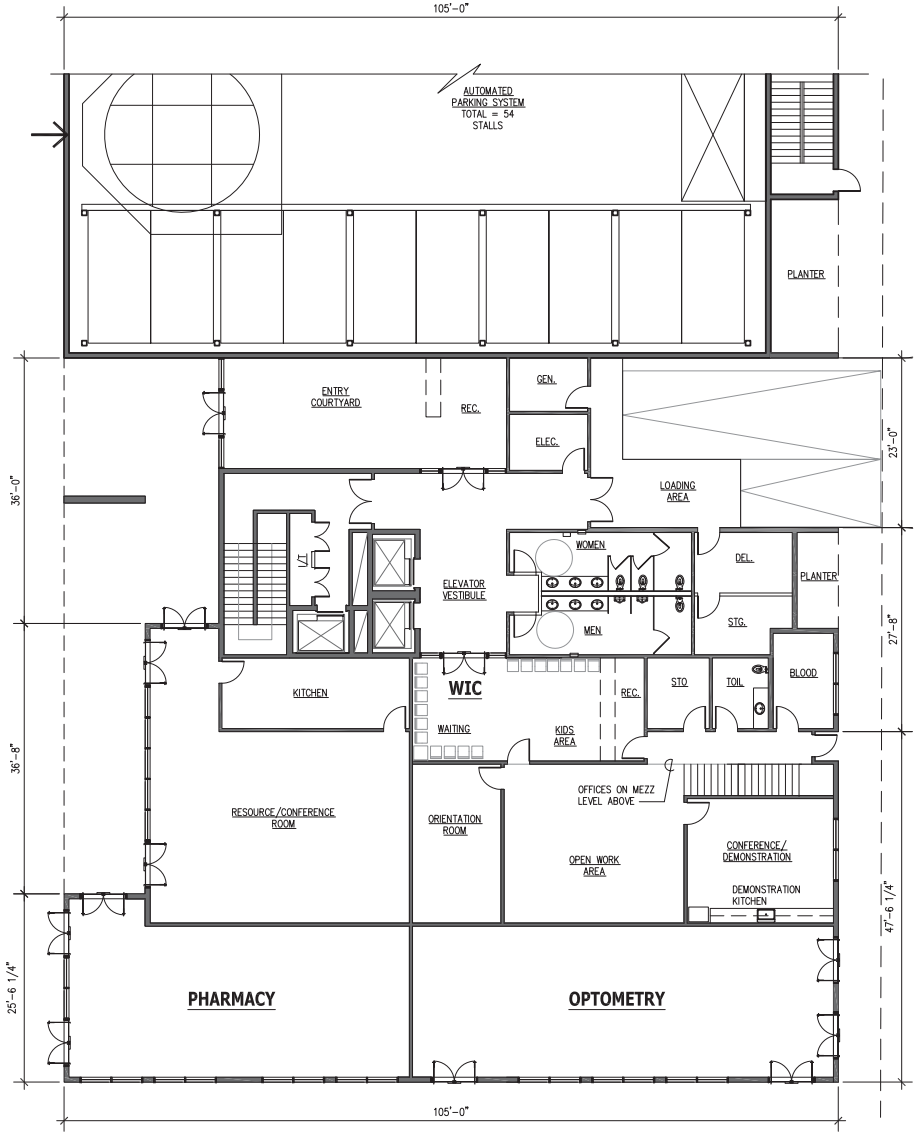
INFORM DESIGN
10/4/10

PARKING NOTES
40 STALLS AVAILABLE UNDER EXISTING JOINT DEVELOPMENT AGREEMENT WITH CHURCH. ADDITIONAL 54 NEW STALLS BEING PROVIDED IN AUTOPARKIT SYSTEM.

SITE INFORMATION
T.M.K = 1-7-31:048 & 052 TOTAL COMBINED PARCEL AREA = 62,334 SF



CONCEPTUAL OVERALL SITE PLAN
SCALE: 1/32" = 1'-0"



CONCEPTUAL PARTIAL FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

KALIHI PALAMA HEALTH CENTER
710 NORTH KING STREET

11/09/11

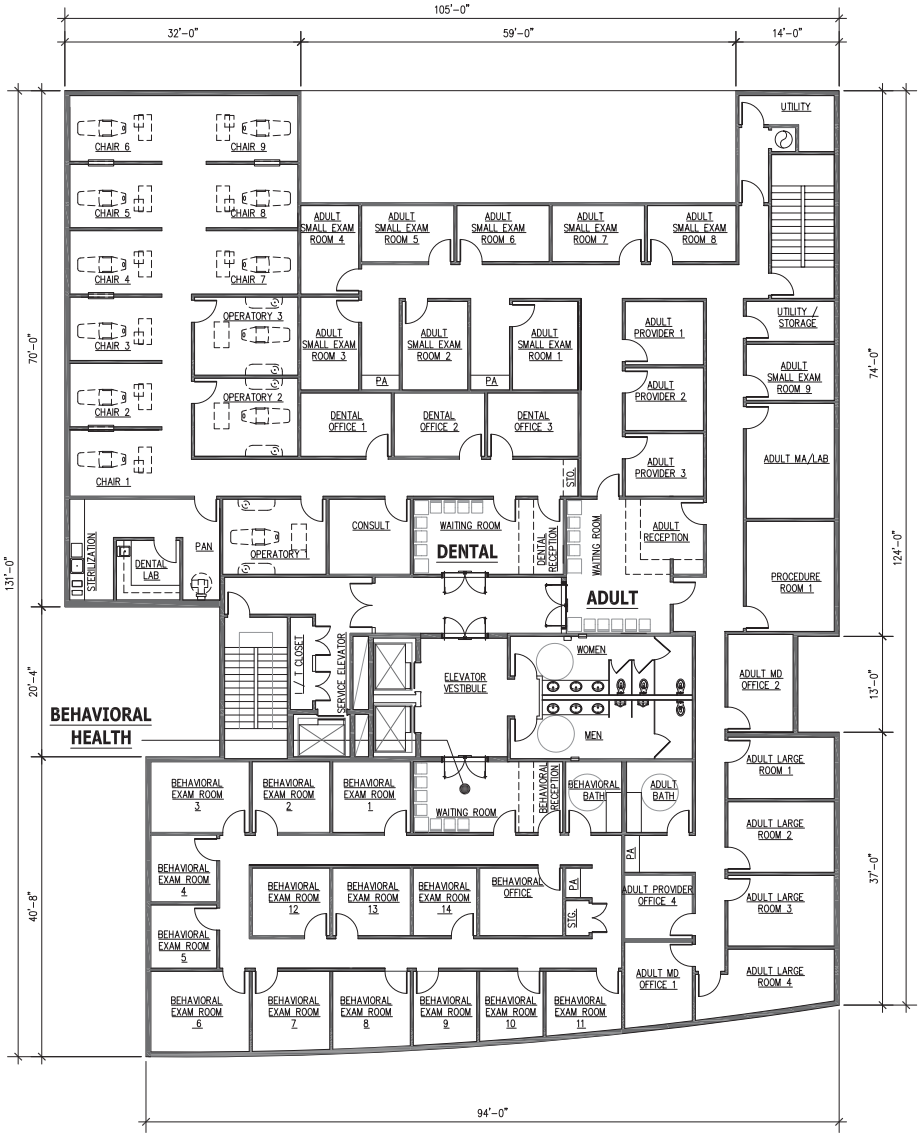
KALIHI PALAMA HEALTH CENTER
710 NORTH KING STREET

11/09/11

CONCEPTUAL SECOND FLOOR PLAN
SCALE: 1/16" = 1'-0"

KALIHI PALAMA HEALTH CENTER
710 NORTH KING STREET

11/09/11



CONCEPTUAL THIRD FLOOR PLAN
SCALE: 1/16" = 1'-0"

KALIHI PALAMA HEALTH CENTER
710 NORTH KING STREET

11/09/11

ENERGY SYSTEMS
- ROOFTOP SOLAR PHOTOVOLTAIC (PV) SYSTEM

ENERGY CONSERVATION
- LED/CFL LIGHT FIXTURES
- ENERGY STAR APPLIANCES

HEAT GAIN MITIGATION
- HIGH INSULATION (R-VALUE) WALLS AND ROOF
- HIGH PERFORMANCE GLAZING

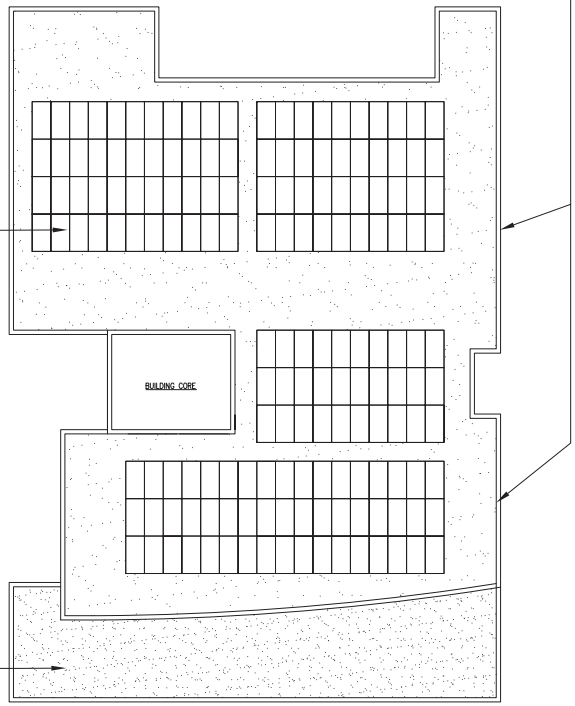
HEALTHY INDOOR ENVIRONMENT
- GREEN LIVING WALLS
- LOW / NO VOC PAINTS AND SEALANTS
- NATURAL LIGHT

- PREFABRICATED FACADE CLADDING SYSTEM

- ROOFTOP PHOTOVOLTAIC (PV)

- GREEN LIVING WALLS

- ROOFTOP "HEALING" GARDEN



GREEN BUILDING FEATURES
SCALE: N.T.S

KALIHI PALAMA HEALTH CENTER
710 NORTH KING STREET

11/09/11

Appendix G:

Soil Study

REPORT
SOILS INVESTIGATION

PROPOSED MEDICAL BUILDING
710 NORTH KING STREET
HONOLULU, HAWAII
TMK: (1)1-7-031: 052

for

KALIHI PALAMA HEALTH CENTER

Project No. 12-0153
June 24, 2013

SHINSATO ENGINEERING, INC.
98-747 KUAHAO PLACE, #E
PEARL CITY, HI 96782

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June 24, 2013
Project No.12-0153

Kalihi Palama Health Center
Attention: Emmanueal Kintu, Executive Director
938-E Austin Lane
Honolulu, Hawaii 96814

Dear Mr. Kintu:

The attached report presents the results of a soils investigation for the proposed three-story medical building to be located at 710 North King Street in Honolulu, Hawaii.

A summary of the findings is as follows:

1) The subsurface conditions at the site were explored by drilling 4 test borings to depths of 20.5 to 27.416 feet below existing grade. The borings were drilled in paved areas and encountered 2 to 5.5 inches of asphaltic concrete (A.C.).

   At Boring 1, the A.C. was 2-inch thick and underlain by 7 inches of gravel. This was followed by stiff, dark-brown SILT to a depth of 6 feet, then by dense, tan-white CORAL to a depth of 13.5 feet. The CORAL was underlain by very stiff, brown to light-brown elastic SILT to a depth of 26.5 feet followed by hard BASALTIC ROCK to the final depth of the boring at 27.416 feet.

   At Boring 2, the A.C. was 3-inches thick and underlain by soft to medium stiff, brown SILT to a depth of 6.75 feet, then by medium dense, tan-white CORAL to a depth of 13.5 feet. The CORAL was underlain by medium dense, tan-white silty SAND to a depth of 18.5 feet then by very stiff, dark-brown to black elastic SILT to a depth of 20 feet where hard BASALTIC ROCK was found at the final depth of the boring at 21 feet.

   Boring 3 encountered 5.5-inches of A.C. followed by stiff, brown to dark-brown SILT to a depth of 4 feet, then by medium dense, black-brown SAND to a depth of 6 feet. At 6 feet, very dense, tan CORAL was found to a depth of 8 feet followed by very loose, tan SAND to a depth of 13.5 feet. This was followed by very stiff to stiff, light-brown and gray elastic SILT to a depth of 20 feet where hard BASALTIC ROCK was found to the final depth of the boring at 20.5 feet.

   Boring 4 encountered 5-inches of A.C. followed by medium stiff, brown to dark-brown SILT to a depth of 6 feet followed by medium stiff to stiff, light-brown and gray CLAY to a depth of 13.5 feet. This was followed by medium dense, tan, brown, white and orange clayey SAND to a depth of 18.5 feet then by very stiff, light-brown elastic SILT to a depth of 24.5 feet where hard BASALTIC ROCK was found to the final depth of the boring at 24.75 feet.

2) Groundwater was encountered in Borings 1, 2 and 4 at depths of 10.5 to 23.33 feet at the time of the field investigation. Groundwater was not observed in Boring 3.

3) Special considerations are anticipated for the design and construction of the project due to existing soil conditions. These include but may not be limited to the following:

a) The site was found to be underlain by variable soil conditions. In order to minimize the possible adverse effects from differential settlement of the foundations, it is recommended that heavily loaded structural elements (column loads greater than 150 kips and wall loads greater than 12 kips per lineal foot) be supported on deep foundations that bear on the underlying BASALTIC ROCK encountered at depths of 20 to 26.5 feet below grade. Lighter loaded foundations can be supported on spread and continuous footings.

b) Deep foundations typically consist of driven precast concrete piles, auger cast in-place piles, cast-in-place concrete piles (caissons), or injection-bored micropiles.

c) The CORAL formation found in Borings 1, 2 and 3 at depths of 6 to 6.75 feet below grade varied from 2 to 7.5 feet in thickness. CORAL was not found in Boring 4. The CORAL is medium dense to very dense and pre-drilling of the CORAL layer will likely be required to install driven concrete piles, auger-cast in-place piles and caissons. Injection bored micropiles can generally be installed without pre-drilling.

4) A summary of the foundation design parameters is as follows:

a) Deep foundations (Caissons, auger-cast piles, precast, prestressed concrete piles and micropiles)

I)	Allowable end-bearing capacity	150,000 psf (BASALTIC ROCK formation)
ii)	Skin-friction capacity	2,000 pounds per square foot of contact area

b) Shallow foundations: allowable soil bearing value: 3,000 psf bearing on firm on-site soil or properly compacted structural fill; the minimum footing embedment depth shall be of 24 inches below lowest adjacent grade (measured to bottom of footing). The bearing value may be increased by 33% for momentary loads.

c) Estimated settlement (under the fully applied recommended bearing pressure)

I)	Deep foundations:	less than 1/2 inch
ii)	Shallow foundations:	on the order of 1-inch for 7-foot square column footings and 4-foot wide continuous footings

d) Lateral earth pressure coefficients:

On-site Soils:	
passive:	Kp = 2.50
active (unrestrained):	Ka = 0.40
restrained:	Ko = 0.60
unit weight:	105 pcf
Import structural fill:	
passive:	Kp = 3.50
active (unrestrained):	Ka = 0.27
restrained:	Ko = 0.42
unit weight:	140 pcf

e)	Frictional resistance:	0.45 times the dead load for on-site soils; 0.7 times the dead load for imported structural fill
f)	Site Class Definition (2006 IBC)	C: "very dense soil and soft rock"
g)	Slab-on-grade:	Provide a minimum of 6 inches of structural fill beneath the slab; any granular cushion may be considered as a part of the 6-inch thickness.

Details of the findings and recommendations are presented in the attached report.

This investigation was made in accordance with generally accepted engineering procedures and included such field and laboratory tests considered necessary for the project. In the opinion of the undersigned, the accompanying report has been substantiated by mathematical data in conformity with generally accepted engineering principles and presents fairly the design information requested by your organization. No other warranty is either expressed or given.

Respectfully submitted,

SHINSATO ENGINEERING, INC.

Lawrence S. Shinsato, P.E.
President

LSS:ls

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- Plot Plan
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- Results of Laboratory Tests

1.0 INTRODUCTION

This investigation was made for the purpose of obtaining information on the subsurface conditions from which to base recommendations for foundation design for the proposed three-story medical building to be located at the at 710 North King Street in Honolulu, Hawaii. The location of the site, relative to the existing streets and landmarks, is shown on the Vicinity Map, Plate 1.

2.0 SCOPE OF WORK

The services included drilling 4 test borings to depths of 20.5 to 27.416 feet below existing grade, obtaining samples of the underlying soils, performing laboratory tests to determine pertinent engineering properties of the representative soil samples, and performing an engineering analysis to determine foundation design parameters. The following information is provided for use by the Architect and/or Engineer:

1. General subsurface conditions, as disclosed by the test borings.
2. Physical characteristics of the soils encountered.
3. Recommendations for foundation design, including bearing values, embedment depth and estimated settlement.
4. Recommendations for placement of fill and backfill.
5. Special design considerations.

3.0 PLANNED DEVELOPMENT

From the information provided, the project will consist of demolishing the existing church meeting building and the retail building, and constructing a three-story medical building.

4.0 SITE CONDITIONS

4.1 Surface

The property is located on North King Street and is bordered by Banyan Court Mall to the north, Pua Lane to the south, North King Street to the west, and Kanoa Street to the east. At the time of the field investigation,

the site was occupied by a commercial building, on-grade parking lot, and the Saint Elizabeth's church meeting building. The ground was relatively flat to gently sloping.

4.2 Subsurface

The subsurface conditions at the site were explored by drilling 4 test borings to depths of 20.5 to 27.416 feet. The locations of the test borings are shown on the Plot Plan, Plate 2. Detailed logs of the test borings are presented in the Appendix to this report.

At Boring 1, the A.C. was 2-inch thick and underlain by 7 inches of gravel. This was followed by stiff, dark-brown SILT to a depth of 6 feet, then by dense, tan-white CORAL to a depth of 13.5 feet. The CORAL was underlain by very stiff, brown to light-brown elastic SILT to a depth of 26.5 feet followed by hard BASALTIC ROCK to the final depth of the boring at 27.416 feet.

At Boring 2, the A.C. was 3-inches thick and underlain by soft to medium stiff, brown SILT to a depth of 6.75 feet, then by medium dense, tan-white CORAL to a depth of 13.5 feet. The CORAL was underlain by medium dense, tan-white silty SAND to a depth of 18.5 feet then by very stiff, dark-brown to black elastic SILT to a depth of 20 feet where hard BASALTIC ROCK was found at the final depth of the boring at 21 feet.

Boring 3 encountered 5.5-inches of A.C. followed by stiff, brown to dark-brown SILT to a depth of 4 feet, then by medium dense, black-brown SAND to a depth of 6 feet. At 6 feet, very dense, tan CORAL was found to a depth of 8 feet followed by very loose, tan SAND to a depth of 13.5 feet. This was followed by very stiff to stiff, light-brown and gray elastic SILT to a depth of 20 feet where hard BASALTIC ROCK was found to the final depth of the boring at 20.5 feet.

Boring 4 encountered 5-inches of A.C. followed by medium stiff, brown to dark-brown SILT to a depth of 6 feet followed by medium stiff to stiff, light-brown and gray CLAY to a depth of 13.5 feet. This was followed by

medium dense, tan, brown, white and orange clayey SAND to a depth of 18.5 feet then by very stiff, light-brown elastic SILT to a depth of 24.5 feet where hard BASALTIC ROCK was found to the final depth of the boring at 24.75 feet.

Groundwater was encountered in Borings 1, 2 and 4 at depths of 10.5 to 23.33 feet at the time of the field investigation. Groundwater was not observed in Boring 3.

From the USDA Soil Conservation Service "Soil Survey of the Islands of Kauai, Oahu, Maui, Molokai and Lanai, State of Hawaii", the site is located in an area designated as Ewa silty clay loam, moderately shallow, 0 to 2 percent slopes (EmA). The Ewa series consists of well-drained soils in basins and on alluvial fans on the islands of Maui and Oahu. These soils developed in alluvium derived from basic igneous rock. *This soil has a profile like that of Ewa silty clay loam, 3 to 6 percent slopes (EaB), except that the depth to coral limestone is 20 to 50 inches.* On this soil, permeability is moderate. Runoff is very slow, and the erosion hazard is no more than slight (USDA, 1972, pg. 30, Plate 62).

4.3 Geology

The site is located on the southeastern flank of the elongated Koolau Mountain range. The mountain range is believed to have formed during the late Tertiary/early Pleistocene time (between 1 and 12 million years ago). Lavas flowed from rift zones roughly paralleling the existing mountain crest trends to form the main shield of the volcano. After cessation of the main volcanic activity, erosion reduced the height of the volcanic dome by as much as 1,000 feet. Stream activity cut deep valleys into the mountain range. During high stands of sea levels, the valleys were infilled with sediment (alluviated) grading to the high sea level stands (Stearns, 1967).

The underlying CORAL formation developed in shallow ocean water along the shoreline of Oahu during various stands of the ocean.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 General

Based on the findings and observations of this investigation, it is concluded that the proposed three-story building should be supported on deep foundations. Structural elements with loads of up to 150 kips for column and 12 kips per lineal foot for walls may be supported on shallow footings.

5.2 Special Considerations

Special considerations are anticipated for the design and construction of the project due to existing soil conditions. These include but may not be limited to the following:

a) The site was found to be underlain by variable soil conditions. In order to minimize the possible adverse effects from differential settlement of the foundations, it is recommended that heavily loaded structural elements (column loads greater than 150 kips and wall loads greater than 12 kips per lineal foot) be supported on deep foundations that bear on the underlying BASALTIC ROCK encountered at depths of 20 to 26.5 feet below grade. Lighter loaded foundations can be supported on spread and continuous footings.

b) Deep foundations typically consist of driven precast concrete piles, auger cast in-place piles, cast-in-place concrete piles (caissons), or injection-bored micropiles.

c) The CORAL formation found in Borings 1, 2 and 3 at depths of 6 to 6.75 feet below grade varied from 2 to 7.5 feet in thickness. CORAL was not found in Boring 4. The CORAL is medium dense to very dense and pre-drilling of the CORAL layer will likely be required to install driven concrete piles, auger-cast in-place piles and caissons. Injection bored micropiles can generally be installed without pre-drilling.

5.3 Deep Foundations

Deep foundations may consist of either driven, prestressed, precast concrete piles, auger cast in-place piles, cast-in-place piles (caissons), or injection bored micropiles. For pile groups, the minimum pile spacing shall be 3-times the pile diameter (center to center) in order to maintain 100% efficiency. A reduction to the pile capacity should be used for closer spacing.

5.3.1 Driven Prestressed, Precast Concrete Piles

For precast, prestressed concrete piles, the allowable bearing values and pile driving criteria are as follows:

Pile Size	Allowable Bearing Capacity (tons)	Lateral Bearing Capacity (tons), assumes 1/4 inch deflection	(See Note 1) Pile Driving Criteria	
			Last 6-Inches	Last 1-Inch
10" square	50	3	6	1
12" square	75	4.5	18	3
16-1/2" octagonal	120	6	36	6

Notes:

(1) It is recommended that the piles be driven with a hammer having a manufacturer's rated energy of at least 32,000 foot-pounds.

5.3.2 Auger Cast In-Place Piles and Caissons

For design of auger cast in-place piles and caissons, the allowable end-bearing capacity may be assumed as 150,000 psf for piles and caissons that bear into the BASALTIC ROCK formation. Skin-friction may be assumed as 2,000 pounds per square foot of sidewall area; neglect the upper 3-feet.

5.3.3 Injection-Bored Micropiles

Injection bored micropiles consist of a continuously threaded, hollow reinforcing rod with a grout body.

The grout body provides the frictional resistance, corrosion protection and stiffness against buckling. The inner steel rod acts as the load carrying member. The micropile is installed by drilling the steel rod into the soil with a larger diameter drill bit. The rod is drilled using a rotary percussive drill rig and grout fluid that provides the grout body around the steel rod.

The allowable bearing capacity of an individual micropile may be calculated using the following equation based on the subsurface soil conditions:

$P = Psf + Peb$

P (allowable axial bearing capacity in compression), in pounds

Psf (allowable skin-friction bearing capacity), in pounds

$Psf = (\pi \times D \times L \times Q)/FS$

Peb (allowable end-bearing capacity), use 20,000 pounds

D (effective grout body diameter; use 1.4 times the drill bit diameter), in feet

L (embedment depth of micropile), in feet

Q (ultimate frictional resistance of soil), in psf;

Q may be assumed as 2,000 psf for the underlying soil.

FS (safety factor) (use a minimum of 2.0)

The upper 3-feet of soil should be ignored in determining the total embedment length of the micropile.

For uplift or pull-out capacity, only the skin-friction value should be used. The maximum load bearing capacity should not exceed the yield capacity of the steel drill rod.

Micropiles have limited lateral capacity. If lateral resistance is required, battered micropiles may be used in either tension or compression. The lateral bearing shall be based on the horizontal component of the batter.

The design parameters for various rod/bar sizes are presented in the following table:

Rod/Bar Size	(1) Design Load Capacity (kips)	(2) Recommended Minimum Bit Diameter (mm)
Titan 30/16	25	75
Titan 32/20	33	75
Titan 30/11	36	75
Titan 40/20	60	110
Titan 40/16	75	110
MAI R25N	34	42
MAI R32N	52	51
MAI R32S	63	51

NOTES:

(1) The design load capacity is an allowable load for permanent loading conditions and may be used for both compression and tension (pull-out).

(2) For corrosion protection in soil, the recommended minimum concrete cover around the rod is 20 mm.

(3) It is recommended that the upper 3-feet be neglected when calculating the embedment length. The minimum spacing between micropiles should be a minimum of 3 pile diameters. If closer spacing is necessary, a group efficiency factor should be applied to the pile cluster.

5.3.4 Test Pile Program

It is recommended that at least one pile load test be conducted to verify the bearing capacity of the piles. The load test shall be conducted in accordance with the ASTM D1143 procedure. Upon completion of the load test program, the information should be reviewed to determine possible modification to the pile driving criteria.

5.4 Shallow Foundations

Structures with loads of up to 150 kips for column and 12 kips per lineal foot for walls may be supported on shallow footings.

An allowable soil bearing pressure of 3,000 psf may be used for footings bearing on firm on-site soils and/or properly compacted structural fill. The bearing value is for dead plus live loads and may be increased by one-third for momentary loads due to wind or seismic forces. If any footing is eccentrically loaded, the maximum edge pressure shall not exceed the bearing pressure for permanent or for momentary loads.

Footings shall be embedded a minimum of 24-inches below the lowest adjacent finished grade (measured to the bottom of the footing).

All loose and disturbed soil at the bottom of footing excavations shall be removed to firm soil or the disturbed soil shall be compacted prior to laying of steel or pouring of concrete.

5.5 Foundation Settlement

It is estimated that the settlement of foundations will be as follows:

a) Deep foundations: less than 1/2 inch

b) Shallow foundations: on the order of 1-inch for 7-foot square column footings and 4-foot wide continuous footings with a soil bearing pressure of 3,000 psf

5.6 Site Class Definition

In accordance with the 2006 International Building Code, the site class and soil profile name may be assumed as C: very dense soil and soft rock profile.

5.7 Lateral Earth Pressure Coefficients

The values for the lateral earth coefficients and frictional resistance may be assumed as follows:

Material Type	Passive Earth Coefficient (Kp)	Active (Unrestrained) Earth Coefficient (Ka)	At-Rest Earth Coefficient (Ko)	Frictional Coefficient (x D.L.)	Unit Weight (pcf)
On-site soils	2.5	0.40	0.60	0.45	105
Imported Granular Fill	3.5	0.27	0.42	0.7	140

NOTES:

1) The allowable passive earth resistance values may be used for structural elements in direct contact with undisturbed material. Where the ground surface adjacent to the resisting element is exposed to the weather, the top 12 inches shall be neglected in calculating the passive earth resistance. This is to allow for soil shrinkage and/or erosion.

2) Lateral resistance and friction may be combined.

3) The above active earth coefficients do not include surcharge loads such as footings located within a 45-degree plane projected upwards from the heel of the footing, sloping ground and/or from hydrostatic pressures. If such conditions occur, the active earth pressures shall be increased accordingly.

5.8 Retaining Walls

Retaining walls shall be designed as per the applicable foundation sections and the lateral earth pressure coefficient values presented above.

Free-standing walls are defined as walls that are allowed to rotate between 0.005 and 0.01 times the wall height. The rotation of the wall develops "active earth pressures." If the wall is not allowed to move as in the case of basement walls or walls that are restrained at the top, the soil pressure that will develop is known as an "at-rest" pressure. For restrained walls, the “at-rest” active earth coefficient shall be used.

In areas where there is no pavement or slab abutting the retaining wall, it is recommended that the top 12 inches of backfill consist of an “impermeable” layer of soil such as topsoil in order to minimize excessive surface water seepage into the backfill material. Surface grading shall also be provided to minimize ponding of water in the backfill area of the wall.

Drainage of the retaining wall backfill material shall be accomplished by providing 4-inch diameter weepholes spaced 8-feet on-center or by using a minimum 4-inch diameter perforated PVC footing drain pipe. One (1) cubic foot of crushed rock (#3-fine or similar) that is wrapped with geotextile fabric shall be placed behind each weephole. Footing drain pipes shall be surrounded with crushed gravel (minimum 12-inches by 12-inches in cross section) which is wrapped with geotextile filter fabric. Geotextile fabric shall be MIRAFI 140N, or similar.

Backfill for retaining walls shall be properly compacted in accordance with the Site Preparation and Grading section to this report.

5.9 Slab-on-Grade

For concrete slab-on-grade construction, it is recommended that a minimum of 6-inches of granular fill be placed beneath the slab. Any granular cushion or capillary barrier may be considered as part of the 6-inch thickness.

Slabs may be designed using a modulus of subgrade reaction of 150 pci for the on-site soils.

It is recommended that slabs-on-grade with moisture sensitive floor covering be protected with a moisture barrier.

It is recommended that the subgrade soil be prepared in accordance with the Site Preparation and Grading section to this report.

5.10 Pavement Design

Flexible (asphaltic concrete) pavement areas to be used by cars and light trucks (up to 10,000 pound GVW) may be designed using 2 inches of asphaltic concrete on 6 inches of compacted base course gravel. In areas used by heavier vehicles, the flexible pavement section shall be increased to 2-1/2 inches of A.C., 6 inches of base course gravel, and 6 inches of select borrow.

Rigid (concrete) pavements may be designed using 6 inches of concrete poured on 6-inches of compacted base course gravel.

The base course gravel and the top 6 inches of subgrade shall be compacted to at least 95 percent of the maximum dry density as determined by the ASTM D1557 test procedure.

All material quality and compaction requirements for the pavement section shall be in accordance with Hawaii Standard Specifications for Road and Bridge Construction, dated 2005.

5.11 Site Preparation and Grading

It is recommended that the site be prepared in the following manner:

1. Clearing and Grubbing:

   In all areas to receive fill and in structural areas, all vegetation, weeds, brush, roots, stumps, rubbish, debris, soft soil and other deleterious material shall be removed and disposed of off-site.

2. Preparation of Ground to Receive Fill:

   The exposed surface shall then be scarified to a depth of 6 inches, moisture conditioned to near optimum moisture (ASTM D1557) and then compacted to the degree of compaction specified below. If soft or loose spots are encountered, the loose/soft areas shall be removed to firm material and the resulting depression shall be filled with properly compacted fill.

3. Types of Fill and Backfill Material:

Structural fill and backfill areas shall be described as areas beneath and extending a horizontal distance of 3 feet beyond the edge of the building line. Non-structural fill areas shall be described as areas beyond 3 feet from the edge of the building line.

4. Material Quality:

Fill and backfill material shall consist of soil which is free of organics and debris. The maximum size particle for fill and backfill material shall be as follows:

a. Structural areas

Top 2 feet below finished subgrade (FSG)	3"
Below 2 feet from FSG	6"

b. Non-structural and pavement areas

Top 2 feet from FSG	3"
2 to 6 feet from FSG	6"
*Below 6 feet from FSG	12"

(FSG = Finished Subgrade Elevation)

*If larger rock or boulders (up to 12 inches in diameter) are used in deep fills, they shall be well embedded. The interstices between the rock or boulders shall be filled with fine-grained material so as to produce a dense compacted mass. If utility lines are to be installed within areas filled with larger material, the maximum particle size shall be reduced to minimize obstruction of trenching work.

Structural fill and backfill material shall have a Unified Soil Classification of either GW, GM, GC, SW, SM, SP or SC. The plasticity index of the fine portion as determined by the ASTM D4318-84 test shall be less than 15. Retaining wall backfill material and granular fill placed beneath concrete floor slabs may also consist of clean gravel such as #3-fine gravel.

The gradation and material quality of the pavement base course and select borrow shall be in accordance with the Hawaii State Standard Specifications for Road and Bridge Construction, dated 2005.

5. Placement of Fill and Backfill:

Each layer of fill and backfill material shall be placed in lifts not exceeding the following (loose thickness):

a. Structural areas

Top 2 feet below finished subgrade (FSG)	8"
Below 2 feet from FSG	12"

b. Non-structural areas

Top 6 feet from FSG	12"
Below 6 feet from FSG	*

*The loose thickness of this layer shall not exceed 1.5 times the largest size particle; this is predicated upon proper compaction of each lift.

Prior to placing, the fill and backfill material shall be aerated or moisture conditioned to near optimum moisture content (ASTM D1557 test procedure).

Where fill is placed on existing ground that is steeper than 5 horizontal to 1 vertical, the existing ground surface shall be benched into firm soil as the fill is placed.

6. Degree of Compaction:

Each layer of fill and backfill material, and the ground surface that is exposed and scarified after clearing and grubbing, shall be thoroughly compacted from edge to edge using conventional compaction equipment. The minimum degree of compaction for each layer (as determined by the

ASTM D1557 test procedure) shall be as follows:

a.	Structural areas	95%
b.	Pavement areas	
	Top 2 feet below finished subgrade (FSG)	95%
	Below 2 feet from FSG	90%
c.	Non-structural areas	*90%

*Where compaction tests are not practical due to the size of the material, each layer shall be compacted by trackrolling until it does not weave or creep under the weight of the trackrolling equipment (D-8 dozer or larger).

It is particularly important to see that all fill and backfill soils are properly compacted in order for the design parameters to remain applicable.

7. Preparation of Shallow Footing Excavations:

Prior to placing of steel or pouring of concrete, the bottom of all footing excavations shall be cleaned of loose material and soils that have been disturbed by the excavation process. Any soft or loose soil encountered at the bottom of the footing excavation that cannot be properly compacted shall be removed to firm material to a maximum of 24-inches below the bottom of footing elevation. The resulting depression shall then be backfilled with properly compacted structural fill, concrete, controlled low-strength material (CLSM) or other approved backfill material.

8. Site Drainage:

During construction, drainage shall be provided to minimize ponding of water adjacent to or on foundation and pavement areas. Ponded areas shall be drained immediately. Any subgrade soil that has become soft due to ponding shall be removed to firm material and replaced with compacted structural fill.

6.0 INSPECTION

During the progress of construction, so as to evaluate compliance with the design concepts, specifications and recommendations contained in this report, it is highly recommended that qualified engineering personnel should be present to observe the following operations:

1. Site preparation.
2. Placement of fill and backfill.
3. Installation of foundations.

7.0 REMARKS

The conclusions and recommendations contained herein are based on the findings and observations made at the boring locations. If conditions are encountered during construction which appear to differ from those disclosed by the explorations, this office shall be notified so as to consider the need for modifications.

This report has been prepared for the exclusive use of the Kalihi Palama Health Center, and their respective design consultants. It shall not be used by or transferred to any other party or to another project without the consent and/or thorough review by this facility. Should the project be delayed beyond the period of one year from the date of this report, the report shall be reviewed relative to possible changed conditions.

Samples obtained in this investigation will deteriorate with time and will be unsuitable for further laboratory tests within one (1) month from the date of this report. Unless otherwise advised, the samples will be discarded at that time.

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The following are included and complete this report:

Appendix
- Field Investigation
- Laboratory Testing
- Vicinity Map
- Plot Plan
- Logs of Borings
- Results of Laboratory Tests

APPENDIX

FIELD INVESTIGATION

General

The field investigation consisted of performing explorations at the locations shown on the Plot Plan. The borings were advanced with a CME 55 drill rig using 4-inch diameter continuous flight augers, and HQ coring equipment.

Samples of the underlying soils were obtained from the borings by driving a soil sampler into the subsurface material using an automatic hammer that has an energy equivalent to a 140-pound safety hammer falling from a height of 30 inches.

Relatively undisturbed ring samples were obtained using a 3-inch outside diameter, 2.5 inch inside diameter steel sampler with an interior lining of one-inch long, thin brass rings. Undisturbed soil samples were obtained using a Standard Penetration sampler (2-inch outside diameter). The sampler is driven approximately 18 inches into the soil (or refusal) and the number of blows required to drive the sampler is recorded at 6-inch intervals. The blow count for the last 12-inches is shown on the boring logs.

The sampler is retracted from the bore hole and a section of the retrieved soil is placed in a close fitting waterproof container in order to retain field conditions until completion of the laboratory tests. The soil samples are visually classified in the field using the Unified Soil Classification System. Samples are then packed in moisture proof containers and transported to the laboratory for testing.

LABORATORY TESTING

General

Laboratory tests are performed on various soil samples to determine their engineering properties. Description of the various tests are listed below.

Unit Weight and Moisture Content

The in-place moisture content and unit weight of the samples are used to correlate similar soils at various depths. The sample is weighed, the volume determined, and a portion of the sample is placed in the oven. After oven-drying, the sample is again weighed to determine the moisture loss. The data is used to determine the wet-density, dry-density and in-place moisture content.

Classification Tests

The terms and symbols used to describe the soil materials are based on the Unified Soil Classification System which provides a basis for classifying soils using either visual methods or laboratory test results. Laboratory tests include sieve and hydrometer analysis for particle size distribution, and Atterberg Limits test for liquid limit, and plasticity index determination.

Grain-size distribution of the soil is determined by passing the soil through a series of sieves. If 50 percent or more of the soil by dry weight passes the #200 sieve, the soil is classified as fine-grained. If more than 50 percent of the soil by dry weight is retained on the #200 sieve, the soil is classified as coarse grained.

Coarse grained soils are described as follows:

Boulder:	Material retained on a 12-inch square sieve
Cobble:	Material passing a 12-inch sieve but retained on a 3-inch sieve
Gravel:	Material passing a 3-inch sieve but retained on a #4 sieve
Sand:	Material passing a #4 sieve but retained on a #200 sieve

Fine-grained materials are silts and clays. The liquid limit and plastic limit results from an Atterberg Limits test are used to determine if the soil is a silt or clay.

Direct Shear

Direct shear tests are performed to determine the strength characteristics of the representative soil samples. The test consists of placing the sample into a shear box, applying a normal load and then shearing the sample at a constant rate of strain. The shearing resistance is recorded at various rates of strain. By varying the normal load, the angle of internal friction and cohesion can be determined.

Consolidation Test

Consolidation tests are performed to obtain data from which time rates of consolidation and amounts of settlement may be estimated. The test is performed by placing a specimen in a consolidation apparatus. Loads are applied in increments to the circular face of a one (1) inch high sample. Deformation or changes in thickness of the specimen are recorded at selected time intervals. Water is introduced to or allowed to drain from the sample through porous disks placed against the top and bottom faces of the specimen. The data is then used to plot a stress-volume strain curve which is used in estimating settlement.

Penetrometer Test

Penetrometer tests are performed on clayey soils to determine the consistency of the material and an approximate value of the unconfined compressive strength.

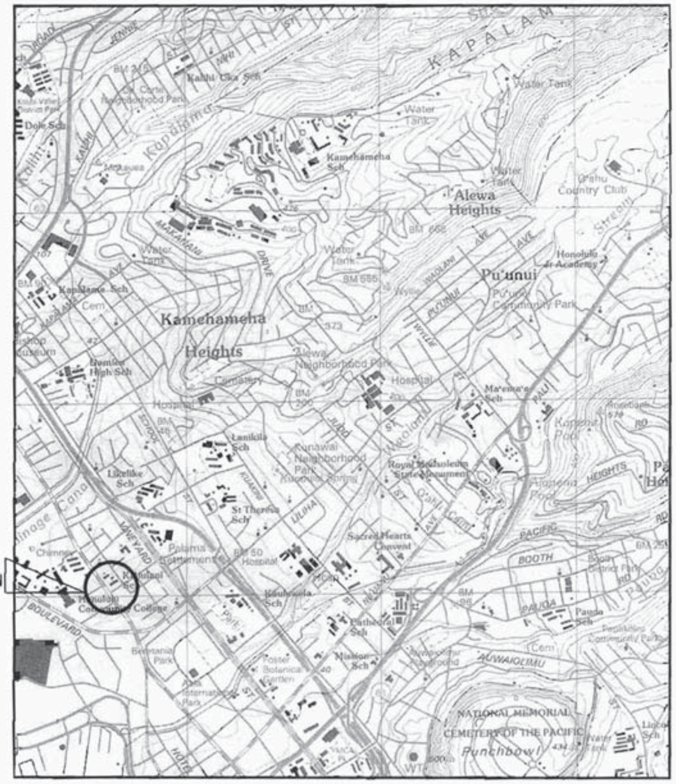
Torvane

Torvane tests are used to determine the approximate undrained shear strength of clayey soils. The torvane apparatus consists of a torque device with a small diameter plate that has vanes situated perpendicular to the plate. The vanes are pushed into the soil and torque is applied until failure occurs. The torque required to cause failure is converted to approximate undrained strength of the soil.

Expansion Test - Ring Swell

Expansion tests are performed on clayey soils to determine the expansion potential of the sample. The test is performed using either a remolded or relatively undisturbed field sample. The sample is placed in an expansion apparatus with a one (1) psi surcharge. The sample is saturated and the change in vertical height is recorded. The initial moisture content is varied (field moisture or air-dried) to determine the variation in expansion potential with moisture changes. The data is used to determine the expansion potential of the soil.

VICINITY MAP



TRUE NORTH

SITE LOCATION

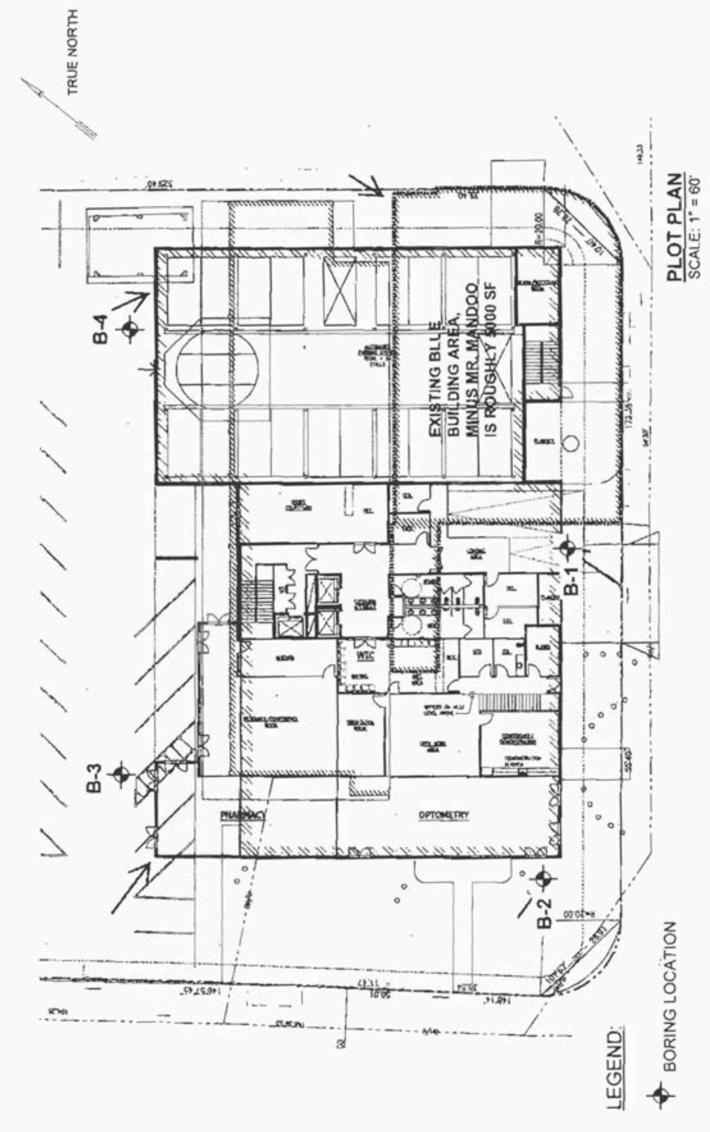
REFERENCE:
USGS TOPOGRAPHIC MAP
HONOLULU QUADRANGLE
DATED 1998

KALIHI PALAMA HEALTH CENTER
710 NORTH KING STREET

SHINSATO ENGINEERING, INC.
CONSULTING GEOTECHNICAL ENGINEERS

98-747 KUAHAO PL., #E
PEARL CITY, HI 96782

PROJECT NO	12-0153
DATE:	03/13
SCALE	1"=2000'
PLATE	1



PLOT PLAN
SCALE: 1" = 60'

LEGEND:
BORING LOCATION

Project: KALIHI PALAMA HEALTH CENTER
710 NORTH KING STREET
Project No.: 12-0153

SHINSATO ENGINEERING, INC.
CONSULTING GEOTECHNICAL ENGINEERS
98-747 KUAHAO PL., #E
PEARL CITY, HI 96782

PLATE 2

LOG OF BORING NO. 1

DRILLING METHOD: **CME 55**
HAMMER WEIGHT (lbs): **140**
HAMMER DROP (in): **30**

ELEVATION: **Unknown**
DEPTH OF BORING (FT.): **27.416**
DEPTH TO GROUNDWATER (FT.): **10.5'**
DATE DRILLED: **January 7, 2013**

DEPTH (FT.)	UNIFIED SOIL CLASSIFICATION	DESCRIPTION	SAMPLE	BLOWS/FOOT	COLOR	MOISTURE	CONSISTENCY	DRY DENSITY (PCF)	MOISTURE CONTENT (% OF DRY WT.)	PENETROMETER (TSF)	TORVANE STRENGTH (TSF)
0	(AC)	2" ASPHALTIC CONCRETE;			black brown	moist	medium dense				
	GP	7" GRAVEL;			dark brown						
	ML	SILT, trace gravel					stiff				
2			■	22				77.2	42.7	3.1	0.125
4			■	20				72.3	39.5		
6	(CR)	CORAL; with sand			tan white		dense				
			■	70				89.4	13.1		
8											
10			■	44		▼		95.3	12.1		
12											
14	MH	elastic SILT; with sand and gravel			brown, light brown, black		very stiff				
			■	42				90.5	30.7		
16											
18					brown						
20			■	48				101.0	30.5		
22											
24			■	39				88.7	36.7		
		PROBE from 25.5' - 27.5'		23							
26	(RX)	BASALT		64/11"	gray		hard				
28		END OF BORING									
30											

PROJECT NAME: KALIHI PALAMA HEALTH CENTER
710 NORTH KING STREET
PROJECT NO.: 12-0153

SHINSATO ENGINEERING, INC.
Consulting Geotechnical Engineers
98-747 Kuahao Place, #E
Pearl City, HI 96782

PLATE **3**

LOG OF BORING NO. 2

DRILLING METHOD: **CME 55**
HAMMER WEIGHT (lbs): **140**
HAMMER DROP (in): **30**

ELEVATION: **Unknown**
DEPTH OF BORING (FT.): **21**
DEPTH TO GROUNDWATER (FT.): **19.0'**
DATE DRILLED: **January 7, 2013**

DEPTH (FT.)	UNIFIED SOIL CLASSIFICATION	DESCRIPTION	SAMPLE	BLOWS/FOOT	COLOR	MOISTURE	CONSISTENCY	DRY DENSITY (PCF)	MOISTURE CONTENT (% OF DRY WT.)	PENETROMETER (TSF)	TORVANE STRENGTH (TSF)
0	(AC)	3" ASPHALTIC CONCRETE;			brown	moist	soft				
	ML	SILT; trace gravel									
2			■	7				84.7	28.0	0.5	
							medium stiff				
4			■	10				73.8	46.8	1.9	
6											
8	(CR)	CORAL; with sand	■	31	tan white		medium dense	91.4	18.8		
							very stiff				
10		--some gravel	■	26				94.0	15.4		
12											
14	SM	silty SAND;					medium dense				
			■	55				88.2	24.1		
16											
18	MH	elastic SILT; with gravel			dark brown, black	▼	very stiff				
20			■	48				98.6	23.4		
	(RX)	BASALT			gray		hard				
22		END OF BORING									
24											
26											
28											
30											

PROJECT NAME: KALIHI PALAMA HEALTH CENTER
710 NORTH KING STREET
PROJECT NO.: 12-0153

SHINSATO ENGINEERING, INC.
Consulting Geotechnical Engineers
98-747 Kuahao Place, #E
Pearl City, HI 96782

PLATE **4**

LOG OF BORING NO. 3

DRILLING METHOD: **CME 55**
HAMMER WEIGHT (lbs): **140**
HAMMER DROP (in): **30**

ELEVATION: **Unknown**
DEPTH OF BORING (FT.): **20.5**
DEPTH TO GROUNDWATER (FT.): **Unknown**
DATE DRILLED: **January 7, 2013**

DEPTH (FT.)	UNIFIED SOIL CLASSIFICATION	DESCRIPTION	SAMPLE	BLOWS/FOOT	COLOR	MOISTURE	CONSISTENCY	DRY DENSITY (PCF)	MOISTURE CONTENT (% OF DRY WT.)	PENETROMETER (TSF)	TORVANE STRENGTH (TSF)
0	(AC)	5.5" ASPHALTIC CONCRETE;									
	ML	SILT; some gravel			brown, dark brown	slightly moist	stiff				
2			■	31				107.3	20.4	6.0	
4	SP	SAND; few gravel	■	23	black and brown		medium dense	68.0	20.2		
6	(CR)	CORAL; with sand		7/0"	tan		very dense		10.3		
8	SP	SAND; with gravel					very loose				
10			■	3				66.4	22.7		
12											
14	MH	elastic SILT; with gravel			light brown, gray		very stiff				
			■	92				90.8	22.4		
16											
18		--few gravel					stiff				
			■	25		moist		80.0	30.6		
20	(RX)	BASALT			gray		hard				
		END OF BORING									
22											
24											
26											
28											
30											

PROJECT NAME: KALIHI PALAMA HEALTH CENTER
710 NORTH KING STREET

PROJECT NO.: 12-0153

SHINSATO ENGINEERING, INC.
Consulting Geotechnical Engineers
98-747 Kuahao Place, #E
Pearl City, HI 96782

PLATE **5**

LOG OF BORING NO. 4

DRILLING METHOD: **CME 55**
HAMMER WEIGHT (lbs): **140**
HAMMER DROP (in): **30**

ELEVATION: **Unknown**
DEPTH OF BORING (FT.): **24.75**
DEPTH TO GROUNDWATER (FT.): **23.33'**
DATE DRILLED: **January 8, 2013**

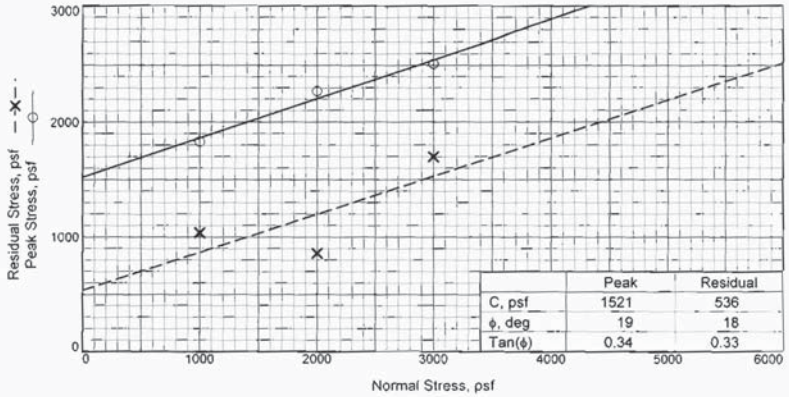
DEPTH (FT.)	UNIFIED SOIL CLASSIFICATION	DESCRIPTION	SAMPLE	BLOWS/FOOT	COLOR	MOISTURE	CONSISTENCY	DRY DENSITY (PCF)	MOISTURE CONTENT (% OF DRY WT.)	PENETROMETER (TSF)	TORVANE STRENGTH (TSF)
0	(AC)	5" ASPHALTIC CONCRETE;									
	ML	SILT; trace gravel			brown, dark brown	slightly moist	medium stiff				
2			■	16				95.0	23.4		
4		--some glass pieces	■	11				95.0	24.9		
6	CH	CLAY; no glass			light brown, gray	moist					
			■	15				75.4	48.5	2.0	0.5
8											
							stiff				
10			■	24				72.8	45.6	3.2	1.1
12											
14	SC	clayey SAND;			tan, brown, white, orange		medium dense				
			■	20				89.0	33.2		
16											
18		--some gravel			light brown						
			■	29					30.1		
20											
22											
24	(RX)	BASALT	■	45/15"	gray		hard	76.9	45.7		
		END OF BORING									
26											
28											
30											

PROJECT NAME: KALIHI PALAMA HEALTH CENTER
710 NORTH KING STREET

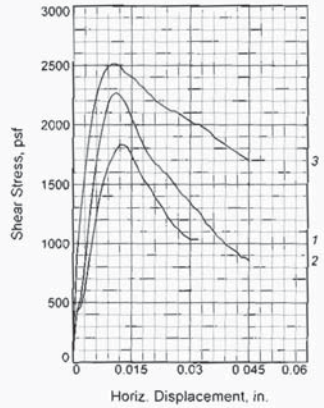
PROJECT NO.: 12-0153

SHINSATO ENGINEERING, INC.
Consulting Geotechnical Engineers
98-747 Kuahao Place, #E
Pearl City, HI 96782

PLATE **6**



	Peak	Residual
C, psf	1521	536
ϕ, deg	19	18
Tan(ϕ)	0.34	0.33



	Sample No.	1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.42	2.42	2.42
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
	Normal Stress, psf	1000	2000	3000
	Peak Stress, psf	1829	2270	2513
	Displacement, in.	0.01	0.01	0.01
	Residual Stress, psf	1036	860	1697
	Displacement, in.	0.03	0.05	0.05
	Strain rate, in./min.	N/A	N/A	N/A

Sample Type:
Description: --no glass

Assumed Specific Gravity=
Remarks:

Client:

Project: KALIHI PALAMA HEALTH CENTER
710 NORTH KING STREET
Source of Sample: 4 **Depth:** 10.0
Sample Number: 4
Proj. No.: 12-0153 **Date Sampled:**

DIRECT SHEAR TEST REPORT
SHINSATO ENGINEERING, INC.
Pearl City, HI

Figure 7

EXPANSION TEST RESULTS

LOCATION	DEPTH	TEST DRY DENSITY (pcf)	MOISTURE CONTENT			SWELL (%)	TEST CONDITION	SWELL POTENTIAL
			BEFORE	AIR DRIED	SATURATED			
Boring 1, Sample 1	2.0'	95.2	28.1	18.7	40.2	13.7	remolded, air dried to saturation	very high

NOTES:
1. 1 psi surcharge

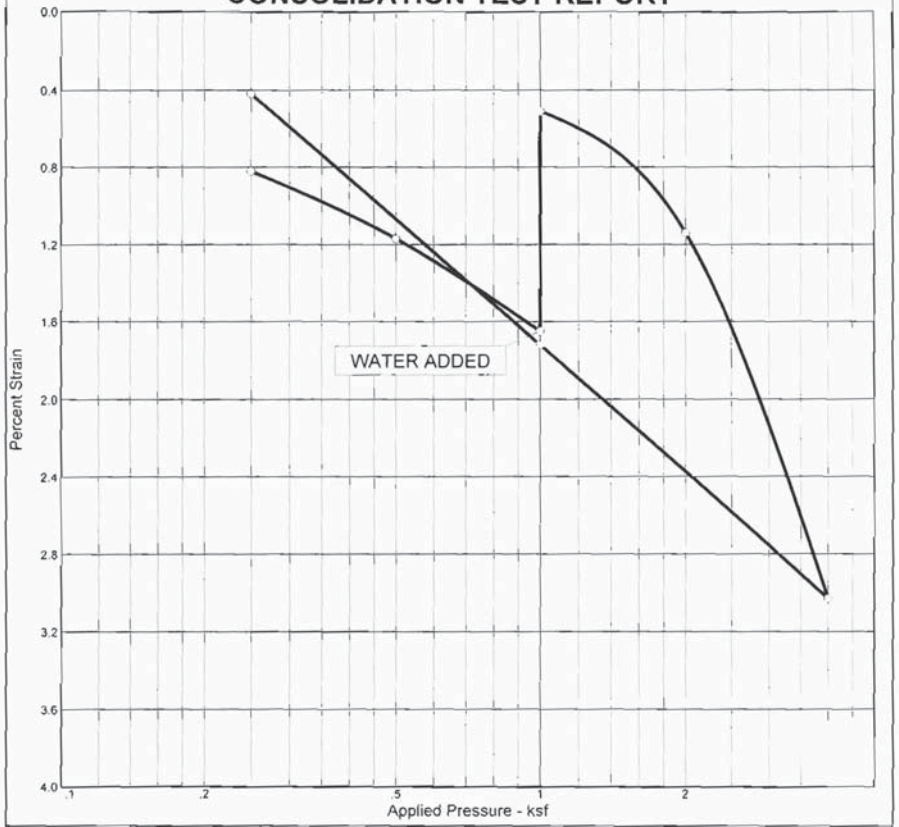
PERCENT SWELL	SWELL POTENTIAL
<2	low
2-6	moderate
6-10	high
>10	very high

Project: KALIHI PALAMA HEALTH CENTER
710 NORTH KING STREET
Project No.: 12-0153

SHINSATO ENGINEERING, INC.
CONSULTING GEOTECHNICAL ENGINEERS
98-747 KUAHAO PL., #E
PEARL CITY, HI 96782

PLATE 8

CONSOLIDATION TEST REPORT



Natural Sat.	Natural Moist.	Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (ksf)	P_c (ksf)	C_c	C_s	Swell Press. (ksf)	Swell %	e_o
91.6 %	48.4 %	73.1			3.07	0.70	1.92	0.17	0.06	2.52	1.1	1.621

MATERIAL DESCRIPTION	USCS	AASHTO
SILT;	ML	

Project No. 12-0153 **Client:**

Project: KALIHI PALAMA HEALTH CENTER
710 NORTH KING STREET

Source: 4 **Sample No.:** 3 **Elev./Depth:** 7.0

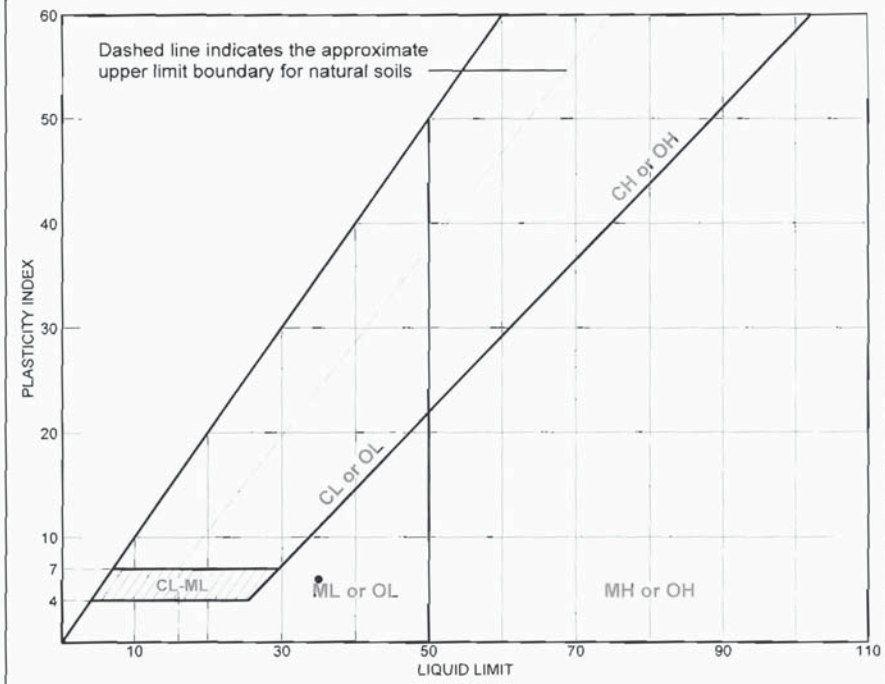
Remarks:

SHINSATO ENGINEERING, INC.

Pearl City, HI

Figure 9

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
•	3	1	2.0	20.4	29	35	6	ML

LIQUID AND PLASTIC LIMITS TEST REPORT

SHINSATO ENGINEERING, INC.

Pearl City, HI

Client:

Project: KALIHI PALAMA HEALTH CENTER
710 NORTH KING STREET

Project No.: 12-0153

Figure 10

Appendix H:

Transportation Assessment

FEHR PEERS

TECHNICAL MEMORANDUM

Date: February 3, 2015

To: Vincent Shigekuni, PBR Hawaii & Associates, Inc.

From: Dale Domingo and Sohrab Rashid

Subject: ***Transportation Assessment for the Proposed Consolidated Kalihi-Palama Health Center***

SD14-0148

Fehr & Peers has completed a transportation assessment for the proposed Kalihi-Palama Health Center (KPHC) facility located in the Kalihi-Palama area of Honolulu on the island of Oahu. The proposed project is located on the mauka side of North King Street and ewa of Pua Lane, and includes a new 10,000-square foot (sf) medical building plus 12 parking spaces in the first development phase, followed by refurbishing of the existing building on the site with medical office uses, for a total of approximately 20,000 sf of health center uses. The proposed project will consolidate and expand the existing services of three different KPHC sites in Kalihi. This memorandum includes an assessment of existing transportation facilities surrounding the project area, the proposed project's trip generation, and potential key circulation issues and impacts. The key findings and conclusions are presented first, followed by the more detailed assessment.

KEY FINDINGS AND CONCLUSIONS

The following findings resulted from the transportation assessment:

- The proposed project is estimated to generate 48 AM peak hour vehicle trips and 71 PM peak hour vehicle trips based on standard trip generation rates. However, these volumes does not assume the following trip reductions and are therefore considered conservative estimates:
    - Vehicle trips generated by the three existing KPHC sites in Kalihi are already on the street network, but the estimates listed above assume that all trips are new.
    - The project site is located in an area where walking and transit are the primary travel modes for many residents. The project location is also within walking distance to many residential areas, where many KPHC's current clients reside. Therefore, a significant amount of project trips will be made by walking and/or the bus rather than using a private vehicle.

    - There are several bus stops immediately adjacent to or within a short walking distance of the project site, including a ewa-bound stop directly in front of the site. According to the Kalihi Palama Draft Environmental Assessment (DEA), the Executive Director of KPHC anticipates that more than half of project trips will use TheBus.
    - The project site is located within a 1,600-foot walk of the future Honolulu Rail Transit Iwilei Station, which will also minimize the amount of traffic generated by the project.
- The project would result in negligible change to traffic operations on North King Street, Pua Lane, and Kanoa Street in terms of traffic operations, corridor flow, and safety.
- We recommend that the project driveways include appropriate signage that will effectively inform clients and visitors of additional parking at the adjoining church parking lot.
- With the extensive existing and planned bicycle and pedestrian network, no multi-modal impacts resulting from project implementation are anticipated to occur; however, we recommend removing three parking spots at the Pua Lane/Kanoa Street intersection to improve visibility of pedestrians and approaching traffic at this intersection and also recommend implementing an ADA-compliant ramp at the ewa-makai corner of the North King Street/Pua Lane intersection. These are existing deficiencies and correcting them would also benefit the project site. Project improvements should also include:
    - Providing secure on-site storage for a minimum of six bicycles for employees or visitors to encourage bicycle use to and from the site.
    - A separate pedestrian path on Kanoa Street ewa of Pua Lane (if feasible) to remedy an existing pedestrian deficiency, without significantly reducing the neighborhood parking supply or the vehicle capacity on Kanoa Street. The project currently includes construction of a new sidewalk along the Kanoa Street frontage and should only be responsible for installing the portion of the sidewalk path along its site frontage.
    - Installing an ADA-compliant ramp at the ewa-makai corner of the North King Street/Pua Lane intersection to facilitate mobility for all users. Install ADA compliant treatments (e.g., tactile warning ramp pads) at all existing wheelchair ramps at the two intersections adjacent to the project site.
    - Repainting the existing crosswalk striping at the Pua Lane/Kanoa Street to enhance visibility to approaching drivers.

EXISTING TRANSPORTATION FACILITES

This section describes the relevant roadway, transit, pedestrian, and bicycle facilities around the project site.

ROADWAY SYSTEM

Primary vehicular access to the project site is provided by North King Street and Pua Lane, with additional streets accommodating vehicle circulation within the study area. The key roadways providing access to the site are described below. Figure 1 illustrates the project location and the surrounding roadway system.

North King Street is a major arterial on the makai side of the project site that extends in a ewa-Diamond Head direction from Middle Street to Kapiolani Boulevard. Within the project area, North King Street is an undivided four-lane arterial with a posted speed limit of 25 miles per hour (mph). North King Street is bordered by a wide variety of community-oriented facilities including churches, schools, supermarkets, restaurants, and specialty services. It serves heavy traffic volumes during both AM and PM peak periods. During the AM peak hour, a Diamond Head-bound queue forms at the North King Street/Dillingham Boulevard-Liliha Street intersection that intermittently spills back into the Pua Lane intersection. However, this queue does not adversely affect Diamond Head-bound queues on North King Street at Pua Lane, as all vehicles are still able to clear the intersection in one signal cycle.

In addition to the four travel lanes, North King Street also permits on-street parallel parking on selected sections of the roadway. Currently, North King Street, between Pua Lane and Palama Street, is striped with three Diamond Head-bound lanes but parking is permitted along most of this section. Diamond Head of Robello Lane, the outside lane suddenly turns into a metered parallel parking lane. To reduce driver confusion, North King Street, from ewa of Robello Lane to Pua Lane, should be restriped to clearly indicate that: 1) only two Diamond Head-bound travel lanes are provided through the Pua Lane intersection, and 2) the third outside lane is ending.

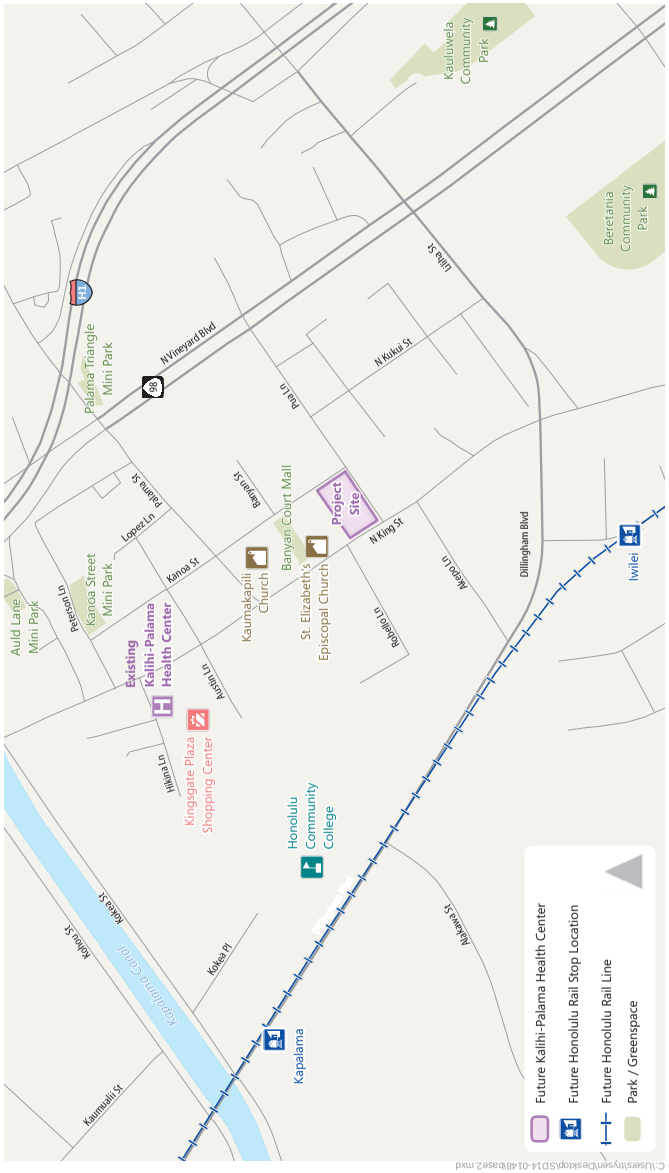


Figure 1
Project Site Location

Pua Lane is a mauka-makai two-lane roadway on the Diamond Head side of the project site that connects North King Street to Vineyard Boulevard. Pua Lane is bordered by residential units and provides on-street parallel parking on both sides of the street. This roadway includes a posted speed limit of 20 mph.

Kanoa Street is mauka-makai two-lane local street that extends ewa-Diamond Head between Peterson Lane and Pua Lane. The segment adjacent to the project site, between Palama Street and Pua Lane, does not provide sidewalks, but vehicles park at an angle on the unpaved shoulders on both sides of the street. Kanoa Street has a posted speed limit of 25 mph. During AM and PM peak periods, Kanoa Street serves minimal amount of traffic. At the Kanoa Street and Pua Lane side-street stop intersection, a vehicle stopped at Kanoa Street has difficulty seeing oncoming traffic traveling makai-bound on Pua Lane, as their sight line is blocked by parked vehicles on Pua Lane.

Palama Street is a mauka-makai two-lane local street that connects North King Street to Vineyard Boulevard. Palama Street has a posted speed limit of 25 miles per hour and parallel parking is provided on the Diamond Head side of the street where cars park on the unpaved shoulder. At the North King Street/Palama Street intersection, vehicle queues build up on Palama Street in the AM peak hour that reaches as far back as Lopez Lane. It typically requires two signal cycles for the queue to clear the intersection.

PEDESTRIAN AND BICYCLE FACILITIES

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, with the exception of Kanoa Road. The existing Kalihi-Palama Health Center is approximately a quarter of a mile ewa of the project site on North King Street. Sidewalks on North King Street between the existing health center and proposed project are in good condition with shaded areas provided by the trees on the makai side of the roadway.

Sidewalks on North King Street are wide and well-maintained. Though there are a few obstructions on the sidewalks, such as utility poles, bus shelters, and trees, there is generally adequate space to accommodate the level of pedestrian activity on North King Street. However, the North King Street sidewalk, immediately adjacent to the project site, does not meet ADA requirements, as a signal control box is located directly in the middle of the sidewalk and creates an obstacle for pedestrians and people with disabilities as they walk around it.

Although not as wide or aesthetic, the sidewalks on Pua Lane are also in fairly good condition, which includes grassed planting strips, curbs and gutters. Palama Street provides an asphalt path on the Diamond Head side of the street and a striped crosswalk on Palama Street at the Kanoa Street intersection. At this intersection, a vehicle is able to park on the Diamond Head-mauka corner of the intersection between the paths. To improve the visibility of pedestrians to drivers, parking should be prohibited at this location through installation of a small asphalt berm or other physical impediment.

Kanoa Street currently does not provide sidewalks on either side of the street; thus pedestrians are forced to walk in the street between moving vehicles and parked vehicles with no physical separation. This is not an ideal situation and numerous schoolchildren were observed walking this route during the AM peak hour. Ideally, a separate path at least 4-feet wide would be provided on one side of the street between the adjacent fence and the parked cars to remedy this existing deficiency. An asphalt berm could be used to prevent parked vehicles from encroaching on the path.

Marked crosswalks are provided at the two intersections immediately adjacent to the project site. The Pua Lane/Kanoa Street intersection includes two marked crosswalks on the ewa and makai legs of this side-street stop-controlled location. All crosswalks at the Pua Lane and Kanoa Street intersection include ADA compliant sidewalk ramps. For vehicles traveling mauka on Pua Lane, the visibility of pedestrians waiting to cross the Pua Lane crosswalk is obstructed because of parked vehicles makai of the crosswalk. Along the curbs on Pua Lane makai of the crosswalk, "No Parking" signs should be installed to prohibit parking for at least 20 feet to increase the visibility of pedestrians.

The North King Street/Pua Lane intersection includes striped crosswalks on all three legs of the signalized intersection. These crosswalks are all controlled with pedestrian signal heads with a "Flashing Don't Walk" timer. The crosswalk across Pua Lane is missing pedestrian push buttons, which

indicates that traffic movements that function simultaneously with this crosswalk (i.e. ewa and Diamond Head-bound traffic on North King Street) operate on pedestrian recall. This means a pedestrian call is actuated for the ewa and Diamond Head-bound phases during each signal cycle, whether a pedestrian crosses Pua Lane or not. Vehicles turning left from Pua Lane to North King Street must yield to pedestrians crossing the Diamond Head leg of North King Street, which creates conflict between pedestrians and vehicles.

ADA compliant ramps are included at the North King Street and Pua Lane intersection, with the exception of the makai side of the ewa leg crosswalk. Although the pavement is at the same grade as the sidewalk approximately ten feet Diamond Head of the crosswalk, this encourages pedestrians, and more importantly individuals in wheelchairs, to deviate from the striped crosswalk area.

No bicycle facilities are provided in the immediate vicinity of the site. While some bicyclists do share the roadway with vehicles on North King Street, some riders use the sidewalks to travel through the area (as shown in the photo), which creates potential conflicts between bicycles and pedestrians. The figure shows two bicyclists, one traveling on North King Street with traffic and the other on the sidewalk.

TRANSIT SERVICES

"TheBus" is Oahu's provider of public transit. This system provides access within the greater urban area of Honolulu, as well as in communities on the Leeward Coast, Central Oahu, North Shore, and Windward Coast. Transit ridership among residents in the area is significantly high and the study area is well served by bus stops, with a ewa-bound stop located immediately adjacent to the project site. The nearest Diamond Head bus stop is approximately 525 feet north

of the project site at the North King Street/Palama Street intersection. The ewa and Diamond Head-bound bus stops at the North King Street/Palama Street intersection serve high ridership during both AM and PM peak periods.

Bus transit service is provided on King Street via Route 1 and A. The stop directly in front of the project site only serves ewa-bound Route 1. Route 1 provides ewa weekday and weekend service between Kalihi and Hawaii Kai. During the weekdays, Route 1 operates on 10-minute headways between 4:00 AM to 1:00 AM in the Diamond Head direction and 5:00 AM to 1:30 AM in the ewa direction. Route A provides weekday and weekend service between Waipahu and University of Hawaii. Weekday operations for Route A are between 4:15 AM to 10:30 PM on 20-minute headways in the Diamond Head direction and 5:15 AM to 10:00 PM on 15-minute headways in the ewa Direction. The closest Route A stops are located on King Street at Palama Street (ewa- and Diamond Head-bound) and at Liliha Street in the ewa-bound direction.

In addition to the bus routes immediately adjacent to the project site, 27 fixed-route bus lines operate near and within approximately ¼-mile of the project site. These bus lines include routes on Dillingham Boulevard, Liliha Street, Vineyard Boulevard, and Beretania Street.

- Route C
- Route 1L
- Route 2
- Route 2L
- Route 3
- Route 9
- Route 11
- Route 13
- Route 40
- Route 42
- Route 43
- Route 52
- Route 53
- Route 54
- Route 62
- Route 81
- Route 83
- Route 84
- Route 84A
- Route 85
- Route 85A
- Route 88
- Route 88A
- Route 90
- Route 91
- Route 92
- Route 93
- Route 96
- Route 97
- Route 98
- Route 98A
- Route 101
- Route 102
- Route 103
- Route PH6

Sections of North King Street that prohibit on-street parking are used to create designated stopping areas for buses to serve passengers at the curbside. These locations are approximately 10 to 12 feet wide and provide sufficient space for buses to load and unload passengers without blocking traffic. Bus shelters are present at all bus stops near the project site The figure below shows a ewa-bound bus stopped in front of the project site, and not blocking traffic on North King Street.

PLANNED IMPROVEMENTS

BICYCLE FACILITIES

The Oahu Bike Plan includes plans for a new bicycle lane on King Street from Middle Street to Kapiolani Boulevard. The implementation of the proposed bikeway will further enhance bicycle travel and connectivity within greater Honolulu.

TRANSIT

The site is located with a 1,600-foot walk of the planned Iwilei Station that will provide access to the future Honolulu Rail Transit line. The Iwilei Station will be located at the intersection of Dillingham Boulevard and Kaaahi Street. This rail system will provide a more reliable and efficient transit service from East Kapolei through Honolulu to Ala Moana Shopping Center and will allow employees and clients of KPHC to commute to the project area without driving their vehicle. With the opening of the transit system, TheBus will re-organize routes and timetables to coordinate with rail transit to ensure direct and convenient connections to the Iwilei Station. The Iwilei Station will be less than a five-minute walk from the project site.

PROJECT DESCRIPTION

The project site is currently occupied by vacant buildings and is bounded by North King Street on the makai side, Pua Lane on the Diamond Head side, Kanoa Street on the mauka side, and the St. Elizabeth's Episcopal Church parking lot in the ewa side. The proposed project will include the construction of a new two-story building with 12 at-grade parking spaces, and renovation of the existing building on the mauka side of the site, which totals to approximately 20,000 sf of health center uses. The project proposes to repair or replace the sidewalk along the King Street and Pua Lane street frontages and includes construction of a new sidewalk on Kanoa Street along the site frontage. The Kanoa Street sidewalk will also include an ADA-compliant transition to the existing pavement or graded area.

PROJECT TRIP GENERATION

The proposed project will generate new vehicle trips by employees, patients, and visitors including deliveries. Trip generation estimates were based on data contained in *Trip Generation* (Institute of Transportation Engineers, 9th Edition, 2013). For this project, average trip rates for "Medical-Office" (code 720) land uses were applied. The trip generation rates and AM and PM peak hour inbound/outbound trips are presented in Table 1. The proposed project is estimated to generate approximately 722 daily trips, including 48 AM peak hour trips, and 71 PM peak hour trips. The peak hour volumes equate to an average of slightly less or slightly more than one new vehicle per minute added to the existing roadway network.

TABLE 1: PROJECT TRIP GENERATION

Land Use	Quantity	Trip Rate[1]			Daily Total Trips	Peak Hour Trips					
						AM Peak Hour			PM Peak Hour		
		Daily	AM	PM		In	Out	Total	In	Out	Total
Health Center	20,000 sf	36.13	2.39	3.57	722	38	10	48	20	51	71

Notes:

1. Average vehicle trip rates for Medical Office Building (Land Use 720) from *Trip Generation* (9th Edition, Institute of Transportation Engineers, 2013).

Source: Fehr & Peers, 2014

It is important to note that the standard trip rates do not account for: 1) a reduction of trips made by a higher than typical use of non-auto modes at this location, or 2) the fact that the project will

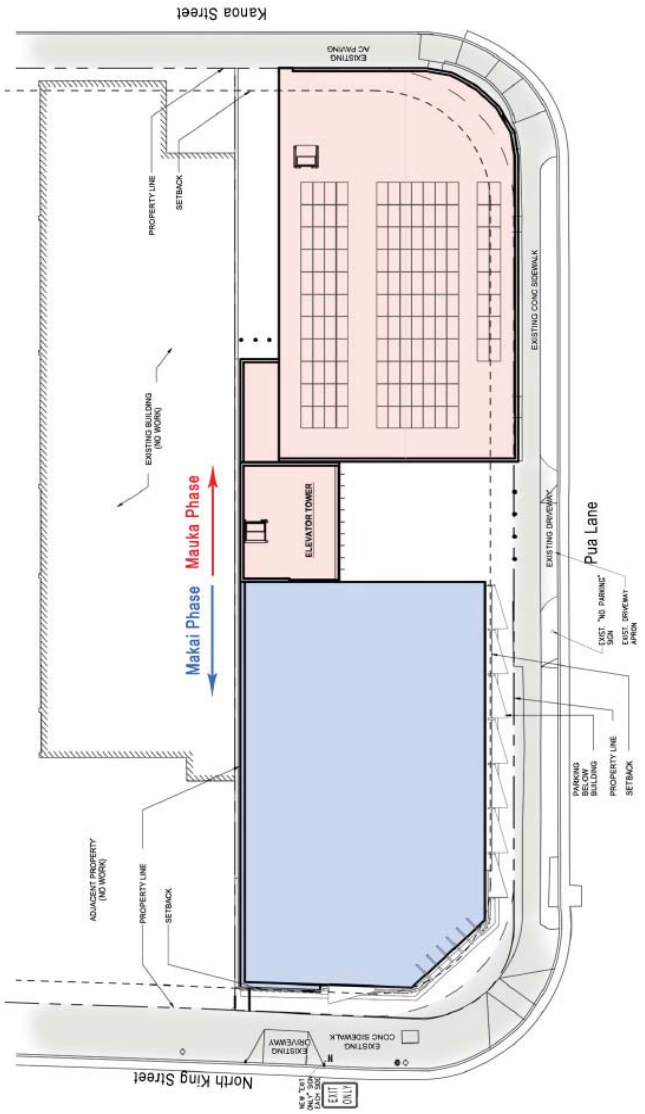
consolidate existing land uses in the area. The actual trip generation for the site is expected to be lower than the estimates shown in Table 1 for several reasons:

- Vehicle trips generated by the three existing KPHC sites in Kalihi are already on the street network, but the estimates listed above assume that all trips are new.
- The site is within close proximity to many low-income housing units, where many of KPHC's current clients reside. The site is located in an area where walking, biking, and transit are primary travel modes. Accordingly, a considerable amount of project trips will be made by walking rather than a vehicle trip.
- TheBus has a ewa-bound stop immediately in front of the project site. There are also several other bus stops near (within half of a mile walking distance) the project site. According to the *Draft Environmental Assessment (DEA) for the Consolidated Kalihi Palama Health Center* (PRR Hawaii & Associates, July 2014), the Executive Director of KPHC anticipates that more than half of the patrons and staff will use TheBus, which will reduce the amount of trips added on the surrounding roadway facilities.
- As noted above under the Planned Improvements section of this report, a planned rail transit stop will be in close proximity to the project and will provide residents of Honolulu a faster and reliable transit service connection. It is anticipated that the rail transit will be well utilized by patrons of the project; subsequently reducing the production of external vehicle trips.

SITE ACCESS AND PARKING

The site plan, as provided by PBR Hawaii & Associates and illustrated on Figure 2, identifies two vehicular access points: one on North King Street and one on Pua Lane. In response to TRB comments, the design of the project's underground parking lot includes a one-way traffic flow, with the entrance at Pua Lane and exit onto North King Street. The driveway apron on Pua Lane is currently wide enough to allow traffic flow in both directions, so to reduce driver confusion and prevent vehicles from exiting the wrong driveway, a handicap parking spot is placed with railing along the property line to reduce the driveway entrance at Pua Lane to allow for a single lane of traffic flow.

The construction of the new building is proposed to be on the makai side of the site, with parking on the ground level. The DEA states that there will only be 12 parking stills provided on site



Source: PBR Hawaii & Associates

Figure 2
Project Site Plan

during the first phase of the project, but in the ultimate configuration, the covered parking area on the ground floor will be converted to additional office space and exam rooms, and all project parking will eventually occur on the adjoining St. Elizabeth's Episcopal Church property. The church's parking lot is generally underutilized during KPHC's operating hours, except during church services or funerals. A shared parking easement will be established with the church for 40 parking stalls that will be shared with KPHC during weekdays and Saturdays. St. Elizabeth's Episcopal Church provides two full-access driveways: one each on North King Street and Kanoa Street.

During the interim parking phase, it is assumed that approximately half of the 12 parking stalls will be used by staff; consequently leaving six stalls available for clients. In the event that all on-site stalls are occupied, clients will be directed via signage to park in the St. Elizabeth's parking lot. Appropriate signage should be installed at both driveways that direct clients to available parking at the church parking lot. Sufficient capacity is available on Pua Lane, Kanoa Street, and the section of North King Street adjacent to the project site to serve the project traffic that is entering, exiting, or potentially circulating to the additional parking at the church.

Overall, the two driveways are adequate to serve the project demand during the first development phase. As noted in the DEA, the ultimate configuration of KPHC will convert the underground parking area to additional office space and exam rooms, and all vehicle parking will be provided on the adjoining St. Elizabeth's church lot. Similar to the site driveways, the church driveways are expected to operate acceptably and adequately serve project demand at full project buildout.

We understand that the Traffic Review Branch (TRB) has requested that the project increase the curb radii at the Pua Lane intersections at North King Street and Kanoa Lane intersections to 30 feet. The existing curb radii at Pua Lane/Kanoa Street and North King Street/Pua Lane intersections are approximately 15 feet and 25 feet, respectively. Increasing curb radii is usually done to accommodate larger design vehicles or to increase vehicle capacity at an intersection. During field observations, turns to and from Pua Lane did not unreasonably cause traffic delays to through traffic because of turning speed or vehicle size.

Increasing the curb radius would skew the crosswalks, increase vehicles speeds during turns, and increase the exposure of pedestrians to traffic. Since both of these intersections serve relatively high pedestrian activity during peak periods, we do not recommend increasing the curb radii on

Pua Lane as it would negatively impact pedestrian safety. In their review of a prior draft of this Traffic Assessment, Department of Transportation Services (DTS) staff agreed that the existing curb radii are sufficient and should not be increased.

POTENTIAL OFF-SITE TRAFFIC IMPACTS

Based on our evaluation, the proposed project is not expected to result in any significant negative impacts to vehicle circulation within the project area based on the following:

- The amount of increased traffic relative to the available capacity on the immediately adjacent streets is negligible. In addition, the estimated vehicle trip generation is considered conservative given the already higher use of walking, biking, and transit in lieu of vehicle trips in the project area, and the fact that the trips associated with existing KPHC facilities that are being consolidated are already on the street network.
- Clients not within walking distance of the project will also be able to use the rail transit system in the future to access the site.

As previously stated in the Existing Transportation Facilities, a sight-distance issue currently exists at the Pua Lane/Kanoa Street intersection for vehicles traveling Diamond Head-bound on Kanoa Street; the driver of a vehicle stopped at Kanoa Street behind the stop bar has limited visibility of makai-bound traffic on Pua Lane due to a vehicle parked on Pua Lane. To improve visibility for vehicles traveling on Kanoa Street and Pua Lane and reduce potential vehicle conflicts, we recommend prohibiting parking for 20 feet on the ewa side of Pua Lane, mauka of Kanoa Street by installing "No Parking" signs.

Though the congestion at the King Street/Dillingham Boulevard intersection creates queues on North King Street that intermittently spill back to the Pua Lane intersection, the project is not expected to significantly increase vehicle delay on North King Street since: 1) the overall project vehicle trip generation will be relatively low, and 2) alternative routes to North King Street are available including Palama Street, Kanoa Street, Pua Lane, and Vineyard Boulevard which all have sufficient capacity to serve project traffic.

POTENTIAL MULTI-MODAL IMPACTS

This project is not expected to result in any significant impacts to the surrounding pedestrian, bicycle, and transit facilities. Although the number of multi-modal users is expected to increase with the project, the existing and planned bicycle and pedestrian infrastructure, as well as the planned Honolulu Rail Transit system, will provide sufficient capacity to accommodate the new demand. Minor improvements to improve existing deficiencies and to further enhance pedestrian safety include:

- Prohibiting parking immediately adjacent to the crosswalk on Pua Lane at Kanoa Street to increase driver visibility of pedestrians. Install "No Parking" signs prohibiting parking for at least 20 feet on Pua Lane makai of the existing crosswalk.
- Installing an ADA-compliant ramp at the ewa-makai corner of the North King Street/Pua Lane intersection to facilitate mobility for all users. Install ADA compliant treatments (e.g., tactile warning ramp pads) at all existing wheelchair ramps at the two intersections adjacent to the project site.
- Repainting the existing crosswalk striping at the Pua Lane/Kanoa Street to enhance visibility to approaching drivers.
- Providing a separate pedestrian path on Kanoa Street. Since it was observed that Kanoa Street serves many pedestrians, including students traveling to and from the elementary school on North King Street, it would be ideal if one side of Kanoa Street was reconfigured to include an ADA-compliant path to physically separate pedestrians from vehicle traffic and parked vehicles. This could be accomplished via an asphalt path and berm and would benefit project clients, as well as existing pedestrians. Given the already narrow width of Kanoa Street, this improvement could significantly impact the parking supply and/or vehicle travel on the street. The project currently includes construction of a sidewalk along its Kanoa Street frontage and should only be responsible for this segment. Figure 3 shows the recommended improvements to the pedestrian facilities.
- Including a secure bicycle parking area within the project site to encourage employees and visitors to bicycle to and from the site in lieu of driving. The recommended supply is a minimum of six spaces with the potential to expand to another four spaces if demand warrants.

Figure 3
Recommended Striping and ADA Improvements to Correct Existing Deficiences

Appendix I:

Comments Received During the Draft EA Public Review Period and Written Responses

NEIL ABERCROMBIE
GOVERNOR

Dean H. Seki
Comptroller

Maria E. Zielinski
Deputy Comptroller

STATE OF HAWAII
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES
P.O. BOX 119, HONOLULU, HAWAII 96810-0119

(P)1272.4

AUG 25 2014

Mr. Vincent Shigekuni
PBR Hawaii
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

Dear Mr. Shigekuni:

Subject: Consolidated Kalihi-Palama Health Center
Kalihi-Palama, City and County of Honolulu
TMK: 1-7-031:052

Thank you for the opportunity to provide comments for the subject project. This project does not impact any of the Department of Accounting and General Services' projects or existing facilities in this area, and we have no comments to offer at this time.

If you have any questions, or your staff may call Mr. Alva Nakamura of the Planning Branch at 586-0488.

Sincerely,

for Ralph Morita
JAMES K. KURATA
Public Works Administrator

AN:mo
c: Mr. Stephen Karel, City & County

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& ASSOCIATES, INC.

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August 26, 2015

James K. Kurata, Public Works Administrator
State of Hawaii
Department of Accounting and General Services
P.O. Box 119
Honolulu, HI 96810-0119

Attn: Mr. Alva Nakamura

SUBJECT: Draft Environmental Assessment for Consolidated Kalihi-Palama Health Center (KPHC) at Kalihi-Palama, City and County of Honolulu, Island of O'ahu TMK 1-7-031:052

Dear Mr. Kurata:

Thank you for your letter (your reference number (P) 1272.4) dated August 25, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we thank you for your comments.

We appreciate your participation in the environmental review process and your input that your Department has no comments regarding the proposed improvement as the development will have no impact on any program or facility of the department. If you have any questions regarding this project, please do not hesitate to contact me at 521-5631.

Sincerely,

PBR HAWAII

Vincent R. Shigekuni

Vincent Shigekuni
Vice-President

OFFICE OF PLANNING
STATE OF HAWAII

NEIL ABERCROMBIE
GOVERNOR

LEO R. ASUNCION
ACTING DIRECTOR
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
Web: http://planning.hawaii.gov/

Ref. No. P-14503

September 10, 2014

Mr. Vincent Shigekuni
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

Dear Mr. Shigekuni:

Subject: Draft Environmental Assessment for the Consolidated Kalihi-Palama Health Center, Honolulu, Oahu; TMK: (1) 7-031:052

Thank you for the opportunity to provide comments on the Draft Environmental Assessment for the Consolidated Kalihi-Palama Health Center. We have reviewed the documents sent to us by letter dated August 19, 2014, and have the following comments to offer:

Although not mentioned in our earlier consultation letter (reference P-14248, dated February 14, 2014), the Office of Planning (OP) is emphasizing the importance of addressing the Hawaii State Plan in regards to environmental compliance documents. OP provides technical assistance to state and county agencies in administering the statewide planning system in Hawaii Revised Statutes (HRS) Chapter 226, the Hawaii State Plan. The Hawaii State Plan provides goals, objectives, priorities, and priority guidelines for growth, development, and the allocation of resources throughout the State. The State Plan includes diverse policies and objectives on topics of state interest including but not limited to the economy, agriculture, the visitor industry, federal expenditure, the physical environment, facility systems, and socio-cultural advancement.

This project may be consistent with on a number of these objectives, policies, and priority guidelines including, but not limited to: HRS § 226-20 – socio-cultural advancement – health, HRS § 226-22 – socio-cultural advancement – social services, and § 226-108 – Sustainability (sustainable development and Resource Conservation). The Final Environmental Assessment should include an analysis of the Hawaii State Plan, HRS Chapter 226, in a section that addresses the project's conformance with state and county plans, policies, and controls.

If you have any questions regarding this comment letter, please contact Josh Hekekia of our Hawaii CZM Program at 587-2845.

Sincerely,

Leo R. Asuncion
Acting Director

c: Mr. Stephen Karel

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& ASSOCIATES, INC.

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August 26, 2015

Leo R. Asuncion, Acting Director
State of Hawaii
Office of Planning
P.O. Box 2359
Honolulu, HI 96804

Attn: Mr. Josh Hekekia

SUBJECT: Draft Environmental Assessment for Consolidated Kalihi-Palama Health Center (KPHC) at Kalihi-Palama, City and County of Honolulu, Island of O'ahu TMK 1-7-031:052

Dear Mr. Asuncion:

Thank you for your letter (your reference number P-14503) dated September 10, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we thank you for your comments.

We appreciate your participation in the environmental review process and your additional input that the Office of Planning is emphasizing the importance of incorporating the Hawaii State Plan in regards to such environmental documents. The Final Environmental Assessment will include an analysis of the Hawaii State Plan, HRS Chapter 226, in a new section numbered 3.1.3.

If you have any questions regarding this project, please do not hesitate to contact me at 521-5631.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice-President

NEIL ABERCROMBIE
GOVERNOR OF HAWAII

LINDA ROSEN, M.D., M.P.H.
DIRECTOR OF HEALTH

STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. BOX 3378
HONOLULU, HI 96801-3378

In reply, please refer to:
File:

LUD – 1 1 7 031 052 DEA Cons
Kalihi Palama Health Center-ID1855

October 28, 2014

Mr. Vincent Shigekuni
PBR Hawaii & Associates, Inc.
1001 Bishop Street Suite 650
Honolulu, Hawaii 96813

Dear Mr. Shigekuni:

Subject: Draft Environmental Assessment for the Consolidated Kalihi-Palama Health Center Project at 710 North King Street, Honolulu, Oahu, Hawaii 96813
TMK (1) 1-7-031: 052

We appreciate the opportunity to review the subject project's Draft Environmental Assessment and have determined that we have no additional comments to offer at this time.

Should you have any questions, please contact Mr. Mark Tomomitsu, Supervisor, Planning & Design Section, Wastewater Branch at (808) 586-4294 or fax (808) 586-4300.

Sincerely,

SINA PRUDER, P.E., CHIEF
Wastewater Branch

LM/MST:lmj

c: Ms. Laura McIntyre, DOH-Environmental Planning Office
Mr. George I. Atta, C&C of Honolulu, Dept. of Planning & Permitting 7th Floor

---

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& ASSOCIATES, INC.

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August 26, 2015

Sina Pruder, P.E., Chief
State of Hawaii
Department of Health
Wastewater Branch
P.O. Box 3378
Honolulu, HI 96801-3378

Attn: Mr. Mark Tomomitsu, Supervisor, Planning & Design Section

SUBJECT: Draft Environmental Assessment for Consolidated Kalihi-Palama Health Center (KPHC) at Kalihi-Palama, City and County of Honolulu, Island of O'ahu TMK 1-7-031:052

Dear Ms. Pruder:

Thank you for your letter (your reference number LUD-117031052 DEA Cons Kalihi Palama Health Center-ID 1855) dated October 28, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we thank you for your comments.

We appreciate your participation in the environmental review process and the information that the Department has no additional comments to offer at this time. If you have any questions regarding this project, please do not hesitate to contact me at 521-5631.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice-President

NEIL ABERCROMBIE
GOVERNOR OF HAWAII

WILLIAM J. AILA, JR.
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

September 19, 2014

City and County of Honolulu
Department of Community Services
Attention: Stephen Karel
715 South King Street, Suite 311
Honolulu, Hawaii 96813

via email: skarel@honolulu.gov

Dear Mr. Karel,

SUBJECT: Draft Environmental Assessment (EA), Consolidated Kalihi-Palama Health Center

Thank you for the opportunity to review and comment on the subject matter. The Department of Land and Natural Resources' (DLNR) Land Division distributed or made available a copy of your report pertaining to the subject matter to DLNR Divisions for their review and comments.

At this time, enclosed are comments from (1) Land Division – Oahu District; and (2) Engineering Division. No other comments were received as of our suspense date. Should you have any questions, please feel free to call Supervising Land Agent Steve Molmen at 587-0439. Thank you.

Sincerely,

Russell Y. Tsuji
Land Administrator

Enclosure(s)

c: PBR HAWAII & Associates, Inc.
Attention: Mr. Vincent Shigekuni
via email: vshigekuni@pbrhawaii.com

NEIL ABERCROMBIE
GOVERNOR OF HAWAII

WILLIAM J. AILA, JR.
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

August 25, 2014

MEMORANDUM

TO: **DLNR Agencies:**
__Div. of Aquatic Resources
__Div. of Boating & Ocean Recreation
X Engineering Division
__Div. of Forestry & Wildlife
__Div. of State Parks
X Commission on Water Resource Management
X Office of Conservation & Coastal Lands
X Land Division – Oahu District
X Historic Preservation

FROM: Russell Y. Tsuji, Land Administrator
SUBJECT: Draft Environmental Assessment (EA), Consolidated Kalihi-Palama Health Center
LOCATION: Kalihi-Palama, City and County of Honolulu, Island of O'ahu; Tax Map Key: 1-7-031:052
APPLICANT: Kalihi-Palama Health Center by its consultant, PBR Hawaii & Associates, Inc.

Transmitted for your review and comment on the above-referenced document. We would appreciate your comments on this document.

Please submit any comments by September 18, 2014. If no response is received by this date, we will assume your agency has no comments. If you have any questions about this request, please contact Supervising Land Agent Steve Molmen at (808) 587-0439. Thank you.

Attachments

( ) We have no objections.
(✓) We have no comments.
( ) Comments are attached.

Signed: _____
Print Name: _____
Date: 8/26/2014

NEIL ABERCROMBIE
GOVERNOR OF HAWAII

WILLIAM J. AILA, JR.
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

'14 AUG 25 PM 3:19 ENGINEERING RECEIVED
LAND DIVISION

2014 SEP 16 PM 2:33
DEPT. OF LAND & NATURAL RESOURCES
STATE OF HAWAII

August 25, 2014

MEMORANDUM

~~TO:~~ FR:

DLNR Agencies:
__Div. of Aquatic Resources
__Div. of Boating & Ocean Recreation
X Engineering Division
__Div. of Forestry & Wildlife
__Div. of State Parks
X Commission on Water Resource Management
X Office of Conservation & Coastal Lands
X Land Division – Oahu District
X Historic Preservation

~~FROM:~~ TO:
SUBJECT: Draft Environmental Assessment (EA), Consolidated Kalihi-Palama Health Center
LOCATION: Kalihi-Palama, City and County of Honolulu, Island of O`ahu; Tax Map Key: 1-7-031:052
APPLICANT: Kalihi-Palama Health Center by its consultant, PBR Hawaii & Associates, Inc.

Russell Y. Tsuji, Land Administrator

Transmitted for your review and comment on the above-referenced document. We would appreciate your comments on this document.

Please submit any comments by September 18, 2014. If no response is received by this date, we will assume your agency has no comments. If you have any questions about this request, please contact Supervising Land Agent Steve Molmen at (808) 587-0439. Thank you.

Attachments

( ) We have no objections.
( ) We have no comments.
(✓) Comments are attached.

Signed: _____
Print Name: Carty S. Chang, Chief Engineer
Date: 9/14/14

DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

LD/Russell Y. Tsuji
REF: DEA for the Consolidated Kalihi-Palama Health Center
Oahu.053

COMMENTS

(X) We confirm that the project site, according to the Flood Insurance Rate Map (FIRM), is located in Zone X. The National Flood Insurance Program (NFIP) does not regulate developments within Zone X.

( ) Please take note that the project site according to the Flood Insurance Rate Map (FIRM), is located in Zone ___.

( ) Please note that the correct Flood Zone Designation for the project site according to the Flood Insurance Rate Map (FIRM) is ___.

( ) Please note that the project must comply with the rules and regulations of the National Flood Insurance Program (NFIP) presented in Title 44 of the Code of Federal Regulations (44CFR), whenever development within a Special Flood Hazard Area is undertaken. If there are any questions, please contact the State NFIP Coordinator, Ms. Carol Tyau-Beam, of the Department of Land and Natural Resources, Engineering Division at (808) 587-0267.

Please be advised that 44CFR indicates the minimum standards set forth by the NFIP. Your Community's local flood ordinance may prove to be more restrictive and thus take precedence over the minimum NFIP standards. If there are questions regarding the local flood ordinances, please contact the applicable County NFIP Coordinators below:

( ) Mr. Mario Siu Li at (808) 768-8098 of the City and County of Honolulu, Department of Planning and Permitting.
( ) Mr. Frank DeMarco at (808) 961-8042 of the County of Hawaii, Department of Public Works.
( ) Mr. Carolyn Cortez at (808) 270-7253 of the County of Maui, Department of Planning.
( ) Mr. Stanford Iwamoto at (808) 241-4896 of the County of Kauai, Department of Public Works.

( ) The applicant should include project water demands and infrastructure required to meet water demands. Please note that the implementation of any State-sponsored projects requiring water service from the Honolulu Board of Water Supply system must first obtain water allocation credits from the Engineering Division before it can receive a building permit and/or water meter.

( ) The applicant should provide the water demands and calculations to the Engineering Division so it can be included in the State Water Projects Plan Update.

( ) Additional Comments: _____

( ) Other: _____

Should you have any questions, please call Mr. Dennis Imada of the Planning Branch at 587-0257.

Signed: _____
CARTY S. CHANG, CHIEF ENGINEER
Date: 9/14/14

State of Hawaii

FLOOD HAZARD ASSESSMENT REPORT

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD ZONE DEFINITIONS

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD – The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard 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 requirements apply, but coverage is available in participating communities.

PROPERTY INFORMATION

COUNTY:	HONOLULU
TMK NO:	(1) 1-7-031-052
PARCEL ADDRESS:	1040A PUA LN HONOLULU, HI 96817
FIRM INDEX DATE:	JANUARY 19, 2011
LETTER OF MAP CHANGE(S):	NONE
FEMA FIRM PANEL(S):	15003C0354G
PANEL EFFECTIVE DATE:	JANUARY 19, 2011

PARCEL DATA FROM:	APRIL 2014
IMAGERY DATA FROM:	MAY 2006

IMPORTANT PHONE NUMBERS

County NFIP Coordinator	
City and County of Honolulu	
Mario Siu-Li, CFM	(808) 768-8098
State NFIP Coordinator	
Carol Tyau-Beam, P.E., CFM	(808) 587-0267

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

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

PBR HAWAII & ASSOCIATES, INC.

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R. STAN DUNCAN, ASLA
President

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

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Vice-President

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Managing Director - Kapolei

ROY TAKEMOTO
Managing Director - Hilo

SCOTT MURAKAMI, ASLA, LEED®AP
Associate

DACHENG DONG, LEED®AP
Associate

MARC SHIMATSU, ASLA
Associate

CATIE CULLISON, AICP
Associate

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Kapolei, Hawai'i 96707-2005
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Fax: (808) 535-3163

HILO OFFICE
1719 Haleloke Street
Hilo, Hawai'i 96720-1553
Tel/Cel: (808) 315-6878

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August 26, 2015

Russell Y. Tsuji, Land Administrator
State of Hawaii
Department of Land and Natural Resources
P.O. Box 621
Honolulu, HI 96809

Attn: Mr. Steve Molmen, Supervising Land Agent

SUBJECT: Draft Environmental Assessment for Consolidated Kalihi-Palama Health Center (KPHC) at Kalihi-Palama, City and County of Honolulu, Island of O'ahu TMK 1-7-031:052

Dear Mr.Tsuji:

Thank you for your letter dated September 19, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we thank you for your comments.

We appreciate your Department's participation in the environmental review process and your input that "…the project site, according to the Flood Insurance Rate Map (FIRM), is located in Zone X. The National Flood Insurance Program (NFIP) does not regulate developments within Zone X."

If you have any questions regarding this project, please do not hesitate to contact me at 521-5631.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice-President

PHONE (808) 594-1888

FAX (808) 594-1865

STATE OF HAWAI'I
OFFICE OF HAWAIIAN AFFAIRS
560 N. NIMITZ HWY., SUITE 200
HONOLULU, HAWAI'I 96817

HRD14/7054B

September 22, 2014

Vincent Shigekuni
PBR HAWAII
1001 Bishop St., Suite 650
Honolulu, HI 96813

Re: Review of Draft Environmental Assessment for the Consolidated Kalihi-Palama Health Center project
Honolulu Ahupua'a, O'ahu
TMK (1) 1-7-031:052

Aloha Mr. Shigekuni:

The Office of Hawaiian Affairs (OHA) is in receipt of your August 19, 2014 letter requesting comments on the draft environmental assessment (EA) for the Consolidated Kalihi-Palama Health Center (KPHC) project, in accordance with the State of Hawai'i environmental review law, Hawai'i Revised Statutes Chapter 343.

The primary function of the KPHC is to provide primary health services to low income Native Hawaiians and New Americans and their extended families, all populations that typically face significant barriers when accessing healthcare. The proposed development will consolidate the three existing Kalihi facilities within a single structure, while at the same time increasing the square footage in order to serve a growing number of patients and provide new services. The project site measures approximately 12,049 square feet and the building formerly housed a market, restaurant, check cashing shop, and hairdresser, with other half of the property used for a parking lot. This project will add a new two-story building over the entire lot, including the current parking lot. When fully completed, the combined buildings will include: a women, children, and infant facility; a pharmacy; a pediatrics facility; a family practice facility; a women's health facility; and common spaces.

In addition to a pedestrian survey of the parcel, OHA is aware that subsurface testing was done during the archaeological investigation, and four trenches were excavated. No significant historical and cultural artifacts were discovered during either survey. However, due to the proximity of previously discovered iwi kūpuna OHA concurs with the State Historic Preservation Division recommendation to have an archaeological monitor present during all ground disturbing activities. We also request assurances that should iwi kūpuna or Native Hawaiian cultural deposits be identified during any other ground altering activities, all work will immediately cease and the appropriate agencies, including OHA, will be contacted pursuant to applicable law.

Thank you for the opportunity to submit comments. Should you have any questions, please contact Jeannin Jeremiah at 594-1790 or by email at jeanninj@oha.org.

'O wau iho nō me ka 'oia 'i'o,

Kamana'opono M. Crabbe, Ph.D.
Ka Pouhana, Chief Executive Officer

KC:jj

C: City and County of Honolulu Department of Community Services

PBR HAWAII
& ASSOCIATES, INC.

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Fax: (808) 535-3163

HILO OFFICE
1719 Haleloke Street
Hilo, Hawai'i 96720-1553
Tel/Cel: (808) 315-6878

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August 26, 2015

Kamanaopono M. Crabbe, Ph.D.
Ka Pouhana, Chief Executive Officer
State of Hawaii
Office of Hawaiian Affairs
560 N. Nimitz Hwy, Suite 200
Honolulu, HI 96817

Attn: Ms. Jeannin Jerimiah

SUBJECT: Draft Environmental Assessment for Consolidated Kalihi-Palama Health Center (KPHC) at Kalihi-Palama, City and County of Honolulu, Island of O'ahu TMK 1-7-031:052

Dear Mr. Crabbe:

Thank you for your letter (your reference number HRD14/7054B) dated September 22, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we thank you for your comments.

We appreciate your participation in the environmental review process. Per OHA's comments, the Final EA will state:

"Despite the unlikeliness of finding archaeological resources, during the Draft EA Public Comment period, the Office of Hawaiian Affairs wrote that it "…concurs with the State Historic Preservation Division recommendation to have an archaeological monitor present during all ground disturbing activities. We also request assurances that should iwi kupuna or Native Hawaiian cultural deposits be identified during any other ground altering activities, all work will immediately cease and the appropriate agencies, including OHA, will be contacted pursuant to applicable law."

If you have any questions regarding this project, please do not hesitate to contact me at 521-5631.

Sincerely,

PBR HAWAII

Vincent R. Shigekuni

Vincent Shigekuni
Vice-President

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU
630 SOUTH BERETANIA STREET
HONOLULU, HI 96843

September 15, 2014

KIRK CALDWELL, MAYOR

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ADAM C. WONG, Vice Chair
MAHEALANI CYPHER
THERESIA C. McMURDO
DAVID C. HULIHEE

ROSS S. SASAMURA, Ex-Officio
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. Vincent Shigekuni, Vice President
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813-3484

Dear Mr. Shigekuni:

Subject: Your Letter Dated August 19, 2014 Requesting Comments on the Environmental Assessment for the Kalihi-Palama Health Center on North King Street – Tax Map Key: 1-7-031: 052

Thank you for the opportunity to comment on the proposed Kalihi-Palama Health Center.

The existing water system is adequate to accommodate the proposed health center. 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.

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 proposed project is subject to BWS Cross-Connection Control and Backflow Prevention requirements prior to the issuance of the Building Permit Applications.

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

DCS/Admin
4331

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU
630 SOUTH BERETANIA STREET
HONOLULU, HI 96843

September 25, 2014

KIRK CALDWELL, MAYOR

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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

TO: GARY K. NAKATA, ACTING DIRECTOR
DEPARTMENT OF COMMUNITY SERVICES

ATTN: STEPHEN KAREL

FROM: ERNEST Y. W. LAU, P.E., MANAGER AND CHIEF ENGINEER

SUBJECT: THE LETTER DATED AUGUST 19, 2014 REQUESTING COMMENTS ON THE ENVIRONMENTAL ASSESSMENT FOR THE KALIHI-PALAMA HEALTH CENTER ON NORTH KING STREET – TAX MAP KEY: 1-7-031: 052

Thank you for the opportunity to comment on the proposed Kalihi-Palama Health Center.

The existing water system is adequate to accommodate the proposed health center. 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.

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 proposed project is subject to BWS Cross-Connection Control and Backflow Prevention requirements prior to the issuance of the Building Permit Applications.

If you have any questions, please contact Robert Chun, Project Review Branch of our Water Resources Division at 748-5443.

RECEIVED
'14 SEP 30 AM 1:33
DEPT OF COMMUNITY SERVICES

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& ASSOCIATES, INC.

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MARC SHIMATSU, ASLA
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CATIE CULLISON, AICP
Associate

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1719 Haleloke Street
Hilo, Hawai'i 96720-1553
Tel/Cel: (808) 315-6878

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August 26, 2015

Ernest Y.W. Lau, P.E.
Manager and Chief Engineer
Board of Water Supply
City and County of Honolulu
630 South Beretania Street
Honolulu, HI 96843

Attn: Mr. Robert Chun, Project Review Branch

SUBJECT: Draft Environmental Assessment for Consolidated Kalihi-Palama Health Center (KPHC) at Kalihi-Palama, City and County of Honolulu, Island of O'ahu TMK 1-7-031:052

Dear Mr. Lau:

Thank you for your letter dated September 15, 2014 and your memorandum to the Department of Community Services dated September 25, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we thank you for your comments.

We greatly appreciate the information provided and BWS' participation in the environmental review process.

If you have any questions regarding this project, please do not hesitate to contact me at 521-5631.

Sincerely,

PBR HAWAII

Vincent R. Shigekuni

Vincent Shigekuni
Vice-President

DEPARTMENT OF BUDGET AND FISCAL SERVICES
CITY AND COUNTY OF HONOLULU
530 SOUTH KING STREET, ROOM 208 • HONOLULU, HAWAII 96813
PHONE: (808) 768-3900 • FAX: (808) 768-3179 • INTERNET: www.honolulu.gov

DCS/Admin
4313

KIRK CALDWELL
MAYOR

RECEIVED

NELSON H. KOYANAGI, JR.
DIRECTOR

GARY T. KUROKAWA
DEPUTY DIRECTOR
575992

'14 SEP 29 A10 :21

September 24, 2014

DEPT OF COMMUNITY SERVICES

MEMORANDUM

TO: Gary K. Nakata, Acting Director
Department of Community Services (DCS)

ATTENTION: Keith Ishida, Administrator
Community-Based Development Division (CBDD)

FROM: Nelson H. Koyanagi, Jr., Director
Department of Budget and Fiscal Services (BFS)

SUBJECT: FY15 Kalihi-Palama Health Center
Draft Environmental Assessment and Anticipated
Finding of No Significant Impact (DEA-AFONSI)
Community Development Block Grant (CDBG) Program

In response to a 2012 U. S. Department of Housing and Urban Development (HUD) environmental finding, the City advised HUD that the DCS would review consultant prepared environmental review records and would be responsible for ensuring that each compliance factor contained a description of existing conditions and adequate documentation before forwarding the file to the BFS for its review and approval.

The subject DEA was transmitted to the Office of Environmental Quality and Control (OEQC) by letter dated August 7, 2014 with an anticipated finding of no significant impact determination by the DCS and a copy was received by the BFS on August 14, 2014.

Please be advised that consultant prepared environmental review records should be forwarded for review and approval to the BFS before publishing for public comment.

The DEA that was prepared for the two phase renovation and expansion project planned on the subject parcel has been reviewed and several of the compliance factors

were not appropriately addressed. For example, the documentation did not include adequate data on current conditions and the concerns/comments noted during the pre-consultation process were not adequately addressed.

BFS does not concur with the AFONSI determination and the following comments are provided to ensure HUD compliance:

HISTORIC PRESERVATION

The response from the SHPD noted that the site is surrounded by a significant amount of architectural historic properties including Mayor Wright Housing, Kaumakapili Church and the New Palama Theatre. It also noted that archaeological studies in the area have documented human burials within 500-600 m of the subject property.

The letter from the SHPD also noted that it had insufficient information for making a determination that no archaeological historic properties will be affected by the proposed project, which will involve subsurface excavation for utilities. The SHPD requested more information in order to assess potential effects on historic properties.

A letter was also sent to the Office of Hawaiian Affairs (OHA) with a recommendation that the following individuals be contacted:

Kalihi Palama Civic Club, Kaumakapili Church, Clyde Namu'o,
Ladd Heleloa, Dexter Soares, Cedric Duarte, Gary Kai, Denise Santos,
Linda Chock and Pamai Tenn

The consultant noted that the Kahu Richard Kamanu (Kaumakapili Church) was contacted and they, ".....tried their very best to contact the other individuals and organizations OHA has suggested but unfortunately we were not able to receive any responses." Although a summary of the response received from Kahu Kamanu was included by the consultant, his response was not documented. The attempts made to contact the individuals and organizations suggested by OHA must also be documented.

Please see the attached CPD-12-006 Notice – Process for Tribal Consultation in Projects That Are Reviewed Under 24 CFR Part 58. Section 106 requires consultation with federally-recognized tribes when a project may affect historic property of religious and cultural significance to that tribe.

ENDANGERED SPECIES ACT

The Endangered Species Act requires consultation with the U. S. Fish and Wildlife Service even when the project is outside of a critical habitat area. A large project that is outside of any critical habitat could still jeopardize or adversely affect an

endangered or threatened species. A sample letter sent to the U. S. Fish and Wildlife is attached and must be sent to ensure compliance.

NOISE ABATEMENT AND CONTROL

Pursuant to HUD guidelines, noise must be calculated 10 years into the future. The proposed redevelopment of the Mayor Wright Housing project and the proximity of the Honolulu Area Rapid Transit system if within 3,000 feet of the project site must be considered and a noise analysis conducted. If the future noise exposure is above 65 DNL, the implementation of noise attenuation design and features must be documented (See Figure 19 in the HUD Noise Guidebook https://www.hudexchange.info/environmental-review/noise-abatement-and-control or the StraCAT assessment tool at http://portal.hud.gov/hudportal/HUD?src=/program_offices/comm_planning/environment/stracat).

HAZARDS AND NUISANCES INCLUDING SITE SAFETY

The City's Department of Transportation Services (DTS) stated that the DEA should include a traffic impact assessment report (TIAR). The TIAR should discuss traffic impacts on the surrounding City roadways as a result of the project including short term impacts during construction. Although the consultant responded that it did not believe that a traffic assessment report was required, the DTS was insistent that a TIAR be conducted to help determine future improvements and cumulative impact of the project on traffic flows and circulation in the area.

The DTS and Honolulu Police Department also noted safety concerns due to the heavy vehicular and pedestrian traffic in the area.

The response from the consultant did not adequately address the project's short term or long term pedestrian/vehicular traffic impacts on the surrounding roadways. The concerns raised by DTS should be addressed with verifiable base data and include mitigating measures that will be taken to address the issues identified. These mitigating measures must document that impacts will be reduced to a level that is less than significant.

EROSION AND SOIL SUITABILITY

The project involves demolition, excavation, foundation work, etc. for the construction of a new health care facility. The DEA did not include a soils report regarding the suitability of the existing soil conditions with regards to the planned construction activity.

CONSULTATIONS

The DEA stated that the following organizations were included in the consultation process. However, letters sent to the organizations listed below were not included in the DEA and must be documented:

Department of Business, Economic Development & Tourism (DBEDT) (State of Hawaii)
Department of Hawaiian Home Lands (State of Hawaii)
Department of Land and Natural Resources Parks Division (State of Hawaii)
UH Environmental Center (State of Hawaii)
U. S. Fish and Wildlife Service
Department of Planning and Permitting (City and County of Honolulu)
Senator Suzanne Chun Oakland
Representative Karl Roads
Councilmember Joey Manahan

COASTAL ZONE MANAGEMENT

The comment from the State Office of Planning noted that, "The entire state is defined to be within the Coastal Zone Management Area (see Hawaii revised statutes HRS §205-A-1 (definition of "coastal zone management area"). The DEA must include a discussion of the proposed project's ability to meet the objectives and policies set forth in HRS § 205-A-2."

The Department of Health, Environmental Planning Office (EPO) also voiced concerns that all appropriate branches, offices and individuals within the State Department of Health were not afforded the opportunity to comment. The letter stated that the "EPO strongly recommends that you consult with other branches and offices within the Department of Health."

During construction and once the center is operational there is a possibility that nonpoint pollution may be generated and may have an impact on coastal waters.

SOLID WASTE, WASTEWATER, STORMWATER

The Department of Environmental Services (City and County of Honolulu) was not included in the consultation process regarding the disposal of solid waste, wastewater and stormwater runoff.

The DEA does not address nonpoint pollution during and after construction.

The impact of the proposed project on current area conditions was not addressed and source documentation was not provided.

TOXICS

The inspection report conducted by EnviroQuest noted that asbestos, pesticides, lead, arsenic and other toxics are present at the project site. The consultant noted in its response to the State Department of Health that, "We do not expect hazardous substances, pollutants, or contaminants to be present at the project site. However, if any of these are found at the project site, Hazard Evaluation and Emergency Response Office (HEER) will be contacted to determine the appropriate actions to comply with the relevant environmental laws." The DEA does not adequately address mitigating measures that will be taken to address the toxics present on the site. The soils study identified several toxics at the site and a follow up correspondence with the HEER was not provided.

The sources of contamination on the property and a determination of whether conditions or planned activity at the site are likely to cause adverse effects on the environment need to be addressed. Consultation with the appropriate regulatory agency and remediating measures should be provided.

COMMUNITY FACILITIES AND SERVICES

The development factors such as public safety, police, fire, healthcare facilities, waste water, water supply, solid waste, etc. did not contain affirmative documentation from the respective agencies attesting to the fact that they have the capacity to serve the project or that the project will require additional workers that will be hired.

As a reminder, environmental review records prepared by consultants should be reviewed by DCS staff to ensure that each compliance factor has been appropriately addressed and adequately documented. The DCS shall ensure that deficiencies have been addressed and corrected before forwarding to the Department of Budget and Fiscal Services for its review and approval. Appropriate responses should be included for each compliance factor and mitigating measures appropriately summarized. A sample EA and Guide on Environmental Review Documentation is attached for your information and use.

Questions regarding this matter may be directed to Cheryl Tanabe at 768-3931.

Attachments

U.S. Department of Housing and Urban Development
Community Planning and Development

Special Attention of:

All Regional Directors
All Field Office Directors
All CPD Division Directors
All Regional Environmental Officers
All Responsible Entities
All Housing Directors
All PIH Division Directors
All Program Environmental Clearance Officers

Notice: CPD-12-006

Issued: June 15, 2012

Expires: This Notice is effective until amended, superseded, or rescinded.

Cross References:

SUBJECT: Process for Tribal Consultation in Projects That Are Reviewed Under 24 CFR Part 58

I. Purpose

The "Environmental Review Procedures for Entities Assuming HUD Environmental Responsibilities," 24 CFR Part 58, outlines the review process for many projects assisted with HUD programs, including those funded through CDBG, HOME, HOPE VI, HOPWA, Emergency Shelter Grants, certain Indian Housing programs, Public Housing Capital Fund, and Economic Development Initiative grants, and certain loans guaranteed by HUD. Part 58 covers many environmental areas, including historic resources. It references the "Section 106" review process for historic resources, which requires federal agencies to consult with federally-recognized Indian tribes on projects that may affect historic properties of religious and cultural significance to tribes. Under Part 58, local, state, or tribal governments become Responsible Entities (REs) and assume the federal agency's environmental review authority and responsibility for projects within their jurisdiction, including those for which they are grantees. The RE must consult with tribes to determine whether a proposed project may adversely affect historic properties of religious and cultural significance, and if so, how the adverse effect could be avoided, minimized or mitigated. This applies to projects on and off tribal lands. This Notice clarifies the steps that REs should follow in the tribal consultation process. Following this protocol ensures compliance with the requirement for certification of tribal consultation on the Request for Release of Funds and Certification (form HUD 7015.15).

II. Background

Section 106 of the National Historic Preservation Act (*16 U.S.C. 470f*) and its implementing regulations (36 CFR Part 800) direct federal agencies to undertake an open, consultative process to consider the impact of their projects on historic and archeological resources. The review must

be completed before an agency approves and/or commits funds to a project. In projects that are reviewed under 24 CFR Part 58, the Responsible Entity (RE), acting as HUD, consults with the State Historic Preservation Officer (SHPO), local government, individuals and organizations with demonstrated interest, the public, and representatives of federally-recognized Indian tribes and Native Hawaiian Organizations, including Tribal Historic Preservation Officers (THPOs). This Notice focuses on tribal consultation and project impacts to historic properties of religious and cultural significance to tribes. If a project includes activities that may affect such properties, the RE must consult with tribes to identify the property(ies) and consider ways to avoid, minimize or mitigate possible adverse effects to them. For guidance on consulting with Native Hawaiian Organizations, see "Consultation with Native Hawaiian Organizations in the Section 106 Review Process: A Handbook" published by the Advisory Council on Historic Preservation in June 2011.

Effective tribal consultation begins at the earliest possible stages of a project and is carried out to meet project timeframes. It fosters meaningful dialogue that strives to protect historic properties of religious and cultural significance to tribes. As noted in 36 CFR 800.2(c)(2)(ii)(B): "Consultation with Indian tribes should be conducted in a sensitive manner respectful of tribal sovereignty. Nothing in this part alters, amends, repeals, interprets, or modifies tribal sovereignty, any treaty rights, or other rights of an Indian tribe, or preempts, modifies, or limits the exercise of any such rights." Additional guidance on working with tribal representatives is available. REs may engage cultural resource specialists to assist in the process as needed, but REs remain ultimately responsible for initiating consultation with tribes.

Further details on the Statutory and Regulatory Requirements for tribal consultation are included in Section VI. Definitions are included in Section VII.

III. Required Actions by Responsible Entities

A. Determine if Section 106 Review is Required

Not all projects require Section 106 review. Some are exempted through regulation or Programmatic Agreements between the RE and the SHPO. If Section 106 review is not required, tribal consultation is not required.

1. Exempt Activities

If project activities are limited to those listed in 24 CFR 58.34 (a) (1-11) as Exempt Activities and those listed in 24 CFR 58.35 (b), as Categorical Exclusions not subject to §58.5, no further review and no consultation are required. The listed Activities and Exclusions have "No Potential to Cause Effects." Examples include: maintenance activities, tenant-based rental assistance, operating costs, affordable housing pre-development costs, studies and plans.

2. Programmatic Agreement

If the funded activity is covered by an existing Programmatic Agreement (PA), the PA may contain more Exempt activities in addition to the ones above. [Link to PA database] Follow the review process in the PA, including appropriate tribal consultation. If the PA does not

contain a section on tribal consultation, and the activity is not Exempt, follow the process in III. C., below.

3. Projects Involving Multiple Federal Agencies

If the project involves multiple federal agencies, the RE may defer to another federal agency as the lead agency to undertake the Section 106 review. Generally, the agency with the largest stake in the project acts as the lead agency. Document the lead agency agreement in writing and retain it in the Environmental Review Record (ERR). The agreement must contain provisions for appropriate tribal consultation. If adverse effects are involved, the RE must sign the Memorandum of Agreement that resolves the adverse effect(s). Contact the HUD Federal Preservation Officer to discuss questions about a specific case.

B. Determine if Tribal Consultation is Required

Not all projects that require Section 106 review require consultation with Indian tribes. Consultation with federally-recognized tribes is required when a project includes activities that have the potential to affect historic properties of religious and cultural significance to tribes. These types of activities activities include: ground disturbance (digging), new construction in undeveloped natural areas, introduction of incongruent visual, audible, or atmospheric changes, work on a building or structure with significant tribal association, or transfer, lease or sale of historic properties of religious and cultural significance.

1. Checklist on When to Consult With Tribes

Use the When to Consult With Tribes Under Section 106 checklist (Appendix A) to determine if the project includes types of activities that have the potential to affect historic properties of religious and cultural significance. [Link to checklist] If not, tribal consultation is not required. Keep a copy of the checklist in the Environmental Review Record (ERR). If needed, you may seek technical assistance from the HUD Field Environmental Officer (FEO). If consultation is required, follow the steps below.

Through written agreement with a tribe, an RE may modify the process outlined below. [See 36 CFR 800.2(c)(2)(ii)(E)] An RE may also choose to incorporate into their consultation effort any relevant provisions in existing agreements between SHPOs and tribes and in other SHPO and THPO written guidance regarding tribal consultation.

C. Consult With Tribes

If a project includes the types of activities that may affect historic properties of religious and cultural significance, the RE must consult with the relevant tribe(s) to identify any such properties in the project's Area of Potential Effect (APE). If they are present, consultation continues with evaluation of the eligibility of the properties for the National Register of Historic Places and assessment of the possible effects of the project on Register-eligible properties. The goal is to avoid adverse effects if possible.

Steps 1-4 below correspond to the steps commonly used to describe the Section 106 process in other guidance: Initiate Consultation (Step 1); Identify and Evaluate Historic Properties (Step 2); Assess Effects (Step 3); and Resolve Adverse Effects (Step 4). For the sake of efficiency, Steps

2, 3 and 4 may be treated together in consultation discussions and comments. [See 36 CFR 800.3(g) Expediting consultation]

Step1. Identify federally-recognized tribes with an interest in the project area and initiate consultation

The RE can use the Tribal Directory Assessment Tool (TDAT) to identify tribes with a current or ancestral interest in the county where the project is located. TDAT is a web-based directory of federally-recognized tribes and their geographic areas of interest. Tribes may have an interest in counties far from their current location, counties where the tribe lived centuries or millennia ago.

a. Tribal Directory Assessment Tool (TDAT)
Type the project address into the locator box in TDAT and it will return a list of tribes with interest in the area, with contact names, addresses, e-mail addresses, fax numbers and phone numbers. You can export the list as an Excel spreadsheet for mail merge in g. below. If TDAT shows no federally-recognized tribes with an interest in the area, document the result in the ERR; consultation is complete unless a previously unidentified, federally-recognized tribe expresses a desire to consult.

b. Tribe as Grant Recipient
If a tribe is a grant recipient in a HUD project and assumes the role of RE and conducts the Section 106 review, that tribe is responsible for inviting other tribes to consult if other tribes also have a religious or cultural interest in the project area. Additional guidance is available.

c. Non-federally Recognized Tribes
Although REs are only required to consult with federally-recognized tribes, the RE may invite non-federally recognized tribes with a demonstrated interest in the project to consult as additional consulting parties. They may also participate as members of the public. [See pages 9-11 of *Consultation with Indian Tribes in the Section 106 Review Process: A Handbook*]

d. Contact federally-recognized tribe(s) and invite consultation
Once the RE has identified tribes with a potential interest in the project area, the RE mails a letter to each tribe to invite consultation. The letter(s), on RE letterhead, may be transmitted by email. Keep a copy of the letter(s) in the Environmental Review Record (ERR) for monitoring purposes.

e. Historic Properties of Religious and Cultural Significance
The letter that invites consultation should contain a request for assistance in identifying historic properties of religious and cultural significance in the project area - archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places, traditional cultural landscapes, plant and animal communities, and buildings and structures with significant tribal association - and any initial concerns with impacts of the project on those resources.

f. Tribal Historic Preservation Officer (THPO)
Some tribes have both a tribal leader and a Tribal Historic Preservation Officer (THPO) listed in TDAT. Send letters to both and ask that the tribe's response indicate a single point of contact if possible. On tribal lands, a THPO may have assumed authority for Section 106 review in lieu of the State Historic Preservation Officer (SHPO). On non-tribal lands, the THPO may have been delegated by the tribe to represent them in Section 106 reviews, but their participation does not take the place of consultation with the SHPO. [See page 6 of *Consultation with Indian Tribes in the Section 106 Review Process: A Handbook*]

g. Template Letter
Send a letter to the tribe(s) using TDAT contact info mail merged with the template letter. The RE may customize the template letter if desired. [Link to template letter]

You must add a description of the project into the letter by editing the template. The description should include, as applicable: the location and size of the property; type of project; type and scale of new building(s) or structures; construction materials; number of housing units; depth and area of ground disturbance; introduction of visual, audible or atmospheric changes; or transfer, lease or sale of property. [Link to sample project descriptions]

The RE -- not a contractor, lender, sponsor, sub-recipient or other grantee -- must sign the letter to the tribe(s). The RE is required to conduct government-to-government consultation.

h. Map
Enclose a map showing the location of the project and the Area of Potential Effect (APE), which may be larger than the project property. For urban sites, a map generated from a site like Google Earth is preferred. [Link to Google Earth] For rural sites, a USGS topographic map is preferred. [Link to topo map site]

i. Timeframes
HUD's policy is to request a response to the invitation to consult within 30 days from the date the tribe receives the letter. For gauging the beginning and end of the 30 day period, an RE may assume that an emailed letter is received on the date it is sent. For a hard copy letter, an RE may send the letter certified mail, or, if mail delivery is predictable and reliable, the RE may assume a 5-day delivery period, and assume that the period ends 35 days after the letter is mailed.

If a tribe wishes to be a consulting party, the tribe must provide within 30 days an indication of their desire to consult. The tribe does not need to actually provide information about historic properties of religious and cultural significance within 30 days; that may take longer. If a tribe responds that they do not want to consult, document the response in the ERR. If a tribe does not respond to the invitation to consult within 30 days, the RE should document the invitation and lack of response in the ERR; further consultation is not required.

j. Tiered Review
If a project is utilizing a Tiered review, consultation should usually begin in the Tier 1 broad level review. If a tribe expresses interest in further consultation on specific sites, the Tier 1 review should include a written strategy for continuing consultation on site specific reviews in Tier 2. [See 24 CFR 58.15]

Step 2. Consult with the tribe(s) to identify and evaluate historic properties of religious and cultural significance

Theoretically, the consultation process first identifies potential historic properties, then evaluates which ones are eligible for the National Register of Historic Places, and then assesses the impact(s) of the project on those resources. In practice, those efforts often occur simultaneously. It is important to remember though, that only historic properties of religious and cultural significance that are eligible for or listed on the National Register are protected under Section 106. If no such properties are present, refer to the "No Historic Properties Affected" finding in Step 3 below.

a. Consultation Meeting(s)
After receiving a response that a tribe wants to consult, contact the tribe(s) to arrange further consultation which may take place by phone, web meeting, or face-to-face meeting. Try to accommodate a tribe's preferences as to meeting location and method of communication. If needed, a site visit is an eligible project expense. If more than one tribe wants to consult, consult jointly if possible. Integrate tribal consultation with consultation with other non-tribal parties, including the SHPO, as possible and appropriate. Recognize that some tribes may not want to consult jointly, particularly where there are concerns for confidentiality of information.

b. Evaluation of Historic Properties for the National Register of Historic Places
Gather information on known historic properties from the tribe, SHPO, consultants, and other repositories. Discuss with the tribe whether known properties appear eligible for the National Register of Historic Places. HUD acknowledges that tribes possess special expertise in evaluating the eligibility of religious and cultural properties for the National Register. Generally, if the RE disagrees with a tribe's opinion, the RE or the tribe may ask the Advisory Council on Historic Preservation to enter the consultation. The tribe may also ask the Council to request the RE to obtain a formal determination of eligibility from the Keeper of the National Register.

c. Surveys to Identify Additional Historic Properties
If a convincing case is made by the tribe(s) and/or SHPO that National Register eligible historic properties potentially exist on the site, and that they may be affected by the project, the grantee may approve funding for an archeological survey as part of the project. Consult HUD's HP Fact Sheet #6, Guidance on Archeological Investigations in HUD Projects. [Link to HP Fact Sheet #6]

Sometimes, consultation results in modification of project plans to avoid potential effects on historic properties of religious and cultural significance. If effects are avoided, e.g. by designating a sensitive area as undisturbed green space, it is generally not necessary to fully identify and document resources with an archeological survey.

An RE is not required to pay for consultation. However, an RE may choose to negotiate payment to a tribe for detailed survey documentation on historic properties of religious and cultural significance to the tribe, similar to payment to a consultant. If agreed upon ahead of time, this payment may be an eligible project expense.

d. Confidentiality of Information
Tribes may be hesitant to share information on the location, character, and use of historic properties of special religious and cultural significance. Discuss with the tribe(s) ways to protect confidentiality of such information. The RE should strive to ensure confidentiality when requested. 36 CFR 800.11(c) outlines a formal process for obtaining federal authority to withhold sensitive information, in the event that practical means or state authority are not available.

Step 3. Consult with the tribe(s) to evaluate the effects of the project on identified and potential historic resources

After discussing the possible effects of the project on historic properties of religious and cultural significance to tribes, the RE determines the appropriate finding: "No Historic Properties Affected"; 'No Adverse Effect"; or "Adverse Effect". The RE will also be consulting with other parties, like the SHPO, to determine effects of the project on these and other types of resources, like historic buildings with no tribal association. It is desirable to consolidate findings of effect for all types of historic properties in one letter. Ultimately, a project has one overall finding of effect. Tribes have 30 days to object to a finding of effect.

a. Criteria of Adverse Effect
Consult with the tribe(s) and other consulting parties to apply the Criteria of Adverse Effect, and determine if the project may have an adverse effect.

b. "No Historic Properties Affected" Finding
If there are no known or potential historic properties in the project area that are listed on or eligible for the National Register of Historic Places, or if such properties exist but there will be no effect on them, notify the tribe(s) and other consulting parties of your determination of "No Historic Properties Affected." Describe which of the above circumstances applies. It is not necessary to fully identify and document resources if they will not be affected by the project.

c. "No Adverse Effect" Finding
If the project will have an effect, but it will not be adverse, notify the tribe(s) and other consulting parties of your determination of "No Adverse Effect." They have 30 days to object. If a tribe objects, the RE should consult to resolve the objection. The tribe or the RE may also ask the Advisory Council on Historic

Preservation to review the determination. The request must be made within the 30-day period and must include the documentation listed in 36 CFR 800.11 (e).

d. "Adverse Effect" Finding
If the project will affect National Register listed or eligible historic properties in any of the ways outlined in the Criteria of Adverse Effect, notify the tribe(s) and other consulting parties of your determination of "Adverse Effect" and consult to resolve the adverse effects. Typical activities that could adversely affect historic properties of religious and cultural significance include: ground disturbance (digging), new construction in undeveloped natural areas, introduction of incongruent visual, audible, or atmospheric changes, work on a building or structure with significant tribal association, or transfer, lease or sale of historic properties of religious and cultural significance.

Step 4. Consult to resolve adverse effects

If there are possible "Adverse Effects", consult with the tribe(s) and other consulting parties to consider alternatives that would avoid or minimize adverse effects, including possible mitigation measures.

a. Notification of Advisory Council
The RE must notify the Advisory Council on Historic Preservation (ACHP) about the adverse effect and give them an opportunity to enter the consultation. The Council will decide whether to enter the consultation based on established criteria that include whether a project "Presents issues of concern to Indian tribes or Native Hawaiian organizations." The Advisory Council must respond within 15 days of receipt of the request. [See link to on-line ACHP notification system – pending]

b. Consideration of Alternatives
Consult with the tribe(s) and other consulting parties about possible ways to modify a project to avoid adverse effects. If initial discussion does not resolve the issue(s), a site visit with consulting parties and project developers is often helpful. An agreed upon alternative may be stipulated with "conditions" in a revised "No Adverse Effect" finding for the project.

c. Consideration of Mitigation Measures
If adverse effects cannot be fully resolved, and there is a compelling need for the project to proceed despite the adverse effect(s), consider ways to mitigate or compensate for the harm to the historic property(ies). Mitigation measures may include data recovery, documentation, research, publication, education, interpretation, curation, off-site preservation, and/or monitoring and may relate to the specific resource that is being affected, or other historic properties in a similar location or of a similar type.

d. If needed, prepare and execute a Memorandum of Agreement (MOA)
An MOA stipulates the agreed upon measures to minimize and/or mitigate adverse effects. It is a legally binding document that obligates all named parties

to the agreement. The RE is responsible for ensuring that the measures required by the MOA are satisfactorily carried out. Model language is available. At the discretion of the RE, where deemed necessary, an MOA may also be used to codify agreed upon measures to avoid an adverse effect, in conjunction with a conditional "No Adverse Effect" finding.

e. Execution of the MOA
The MOA must be executed prior to the decision point for the project -- as applicable, prior to the dissemination or publication of public notices required by 24 CFR Part 58 (e.g., notice of finding of no significant impact (§58.43), and notice of intent to request the release of funds (§58.70)). The RE should send a digital copy of the MOA to the HUD Field Environmental Officer (FEO) who will file it in the MOA file in the central HUD shared drive. A copy must also be provided to the Advisory Council on Historic Preservation and the consulting tribe(s).

f. Signatories to the MOA
The Responsible Entity may invite the tribe(s) to sign the MOA as a consulting party. The tribal leader and the THPO may sign the MOA. For projects on tribal lands, if the tribe has a THPO who has assumed Section 106 responsibilities for the tribe, the THPO must be a signatory.

HUD does not sign Section 106 agreement documents covered by 24 CFR Part 58. HUD does sign agreements covered by 24 CFR Part 50. If a project is subject to both, HUD may sign as long as the agreement states the appropriate program reference. [See CPD Memo on HUD Environmental Regulations and Section 106 Agreement Documents]

g. Completion of MOA requirements
The RE must ensure that the stipulations and mitigation measures in the MOA are carried out and inform the tribe(s) of completion. Document completion in the Environmental Review Record (ERR).

h. Termination of Consultation
If consulting about properties on tribal lands, a THPO may determine that further consultation will not be productive and terminate consultation. Likewise, an RE, SHPO, or, if participating, the Advisory Council on Historic Preservation, may terminate consultation. Termination of consultation is detailed at 36 CFR 800.7. A tribe that is consulting about properties off tribal lands may decline an invitation to sign an MOA, but does not have a right to terminate consultation under 36 CFR 800.7.

IV. Record of Compliance

Include evidence of compliance with this protocol in the Environmental Review Record (ERR), including notes, letters, e-mails, reports, etc.

Failure to consult with tribes per this protocol may lead to HUD issuing a finding of non-compliance with 36 CFR Part 800, the regulations that implement Section 106. If HUD makes a finding, HUD may initiate sanctions, corrective actions, or other remedies specified in program regulations or agreements or contracts with the RE which may include terminating grants where appropriate and repayment of funds expended with non-federal funds. (See 24 CFR 58.77)

A. Request for Release of Funds (RROF) (Form 7015.15)

REs and grantees must certify on the Request for Release of Funds and Certification (form HUD 7015.15) that they have consulted with federally-recognized tribes per this protocol. [See Part 2, #3 of form]

V. Discoveries During Construction

Whenever previously unknown below ground historic properties of religious and cultural significance are discovered during construction, excavation in the area of the resources must immediately stop until tribal consultation can occur. The RE must notify tribes (including the THPOs), the Advisory Council on Historic Preservation, and the SHPO within 48 hours of the discovery. [See 36 CFR 800.13(b)] Contact the tribes identified in Step 1 and reenter consultation which should take place under an accelerated timeframe. A site visit with the RE, tribe(s), and SHPO (as appropriate) is recommended to resolve any potential adverse effect(s) to the historic property(ies) of religious and cultural significance.

A. Human Remains

If the discovery includes human remains, they should be respectfully covered over and secured, and the RE should contact law enforcement authorities as well as tribes and other consulting parties. If the human remains are determined to be Indian burials, the RE should follow the guidance in the **"Advisory Council on Historic Preservation Policy Statement Regarding Treatment of Burial Sites, Human Remains and Funerary Objects."**

B. Native American Graves Protection and Repatriation Act (NAGPRA)

In undertakings on federal or tribal lands, the Native American Graves Protection and Repatriation Act (NAGPRA) *(25 U.S.C. 3001 et seq)* requires that cultural items excavated or inadvertently discovered be returned to their respective peoples. Cultural items include human remains, funerary objects, sacred objects, and objects of cultural patrimony. More information is available.

VI. Statutory and Regulatory Requirements

Federal law directs federal agencies to consult with tribes when there is a potential for a federally-funded project to affect a historic property of religious and cultural significance to tribes.

Section 106 of the National Historic Preservation Act *(16 U.S.C. 470f)* requires that prior to approving the expenditure of funds for a project, a federal agency must take into account the effect of the undertaking on historic resources.

Section 101 (d)(6)(A) and (B) of the National Historic Preservation Act identifies the types of properties to be considered and the obligation to consult. The Act provides that properties of traditional religious and cultural importance to an Indian tribe or Native Hawaiian organization may be determined to be eligible for inclusion in the National Register of Historic Places. In carrying out its responsibilities under Section 106 of the Act, a Federal agency is required to consult with any Indian tribe or Native Hawaiian organization that attaches religious and cultural significance to such properties. In projects that are reviewed under 24 CFR Part 58, the Responsible Entity (RE) assumes the role of the Federal agency, including tribal consultation. [See 24 CFR 58.4]

The regulations that implement Section 106 of the Act, 36 CFR Part 800 – "Protection of Historic Properties," define "Indian tribe" as federally-recognized tribes, and limit the need to consult to projects that have the potential to affect historic properties of religious and cultural significance to tribes.

36 CFR 800.2 (c)(2)(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…

36 CFR 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.
(1) *No potential to cause effects*. If the undertaking is a type of activity that does not have the potential to cause effects on historic properties, assuming such historic properties were present, the agency official has no further obligations under section 106 or this part.

Therefore, the consultation process outlined in this Notice starts by first establishing whether the project includes a type of activity that has the potential to affect historic properties of religious and cultural significance to tribes. If it does, it outlines the steps to consult with tribes to identify and evaluate resources, and to assess the effects of the project on the resources.

VII. Definitions

Definitions of some of the terms used in this Notice may be found in 24 CFR Part 58 and 36 CFR Part 800, "Protection of Historic Properties", and are repeated here for convenience.

The definition of ***Responsible Entity*** is found in 24 CFR 58.2(a)(7).

Responsible Entity. Responsible Entity means:

(i) With respect to environmental responsibilities under programs listed in §58.1(b)(1), (2), (3)(i), (4), and (5), a recipient under the program.

(ii) With respect to environmental responsibilities under the programs listed in §58.1(b)(3)(ii) and (6) through (12), a state, unit of general local government, Indian tribe or Alaska Native Village, or the Department of Hawaiian Home Lands, when it is the recipient under the program. Under the Native American Housing Assistance and Self-Determination Act of 1996 (25 U.S.C. 4101 *et seq.*) listed in §58.1(b)(10)(i), the Indian tribe is the responsible entity whether or not a Tribally Designated Housing Entity is authorized to receive grant amounts on behalf of the tribe. The Indian tribe is also the responsible entity under the Section 184 Indian Housing Loan Guarantee program listed in §58.1(b)(11). Regional Corporations in Alaska are considered Indian tribes in this part. Non-recipient responsible entities are designated as follows:

(A) For qualified housing finance agencies, the State or a unit of general local government, Indian tribe or Alaska native village whose jurisdiction contains the project site;

(B) For public housing agencies, the unit of general local government within which the project is located that exercises land use responsibility, or if HUD determines this infeasible, the county, or if HUD determines this infeasible, the State;

(C) For non-profit organizations and other entities, the unit of general local government, Indian tribe or Alaska native village within which the project is located that exercises land use responsibility, or if HUD determines this infeasible, the county, or if HUD determines this infeasible, the State;

Definitions of some other parties in the Section 106 process are found in 36 CFR 800.16.

Council means the Advisory Council on Historic Preservation or a Council member or employee designated to act for the Council.

Indian tribe means an Indian tribe, band, nation, or other organized group or community, including a native village, regional corporation, or village corporation, as those terms are defined in section 3 of the Alaska Native Claims Settlement Act (43 U.S.C. 1602), which is recognized as eligible for the special programs and services provided by the United States to Indians because of their status as Indians.

Native Hawaiian organization means any organization which serves and represents the interests of Native Hawaiians; has as a primary and stated purpose the provision of services to Native Hawaiians; and has demonstrated expertise in aspects of historic preservation that are significant to Native Hawaiians.

Native Hawaiian means any individual who is a descendant of the aboriginal people who, prior to 1778, occupied and exercised sovereignty in the area that now constitutes the State of Hawaii.

State Historic Preservation Officer (SHPO) means the official appointed or designated pursuant to section 101(b)(1) of the act to administer the State historic preservation program or a representative designated to act for the State historic preservation officer.

Tribal Historic Preservation Officer (THPO) means the tribal official appointed by the tribe's chief governing authority or designated by a tribal ordinance or preservation program who has assumed the responsibilities of the SHPO for purposes of section 106 compliance on tribal lands in accordance with section 101(d)(2) of the act.

Other relevant definitions found in 36 CFR 800.16 include:

Area of potential effects means the geographic area or areas within which an undertaking may directly or indirectly cause alterations in the character or use of historic properties, if any such properties exist. The area of potential effects is influenced by the scale and nature of an undertaking and may be different for different kinds of effects caused by the undertaking.

Consultation means the process of seeking, discussing, and considering the views of other participants, and, where feasible, seeking agreement with them regarding matters arising in the section 106 process. The Secretary's "Standards and Guidelines for Federal Agency Preservation Programs pursuant to the National Historic Preservation Act" provide further guidance on consultation.

Effect means alteration to the characteristics of a historic property qualifying it for inclusion in or eligibility for the National Register.

Eligible for inclusion in the National Register includes both properties formally determined as such in accordance with regulations of the Secretary of the Interior and all other properties that meet the National Register criteria.

Historic property means any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in, the National Register of Historic Places maintained by the Secretary of the Interior. This term includes artifacts, records, and remains that are related to and located within such properties. The term includes properties of traditional religious and cultural importance to an Indian tribe or Native Hawaiian organization and that meet the National Register criteria.

Memorandum of agreement means the document that records the terms and conditions agreed upon to resolve the adverse effects of an undertaking upon historic properties.

National Register means the National Register of Historic Places maintained by the Secretary of the Interior.

Programmatic agreement means a document that records the terms and conditions agreed upon to resolve the potential adverse effects of a Federal agency program, complex undertaking or other situations in accordance with §800.14(b).

Tribal lands means all lands within the exterior boundaries of any Indian reservation and all dependent Indian communities.

Undertaking means a project, activity, or program funded in whole or in part under the direct or indirect jurisdiction of a Federal agency, including those carried out by or on behalf of a Federal agency; those carried out with Federal financial assistance; and those requiring a Federal permit, license or approval.

Acronyms Used in This Notice

ACHP	Advisory Council on Historic Preservation (federal)
APE	Area of Potential Effect
CPD	Community Planning and Development Office
ERR	Environmental Review Record
FEO	Field Environmental Officer
HUD	U.S. Department of Housing and Urban Development
MOA	Memorandum of Agreement
NAGPRA	Native American Graves Protection and Repatriation Act
PA	Programmatic Agreement
RE	Responsible Entity
REO	Regional Environmental Officer
RROF	Request for Release of Funds and Certification
SHPO	State Historic Preservation Officer
TDAT	Tribal Directory Assessment Tool
THPO	Tribal Historic Preservation Officer

Appendix A

When To Consult With Tribes Under Section 106 Checklist

Yolanda Chávez
Deputy Assistant Secretary for Grant Programs

Appendix A

When To Consult With Tribes Under Section 106

Section 106 requires consultation with federally-recognized Indian tribes when a project may affect a historic property of religious and cultural significance to the tribe. Historic properties of religious and cultural significance include: archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places, traditional cultural landscapes, plant and animal communities, and buildings and structures with significant tribal association. The types of activities that may affect historic properties of religious and cultural significance include: ground disturbance (digging), new construction in undeveloped natural areas, introduction of incongruent visual, audible, or atmospheric changes, work on a building with significant tribal association, and transfer, lease or sale of properties of the types listed above.

If a project includes any of the types of activities below, invite tribes to consult:

- **significant ground disturbance (digging)**
  Examples: new sewer lines, utility lines (above and below ground), foundations, footings, grading, access roads
- **new construction in undeveloped natural areas**
  Examples: industrial-scale energy facilities, transmission lines, pipelines, or new recreational facilities, in undeveloped natural areas like mountaintops, canyons, islands, forests, native grasslands, etc., and housing, commercial, and industrial facilities in such areas
- **incongruent visual changes**
  Examples: construction of a focal point that is out of character with the surrounding natural area, impairment of the vista or viewshed from an observation point in the natural landscape, or impairment of the recognized historic scenic qualities of an area
- **incongruent audible changes**
  Examples: increase in noise levels above an acceptable standard in areas known for their quiet, contemplative experience
- **incongruent atmospheric changes**
  Examples: introduction of lights that create skyglow in an area with a dark night sky
- **work on a building with significant tribal association**
  Examples: rehabilitation, demolition or removal of a surviving ancient tribal structure or village, or a building or structure that there is reason to believe was the location of a significant tribal event, home of an important person, or that served as a tribal school or community hall
- **transfer, lease or sale of a historic property of religious and cultural significance**
  Example: transfer, lease or sale of properties that contain archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, plant and animal communities, or buildings and structures with significant tribal association
- **None of the above apply**

Project	**Reviewed By**	**Date**

DEPARTMENT OF COMMUNITY SERVICES
CITY AND COUNTY OF HONOLULU
715 SOUTH KING STREET, SUITE 311 • HONOLULU, HAWAII 96813 • AREA CODE 808 • PHONE: 768-7762 • FAX: 768-7792

KIRK CALDWELL
MAYOR

PAMELA A. WITTY-OAKLAND
DIRECTOR

GARY K. NAKATA
DEPUTY DIRECTOR

September 23, 2013

Mr. Loyal Mehrhoff
U.S. Fish and Wildlife Service
Pacific Islands Office
300 Ala Moana Boulevard
Room 3-122, Box 50088
Honolulu, Hawaii 96850

Dear Mr. Mehrhoff:

SUBJECT: Waimānalo Health Center - Goebert Training Center Renovation
41-1347 Kalanianaole Highway, Waimānalo, Hawaii 96795
Tax Map Key: 4-1-009:279

The City and County of Honolulu is in the process of performing an environmental review, pursuant to 24 Code of Federal Regulations (CFR) Part 58, for a grant of $275,000 in Community Development Block Grant (CDBG) funds to Waimānalo Health Center. The grant funds will be used for renovating the project's Goebert Training Center. Work will include, but is not limited to, widening sidewalks; installing the following: a second handicap accessible ramp with railings, hand railings on sidewalks and existing stairs, an additional alarm and motion sensor lighting, drop lighting, storage cabinetry, counters, prep sink in kitchen, computer wiring and wireless internet for training stations, and outdoor lanai of permeable pavers/stone to connect hall to the demonstration garden; replacing the following: sliding doors with swing out doors, rolling kitchen door with solid door and wall, and existing kitchen doors with screen/louver system; repair and replace gutters and downspouts, creating storage for tables and chairs, soundproofing metal roof with insulation, and relocating interior electrical outlets from ceiling level to floor.

We believe that the proposed project does not represent a "major construction activity" as defined in 50 CFR 402.02, and will not affect any threatened or endangered species. Accordingly, to better research this contention, we request a list of any federally-listed, proposed threatened, or endangered species; please also list any designated or proposed critical habitat that may be present in the project area. In addition, please advise us of any present concerns you may have related to possible effects of the project on such species or critical habitat, as well as any other wildlife concerns.

We would appreciate a response within thirty (30) days. It has been our practice that if we do not hear from you within thirty (30) days upon receipt of this letter, we will proceed with the work on the project. If you need further information or wish to discuss the project, please contact Mr. Gabe Naeole at (808) 768-7715.

Sincerely,

Pamela A. Witty-Oakland
Director

PAW:gn

U.S. Department of Housing
and Urban Development
California State Office of
Community Development
Environmental Branch

Environmental Assessment

(HUD recommended format per
24 CFR 58.36, revised 1/99)

Project Identification:	Lincoln Street Apartments 40852 Lincoln Street Fremont, CA, 94538
Responsible Entity:	Alameda County HOME Consortium 224 W. Winton Avenue, Room 108 Hayward, CA 94544
Month/Year:	February/2004

Environmental Assessment

Responsible Entity: Alameda County HOME Consortium
[24 CFR 58.2(a)(7)]
Certifying Officer: Linda Gardner
[24 CFR 58.2(a)(2)]
Project Name: Lincoln Street Apartments

Project Location: 40852 Lincoln Street, Fremont, CA 94538

Estimated total project cost: $3,671,221

Grant Recipient: Alameda County HOME Consortium
[24 CFR 58.2(a)(5)]
Recipient Address: 224 W. Winton Avenue, Room 108, Hayward, CA 94544 – 1215

Project Representative: Lourdes Chang

Telephone Number: (510) 494-4504

Conditions for Approval: (List all mitigation measures adopted by the responsible entity to eliminate or minimize adverse environmental impacts. These conditions must be included in project contracts or other relevant documents as requirements). [24 CFR 58.40(d), 40 CFR 1505.2(c)]

See Mitigation Measures Recommended Section: #1 through #6

#1 - Historical/archeological mitigation
#2 – Air Quality; Hazards and Nuisances - Dust suppression mitigation
#3 – Possible hazardous materials mitigation
#4 and 5 - Storm water, drainage and water quality impacts mitigation
#6 - Hours of construction mitigation

FINDING: [58.40(g)]

X **Finding of No Significant Impact**
(The project will not result in a significant impact on the quality of the human environment)

___ **Finding of Significant Impact**
(The project may significantly affect the quality of the human environment)

Preparer Signature: _____
Title/Agency: Arquimides Caldera/City of Fremont **Date:** 02/25/04

RE Approving Official Signature: _____
Title/ Agency: Linda Gardner / Housing Director **Date:**

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

The Lincoln Street Project will meet the City of Fremont's stated need to develop housing for disabled persons. This project is a development of 11 apartments of affordable housing for developmentally disabled individuals.

Description of the Proposal: The Lincoln Street Apartments is a new construction project that will result in 11 units of affordable, independent living apartments for adults with developmental disabilities. The proposed development is being developed by two nonprofit organizations based in the San Francisco Bay Area: Housing Consortium of the East Bay, a nonprofit service organization with experience in providing housing counseling and services to people with developmental disabilities, and Satellite Housing Inc., an experienced nonprofit affordable housing developer.

The proposed development will consist of 11, two and three-bedroom apartments, each with a kitchen and bathroom; a community room where residents can meet for social gatherings and participate in classes provided by HCEB; and outdoor, landscaped areas on the premises. The architect, Erik Mikiten of Mikiten Architecture, has extensive experience in designing residential communities for individuals with disabilities and their families. HCEB/Satellite and the architect are working closely with City staff and the community in developing a site plan and design that will complement the existing neighborhood.

The estimated total project cost is $3,671,221 million. The City of Fremont has conditionally reserved a total of $1.0 million, including $660,000 in CDBG funds, $208,650 in HOME funds and $131,350 in affordable housing funds from the Redevelopment Agency. In November 2003, HCEB was awarded a fund reservation in the amount of $1.4 million under the HUD 811 Capital Advance program. HCEB has applied for $110,000 in Federal Home Loan Bank's Affordable Housing Program. In March and April 2004, HCEB will apply for additional funds from County HOME and the State Housing and Community Development Multifamily Housing Program Supportive Housing Funds.

Existing Conditions and Trends: Describe the existing conditions of the project area and its surroundings, and trends likely to continue in the absence of the project. [24 CFR 58.40(a)]

This project is located at 40852 Lincoln Street in the Irvington District of Fremont, CA. A large barn structure currently exists on the property. The structure has undergone numerous remodels, additions, and/or modifications in order to allow its current use as a single-family residence. These modifications include non-matching, lower shed roofed additions at each side, contemporary entry doors and other fenestration, re-roofing, etc.

The surrounding neighborhood consists of a mix of multifamily apartments and single-family homes. Multi-family developments are located to the south and northeast; single-family residences are located to the north, east and west.

If the proposed project was not completed, the property would be sold to another developer.

Statutory Checklist

[24CFR §58.5]

For each listed statute, executive order or regulation, record the determinations made. Note reviews and consultations completed as well as any applicable permits or approvals obtained. Attach evidence that all required actions have been taken. Record any conditions or mitigation measures required. Then, make a determination of compliance or consistency.

Factors	Determinations and Compliance Documentation
Historic Preservation [36 CFR 800]	In response to City request for concurrence, 4/29/03 SHPO letter requested further archeological, historical and cultural research. City requested record search from Northwest Information Center (NWIC). NWIC (see 5/28/03 letter) indicated no recorded Native American or historic period archeological resources. In 6/11/03 letter to SHPO, City confirmed it will follow CEQA guidelines should any archeological resources be discovered during site development (see recommended Mitigation Measures #1). SHPO did not respond within 30 days of final City of Fremont determination of "no historic properties affected". Regulatory requirement satisfied (SHPO later email confirming concurrence enclosed).
Floodplain Management [24 CFR 55, Executive Order 11988]	Not in floodplain (FEMA Flood Insurance Rate Map (FIRM) Community Panel Number 065028 0030 C, dated February 9, 2000).
Wetlands Protection [Executive Order 11990]	None in project area (City of Fremont General Plan, Natural Resources Chapter) and field observation, Dec. 18, 2003.
Coastal Zone Management Act [Sections 307(c),(d)]	Not within a coastal zone (City of Fremont General Plan, Natural Resources Chapter).
Sole Source Aquifers [40 CFR 149]	There are no sole source aquifers in the City (City of Fremont General Plan, Natural Resources Chapter; US EPA Water Management Division, Region IX).
Endangered Species Act [50 CFR 402]	Existing, improved ½-acre residential site. Site is not a known habitat for endangered, threatened or rare specie. There is no evidence of burrowing owl s on site. Will have no effect on any endangered species (Field Observation, December 18, 2003 and City of Fremont General Plan, Natural Resources).
Wild and Scenic Rivers Act [Sections 7 (b), (c)]	None in project area or in the City of Fremont (City of Fremont General Plan, Natural Resources Chapter).
Air Quality [Clean Air Act, Sections 176 (c) and (d), and 40 CFR 6, 51, 93]	½-acre residential project will not impact air quality. Project is in an attainment area or conforms to the EPA-approved State Implementation Plan (SIP) for all components, per contact with Air Quality Management District. Project shall comply with standard dust suppression measures (see recommended Mitigation Measures #2). (Contact: Joe Steinberger, Senior Planner, BAAQMD, jsteinberger@baaqmd.gov; Project Environmental Impact Analysis Initial Study – Clifford Nguyen)
Farmland Protection Policy Act [7 CFR 658]	Not located on any Agricultural Preserve map or identified as land under Williamson Act contract. Not prime or unique farmland. (Williamson Act Agricultural Preserve Map, dated March 2002, City of Fremont General Plan, Natural Resources Chapter).
Environmental Justice [Executive Order 12898]	The site is already designated in the General Plan and Zoning maps for multi-family use, and no adverse environmental conditions affecting it (Field Observation; General Plan and Zoning Maps dated March 2002 and December 2002, respectively, and this assessment). Project will house developmentally disabled individuals. Because the project exposes no one to adverse environmental conditions, the project does not expose low income or minority populations to adverse environmental conditions.

HUD Environmental Standards	Determinations and Compliance Documentation
Noise Abatement and Control [24 CFR 51 B]	Not applicable - fully surrounded by existing residential uses and not proximate to a major or arterial roadway or railroad (General Plan and Zoning Maps dated March 2002 and December 2002, respectively; General Plan Health and Safety Chapter, and field observation).
Toxic or Hazardous Substances and	Fully surrounded by existing residential uses. The site is not on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 No Superfund or CERCLIS sites within the City of Fremont. Possible

Radioactive Materials [HUD Notice 79-33]	underground storage tank will be subject to proper mitigation measures (see recommended Mitigation Measures #3) (General Plan and Zoning Maps dated March 2002 and December 2002, respectively; Hazardous Waste and Substances Sites (Cortese) List, dated April 2002: www.epa.gov/superfund/sites/cursites).
Siting of HUD-Assisted Projects near Hazardous Operations [24 CFR 51 C]	This project will not expose either people or buildings to additional hazards. Project is fully surrounded by residential and commercial uses that do not involve the above ground storage of explosive or flammable materials. (City of Fremont Fire Department HAZMAT Area Files – Sally Miller)
Airport Clear Zones and Accident Potential Zones [24 CFR 51 D]	The City of Fremont has no Commercial, military or general aviation air ports in fremont. Not within external airport clear zone (General Plan – Health and Safety Chapter, pg. 10-41)

Environmental Assessment Checklist

[Environmental Review Guide HUD CPD 782, 24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27]

Evaluate the significance of the effects of the proposal on the character, features and resources of the project area. Enter relevant base data and verifiable source documentation to support the finding. Then enter the appropriate impact code from the following list to make a finding of impact. **Impact Codes**: **(1)** - No impact anticipated; **(2)** - Potentially beneficial; **(3)** - Potentially adverse; **(4)** - Requires mitigation; **(5)** - Requires project modification. Note names, dates of contact, telephone numbers and page references. Attach additional materials as needed.

Land Development	**Code**	**Source or Documentation**
Conformance with Comprehensive Plans And Zoning	2	Project does not require a General Plan Amendment. It is consistent with the City's General Plan, particularly the recently certified Housing Element, in that it allows for the development of a higher density, multifamily affordable housing project on a site that is currently identified as underutilized land. The project consists of rezoning from R-G-29 Garden Apartment Residence District to R-3-18 Multifamily Residence District, zoned for multi-family residential land use. Multi-family developments are located to the south and northeast; single family residences are located to the north, east and west. Developer is in the process of receiving all use permits and design review approvals. (Contact: 1/13/04; Project EIA Initial Study – Clifford Nguyen)
Compatibility and Urban Impact	2	The proposed mult-unit residential development is an infill project compatible with and supportive of surrounding uses. Multi-family developments are located to the south and northeast; single family residences are located to the north, east and west. Project does not displace or divide existing community. Demolition of current structure is compatible with and supportive of surroundings. (Contact: Lourdes Chang – City of Fremont Office of Housing Project Manager 1/13/04; Project EIA Initial Study – Clifford Nguyen)
Slope	1	The project site is not within an area of potential landslides, and the project site is not on expansive soils. (General Plan Health and Safety Chapter, Figure 10-1, Slope Instability; Field Observation 1/07/04)
Erosion	1	The project site is not within an area of potential landslides and the project site is not on expansive soils. (Project Environmental Impact Analysis – Clifford Nguyen, Planner; General Plan Health and Safety Chapter, Figure 10-1, Slope Instability),
Soil Suitability	1	The project site is not within an area of potential landslides and the project site is not on expansive soils as defined in Table 18-1-B of the Uniform Building Code. To obtain City of Fremont Building Permits, project will be required to meet soil suitability requirements as specified in Fremont Municipal Code Section 7-1220.1804. Regulation will require in-depth tests and studies in regards to drainage, subsidence, liquefaction, foundational support, and general suitability and shall be prepared, signed, and stamped by a California licensed Geotechnical Engineer or

		Civil Engineer. (Ken Fujimoto, City of Fremont Building & Safety Department, 1/14/04; Project Environmental Impact Analysis Initial Study – Clifford Nguyen, COF Planner; General Plan Health and Safety Chapter, Figure 10-1, Slope Instability),
Hazards and Nuisances including Site Safety	4	Fully surrounded by existing residential uses. The site is not on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 No Superfund or CERCLIS sites within the City of Fremont. Possible underground storage tank will be subject to proper mitigation measures (see recommended Mitigation Measures #3) During construction, dust and noise will be controlled through standard construction suppression measures (see recommended Mitigation Measures #2). Street lighting is adequate. While project site is not located within a known Earthquake Fault Zone, or Alquist-Priolo Earthquake Hazard Zone, it is located approximately 900 feet west of the Active Hayward Fault. Project will be subject to appropriate engineered designs in conformance with geotechnical standards for construction in order to address the primary and secondary effects of ground shaking and liquefaction. Project is not within an area of potential landslides. (General Plan and Zoning Maps dated March 2002 and December 2002, respectively; Hazardous Waste and Substances Sites (Cortese) List, dated April 2002: www.epa.gov/superfund/sites/cursites; General Plan Health and Safety Chapter, Figure 10-1,10-3;; Field Observation, Arquimides Caldera,1/06/04)
Energy Consumption	1	In order to obtain City of Fremont Building Permits, this project will be required to meet energy consumption standards as outlined in California Building Code, Title 24 "2001 Energy Efficiency Standards". In addition, this project is located within 0.2 miles of major retail and employment centers and is within 0.5 miles of the local elementary school. This project is located within 0.25 miles of AC Transit Line 212 Irvington. (Ken Fujimoto, City of Fremont Building & Safety Department, 1/14/04; Southern Alameda County GIS Authority, City of Fremont Standard Parcel Map, 1/14/04; Alameda-Contra Costa Transit District website, www.actransit.org, visited 1/14/04).

Noise - Contribution to Community Noise Levels	1, 4	The development of multifamily residential project on an existing residential collector street will not result in any significant noise generation levels within the Neighborhood, nor will the it result in the units being exposed to noise levels in excess of General Plan policies. Construction phase noise will be mitigated by standard procedures (see recommended Mitigation Measures #6). The project is not located near any public or private airstrip. (Project Environmental Impact Analysis Initial Study – Clifford Nguyen, Fremont City Planner I)
Air Quality Effects of Ambient Air Quality on Project and Contribution to Community Pollution Levels	1	Project is in an attainment area or conforms to the EPA-approved State Implementation Plan (SIP) for all components, per contact with Air Quality Management District (Contact: Joe Steinberger, Senior Planner, BAAQMD, jsteinberger@baaqmd.gov)
Environmental Design Visual Quality - Coherence, Diversity, Compatible Use and Scale	1	Proposed project is an infill project surrounded entirely by single- and multi-family residential uses. The project is consistent with the City's General Plan, particularly the recently certified Housing Element that it allows for the development of a higher density, multifamily affordable housing project on a site that is currently identified as underutilized land. The project is, therefore, not known to be conflict with any land use policy, plan or regulation. (Project Environmental Impact Analysis Initial Study – Clifford Nguyen, Fremont City Planner I; COF General Plan – Transportation Chapter)

Socioeconomic	Code	Source or Documentation
Demographic Character Changes	1	The project site is located in a currently developed site in the Irvington District of Fremont. Project will demolish an existing single-family home and build a multi-family home to serve adults with developmental disabilities. Multi-family developments are located to the south and northeast; single family residences are located to the north, east and west Project will not introduce any barriers which would isolate a particular neighborhood or population group, nor will it destroy or harm any community institution. (Project Environmental Impact Analysis Initial Study – Clifford Nguyen, COF Planner; Field Observation 1/7/04)
Displacement	1	Two-person family (Adult male and 1 17-year old female) currently living on property will be relocated in accordance with Uniform Relocation Act. Funds are available for payment. No identified groups will be affected. (Contact: Nesreen Kawar – HCEB Project Manager (510) 383-1264; Juan Rodriguez – Overland Pacific and Cutler Inc).
Employment and Income Patterns	1	Project will assist in integrating developmentally disabled adults in the community. Clients eligible for these units are also eligible to receive services through the Regional Center for the East Bay, including job training services. Project will also contribute temporary construction jobs. (phone conversation with Nesreen Kawar – HCEB Program Coordinator (510)383-1264)

Community Facilities and Services	Code	Source or Documentation
Educational Facilities	1	Durham Elementary School, located at 40292 Leslie St is located .94 miles from the project site. Horner Jr. High School is .8 miles from the project site. Irvington High School, located at 41800 Blacow Rd, is 1.6 miles from the project site. (www.ci.fremont.ca.us/Community/Schools/)
Commercial Facilities	1	Project is within .4 miles of commercial Corridor on Fremont Boulevard in the Irvington Business District. There are several retail food-related, auto related, grocery and other retail business in the area. (Field Observation – 1/7/04; http://www.focusonfremont.com)
Health Care	1	Washington Hospital, located at 2299 Mowry Ave, Fremont, CA 94538 is located within 2.6 miles of project site. Tri-City Health Center, which serves primarily low-income clients, located at 39500 Liberty Street in Fremont, is within 1.7 miles of project site. (Field Observation – 01/06/04)
Social Services	1	Clients eligible for these units are also eligible to receive services through the Regional Center of the East Bay (phone conversation with Nesreen Kawar – HCEB Program Coordinator (510))
Solid Waste	1	This is an existing single-family property, with solid waste treatment provided by the Union Sanitary District (USD). Project will not be adversely affected by proximity to facilities. The USD treatment plant is located 11.25 miles away at 5072 Benson Road in Union City, CA. (Field Observation – 01/06/04; www.unionsanitary.com)
Waste Water	1	This is an existing single-family property, with waste water treatment provided by the Union Sanitary District (USD). Project will not be adversely affected by proximity to facilities. The USD treatment plant is located 11.25 miles away at 5072 Benson Road in Union City, CA. (Field Observation 01/06/04; www.unionsanitary.com)

Storm Water	4	The proposed project will not create or contribute runoff water that would exceed the capacity of existing or planned storm water drainage systems or provide substantial additional sources of polluted runoff. The project does not have the potential to degrade water quality in the area through erosion and/or siltation during construction, because the applicant will be required to propose and comply with Best Management Practices (BMPs) (see recommended Mitigation Measures #4, #5). Steps will include but not be limited to those detailed on the City of Fremont Development & Environmental Services Department Stormwater/Urban Runoff Requirements handout, which is standard City policy as part of any project approval. BMPs will also be required to minimize the potential to contribute to stormwater pollution post-construction by implementing site-specific requirements (Project Environmental Impact Analysis - Initial Study, Clifford Nguyen - City of Fremont Planner I)
Water Supply	1	The project will not substantially deplete groundwater supplies or interfere substantially with groundwater recharge. There are no sole source aquifers in the City (City of Fremont General Plan, Natural Resources Chapter; US EPA Water Management Division, Region IX; Project Environmental Impact Analysis – Initial Study, Clifford Nguyen- Fremont City Planner I)
Public Safety - Police	1	City of Fremont Police Department, located at 2000 Stevenson Boulevard, is located within 1.95 miles of project site. (Field Observation; www.ci.fremont.ca.us/PublicSafety/ PoliceDepartment)
- Fire	1	Closest City of Fremont Fire station, located at 40700 Chapel Way, is located within .08 miles of the project site (Field observation; www.ci.fremont.ca.us/Fire/FireStations)
- Emergency Medical	1	Washington Hospital, located at 2299 Mowry Ave, Fremont, CA 94538 is located within 2.6 miles of project site. (Field Observation; www.mapquest.com)
Open Space and Recreation - Open Space	1	Lake Elizabeth and Central Park, located at 40000 Paseo Padre Parkway, are located 1.1 miles from the project site. Irvington Community Park is located .8 miles from the Project site (Field Observation; www.ci.fremont.ca.us/Recreation)
- Recreation	1	Lake Elizabeth and Central Park, located at 40000 Paseo Padre Parkway, are located 1.1 miles from the project site. Irvington Community Park is located .8 miles from the Project site (Field Observation; www.ci.fremont.ca.us/Recreation)
- Cultural Facilities	1	Project is within 1.37 miles of the Irvington Library (41825 Greenpark Drive), and 1.7 miles from the Fremont Main Library (2400, Stevenson Blvd). (Field Observation; www.ci.fremont.ca.us/Community/Libraries)
Transportation	1	The small increase in traffic, estimated at 6 trips during the p.m. peak hours, is well below the 100-trip diminimus level, and will not have a significant impact on traffic. (Project EIA – Initial Study, pg. 13, Clifford Nguyen - Fremont City Planner I; ITE Trips Generation Rates Handbook, 7th Edition)

Natural Features		Source or Documentation
Water Resources	1	The project will not substantially deplete groundwater supplies or interfere substantially with groundwater recharge, and will not result in alteration of the course of a stream or river in a manner

		which could potentially result in substantial erosion or siltation on or off site, or result in downstream flooding. There are no sole source aquifers in the City (City of Fremont General Plan, Natural Resources Chapter; US EPA Water Management Division, Region IX; Project Environmental Impact Analysis – Initial Study, Clifford Nguyen- Fremont City Planner I)
Surface Water	4	This project will require Best Management Practices to minimize the potential to contribute to storm water pollution both during and post-construction (see recommended Mitigation Measures #4, #5). Will implement site-specific requirements, such as disconnecting roof drain downspouts to allow roof runoff to drain to a landscaped area prior to entering storm drain system, allowing impervious surface areas to discharge to a landscaped area prior to discharge to a storm drain inlet, stenciling all on site storm drains, "No Dumping, Drains To Bay", incorporating vegetated swale systems or other storm water treatment control within parking areas to treat storm water runoff from parking lot, etc. (Project Environmental Impact Analysis – Initial Study, Clifford Nguyen- Fremont City Planner I)
Unique Natural Features and Agricultural Lands	1	No unique features or agricultural lands on project site (Field observation - 1/7/04)
Vegetation and Wildlife	1	No vegetation or wildlife will be impacted through development of project. Site in urbanized area and previously developed (Field observation – 1/7/04)

Other Factors		Source or Documentation
Flood Insurance	1	Flood Insurance is not required under the NFIP because the project is not located in a SFHA as previously documented.

NOTE: The Responsible Entity must additionally document compliance with 24 CFR §58.6 in the ERR, particularly with the Flood Insurance requirements of the Flood Disaster Protection Act and the Buyer Disclosure requirements of the HUD Airport Runway Clear Zone/Clear Zone regulation at 24 CFR 51 Subpart D.

Summary of Findings and Conclusions

Based on the above information, the proposed project as designed, will not result in a significant impact on the quality of the human environment.

ALTERNATIVES TO THE PROPOSED ACTION

Alternatives and Project Modifications Considered [24 CFR 58.40(e), Ref. 40 CFR 1508.9]

(Identify other reasonable courses of action that were considered and not selected, such as other sites, design modifications, or other uses of the subject site. Describe the benefits and adverse impacts to the human environment of each alternative and the reasons for rejecting it.)

1. Fewer units at a lower density could be developed at this site. This project is not economically feasible at a lower density due to the increased cost per unit to build.

No Action Alternative [24 CFR 58.40(e)]

(Discuss the benefits and adverse impacts to the human environment of not implementing the preferred alternative).

1. One alternative is to not build any addition housing of this type. There is a documented need for affordable housing for developmentally disabled adults in Alameda County and the proposed project will address this need.

2. Another alternative would be to have the potential tenants live in other housing. There is a severe lack of affordable housing for developmentally disabled adults in Alameda County. It is highly doubtful that a developmentally disabled adult would be able to afford a market rate apartment. This project would provide stable affordable housing while tenants receive supportive services needed to become productive members of society.
3. This property could be sold to another private homeowner or developer for other uses. Based on the current housing and rental market, it can be assumed the property would become market rate housing. This action, however, would not meet the need of providing affordable housing in Fremont.

Mitigation Measures Recommended [24 CFR 58.40(d), 40 CFR 1508.20]

(Recommend feasible ways in which the proposal or external factors relating to the proposal should be modified in order to eliminate or minimize adverse environmental impacts.)

Mitigation #1: *Should any human remains or historical or unique archaeological resources be discovered during site development work, the provisions of CEQA Guidelines, Section 15064.5.(e) and (f) will be followed to reduce impacts to a non-significant level.*

Mitigation #2: *The project shall comply with standard dust suppression measures. Dust generated on the project site shall be controlled by watering all exposed areas at least twice daily during excavation, and especially during clearing and grading operations. Additional watering on windy or hot days is required to reduce dust emissions. Cover stockpiles of sand, soil and similar materials with a tarp. Cover trucks hauling dirt or debris to avoid spillage. In areas where construction is delayed for an extended period of time, the ground shall be re-vegetated to minimize the generation of dust. A person shall be designated to oversee the implementation of dust control.*

Mitigation #3: *Prior to development of the site for multi-family use, further site investigation and remediation shall be completed in accord with the Phase II ESA dated June 27, 2003 and recommendations of the Fire Department. Subject to the approval of the City's Development Organization and Fire Department, remediation shall include the following:*

1. *Excavate all petroleum-stained soil areas (soil sample T-2) to approximately 2 feet bgs and resample these excavated areas for TRPH using EPA Methods 5030/8015 (modified) and 418.1. All excavated soil must be placed on asphalt, plastic sheeting and/or into DOT approved roll-off bins for temporary storage. If concentrations of TRPH more than 200 mg/Kg, then additional over-excavation and re-sampling of the affected areas must continue until concentrations less than 200 mg/Kg are attained. Re-sampling the excavated material for CAM 17 metals, total oil and grease (TOG) will be necessary to gain landfill acceptance. All excavated soil must be transported as either a Class II or Class III waste, subject to approval by the City Engineer and City Hazmat Facilities Manager.*
2. *Demolish the residence and other structures according to local regulations, following the KELLCO Inspection Report. Care should be taken not to generate paint flakes and/or debris. If paint debris is left on the property after demolition, then proper disposal of the paint-impacted soil must be performed.*
3. *Once the structures are demolished, excavate and dispose the suspected UST or other structures (i.e., septic tanks, etc.). If the subsurface structure is an UST, then collect one soil sample from beneath UST and analyze the soil sample for TPHg, BTEX, TEPH as diesel and motor oil, VOCs, and LUFT metals using EPA methods 5030/8015 (modified), 8021, 8260 and 6010/700 series. The former UST pit excavations must be backfilled and compacted with approved soil fill to at least 95% relative compaction.*

4. *Once property is graded, re-sample the surficial soil for metals, arsenic, lead and mercury to re-evaluate risk levels.*

Mitigation #4: *Project construction will be required to adhere to appropriate standards for residential and circulation areas with attendant drainage and landscaping, emphasizing storm water Best Management Practices intended to achieve compliance with the goals of the Alameda County Urban Storm Water Runoff Program in conformance with the Federal National Pollutant Discharge Elimination System (NPDES) program established by the Clean Water Act.*

Mitigation #5: *Best Management Practices elements shall be incorporated into the final site design to mitigate potential storm water, drainage, and water quality impacts for the project site.*

Mitigation #6: *Hours of construction shall be limited to 7 a.m. to 6 p.m. Monday through Friday, and 9 a.m. to 6 p.m. Saturday. No construction shall be permitted on Sundays.*

Additional Studies Performed (Attach studies or summaries)

See attached additional studies

1. Phase I Environmental Site Assessment – Project No. 9728.E
2. Phase II Environmental Site Assessment– Project No. 9728.E
3. Environmental Impact Analysis – EIA-PLN2004-00124

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]

1. State Historical Preservation Office Correspondence
2. Northwest Information Center Correspondence
3. (FEMA Flood Insurance Rate Map (FIRM) Community Panel Number 065028 0030 C, dated February 9, 2000).
4. Project Environmental Impact Analysis Initial Study – Clifford Nguyen, Fremont City Planner I
5. City of Fremont General Plan – Various Chapters
6. US EPA Water Management Division, Region IX).
7. Air Quality Management District (Contact: Joe Steinberger, Senior Planner, BAAQMD, jsteinberger@baaqmd.gov)
8. Williamson Act Agricultural Preserve Map, dated March 2002
9. Hazardous Waste and Substances Sites (Cortese) List, dated April 2002: www.epa.gov/superfund/sites/cursites).
10. City of Fremont Fire Department HAZMAT Area Files – Sally Miller
11. Lourdes Chang – City of Fremont Office of Housing Project Manager
12. Field Observation conducted in December 2003 and January 2004.
13. www.mapquest.com for distances to various community resources.
14. www.ci.fremont.ca.us/Community/Schools/
15. www.focusonfremont.com
16. www.ci.fremont.ca.us/PublicSafety/
17. www.ci.fremont.ca.us/Fire/FireStations
18. www.ci.fremont.ca.us/Recreation)
19. www.ci.fremont.ca.us/Community/Libraries
20. ITE Trips Generation Rates Handbook, 7th Edition)
21. www.unionsanitary.com
22. Nesreen Kawar – HCEB Program Coordinator (510) 383-1264
23. Juan Rodriguez – Overland Pacific and Cutler Inc)
24. (General Plan and Zoning Maps dated March 2002 and December 2002, respectively;
25. Hazardous Waste and Substances Sites (Cortese) List, dated April 2002: www.epa.gov/superfund/sites/cursites;
26. Ken Fujimoto, City of Fremont Building & Safety Department, 1/14/04

GUIDE ON ENVIRONMENTAL REVIEW DOCUMENTATION

COMPLIANCE DOCUMENTATION

The environmental review must contain written evidence of compliance with the federal laws and authorities listed in 24 CFR 58.5, 58.6 and with the National Environmental Policy Act, if applicable. Such documentation must be verifiable, contain relevant base data, and support the findings being made. Some customary forms of documentation are:

1. FIELD OBSERVATION. A site visit that does not usually involve any testing or measurements. Field observation is an important method for initial screening of the issues. However, for some environmental compliance issues it may be inadequate for final evaluation. The written record for field observation should include date of the site visit and by whom (name and title).

2. PERSONAL CONTACT. Personal contacts are useful when the individual contacted is an accepted authority on the subject(s) and the interview is documented. Supporting documentation should include the name and title of the person contacted and the date of the conversation.

3. PRINTED MATERIALS. These are useful sources of detailed information materials such as comprehensive land use plans, maps, statistical surveys, and studies. Information must be current, i.e. not so old that changing conditions make them irrelevant, and must represent accepted methodologies. Citations for the material should include enough information so that an outside reviewer can locate the specific reference.

4. REVIEWER'S EXPERIENCE. The professional judgment of the person making the review can be useful provided their expertise is relevant. The reviewer may have a previous knowledge from familiarity with the area, or may have professional background to make judgments about a specific factor. Provide information of the person's qualification in addition to name and position.

5. SPECIAL STUDY. This is a study conducted for an individual factor, and should be performed by a qualified person using accepted methodologies. Some tests are relatively simple to perform but others may require elaborate equipment or personnel with additional expertise. The reviewer is responsible for obtaining assistance from others in order to have the appropriate tests or studies conducted. A copy of the study must be appended in the environmental review record or referenced.

6. CONSULTATION WITH OVERSIGHT AGENCIES. Some regulations require specific consultation procedures to be completed with oversight agencies, such as for historic preservation, or endangered species when major construction activities are to occur. There must be evidence in the record that these procedures were completed.

GUIDANCE ON SCREENING FOR STATUTORY COMPLIANCE: LAWS AND AUTHORITIES LISTED AT 24 CFR 58.5

These instructions are a brief description of the essential findings needed to establish a record of compliance. These instructions are not intended to replace the applicable regulations. Applicable regulations take precedence over these brief instructions. These instructions merely outline whether or not the project requires formal consultation, permits or agreements, or will have an effect on the resources protected by the relevant Federal law or authority. Responsible entities must officially record their findings for each of the federal laws and authorities in the Environmental Review Record (ERR), and support their findings with relevant base data and verifiable source documentation.

	COMPLIANCE STEPS NOT INVOKED	COMPLIANCE STEPS REQUIRED
Historic Properties	The RE and SHPO agree that there are No Historic Properties Adversely Affected per 36 CFR 800.4.	The RE and SHPO agree historic properties will be adversely affected. Assess and resolve adverse effects according to §800.5 et seq.
Floodplain Management	The project does not involve property acquisition, land management, construction or improvement within a 100 year floodplain (Zones A or V) identified by FEMA maps, **OR** does not involve a "critical action" (e.g., emergency facility, facility for mobility impaired persons, etc.) within a 500 year floodplain (Zone B). If these maps have not been published, the same finding is necessary and is to be based on data from the City/County Engineer or local Flood Control Agency.	Complete and implement the 8-step decision making process identified in 24 CFR 55. (Projects may be approved within the floodplain only if the responsible entity documents there is no practicable alternative.)
Wetlands Protection	The project does not involve new construction within or adjacent to a wetland identified by or delineated on maps issued by the U.S. Department of Interior, Fish and Wildlife Service.	Complete and implement the 8-step decision making process identified in 24 CFR 55. (Projects may be approved only if there is no practicable alternative outside the wetland area. However, such activities require a Section 404 permit from the U.S. Corps of Engineers).
Coastal Zone Management	The project does not involve the placement, erection or removal of materials, nor increase the intensity of use in the Coastal Zone.	Secure concurrence from the Coastal Zone Commission or delegated planning commission with your determination of consistency with the applicable Coastal Zone Plan.
Sole Source Aquifers (Safe Drinking Water Act)	The project is not located within an area designated by EPA as being supported by a sole source aquifer, **OR** the project need not be referred to EPA for evaluation according to the HUD-EPA (Region IX) Sole Source Aquifer Memorandum of Understanding of 1990.	Consult with the Water Management Division of EPA for the implementation of of project mitigation measures to avoid contaminating the aquifer, and retain documentation in the ERR, OR reject the proposal.
Endangered Species	The project is not likely to affect Federally-listed or proposed threatened and endangered species (i.e., plants, animals, fish, or invertebrates), nor designated or proposed critical habitat. This finding is to be based on contact made with the U.S. Fish and Wildlife Service, or with a State Department of Fish and Game, or special study completed by a professional biologist and/or botanist.	Initiate and complete consultation with the U.S. Fish and Wildlife Service, in accordance with 50 CFR Part 402.
Wild and Scenic Rivers	The project is not located within one mile of a listed Wild and Scenic River, **OR** the project will not have an effect on the natural, free flowing or scenic qualities of a river in the National Wild and Scenic Rivers system.	Consult with the U.S. Department of Interior, National Park Service for resolution and mitigation assistance, OR reject the proposal.
Air Quality	The project is located within an "attainment" area, **OR** if within a "non-attainment" area, the project conforms with the EPA-approved State Implementation Plan (SIP), per contact with the State Air Quality Management District or Board.	Negotiate suitable mitigation measures with the Air Quality Management District or Board.
Farmland Protection	The project site does not include prime or unique farmland, **OR** other farmland of statewide or local importance as identified by the U.S. Department of Agriculture, Natural Resources Conservation Service (formerly the Soil Conservation Service), **OR** the project site includes prime farmland, but is located in an area committed to urban uses.	Request evaluation of land type from NRCS using Form AD 1006, and consider the resultant rating in the project decision, as well as potential mitigation measures (including measures to protect adverse effect on adjacent farmlands), OR reject.
Noise Abatement and Control	The project does not involve development of noise sensitive uses, **OR** the project is not within line-of-sight of an arterial roadway or railroad, **OR** ambient noise level is 65 LDN (or CNEL) or less, based upon the HUD Noise Assessment Guidelines (NAG) study for calculating noise levels.	Apply the noise standard to the project approval decision and implement noise attenuation measures, as applicable, (NAG page 39-40) or reject the proposal.

Explosive or Flammable Operations	The project is located at an Acceptable Separation Distance (ASD) from any above-ground explosive or flammable fuels or chemicals containers according to "Siting of HUD-Assisted Projects Near Hazardous Facilities" (Appendix F, pp. 51-52), **OR** the project will expose neither people nor buildings to such hazards.	Mitigate the hazard (per 24 CFR 51.205) with the construction of a barrier of adequate size and strength to protect the project from the explosive or flammable hazard OR reject the proposal.
Toxic Chemicals and	The project does not involve new development for habitation; **OR** the project involves new development for habitation, but is not located within one mile of an NPL ("Superfund") site, within ¼ mile of a CERCLIS site, nor adjacent to any other known or suspected sites contaminated with toxic chemicals or radioactive materials, unless a Federal, State, or local authoritative source determines it does not pose a health hazard.	Responsible entities are advised not to use funds for activities supporting new development for habitation when a project site is affected by toxic chemicals or radioactive materials. Mitigate the hazard until it poses no threat to health and safety, OR reject the proposal.
Airport Clear Zones and Accident Potential Zones	The project is not within an FAA-designated civilian airport Runway Clear Zone (RCZ), or within a military airfield Clear Zone (CZ) or Accident Potential Zone (APZ), based upon information from the airport or military airfield administrator identifying the boundaries of such zones; **OR** the project involves only minor rehabilitation, **OR** the project involves only the sale or purchase of an existing property in a RCZ or CZ (**NOTE:** The responsible entity shall notify buyer of this fact and obtain buyer's signature acknowledging receipt of this information (24 CFR 58.6(c).	It is HUD policy not to provide any development assistance, subsidy or insurance in RCZs or CZs unless the project will not be frequently used or occupied by people, and the airport operator provides written assurances that there are no plans to purchase the project site.
Environmental Justice	The project site is suitable for its proposed use and the project won't be adversely affected by existing environmental conditions.	Site suitability is a concern; **OR** the project is adversely affected by the environment with respect to low income or minority populations. Avoid such impacts or mitigate them to the extent practicable, OR reject the proposal .

PBR HAWAII & ASSOCIATES, INC.

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August 26, 2015

Nelson H. Koyanagi, Jr., Director
Department of Budget and Fiscal Services
City and County of Honolulu
530 South King Street, Room 208
Honolulu, HI 96813

SUBJECT: Draft Environmental Assessment for Consolidated Kalihi-Palama Health Center (KPHC) at Kalihi-Palama, City and County of Honolulu, Island of O'ahu TMK 1-7-031:052

Dear Mr. Koyanagi:

We were provided a memorandum from your Department dated September 24, 2014 regarding the subject project. We are very appreciative of meeting with your staff, HUD and DCS on August 13, 2015. As a result, the Environmental Assessment we will be finalizing will only address compliance with HRS Chapter 343, and not NEPA. As the planning consultant for the Kalihi-Palama Health Center, we are providing responses to DBFS' comments as if the comments were in regards to HRS Chapter 343, and not NEPA, even though your agency's comments were intended to ensure HUD compliance. Please be assured that a separate HUD EA form will be prepared for Phase 2 of this project. This letter supersedes our previous response dated February 13, 2015.

HISTORIC PRESERVATION

Comment:

"The response from the SHPD noted that the site is surrounded by a significant amount of architectural historic properties including Mayor Wright Housing, Kaumakapili Church and the New Palama Theatre. It is also noted that archaeological studies in the area have documented human burials within 500-600 m of the subject property.

The letter from SHPD also noted that it had insufficient information for making a determination that no archaeological historic properties will be affected by the proposed project, which will involve subsurface excavation for utilities. The SHPD requested more information in order to assess potential effects on historic properties."

Response: As noted on pages 20 and 21 of the Draft EA:

"In response to SHPD's letter, the Kalihi-Palama Health Center contracted an archaeological investigation (including subsurface testing). The combination of a pedestrian survey and a total of four mechanically excavated trenches within the project area boundaries did not reveal the presence of cultural or historic sites on the ground surface or within subsurface contexts. All four trenches revealed the presence of fill matrices atop alluvial sediment atop coral reef substrate. Isolated pieces of modern debris (loose, broken bricks and ceramic fragments) were observed in the fill material. Although the archaeological investigation through pedestrian survey and mechanical excavation of the project area did not reveal archaeological sites or deposits, because of the proximity to previously discovered human burials, archaeological monitoring is recommended for future ground disturbance in the project area. The Archaeological

Assessment (Appendix B) was received by SHPD on May 8, 2014 for its review and approval.

The Consolidated KPHC will not adversely affect historic resources as the site has long been extensively modified."

Comment:

"A letter was also sent to the Office of Hawaiian Affairs (OHA) with a recommendation that the following individuals be contacted:

Kalihi Palama Civic Club, Kaumakapili Church, Clyde Namu'o, Ladd Heleloa, Dexter Soares, Cedric Duarte, Gary Kai, Denise Santos, Linda Chock and Pamai Tenn

The consultant noted that the Kahu Richard Kamanu (Kaumakapili Church) was contacted and they, "…tried their very best to contact other individuals and organizations OHA has suggested but unfortunately we were not able to receive any responses." Although a summary of the response received from Kahu Kamanu was included by the consultant, his response was not documented. The attempts made to contact the individuals and organizations suggested by OHA must also be documented."

Response: As noted on page 59 of the Draft EA:

"During the pre-assessment consultation process, the State Office of Hawaiian Affairs identified a number cultural practitioners and/or kupuna who might be able to provide information on cultural impacts that could be interviewed. While several attempts were made to interview each individual, we were successful in contacting Richard Kamanu, Kahu of Kaumakapili Church.

According to Richard Kamanu, Kahu of Kaumakapili Church, the ethnic make-up of the community has changed over the years. In the 1980's, the Kapālama community consisted mainly of Hawaiian, Sāmoan, Filipino and Chinese. Since then, the number of Sāmoan community members dropped as more residents from Micronesia began to populate the area. He also mentioned that today more immigrants from mainland China are moving into the Kapālama area. Many Hawaiian families who used to reside in the Kalihi-Palama area have moved to other areas within Honolulu, and to rural areas of O'ahu. Kahu Richard concurs that it is unlikely that any Hawaiian cultural activities will be impacted by this project."

It should also be noted that by their letter dated September 22, 2014, OHA did not comment on our process to contact the individuals and organizations suggested by OHA in their letter dated March 20, 2014. The authors of both letters from OHA was the same individual.

Comment:

"Please see the attached CPD-12-006 Notice—Process for Tribal Consultation in Projects That Are Reviewed Under 24 CFR Part 58. Section 106 requires consultation with federally-recognized tribes when a project may affect historic property of religious and cultural significance to that tribe."

Response:

We understand that OHA is regarded by federal agencies as a representative of "Native Hawaiian Organizations." The letters we received from OHA are evidence of compliance.

ENDANGERED SPECIES ACT

Comment:

"The Endangered Species Act requires consultation with the U.S. Fish and Wildlife Service even when the

project is outside of a critical habitat area. A large project that is outside of any critical habitat could still jeopardize or adversely affect an endangered or threatened species. A sample letter sent to the U.S. Fish and Wildlife Service is attached and must be sent to ensure compliance."

Response:

Attached please find a copy of a letter to the U.S. Fish and Wildlife Service dated February 3, 2014, nearly 180 days before the date of the Draft EA. To date, we have not received a response from the U.S. Fish and Wildlife Service.

NOISE ABATEMENT AND CONTROL

Comment:

"Pursuant to HUD guidelines, noise must be calculated 10 years into the future. The proposed redevelopment of the Mayor Wright Housing project and the proximity of the Honolulu Area Rapid Transit system if within 3,000 feet of the project site must be considered and a noise analysis is conducted. If the future noise exposure is above 65 DNL, the implementation of noise attenuation design and features must be documented (See Figure 19 in the HUD Noise Guidebook https://www.hudexchange.info/environmental-review/noise-abatement-and-control or the StraCAT assessment tool at http://portal.hud.gov/hudportal/HUD?src= program_offices/comm_planning/environment/stracat)."

Response:

Per your request, a noise analysis has been conducted. According to the results of the recommended HUD DNL calculator(http://portal.hud.gov/hudportal/HUD?src=/program_offices/comm_planning/environment/dnlcalculator tool) the project site, including the future exposure to rail, will be exposed to a DNL of 64.1782 decibels. Mitigation measures are required for sites with DNLs in excess of 65 decibels. With a DNL of 64.1782 decibels (per StraCAT), the site does not require any additional mitigation measures. The results of the noise calculator have been included as an attachment to this letter.

HAZARDS AND NUISANCES INCLUDING SITE SAFETY

Comment:

"The City's Department of Transportation Services (DTS) stated that the DEA should include a traffic impact assessment report (TIAR). The TIAR should discuss traffic impacts on the surrounding City roadways as a result of the project including short term impacts during construction. Although the consultant responded that it did not believe that a traffic assessment report was required, DTS was insistent that a TIAR be conducted to help determine future improvements and cumulative impact of the project on traffic flows and circulation in the area.

The DTS and Honolulu Police Department also noted safety concerns due to the heavy vehicular and pedestrian traffic in the area.

The response from the consultant did not adequately address the project's short term or long term pedestrian/vehicular traffic impacts on the surrounding roadways. The concerns raised by DTS should be addressed with verifiable base data and include mitigating measures that will be taken to address the issues identified. These mitigating measures must document that impacts will be reduced to a level that is less than significant."

Response:

Since a project of this size does not normally warrant a TIAR, DTS was contacted to confirm the need for a TIAR.

DTS concurred by letter dated October 20, 2014 (enclosed) with our "…proposal to do a transportation assessment in lieu of a formal TIAR." The Transportation Assessment (TA) was submitted to DTS for review and comments on December 5, 2014. DTS provided comments on the TA in a letter dated January 7, 2015, and the TA was revised accordingly and will be added as an appendix to the Final EA.

EROSION AND SOIL SUITABILITY

Comment:

"The project involves demolition, excavation, foundation work, etc. for the construction of a new health care facility. The DEA did not include a soils report regarding the suitability of the existing soil conditions with regards to the planned construction activity."

Response:

Per your comments, a soils report will be added as an appendix to the Final EA.

CONSULTATIONS

Comment:

"The DEA stated that the following organizations were included in the consultation process. However, letters sent to the organizations listed below were not included in the DEA and must be documented:

- *Department of Business and Economic Development & Tourism (DBEDT) (State of Hawaii)*
- *Department of Hawaiian Homelands (State of Hawaii)*
- *Department of Land and Natural Resources Parks Division (State of Hawaii)*
- *UH Environmental Center (State of Hawaii)*
- *U.S. Fish and Wildlife Service*
- *Department of Planning and Permitting (City and County of Honolulu)*
- *Senator Suzanne Chun Oakland*
- *Representative Karl Roads*
- *Councilmember Joey Manahan"*

Response:

Per your comments, copies of the letters sent out during the consultation process (including the organizations listed in your letter) will be added as an appendix to the Final EA.

COASTAL ZONE MANAGEMENT

Comment:

"The comment from the State Office of Planning noted that, "The entire state is defined to be within the Coastal Zone Management Area (see Hawaii revised statutes HRS §205-A-1 (definition of "coastal zone management area"). The DEA must include a discussion of the proposed project's ability to meet the objectives and policies set forth in HRS §205-A-2."

Response:

A discussion of the proposed project's ability to meet the objectives and policies set forth in HRS Section 205-A-2 was provided on pages 19 through 24 of the Draft EA.

Comment:

"The Department of Health, Environmental Planning Office (EPO) also voiced concerns that all appropriate branches, offices and individuals within the State Department of Health were not afforded the opportunity to comment. The letter stated that the 'EPO strongly recommends that you consult with other branches and offices within the Department of Health."

Response:

Consultation letters were sent directly to the Director of the Department of Health (DOH) and to Sina Pruder, Chief of the DOH Wastewater Branch. It is assumed that the DOH Environmental Planning Office responded to a request from the Director of DOH as the Director's Office would distribute all consultation requests to its various branches. During the consultation process, the Chief of the DOH Wastewater Branch wrote:

"We appreciate the opportunity to review the above subject project. We have no comments to offer at this time as the project will be connected to the City and County of Honolulu's sewer system."

Comment:

"During construction and once the center is operational there is a possibility that nonpoint pollution may be generated and may have an impact on coastal waters."

Response: As noted on page 65 of the Draft EA:

"Due to the location of the site, the proposed KPHC improvements are not expected to either affect or be affected by natural flood hazards. The improvements will be designed to comply with all federal, state, and county laws regarding drainage, erosion control, and non-point source pollution. During the construction phases, any possible impact to water quality will be minimized and mitigated by the implementation of appropriate erosion control requirements. Long term strategies in accordance with Hawaii Watershed Guidance, Section 5.3B include maintaining post-development peak runoff rate and average volume at levels that are similar to predevelopment levels; limit increases of impervious areas; and limiting disturbance of natural drainage features and vegetation. The site does not currently have vegetation, and consists of impervious surfaces made up of a parking lot and building structure. As such, soil run off and erosion will likely be minimal, and the runoff is not likely to increase."

SOLID WASTE, WASTEWATER, STORMWATER

Comment:

"The Department of Environmental Services (City and County of Honolulu) was not included in the consultation process regarding the disposal of solid waste, wastewater and storm water runoff."

Response: As noted on pages 75 and 76 of the Draft EA, DES was included in the consultation process.

Comment: *"The DEA does not address nonpoint pollution during and after construction."*

Response: As noted on page 65 of the Draft EA:

"Due to the location of the site, the proposed KPHC improvements are not expected to either affect or be affected by natural flood hazards. The improvements will be designed to comply with all federal, state, and county laws regarding drainage, erosion control, and non-point source pollution. During the construction phases, any possible impact to water quality will be minimized and mitigated by the implementation of appropriate erosion control requirements. Long term strategies in accordance with Hawaii Watershed Guidance, Section 5.3B include maintaining post-development peak runoff rate and average volume at

levels that are similar to predevelopment levels; limit increases of impervious areas; and limiting disturbance of natural drainage features and vegetation. The site does not currently have vegetation, and consists of impervious surfaces made up of a parking lot and building structure. As such, soil run off and erosion will likely be minimal, and the runoff is not likely to increase."

Comment:

"The impact of the proposed project on current area conditions was not addressed and source documentation was not provided."

Response: The impact of the proposed project on current area conditions (solid waste, wastewater, storm water) were addressed in the following sections of the Draft EA:

- Solid Waste – Sections 4.1.19 and 4.2.11.5 of the Draft EA
- Wastewater – Sections 4.1.19 and 4.2.11.2 of the Draft EA
- Storm water – Sections 4.1.17, 4.2.3.3 and 4.2.11.3 of the Draft EA

TOXICS

Comment:

"The inspection report conducted by EnviroQuest noted that asbestos, pesticides, lead, arsenic and other toxics are present at the project site. The consultant noted in its response to the State Department of Health that, "We do not expect hazardous substances, pollutants, or contaminants to be present at the project site. However, if any of these are found at the project site, Hazard Evaluation and Emergency Response Office (HEER) will be contacted to determine the appropriate actions to comply with the relevant environmental laws." The DEA does not adequately address mitigating measures that will be taken to address the toxics present on the site. The soils study identified several toxics at the site and a follow up correspondence with the HEER was not provided.

The sources of contamination on the property and a determination of whether conditions or planned activity at the site are likely to cause adverse effects on the environment need to be addressed. Consultation with the appropriate regulatory agency and remediating measures should be provided."

Response: As noted on page 37 of the Draft EA:

"While asbestos, lead-based paint, and arsenic were found in the building, the materials were intact and will be carefully removed (to reduce exposure to wind) and disposed of. Although chlordane and heptachlor exceeded the EAL, the soil can be managed in place. However, any unused soil from future excavation activities must be tested to determine disposal requirements. In addition, prior to any work, the Contractor disturbing the soil must notify his employees and subcontractors of the presence of pesticide and lead and must also ensure that all work is conducted in accordance with OSHA and HIOSH requirements."

Additionally Ralph S. Inouye, Co., Ltd., in consultation with EnviroQuest, Inc., tested the excavated soil on the site and followed the HDOH HEER guidelines (flow-chart enclosed with this document). Testing results showed less than regulatory levels and according to the HDOH HEER guidelines, no further action is required as far as reporting back to HDOH.

COMMUNITY FACILITES AND SERVICES

Comment:

"The development factors such as public safety, police, fire, healthcare facilities, waste water, water supply, solid waste, etc. did not contain affirmative documentation from the respective agencies attesting

to the fact that they have the capacity to serve the project or that the project will require additional workers that will be hired."

Response: Per your comments, please find the following responses

Police – In their Pre-Consultation comments dated February 19, 2014, the Honolulu Police Department (HPD) wrote: *"The project should have no significant impact on the facilities or services of the HPD once it is completed."*

Fire – We would categorize the comments received from the Fire Department as "typical." In recent years, all comments from the Fire Department "defer" to Building Permit review.

Healthcare Facilities – The proposed project is a health care facility. Additionally, as noted in Section 4.1.21 of the Draft EA:

"Emergency health care providers are located within a reasonable proximity to the Kalihi-Palama Health Center. The closest hospitals with emergency health care services are the St. Francis Hospital and Kuakini Medical Center. The approximate response time from these emergency health care providers to the Kalihi-Palama Health Center is approximately 3-5 minutes by ambulance service…"

Additionally, emergency medical care is available from the Kalihi Fire Station located near the intersection of Kalihi Street and North King Street. The approximate response time from Kalihi Fire Station to the Kalihi-Palama Health Center is three minutes.

Wastewater – As noted on pages 75 and 76 of the Draft EA, the Department of Environmental Services was one of the agencies included in the Pre-Consultation process, but did not reply. It should be noted that DES did not provide written comments in response to the Draft EA, either.

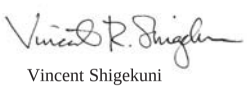
Water Supply - During the Pre-Consultation process, the City and County of Honolulu Board of Water Supply wrote that based upon current data, the "existing water system is adequate to accommodate the proposed health center."

Solid Waste - As noted on pages 75 and 76 of the Draft EA, the Department of Environmental Services was one of the agencies included in the Pre-Consultation process, but did not reply. It should be noted that DES did not provide written comments in response to the Draft EA, either.

We appreciate your participation in the environmental review process. If you have any questions regarding this project, please do not hesitate to contact me at 521-5631.

Sincerely,

PBR HAWAII



Vincent Shigekuni
Vice-President

Enclosure: Enclosure 1: Letter to U.S. Fish and Wildlife Service dated February 3, 2014
Enclosure 2: DNL StraCAT Calculator Results
Enclosure 3: Letter from the Department of Transportation Services dated October 20, 2014
Enclosure 4: HDOB HEER Guidelines/Flowchart

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Enclosure 1

February 3, 2014

Dr. Loyal Mehrhoff, Field Supervisor
300 Ala Moana Boulevard
Room 3-122, Box 50088
Honolulu, HI 96850

SUBJECT: PRE-CONSULTATION FOR AN ENVIRONMENTAL ASSESSMENT – KALIHI-PALAMA HEALTH CENTER – TMK 1-7-031:052

Dear Dr. Loyal Mehrhoff, Field Supervisor,

PBR Hawaii has been contracted by the Kalihi-Palama Health Center to prepare an Environmental Assessment for a proposed new health center in the Honolulu Judicial District, O'ahu. This EA will focus on the second phase of the project which includes new construction over the existing parking lot.

The project site is shown on the attached figure and is comprised of TMK 1-7-031:052. The site measures approximately 12,409 square feet in area. The project site is bounded on three sides by existing streets: North King Street, Pua Lane and Kanoa Street. The fourth side is bounded by St. Elizabeth's Episcopal Church.

The objective of this project is to redevelop a property that is occupied by a commercial building and a parking lot, by adding a new building over the parking lot and renovating the existing commercial building in a subsequent phase.

When the project is fully completed, the combined buildings will include:

- Common spaces
- Women, Children, and Infant Facilities
- A Pharmacy
- Pediatrics Facilities
- Family Practice Facilities, and
- Women's Health Facilities

With this letter, we seek your input on the project and comments as to whether the proposed project may have an impact on any of your existing or proposed projects, plans, policies, or programs, and if there are any specific issues that should be addressed in the Environmental Assessment. Please send us any comments you may have **by February 17, 2014**.

Please do not hesitate to contact me at (808) 521-5631 or vshigekuni@pbrhawaii if you have any questions or require any additional information.

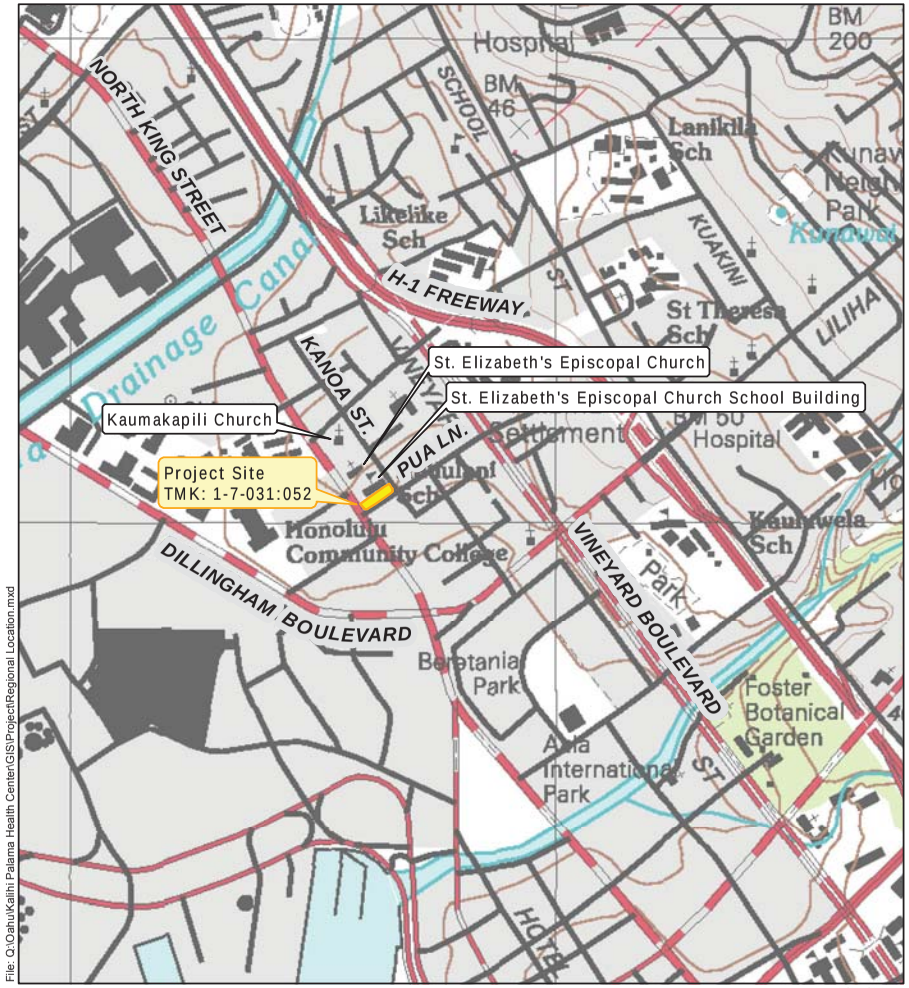
Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

Encl. Regional Location Map

O:\Job30\3064.01 Kalihi Palama Health Cnt EA\EA\Pre-Consultation\Preconsultation Letter for the Kalihi Palama Health Center EA-01.doc



File: Q:\Oahu\Kalihi Palama Health Center\GIS\Project\Regional Location.mxd

Date: 2/21/2014

LEGEND

Project Site

Figure 1
Regional Location Map

KPHC - Health and Healing Home

KALIHI - PALAMA HEALTH CENTER
ISLAND OF O'AHU

NORTH

LINEAR SCALE (FEET)
0 400 800

PBR HAWAII & ASSOCIATES, INC.

Source: U.S. Geological Survey
Disclaimer: This graphic has been prepared for general planning purposes only.

Enclosure 2

HUD > Program Offices > Community Planning and Development > Environment > DNL Calculator

Site DNL Calculator

For more information on using the noise calculator, to access the user guidebook, or send comments, please visit the following page:
Day/Night Noise Level Electronic Assessment Tool

Guidelines:

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

Site ID: Kalihi Palama Health
Record Date: 02/11/2015
User's Name: PBR Hawaii

Road # 1 Name: Pua Lane

Road #1

Vehicle Type	Cars ☑	Medium Trucks ☑	Heavy Trucks ☑
Effective Distance	52	52	52
Distance to Stop Sign	190	190	190
Average Speed	20	20	20
Average Daily Trips (ADT)	4423	59	6
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	51.503	42.7544	54.815

Calculate Road #1 DNL 56.6789 Reset

Road # 2 Name: North King Street

Road #2

Vehicle Type	Cars ☑	Medium Trucks ☑	Heavy Trucks ☑
Effective Distance	195	195	195
Distance to Stop Sign	200	200	200
Average Speed	25	25	25

Average Daily Trips (ADT)	19876	182	212
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	51.5228	41.1403	61.687

Calculate Road #2 DNL 62.1087 Reset

Railroad #1 Track Identifier:

Rail # 1

Train Type	**Electric** ☑	**Diesel** ☐
Effective Distance	860	
Average Train Speed	30	
Engines per Train	1	
Railway cars per Train	3	
Average Train Operations (ATO)	488	
Night Fraction of ATO	8	
Railway whistles or horns?	Yes: ☐ No: ☑	Yes: ☐ No: ☐
Bolted Tracks?	Yes: ☐ No: ☑	Yes: ☐ No: ☐
Train DNL	46.7644	

Calculate Rail #1 DNL 46.7644 Reset

Add Road Source Add Rail Source

Airport Noise Level 57

Loud Impulse Sounds? ○ Yes ◉ No

Combined DNL for all Road and Rail sources 63.2227

Combined DNL including Airport 64.1782

Site DNL with Loud Impulse Sound

Calculate

Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

- **No Action Alternative**
  Cancel the project at this location **DNL Calculator**
- **Other Reasonable Alternatives**
  Choose an alternate site **DNL Calculator**
- **Mitigation**
  - **Contact your Field or Regional Enviornmental Officer - Environmental Contacts**
  - **Increase mitigation in the building walls** (only effective if no outdoor, noise sensitive areas).
  - **Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses DNL Calculator**
  - **Incorporate natural or man-made barriers.** See **The Noise Guidebook**
  - **Construct noise barrier.** See the **Barrier Performance Module**

Refresh

Enclosure 3

DEPARTMENT OF TRANSPORTATION SERVICES
CITY AND COUNTY OF HONOLULU
650 SOUTH KING STREET, 3RD FLOOR
HONOLULU, HAWAII 96813
Phone: (808) 768-8305 • Fax: (808) 768-4730 • Internet: www.honolulu.gov

KIRK CALDWELL
MAYOR

MICHAEL D. FORMBY
DIRECTOR

MARK N. GARRITY, AICP
DEPUTY DIRECTOR

October 20, 2014

Mr. Vincent Shigekuni
Vice-President
PBR HAWAII & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813-3484

Dear Mr. Shigekuni:

Thank you for your letter dated October 15, 2014 regarding the Draft Environmental Assessment for Consolidated Kalihi-Palama Health Center (KPHC) at Kalihi-Palama, City and County of Honolulu, Island of Oahu TMK 1-7-031:052.

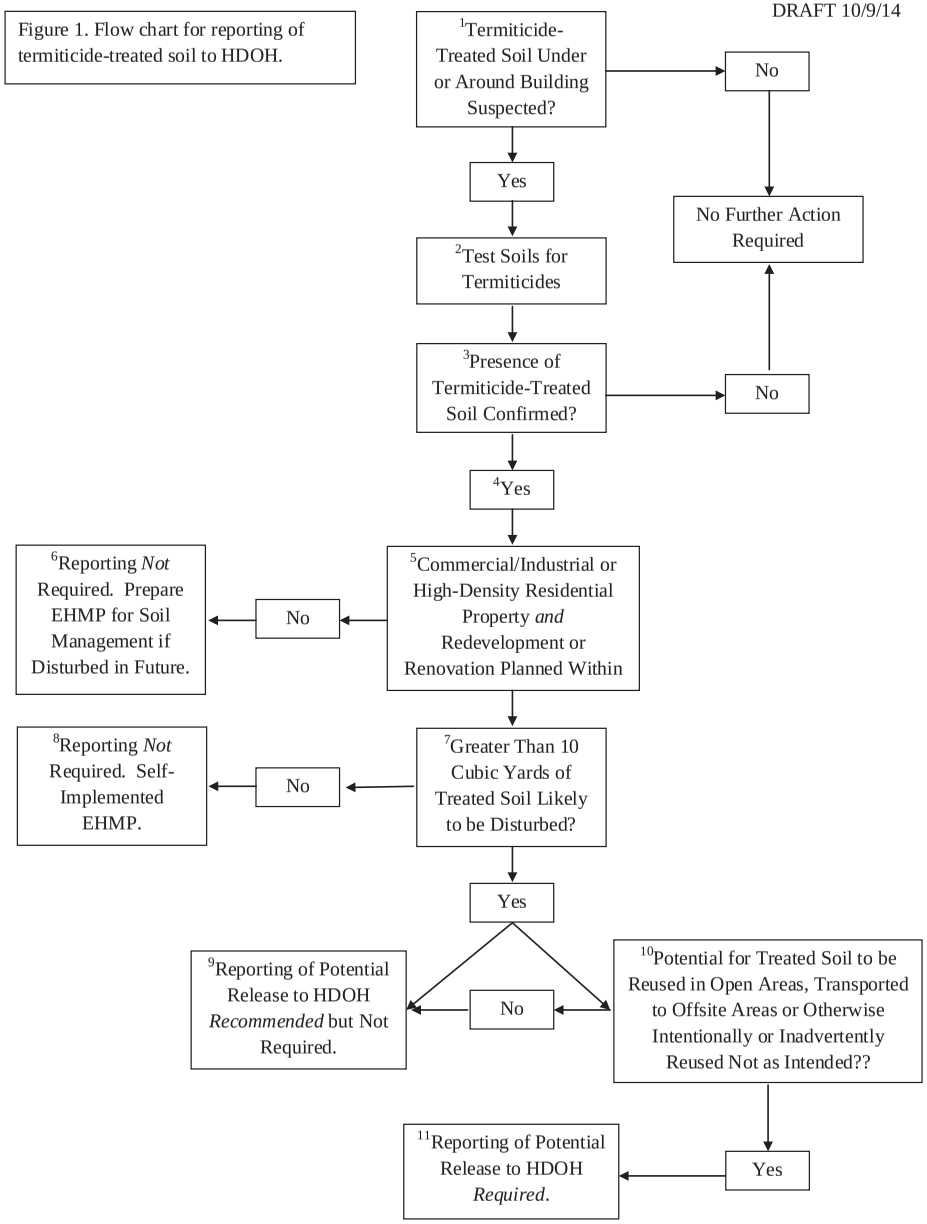
I have reviewed your request, including the input of Fehr & Peers, and hereby concur with your proposal to do a transportation assessment in lieu of a formal TIAR.

Very truly yours,

Michael D. Formby
Director

Enclosure 4
DRAFT 10/9/14

Figure 1. Flow chart for reporting of termiticide-treated soil to HDOH.



Notes.

1. Refer to fact sheet text. The most commonly applied termiticides include Technical Chlordane and Aldrin (including aldrin breakdown product dieldrin).

2. Refer to HEER office Technical Guidance Manual. Multi-increment soil samples recommended around building perimeter. Discrete samples collected from subslab cores should be processed for testing at laboratory in same manner as multi-increment soil samples.

3. Mean concentration of termiticides in treated soil confirmed or suspected to exceed HDOH Tier 1 action level.

4. Notify potential buyers of the presence of termiticide-treated soil and the need for management if disturbed in the future.

5. Reporting primarily recommended for presence of termiticide-treated soils at commercial/industrial buildings, high-density residential buildings, or redevelopment of otherwise large blocks of residential housing.

6. Reporting not required/recommended if redevelopment of property or other activities that could disturb soil not planned within a one-year time frame and treated soil continues to be used as intended. An EHMP should be prepared that notes the location of treated soil, type and approximate concentrations of termiticides present and general guidelines for management of soil if disturbed in the future.

7. Volume of soil spread over a hypothetical, 1,000ft2 exposure area to a depth of three inches due to inadvertent reuse of treated soil in an open area.

8. Disturbance of small volumes of soil do not need to be reported but should be managed in accordance with the site EHMP. Fines and penalties may apply to improper reuse or disposal of termiticide-treated soil in a manner not as intended.

9. Reporting of confirmed presence of >10cys of termiticide-treated soil under or around a building not legally required while soil continues to be used as intended but *strongly recommended* in order to initiate oversight process early in redevelopment process and ensure that soil is properly managed.

10. HDOH is aware or multiple instances where termiticide-treated soil was inadvertently reused in open areas or improperly disposed of. Improper disposal or reuse of termiticide-treated soils may be subject to fines and other penalties.

11. Disturbance or potential disturbance of termiticide-treated soil in a manner that could result in exposure and significant risk to human health and the environment could be considered a release or potential release under HDOH regulations and must be reported.

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU
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KIRK CALDWELL
MAYOR

ROBERT J. KRONING, P.E.
DIRECTOR DESIGNATE

MARK YONAMINE, P.E.
DEPUTY DIRECTOR

October 1, 2014

PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

Attn: Vincent Shigekuni

Dear Mr. Shigekuni:

Subject: Draft Environmental Assessment
Consolidated Kalihi-Palama Health Center
Tax Map Key: 1-7-031:052

The Department of Design and Construction does not have comments to offer on the draft environmental assessment.

Thank you for the opportunity to review and comment. Should there be any questions, please contact me at 768-8480.

Sincerely,

Robert J. Kroning, P.E.
Director Designate

RJK: cf (576639)

cc: City and County of Honolulu, Department of Community Services
Stephen Karel

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August 26, 2015

Mr. Robert J. Kroning, P.E., Director
Department of Design and Construction
City and County of Honolulu
650 South King Street, 11th Floor
Honolulu, Hawai'i 96813

SUBJECT: Draft Environmental Assessment for Consolidated Kalihi-Palama Health Center (KPHC) at Kalihi-Palama, City and County of Honolulu, Island of O'ahu TMK 1-7-031:052

Dear Mr. Kroning:

Thank you for your letter dated October 1, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we thank you for your comments.

We appreciate your participation in the environmental review process and your input that your Department has no comments to offer on the Draft Environmental Assessment. If you have any questions regarding this project, please do not hesitate to contact me at 521-5631.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice-President

DEPARTMENT OF PARKS & RECREATION
CITY AND COUNTY OF HONOLULU
1000 Uluohia Street, Suite 309, Kapolei, Hawaii 96707
Phone: (808) 768-3003 • Fax: (808) 768-3053
Website: www.honolulu.gov

KIRK CALDWELL
MAYOR

MICHELE K. NEKOTA
DIRECTOR

JEANNE C. ISHIKAWA
DEPUTY DIRECTOR

August 22, 2014

Mr. Vincent Shigekuni
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

Dear Mr. Shigekuni:

SUBJECT: Draft Environmental Assessment
Consolidated Kalihi-Palama Health Center Project

Thank you for the opportunity to review and comment on the Draft Environmental Assessment for the proposed Consolidated Kalihi-Palama Health Center Project.

The Department of Parks and Recreation has no comment. As the proposed project will have no impact on any program or facility of the department, you may remove us as a consulted party to the balance of the EIS process.

Should you have any questions, please contact Mr. John Reid, Planner, at 768-3017.

Sincerely,

Michele K. Nekota
Director

MKN:jr
(576713)

cc: Stephen Karel, Department of Community Services

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& ASSOCIATES, INC.

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August 26, 2015

Michele K. Nekota, Director
Department of Parks and Recreation
City and County of Honolulu
1000 Uluohia Street, Suite 309
Kapolei, HI 96707

Attn: Mr. John Reid

SUBJECT: Draft Environmental Assessment for Consolidated Kalihi-Palama Health Center (KPHC) at Kalihi-Palama, City and County of Honolulu, Island of O'ahu TMK 1-7-031:052

Dear Ms. Nekota:

Thank you for your letter dated August 22, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we thank you for your comments.

We appreciate your participation in the environmental review process and your input that your Department has no comments regarding the proposed improvement as the development will have no impact on any program or facility of the Department. As you have requested, we will remove you from the remainder of the EA process. If you have any questions regarding this project, please do not hesitate to contact me at 521-5631.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice-President

DEPARTMENT OF FACILITY MAINTENANCE

CITY AND COUNTY OF HONOLULU

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MAYOR

ROSS S. SASAMURA, P.E.
DIRECTOR AND CHIEF ENGINEER

EDUARDO P. MANGLALLAN
DEPUTY DIRECTOR

IN REPLY REFER TO:
DRM 14-833

September 25, 2014

Mr. Vincent Shigekuni
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

Dear Mr. Shigekuni:

SUBJECT: Draft Environmental Assessment (EA) for the Consolidated Kalihi-Palama Health Center Project, TMK: 1-7-031:052

Thank you for the opportunity to review and to give our input regarding your letter dated August 19, 2014, on the above subject matter.

Our comment is as follows:

Consider replacing the asphaltic concrete sidewalk along the Kanoa Street side of the project with a Standard City Concrete Sidewalk. This will minimize maintenance of the sidewalk area and aesthetically match the concrete sidewalk areas along the Pua Lane and King Street sides of the project.

If you have any questions, please contact Mr. Kyle Oyasato of the Division of Road Maintenance at 768-3697.

Sincerely,

Ross S. Sasamura, P.E.
Director and Chief Engineer

cc: Stephen Karel
Department of Community Services

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August 26, 2015

Ross S. Sasamura, P.E.
Director and Chief Engineer
Department of Facility Maintenance
City and County of Honolulu
1000 Uluohia Street, Suite 215
Kapolei, HI 96707

Attn: Mr. Kyle Oyasato, Division of Road Maintenance

SUBJECT: Draft Environmental Assessment for Consolidated Kalihi-Palama Health Center (KPHC) at Kalihi-Palama, City and County of Honolulu, Island of O'ahu TMK 1-7-031:052

Dear Mr. Sasamura:

Thank you for your letter dated September 25, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we thank you for your comments.

The Final EA will include your Department's comment regarding the replacement of the asphaltic concrete sidewalk along the Kanoa Street side of the project with a Standard City Concrete Sidewalk.

We greatly appreciate your Department' participation in the environmental review process. If you have any questions regarding this project, please do not hesitate to contact me at 521-5631.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice-President

DEPARTMENT OF TRANSPORTATION SERVICES
CITY AND COUNTY OF HONOLULU

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MAYOR

MICHAEL D. FORMBY
DIRECTOR

MARK N. GARRITY, AICP
DEPUTY DIRECTOR

TP8/14-576878R

September 19, 2014

Mr. Vincent Shigekuni
Vice-President
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

Dear Mr. Shigekuni:

SUBJECT: Draft Environmental Assessment Anticipated Finding of No Significant Impact Consolidated Kalihi-Palama Health Center Tax Map Key: 1-7-031:052; Kalihi-Palama, Honolulu, Hawaii

In response to your letter dated August 19, 2014, we reiterate our previous request for a Traffic Impact Assessment Report for the reasons stated in our letter of April 10, 2014, a copy of which is attached.

Should you have any questions, please contact Michael Murphy of my staff at 768-8359.

Very truly yours,

Michael D. Formby
Director

Attachment

cc: Stephen Karel
Department of Community Services

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& ASSOCIATES, INC.

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October 15, 2014

Michael D. Formby, Director
Department of Transportation Services
City and County of Honolulu
650 South King Street, 3rd Floor
Honolulu, HI 96813

SUBJECT: Draft Environmental Assessment for Consolidated Kalihi-Palama Health Center (KPHC) at Kalihi-Palama, City and County of Honolulu, Island of O'ahu TMK 1-7-031:052

Dear Mr. Formby:

Thank you very much for discussing this project with me today. Per your Department's staff's requests, I asked a trusted traffic engineering consultant, Sohrab Rashid from Fehr & Peers, for a fee proposal for a traffic impact analysis report. This is an excerpt from his response.

"A quick review of the documents you sent show that the project (including both phases) will have in the neighborhood of roughly 20,000 square feet of medical office space. A preliminary trip generation estimate using standard ITE rates shows that the site would generate a total of ***48 AM peak hour vehicle trips and 71 PM peak hour vehicle trips****. This of course assumes typical trip rates and does not account for a much higher use of existing transit as described in the Draft EA/AFONSI. With up to 50% of patients using bus transit, these numbers could go down by about 40% because some of the AM peak hour trips would also be by staff who might drive. Either way, the trip generation is relatively low,* ***and in fact in most jurisdictions we work in, we do not do a TIAR for fewer than 100 peak hour trips****."*

While a TIAR does not appear to be warranted, we will contract Fehr & Peers to conduct a Transportation Assessment. At this time, we respectfully request concurrence on our offer.

Additionally, Fehr & Peers promises to complete this report in 3 weeks, at which time we again respectfully request review of the report.

If you have any questions regarding this project, please do not hesitate to contact me at 521-5631.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice-President

DEPARTMENT OF TRANSPORTATION SERVICES
CITY AND COUNTY OF HONOLULU
650 SOUTH KING STREET, 3RD FLOOR
HONOLULU, HAWAII 96813
Phone: (808) 768-8305 • Fax: (808) 768-4730 • Internet: www.honolulu.gov

KIRK CALDWELL
MAYOR

MICHAEL D. FORMBY
DIRECTOR

MARK N. GARRITY, AICP
DEPUTY DIRECTOR

October 20, 2014

Mr. Vincent Shigekuni
Vice-President
PBR HAWAII & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813-3484

Dear Mr. Shigekuni:

Thank you for your letter dated October 15, 2014 regarding the Draft Environmental Assessment for Consolidated Kalihi-Palama Health Center (KPHC) at Kalihi-Palama, City and County of Honolulu, Island of Oahu TMK 1-7-031:052.

I have reviewed your request, including the input of Fehr & Peers, and hereby concur with your proposal to do a transportation assessment in lieu of a formal TIAR.

Very truly yours,

Michael D. Formby
Director

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& ASSOCIATES, INC.

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August 26, 2015

Michael D. Formby, Director
Department of Transportation Services
City and County of Honolulu
650 South King Street, 3rd Floor
Honolulu, HI 96813

SUBJECT: Draft Environmental Assessment for Consolidated Kalihi-Palama Health Center (KPHC) at Kalihi-Palama, City and County of Honolulu, Island of O'ahu TMK 1-7-031:052

Dear Mr. Formby:

Thank you for your letter dated October 20, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we thank you for your comments.

We appreciate your participation in the environmental review process and your Department's review of our request and your concurrence that a Transportation Assessment be completed in lieu of a formal TIAR. The Transportation Assessment has been included as an Appendix in the Final EA.

If you have any questions regarding this project, please do not hesitate to contact me at 521-5631.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice-President

HONOLULU FIRE DEPARTMENT

CITY AND COUNTY OF HONOLULU

636 South Street
Honolulu, Hawaii 96813-5007
Phone: 808-723-7139 Fax: 808-723-7111 Internet: www.honolulu.gov/hfd

KIRK CALDWELL
MAYOR

MANUEL P. NEVES
FIRE CHIEF

LIONEL CAMARA JR.
DEPUTY FIRE CHIEF

September 5, 2014

Mr. Vincent Shigekuni, Vice President
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

Dear Mr. Shigekuni:

Subject: Draft Environmental Assessment
Consolidated Kalihi-Palama Health Center
Tax Map Key: 1-7-031: 052

In response to your letter of August 19, 2014, regarding the above-mentioned subject, the Honolulu Fire Department (HFD) reviewed the material provided and requires that the following be complied with:

1. Fire department access roads shall be provided such that any portion of the facility or any portion of an exterior wall of the first story of the building is located not more than 150 feet from fire department access roads as measured by an approved route around the exterior of the building or facility. (National Fire Protection Association [NFPA] 1, Uniform Fire Code [UFC]™, 2006 Edition, Section 18.2.3.2.2.)

   A fire department access road shall extend to within 50 ft of at least one exterior door that can be opened from the outside and that provides access to the interior of the building. (NFPA 1, UFC™, 2006 Edition, Section 18.2.3.2.1.)

2. A water supply approved by the county, capable of supplying the required fire flow for fire protection, shall be provided to all premises upon which facilities or buildings, or portions thereof, are hereafter constructed, or moved into or within the county. When any portion of the facility or building is in excess of 150 feet from a water supply on a fire apparatus access road, as measured by an approved route around

   the exterior of the facility or building, on-site fire hydrants and mains capable of supplying the required fire flow shall be provided when required by the AHJ [Authority Having Jurisdiction]. (NFPA 1, UFC™, 2006 Edition, Section 18.3.1, as amended.)

3. The unobstructed width and unobstructed vertical clearance of a fire apparatus access road shall meet county requirements. (NFPA 1, UFC™, 2006 Edition, Section 18.2.3.4.1.1, as amended.)

4. Submit civil drawings to the HFD for review and approval.

Should you have questions, please contact Battalion Chief Terry Seelig of our Fire Prevention Bureau at 723-7151 or tseelig@honolulu.gov.

Sincerely,

Keith Yasui

Keith Yasui
Acting Assistant Chief

KY/SY:bh

cc: Stephen Karel, Department of Community Services

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& ASSOCIATES, INC.

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August 26, 2015

Keith Yasui, Acting Assistant Chief
Honolulu Fire Department
City and County of Honolulu
636 South Street
Honolulu, HI 96813-5007

Attn: Battalion Chief Terry Seelig

SUBJECT: Draft Environmental Assessment for Consolidated Kalihi-Palama Health Center (KPHC) at Kalihi-Palama, City and County of Honolulu, Island of O'ahu TMK 1-7-031:052

Dear Acting Assistant Chief Yasui:

Thank you for your letter dated September 5, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we thank you for your comments.

We appreciate your participation in the environmental review process and we provide the following responses to your comments:

1. We appreciate the information provided regarding the requirements for Fire Department access roads and fire flow/fire hydrants. The site is on the corner of North King Street and Pua Lane and there are fire hydrants on that corner, as well as at the Pua Lane/Kanoa Street intersection (the site is also bounded by Kanoa Street).
2. The applicant has been notified by this letter that civil drawings be submitted to HFD for review and approval.

If you have any questions regarding this project, please do not hesitate to contact me at 521-5631.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice-President

POLICE DEPARTMENT

CITY AND COUNTY OF HONOLULU

801 SOUTH BERETANIA STREET · HONOLULU, HAWAII 96813
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MAYOR

LOUIS M. KEALOHA
CHIEF

DAVE M. KAJIHIRO
MARIE A. McCAULEY
DEPUTY CHIEFS

OUR REFERENCE EO-WS

September 5, 2014

Mr. Vincent Shigekuni
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

Dear Mr. Shigekuni:

This is in response to a letter dated August 19, 2014, requesting comments on the Draft Environmental Assessment/Anticipated Finding of No Significant Impact for the Consolidated Kalihi-Palama Health Center project.

The Honolulu Police Department's comments made by Mr. Lester Hite, former Major of District 5 (Kalihi), and noted on page 44 of the assessment remain the same.

To assist in minimizing the impact to vehicular and pedestrian traffic on North King Street, Pua Lane, and Kanoa Street, we recommend that the contractor hire adequate personnel to provide traffic control. Additionally, we recommend that all necessary signs, lights, barricades, cones, and other safety equipment be installed and maintained by the contractor to facilitate the flow of motor vehicle and pedestrian traffic in the area during construction. Further, the moving of heavy equipment or construction-related supplies should be conducted during nonpeak traffic hours.

If there are any questions, please contact Major Richard Robinson of District 5 (Kalihi) at 723-8202 or via e-mail at rrobinson@honolulu.gov.

Sincerely,

LOUIS M. KEALOHA
Chief of Police

By
RANDAL K. MACADANGDANG
Assistant Chief
Support Services Bureau

Serving and Protecting With Aloha

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& ASSOCIATES, INC.

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August 26, 2015

Louis M. Kealoha, Chief of Police
Police Department
City and County of Honolulu
801 South Beretania Street
Honolulu, HI 96813

Attn: Major Richard Robinson

SUBJECT: Draft Environmental Assessment for Consolidated Kalihi-Palama Health Center (KPHC) at Kalihi-Palama, City and County of Honolulu, Island of O'ahu TMK 1-7-031:052

Dear Chief Louis Kealoha:

Thank you for your letter (your reference number EO-WS) dated September 5, 2014 regarding the subject project. As the planning consultant for the Kalihi-Palama Health Center, we thank you for your comments.

We appreciate your participation in the environmental review process and your input that the comments made by Mr. Lester Hite, former Major of District 5 (Kalihi), as noted on page 44 of the Draft Environmental Assessment remain the same.

If you have any questions regarding this project, please do not hesitate to contact me at 521-5631.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice-President