21 February 2014

Mr. Herman Tuiolosega, Acting Director
Office of Environmental Quality Control
235 South Beretania Street, Suite 702
Honolulu, Hawai’i 96813

Dear Mr. Tuiolosega:

The University of Hawai‘i at Mānoa, Office of the Physical, Environmental, and Long Range Planning hereby transmits the Final Environmental Assessment and Finding of No Significant Impact (FEA-FONSI) for the Hawai‘i Institute of Marine Biology, Coconut Island Infrastructure Rehabilitation and Replacement Project, Kāne‘ohe, O‘ahu, Hawai‘i for publication in the next available edition of the Environmental Notice.

Copies of public comments on the draft environmental assessment and anticipated finding of no significant impact (DEA-AFONSI) received during the 30-day public comment period and the corresponding responses from the applicant have been included in the FEA.

Enclosed is a completed OEQC Publication Form, two (2) hard copies of the FEA-FONSI and one (1) CD containing a pdf of the same and a Word copy of the publication form. Simultaneous with this letter, we have submitted the summary of the action in a text file by electronic mail to your office.

If you have any questions, please contact me at (808) 956-8018.

Sincerely,

[Signature]

Stephen Meder
Assistant Vice-Chancellor
Physical, Environmental, and Long Range Planning

cc: Colette Sakoda, Environet, Inc.

Enclosures:  OEQC Publication Form
FEA-FONSI (2 hard copies)
1 CD with FEA-FONSI (pdf) and OEQC Publication Form (Word)
AGENCY ACTIONS
SECTION 343-5(B), HRS
PUBLICATION FORM (FEBRUARY 2013 REVISION)

Project Name: Hawai‘i Institute of Marine Biology, Coconut Island Infrastructure Rehabilitation and Replacement Project
Island: O‘ahu
District: Kāne‘ohe
TMK: (1)4-6-001:001, 015, 016, 017, 051
Permits: National Pollutant Discharge Elimination System (NPDES) Permit (to be submitted by the contractor for the hydro-testing of the newly installed water line), USACE Section 10 Permit, Special Management Area Use Permit (SMP), Shoreline Setback Variance (SSV) Permit, and DLNR easement for utility lines.

Proposing/Determination Agency:
University of Hawai‘i Manoa
Office of the Assistant Vice Chancellor for Physical, Environmental and Long Range Planning
2500 Campus Road, Hawai‘i Hall 307
Honolulu, Hawai‘i 96822
Stephen Meder
(808) 956-8018

Accepting Authority: Same as above
(for EIS submittals only)
Consultant: Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813
Colette Sakoda
808-833-2225 ext. 1004

Status (check one only):
__DEA-AFNSI
Submit the proposing 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 oegchawaii@doh.hawaii.gov); a 30-day comment period ensues upon publication in the periodic bulletin.

✓ FEA-FONSI
Submit the proposing 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 oegchawaii@doh.hawaii.gov); no comment period ensues upon publication in the periodic bulletin.

__FEA-EISPNI
Submit the proposing 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 oegchawaii@doh.hawaii.gov); a 30-day consultation period ensues upon publication in the periodic bulletin.

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

__DEIS
The proposing agency simultaneously transmits to both the OEQC and the accepting authority, 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 oegchawaii@doh.hawaii.gov); a 45-day comment period ensues upon publication in the periodic bulletin.

__FEIS
The proposing agency simultaneously transmits to both the OEQC and the accepting authority, 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
Section 11-200-23
Determination

The accepting authority simultaneously transmits its determination of acceptance or nonacceptance (pursuant to Section 11-200-23, HAR) of the FEIS to both OEQC and the proposing agency. No comment period ensues upon publication in the periodic bulletin.

Section 11-200-27
Determination

The accepting authority simultaneously transmits its notice to both the proposing agency 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)

Project Summary:

A Finding of No Significant Impact (FONSI) has been issued for the University of Hawai‘i’s proposed rehabilitation and replacement of the existing infrastructure at the Hawai‘i Institute of Marine Biology (HIMB) on Coconut Island, Kāne‘ohe Bay, Hawai‘i. The project includes replacing the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as maintenance/repair items identified as high priority to prevent failure of the existing infrastructures at the facility.

The utility line replacement will be conducted using a Horizontal Directional Drilling (HDD) method, which will allow the utility lines to be buried beneath the bottom of Kāne‘ohe Bay rather than lying on the bottom of the bay as they currently exist. This method will minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during installation. The second work item will involve re-routing the existing sewer line that runs around North Lagoon, which was previously installed to service structures along the northern shoreline of the island. The sewer line will be re-routed and connected to the main sewer line that services the island since these structures no longer exist and because there is no need to continue service to this area of the island. The third item will involve replacement of the pumps at the existing sewer pump station located on the east side of the island in order to support the proposed replacement of the force main. The interior of the wetwell will be coated with epoxy to protect the concrete walls from corrosion. The fourth item will involve removing the existing concrete platform of Lighthouse Pier, and replacing it with a new platform of the same footprint. The existing piles, which are in poor structural condition, will be refurbished prior to replacement of the pier’s platform. The proposed project is much needed to prevent future failure and interruption of utility services to the island, and to support HIMB’s ongoing as well as future research and educational programs. A FONSI has been issued.
Hawai‘i Institute of Marine Biology
Coconut Island Infrastructure Rehabilitation and Replacement Project
Kane‘ohe, O‘ahu, Hawai‘i

This document is prepared pursuant to Chapter 343, Hawai‘i Revised Statutes

The Applicant:
University of Hawai‘i
Hawai‘i Institute of Marine Biology

Approving Agency:
University of Hawai‘i at Mānoa
Hawai‘i Institute of Marine Biology
Coconut Island Infrastructure Rehabilitation and Replacement Project
Kāne‘ohe, O‘ahu, Hawai‘i

Prepared By:
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

The Applicant:
University of Hawai‘i
Hawai‘i Institute of Marine Biology

Approving Agency:
University of Hawai‘i at Mānoa
# TABLE OF CONTENTS

## 1 INTRODUCTION

1.1 INTRODUCTION.................................................................7
1.2 PROJECT INFORMATION..................................................9

## 2 PROJECT DESCRIPTION

2.1 SCOPE AND AUTHORITY..................................................11
2.2 PROJECT LOCATION.........................................................13
2.3 OVERVIEW OF ALTERNATIVES
   2.3.1 NO ACTION ALTERNATIVE........................................13
   2.3.2 THE PROPOSED ACTION – THE PREFERRED ALTERNATIVE 14
2.4 PURPOSE AND NEED.......................................................31
2.5 REGULATORY FRAMEWORK.............................................32
2.6 PUBLIC AND AGENCY CONSULTATION.............................33

## 3 ENVIRONMENTAL SETTING AND POTENTIAL IMPACTS

3.1 INTRODUCTION...............................................................35
   3.1.1 SIGNIFICANCE CRITERIA.............................................37
   3.1.2 DIRECT VERSUS INDIRECT IMPACTS..............................37
   3.1.3 BENEFICIAL VERSUS ADVERSE..................................37
   3.1.4 CUMULATIVE IMPACTS...............................................38
   3.1.5 MITIGATIVE MEASURES.............................................38
3.2 PHYSICAL ENVIRONMENT
   3.2.1 TOPOGRAPHY AND GEOLOGY....................................38
   3.2.2 SOILS........................................................................39
   3.2.3 FIRE HAZARDS..........................................................42
   3.2.4 NATURAL HAZARDS: FLOODS, EARTHQUAKES, TSUNAMIS 43
   3.2.5 BIOLOGICAL RESOURCES............................................45
   3.2.6 WETLANDS...............................................................51
   3.2.7 WATER RESOURCES..................................................52
   3.2.8 HAZARDOUS AND TOXIC MATERIALS CONSIDERATIONS 56
   3.2.9 CLIMATE AND AIR QUALITY....................................56
   3.2.10 NOISE.......................................................................57
3.3 SOCIAL ENVIRONMENT....................................................58
   3.3.1 LAND USE CONSIDERATIONS AND ZONING...............58
   3.3.2 HISTORICAL AND ARCHAEOLOGICAL CONSIDERATIONS 63
APPENDICES

Appendix A: Engineering Drawings
Appendix B: PileMedic™ Information Sheet
Appendix C-1: Meeting Minutes, Pre-Assessment Consultation Letters and Responses
Appendix C-2: Draft EA Comment Letters and Responses
Appendix D: Biological Resource Assessment
This page is intentionally left blank.
# ACRONYMS AND ABBREVIATIONS

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALISH</td>
<td>Agricultural Lands of Importance to the State of Hawai‘i</td>
</tr>
<tr>
<td>BMP</td>
<td>best management practice</td>
</tr>
<tr>
<td>BWS</td>
<td>Board of Water Supply</td>
</tr>
<tr>
<td>CAA</td>
<td>Clean Air Act</td>
</tr>
<tr>
<td>CAAA</td>
<td>Clean Air Act Amendments</td>
</tr>
<tr>
<td>CERCLA</td>
<td>Comprehensive Environmental Response, Compensation, and Liability Act</td>
</tr>
<tr>
<td>CIA</td>
<td>Cultural Impact Assessment</td>
</tr>
<tr>
<td>Cl</td>
<td>chloride</td>
</tr>
<tr>
<td>CZM</td>
<td>Coastal Zone Management</td>
</tr>
<tr>
<td>dBA</td>
<td>decibels</td>
</tr>
<tr>
<td>DBEDT</td>
<td>Department of Business, Economic Development and Tourism, State of Hawai‘i</td>
</tr>
<tr>
<td>DLNR</td>
<td>Department of Land and Natural Resources, State of Hawai‘i</td>
</tr>
<tr>
<td>DOH</td>
<td>Department of Health, State of Hawai‘i</td>
</tr>
<tr>
<td>DPP</td>
<td>Department of Planning and Permitting, City and County of Honolulu</td>
</tr>
<tr>
<td>EA</td>
<td>Environmental Assessment</td>
</tr>
<tr>
<td>EIS</td>
<td>Environmental Impact Statement</td>
</tr>
<tr>
<td>ENV</td>
<td>Department of Environmental Services, City and County of Honolulu</td>
</tr>
<tr>
<td>EPA</td>
<td>United States Environmental Protection Agency</td>
</tr>
<tr>
<td>FEIS</td>
<td>Final Environmental Impact Statement</td>
</tr>
<tr>
<td>FEMA</td>
<td>Federal Emergency Management Agency</td>
</tr>
<tr>
<td>FHWA</td>
<td>Federal Highway Administration</td>
</tr>
<tr>
<td>FIRM</td>
<td>Flood Insurance Rate Map</td>
</tr>
<tr>
<td>FONSI</td>
<td>Finding of No Significant Impact</td>
</tr>
<tr>
<td>gpm</td>
<td>gallons per minute</td>
</tr>
<tr>
<td>HAR</td>
<td>Hawai‘i Administrative Rules</td>
</tr>
<tr>
<td>HDD</td>
<td>horizontal directional drilling</td>
</tr>
<tr>
<td>HDPE</td>
<td>high density polyethylene</td>
</tr>
<tr>
<td>HECO</td>
<td>Hawaiian Electric Company</td>
</tr>
<tr>
<td>HRS</td>
<td>Hawai‘i Revised Statutes</td>
</tr>
<tr>
<td>LCA</td>
<td>Land Commission Award</td>
</tr>
<tr>
<td>LRDP</td>
<td>Long Range Development Plan</td>
</tr>
<tr>
<td>LUC</td>
<td>State of Hawai‘i Land Use Commission</td>
</tr>
<tr>
<td>LUO</td>
<td>Land Use Ordinance</td>
</tr>
<tr>
<td>MCBH</td>
<td>Marine Corps Base Hawai‘i</td>
</tr>
<tr>
<td>mg/L</td>
<td>milligrams per liter</td>
</tr>
<tr>
<td>MMPA</td>
<td>Marine Mammal Protection Act</td>
</tr>
<tr>
<td>msl</td>
<td>mean sea level</td>
</tr>
<tr>
<td>NAAQS</td>
<td>National Ambient Air Quality Standards</td>
</tr>
<tr>
<td>NAGPRA</td>
<td>Native American Graves Protection and Repatriation Act</td>
</tr>
<tr>
<td>NESHAPS</td>
<td>National Emission Standards for Hazardous Air Pollutants</td>
</tr>
<tr>
<td>NFIP</td>
<td>National Flood Insurance Program</td>
</tr>
<tr>
<td>NOAA</td>
<td>National Oceanic and Atmospheric Administration</td>
</tr>
<tr>
<td>NOI</td>
<td>Notice of Intent</td>
</tr>
<tr>
<td>Abbreviation</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------</td>
</tr>
<tr>
<td>NPDES</td>
<td>National Pollutant Discharge Elimination System</td>
</tr>
<tr>
<td>NPL</td>
<td>National Priorities List</td>
</tr>
<tr>
<td>NRCS</td>
<td>Natural Resources Conservation Service</td>
</tr>
<tr>
<td>NSPS</td>
<td>New Source Performance Standards</td>
</tr>
<tr>
<td>OEQC</td>
<td>Office of Environmental Quality Control</td>
</tr>
<tr>
<td>PSD</td>
<td>Prevention of Significant Deterioration</td>
</tr>
<tr>
<td>PV</td>
<td>photovoltaic</td>
</tr>
<tr>
<td>PVS</td>
<td>Polynesian Voyaging Society</td>
</tr>
<tr>
<td>RCRA</td>
<td>Resource Conservation and Recovery Act</td>
</tr>
<tr>
<td>ROH</td>
<td>Revised Ordinances of Honolulu of 1990</td>
</tr>
<tr>
<td>SHPD</td>
<td>State Historic Preservation Division</td>
</tr>
<tr>
<td>SIP</td>
<td>State Implementation Plan</td>
</tr>
<tr>
<td>SMP</td>
<td>Special Management Area Use Permit</td>
</tr>
<tr>
<td>SOEST</td>
<td>School of Ocean and Earth Science and Technology</td>
</tr>
<tr>
<td>SSV</td>
<td>Shoreline Setback Variance</td>
</tr>
<tr>
<td>UH</td>
<td>University of Hawai‘i</td>
</tr>
<tr>
<td>USACE</td>
<td>United States Army Corps of Engineers</td>
</tr>
<tr>
<td>USDA</td>
<td>United States Department of Agriculture</td>
</tr>
<tr>
<td>USFWS</td>
<td>United States Fish and Wildlife Service</td>
</tr>
<tr>
<td>USGS</td>
<td>United States Geological Survey</td>
</tr>
<tr>
<td>UST</td>
<td>Underground Storage Tank</td>
</tr>
<tr>
<td>WRCC</td>
<td>Western Regional Climate Center</td>
</tr>
</tbody>
</table>
SECTION 1
INTRODUCTION
1.1 INTRODUCTION

This Environmental Assessment (EA) is prepared pursuant to Chapter 343, Hawai‘i Revised Statutes (HRS) and associated Title 11, Chapter 200, Hawai‘i Administrative Rules (HAR). The intent of this document is to ensure that systematic consideration is given to the environmental, social, and economic consequences of the Proposed Action. The Proposed Action is the rehabilitation and replacement of existing infrastructure at the Hawai‘i Institute of Marine Biology (HIMB) on Coconut Island, Kāne‘ohe Bay, Hawai‘i. The Final Environmental Impact Statement (FEIS) prepared for HIMB in 2004 served as an implementation process of the Long Range Development Plan (LRDP), which presents the University of Hawai‘i (UH)’s vision to expand world-class marine research, applied research, meeting, and public education activities on Coconut Island while preserving its natural beauty as a whole. This EA serves the purpose of environmental review of more specific work items needed for the rehabilitation and replacement of existing utilities and structures on the island, which is specified in further details in the following section.

1.2 PROJECT INFORMATION

**Project Name:** Final Environmental Assessment
Hawai‘i Institute of Marine Biology
Coconut Island Infrastructure Rehabilitation and Replacement Project
Kāne‘ohe, O‘ahu, Hawai‘i

**Applicant:** University of Hawai‘i
Hawai‘i Institute of Marine Biology
46-007 Lilipuna Road
Kāne‘ohe, Hawai‘i 96744
Contact: Jo-Ann Leong, Director
(808) 236-7401

**Agent:** Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813
Contact: Colette Sakoda
(808) 833-2225 ext. 1004
** Approving Agency: ** University of Hawai‘i at Mānoa  
Office of Physical, Environmental, and Long Range Planning  
2500 Campus Road, Hawai‘i Hall 307  
Honolulu, Hawai‘i 96822  

** Project Location: ** Coconut Island, Kāne‘ohe, Hawai‘i  

** Tax Map Keys (TMKs): ** (1)4-6-001:001, 015, 016, 017, 051  

** Land Area: **  
Coconut Island: 28.8 acres (6.15 submerged);  
Lilipuna Road Property: 1.41 acres  

** State Land Use District: **  
Coconut Island: Conservation;  
Lilipuna Road Property: Urban  

** City and County Zoning Designation: **  
Coconut Island: P-1, Restricted Preservation;  
Lilipuna Road Property: R-10, Residential  

** Construction Timeframe: ** Late 2014 commence and continue for 3-4 months  

** Estimated Cost: ** $5.4 million (development cost)
2.1 SCOPE AND AUTHORITY

This EA is being conducted in accordance with HRS Chapter 343 and associated Title 11, Chapter 200, HAR to evaluate the potential environmental, social, and economic impacts associated with the rehabilitation and replacement of the aging existing infrastructure at Coconut Island. The proposed improvements include:

- Utility line replacement;
- Re-routing existing gravity sewer line;
- Sewage pump replacement and wetwell repairs; and
- Lighthouse Pier rehabilitation.

Environmental permits required for these improvements include a Section 10 United States (U.S.) Army Corps of Engineers (USACE) permit, Special Management Area Use Permit (SMP), and a Shoreline Setback Variance (SSV). This document fulfills the requirements of HRS §343-5(a)(1), (2), and (3) for the use of State lands and funds, and activities within the Conservation District; shoreline area as defined by HRS §205A-41; and HAR §11-200-5(a), (b), and (c) as an “agency action.”

2.2 PROJECT LOCATION

Coconut Island is located in Kāne‘ohe Bay on the northeastern side of O‘ahu (Figure 1) and comprises two parcels; TMKs (1)4-6-001:001 and (1)4-6-001:051 (Figure 2). Regular access to the island is provided by shuttle boat from Lilipuna Pier. The access drive and parking lot located on TMKs (1)4-6-001:015, 016, and 017 (Figure 2) are surrounded by single family residences. HIMB located on Coconut Island is a world-renowned marine research institute of the School of Ocean and Earth Science and Technology (SOEST) at the UH at Mānoa. Facilities currently located on the island include classroom and laboratory buildings, utility structures, maintenance sheds, housing for students and faculty, as well as research tanks and pens, docks/piers, and manmade lagoons.

2.3 OVERVIEW OF ALTERNATIVES

2.3.1 NO ACTION ALTERNATIVE

Under the No Action Alternative, the proposed rehabilitation and replacement of existing infrastructure at HIMB would not be conducted. Without the proposed improvements, the utility lines that currently service the island will continue to age and be exposed to the elements, which may lead to future failure and interruption of utility services to the island. There is the potential for a
major sewage spill in Kāneʻohe Bay if the currently aged sewer line is not replaced. In addition, without replacement of the currently outdated telephone wiring system with a fiber optic cable, HIMB will not be able to support its ongoing or future research programs that require high speed communication capability with research centers around the world.

Without the re-routing of the existing gravity sewer line, there is a potential that the portions of the sewer line where they cross over the water surface of North Lagoon may fail in the future due to corrosion and negatively impact the lagoon water quality. Additionally, without the sewage pump replacement and wetwell repairs, the existing pump station, which is the only mode of sewage conveyance to Oʻahu, will continue to age and may cause interruption to HIMB’s daily operations. Furthermore, without the rehabilitation of the Lighthouse Pier, the pier will continue to deteriorate and fail to function as a primary arrival point to Coconut Island. Sections of the pier have already fallen into the water below, and without the rehabilitation, the coral underneath the pier will continue to be damaged. The No Action Alternative is not only expected to have negative impacts to the biological and water resources within the project area, and to the aesthetic value of HIMB but is also expected to have negative impacts on HIMB’s ability to support its ongoing and future research and educational programs.

2.3.2 THE PROPOSED ACTION – THE PREFERRED ALTERNATIVE

The Proposed Action includes four (4) high priority items which will greatly improve the existing infrastructure at Coconut Island (Figure 3a). Appendix A includes the preliminary engineering designs for the improvements.

2.3.2.1 UTILITY LINE REPLACEMENT

**Existing Conditions**

The existing sewer, water, electric, and communication lines are currently laid on the bottom of Kāneʻohe Bay (Figure 3a). The existing 4-inch cast iron sewer force main was installed in the late 1970’s and begins at the pump station located on the east side of the island and runs underground to the shuttle boat landing on the southwestern side of the island. The force main then continues along the bottom of Kāneʻohe Bay to Lilipuna Pier. The force main surfaces at the end of the pier and is mounted to the underside of the pier. At the opposite end of the pier, the force main travels underground and runs along the shoreline before discharging into a manhole located within a sewer easement in a private property on Lilipuna Road. The portion of the force main running under the pier was replaced by a 4-inch, high density polyethylene (HDPE) pipe in 1990. Due to the age of the force main and exposure to the elements, there are concerns about the long-term viability of the force main crossing Kāneʻohe Bay. This portion of the force main has the highest probability of failure, and there is fear of a potential sewer spill into Kāneʻohe Bay if the force main is not replaced. The existing sewer force main on Coconut Island is not exposed to the elements and its condition is not a concern for HIMB, therefore the on-island sewer force main is not being replaced.
Coconut Island’s potable water service was originally provided through a 4-inch cast iron line installed in the 1930s. In 1990, the 4-inch waterline was replaced by a 6-inch HDPE pipe and connected to the 8-inch Board of Water Supply (BWS) water main in the parking lot serving the Lilipuna Pier. The 6-inch line runs below Lilipuna Pier then drops down into Kāne‘ohe Bay where it is anchored on the seabed. The line exits the bay near the Lighthouse Pier. The section of the water line in the bay is covered by mud and silt.

Electrical lines to Coconut Island originate from the Hawaiian Electric Company (HECO)’s Kāne‘ohe Substation and run overhead along Lilipuna Road. The lines then submerge into Kāne‘ohe Bay and resurface on Coconut Island, where they connect to HECO’s switching equipment and feeds into two transformers. Power is then distributed throughout the island. Communication service to the island is currently provided by Hawaiian Telcom. The communication lines are submerged in Kāne‘ohe Bay.

Replacement of the communication line, which is also considered high priority for HIMB, will replace substandard obsolete telephone wiring with a fiber optic cable line. This will provide HIMB with high speed communication service (10 gigabits per second), allowing for real time communication and data sharing with research centers around the world.

**Horizontal Directional Drilling (HDD)**

The new utility lines will be installed under the sea floor using horizontal directional drilling (HDD) rather than placing the lines on the bottom of Kāne‘ohe Bay. Since its inception in the 1970s, HDD has proved to be an environmentally friendly trenchless alternative to underground utility installation. HDD has been used successfully on many of the City and County of Honolulu sewer force main installations. In contrast to installing the utility lines on the bottom of the seafloor, the HDD method will eliminate the need for any in-water work within Kāne‘ohe Bay. Ground disturbance will be limited to relatively small areas (i.e., the entry pit and receiving area) on land, minimizing impacts to the marine ecosystem by eliminating the release of sediment. Installed underground, the utility lines will have minimal contact with the elements that would otherwise cause them to deteriorate over time and eliminate the risk of boaters snagging the utility lines with anchors.

The HDD process will begin by drilling a pilot hole from the entry pit on the Lilipuna Road property to the receiving area on Coconut Island (Figure 4). The drill rig will be placed on a staging area located in the upslope lawn area adjacent to the existing parking lot on the Lilipuna Road property. Grading will be done in order to maintain a safe slope (5 percent maximum) for placement of the drilling equipment.

The boring will occur approximately 70-80 feet below Kāne‘ohe Bay in order to ensure that it is installed at least 40 feet below the sand and coral bottom of the bay. Once the pilot hole reaches the receiving area on Coconut Island, a reamer will be attached to the drill string and pulled back towards the Lilipuna Pier property, increasing the size of the hole to its final diameter. The reamer
tows a drill string, and as it cuts a larger hole, it releases a bentonite slurry to stabilize the hole. A receiving pit to capture the released slurry will also be located on the receiving side of the bore hole. The receiving pit will be surrounded by sandbags to prevent any contamination to the surrounding areas. A silt fence will also be installed downslope from the receiving area to prevent runoff from entering Kāneʻohe Bay. The new utility pipes will be staged on Coconut Island where they will be pulled into the receiving pit through the bore hole towards the Lilipuna Road property.

There will be three (3) borings. The sewer and communication lines will be placed together in one bore hole. The water and electrical lines will be placed in the other two borings. The locations of the staging area on the Lilipuna Road property where drilling is to start and the two receiving areas where the utility lines will resurface on Coconut Island are shown on Figure 3a through Figure 3d.
To connect the newly installed utility lines to existing systems, trenching will be necessary on Coconut Island as well as within the Lilipuna Road property. The sewer force main will resurface at Receiving Site 1 on Coconut Island and will be connected to the existing force main (Figure 3e). The trench that will allow for the sewer force main to be connected to the existing force main will be approximately 75 feet long, 2 feet wide, and 3 feet deep. The communication line sharing the same bore hole as the sewer force main will also resurface at Receiving Site 1 and will be connected to the existing communication system via a trench approximately 65 feet in length, 2 feet wide, and 3 feet deep.

The new water and electrical lines will resurface at Receiving Site 2 on Coconut Island (Figure 3e). The electrical line will be connected to the closest transformer on the island via a trench approximately 260 feet in length, 2 feet wide, and 3 feet deep. The new water line will be connected to the existing water line system on the island via a trench approximately 100 feet in length, 2 feet wide, and 3 feet deep.

The newly installed sewer force main will be reconnected to the existing force main on O‘ahu by a trench excavation starting from the staging area on the Lilipuna Road property to the start of Lilipuna Pier. The new 6-inch sewer force main will then be suspended under Lilipuna Pier and connected to the existing 4-inch sewer force main at the point where it transitions underground (Figure 3d). The sewer trench length will be approximately 150 feet, 2 feet wide, and 3 feet deep. The communication line trench on the Lilipuna Road property will be approximately 100 feet in length, 2 feet wide, and 3 feet deep. The electrical trench on the Lilipuna Road property will be approximately 125 feet in length, 2 feet wide, and 3 feet deep. The waterline trench on the Lilipuna Road property will be approximately 20 feet in length, 2 feet wide, and 5 feet deep. All trenches will be restored after installation of utility lines. The entire HDD installation process and connection of the new utility lines to the existing utility lines is estimated to take four to five weeks to complete.

2.3.2.2 RE-ROUTING EXISTING GRAVITY SEWER LINE

The existing gravity sewer line that runs around North Lagoon was previously installed to service structures along the northern shoreline of Coconut Island (Figure 3b). There are two crossings where the existing sewer line is exposed above the water surface (Photos 1 and 2). The original structures that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The connections to this existing sewer line will be capped and a new sewer line will be installed that will re-route sewer flows and connect to the main sewer line that services the island. Trenching required to re-route the sewer line will be approximately 350 feet long, 2 feet wide, and 3 feet deep. The replacement sewer line will tie into an existing sewer line.
The existing sewer pump station (Photo 3) located on the east side of the island was constructed in the late 1970s along with a 4-inch force main. The sewer pump station consists of a 4-foot diameter concrete cylinder wetwell that is approximately 10 feet deep. Wastewater generated on Coconut Island is collected in the wetwell and pumped through the existing 4-inch force main to O‘ahu where it enters the City’s sewer system (Figure 3b and 3e). The pump station is equipped with two vertical wet-pit centrifugal pumps, each with a capacity of 120 gallons per minute (gpm). Pump operation is controlled by water level sensors set at specified water levels. Currently, the pumps are not operating at their optimal efficiency and the interior of the wetwell wall appears to be pitting. In order to support the proposed replacement force main and provide more reliable sewer service to Coconut Island, the pumps will be replaced and the wetwell interior will be coated with epoxy to protect the concrete walls from corrosion. The proposed peak flow from one of the replaced pumps will be limited to a flow capacity accepted by the City and County of Honolulu Department of Environmental Services (ENV). The pump controls will be configured so that two pumps cannot be turned on at the same time. Upon completion of the pump replacement, a flow test report will be submitted to ENV.
2.3.2.4 Lighthouse Pier Rehabilitation

The Lighthouse Pier with its arrival facility, located at the West Lagoon of the island (Figure 3a), is the primary arrival point on Coconut Island, making it the first impression of this world class marine research facility. The pier is in total disrepair (Photos 4 through 6). The concrete pilings have deteriorated, the pier’s deck appears to be disconnecting from the lighthouse, and portions of the deck are cracked and sagging. The pier is no longer being used and is off limits due to safety concerns. Rehabilitation of the pier is needed to safely transport researchers, students, visitors, and equipment to Coconut Island. The pier will be repaired, new signage will be added, and the lighthouse adjacent to the pier will eventually be renovated.

The existing concrete platform of Lighthouse Pier will be demolished and removed, and will be replaced with a new platform of the same footprint. The existing piles which are in poor structural condition will be refurbished prior to replacement of the pier’s platform. The existing piles will be rehabilitated using a technology employed by PileMedic™ (see Appendix B) that will minimize potential impacts to the surrounding water and coral. Fiber reinforced polymer laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the existing pile and the laminate, which is usually less than an inch, will then be filled with grout. The bottom of the laminate will be sealed so that the grout does not leak out from the bottom of the wrapped laminate. As the grout fills the space between the pile and the laminate, displaced water inside the laminate will be pumped out rather than discharged into the bay to avoid impacts to the surrounding water. After curing, the final product will produce strengths equal to or stronger than the original piles. The laminates will stay in place permanently. This method also prevents the surrounding water from being contaminated with grout since the laminates wrapped around the piles will act as a barrier against contact with the surrounding bay water.
Photo 4: Existing Lighthouse Pier deck and pilings

Photo 5: Lighthouse Pier and Lighthouse
2.4 PURPOSE AND NEED

The purpose of the proposed project is to satisfy the need for the rehabilitation and replacement of aging infrastructure on Coconut Island that has either failed or has the potential to fail. The island is currently owned by UH Foundation and the State of Hawai‘i, and leased to UH. The abundance of marine habitat makes the island an optimal location for the ongoing marine biology research at HIMB. In 1998, a LRDP was completed in order to create and maintain Coconut Island as a world class research institute. These proposed improvements will assist in implementing the vision of the LRDP. This EA is being conducted to evaluate and document the possible environmental, social, and economic consequences of these specific improvements, which have been identified as high priority.

HIMB is a world-renowned marine biology research institute. Programs at the facility include five broad areas of research: coral physiology and ecology; behavior, physiology, and population dynamics of fish; marine endocrinology and aquaculture; marine mammal research; and environmental toxicology. Improvements to the island’s facilities will allow for further development of these areas of research. Other uses for the facilities include education, sustainability, and stewardship. Coconut Island serves as an education center for undergraduate and graduate students from UH as well as other institutions. The facility also hosts approximately 4,000 primary and secondary students through field trips each year. A host site for research on sustainability, Coconut Island’s future plans according to the LRDP are to also be a model for sustainability, integrating sustainable technologies into the design and renovation of its facilities. Lastly, the island’s LRDP calls for the facilities to incorporate values and principles of stewardship in serving to protect and
preserve the ocean’s resources. Maintenance and improvements to allow for the continued use of the island’s facilities is imperative to the continuation of these uses.

The aging sewer force main has a high potential for failure and should be replaced to avoid a sewage spill into Kāne‘ohe Bay. Replacement of the current outdated telephone wiring system with a fiber optic cable will provide a higher level of service to Coconut Island allowing for instantaneous communication to various UH campuses as well as research centers around the world. As a world leader in tropical marine biology research, HIMB’s need for rapid communication with the world is imperative, making the upgrade of communication lines a top priority of the facility. By replacing all four utility lines using the HDD methodology, risk of a sewage spill, interruption of water and electrical service, and slow communication will be eliminated.

Re-routing of the existing gravity sewer line around North Lagoon will eliminate the use of two sewer line crossings above the water that pose a hazard to the surrounding environment if they fail. Replacement of the sewer pump and wetwell repairs on the eastern side of the island are necessary to support and ensure maximized efficiency of the newly installed sewer force main. Improvements to the utility systems on Coconut Island are in keeping with the LRDP which call for maintaining and expanding its uses for research, education, sustainability, and stewardship.

The Lighthouse Pier with its supporting structures was intended to be the primary arrival point on the island, making it the first impression upon visitors. The poor condition of the pier led to its identification in a 1998 site reconnaissance as in immediate need of reconstruction for safety purposes. In addition to the daily delivery of personnel by shuttle boat, the pier is also the preferred and safest landing point for Honu Kai, the support vessel that carries visitors to the island. However, since the pier cannot safely be used as a landing point, the vessel currently inevitably pulls onto land using the front loading gate, which is not ideal for unloading passengers. The Lighthouse Pier’s renovation would provide both aesthetic and functional improvements to accommodate expanded research and the multiple other uses identified in the LRDP.

2.5 REGULATORY FRAMEWORK

The EA is a requirement under Chapter 343 HRS due to the use of State funds, and is also required as part of the SMP and SSV application process. This EA has been prepared in accordance with HRS 343, and its implementing regulations, as well as, Title 11, Chapter 200 of the HAR. In addressing environmental considerations, the following relevant statutes that establish standards and provide guidance on environmental and natural resource management and planning are discussed throughout subsequent sections, and in detail in Section 4 of this EA:

- Section 10 Rivers and Harbors Act of 1899;
- Chapter 343 HRS;
- Chapter 226 HRS;
• City and County of Honolulu General Plan (Amended October 3, 2002);
• Ko’olaupoko Sustainable Communities Plan;
• Coastal Zone Management (CZM) Program; and
• Revised Ordinances of Honolulu 1990 (ROH).

2.6 PUBLIC AND AGENCY CONSULTATION

Meetings and briefings were held frequently with community leaders and stakeholders throughout the Draft EA preparation, review, and processing stages in order to keep the public informed as well as to incorporate any concerns or opinions they may have regarding the project. As part of the pre-application consultation phase, the project was presented to the Kane‘ohe Neighborhood Board in August 2013. The meeting minutes from this meeting are included in Appendix C-1. Pre-assessment consultation letters to gather comments for the preparation of this Draft EA were distributed to seventy (70) federal, state, and county agencies, utilities, community organizations and leaders for a 30-day response period ending September 21, 2013 (Appendix C-1). Twenty six (26) response letters were received (Appendix C-1) and were addressed as part of the EA analysis.

The availability of the Draft EA was announced in the State of Hawai‘i Office of Environmental Quality Control (OEQC) Environmental Notice publication on December 23, 2013 for a required 30-day public review period. As part of the Draft EA public review period, seventy two (72) parties were consulted and comments from 26 parties were received (Appendix C-2).
SECTION 3
ENVIRONMENTAL SETTING AND POTENTIAL IMPACTS
3.1 INTRODUCTION

The environmental, social, and economic setting of the project site and the probable impacts of the No Action Alternative and the Proposed Action - Preferred Alternative are described in this section of the EA. Impacts are evaluated as to whether they constitute a “significant effect” on a particular environmental setting. Impacts are described as having No Impact, Significant Adverse Impact, or Beneficial Impact, to the environment. The terms “impact” and “effect” are used synonymously in this EA. Impacts may apply to the full range of natural, aesthetic, historic, cultural, and economic resources. The following subsections define key terms used throughout Section 3.

3.1.1 SIGNIFICANCE CRITERIA

A “significant effect” is defined by HRS Chapter 343 as “the sum of effects on the quality of the environment, including actions that irrevocably commit a natural resource, curtail the range of beneficial uses of the environment, are contrary to the State’s environmental policies or long-term environmental goals as established by law, or adversely affect the economic welfare, social welfare, or cultural practices of the community and State.”

3.1.2 DIRECT VERSUS INDIRECT IMPACTS

Definitions and examples of “direct” and “indirect” impacts as used in this document are as follows:

“Primary impact” or “primary effect” or “direct impact” or “direct effect” means effects which are caused by the action and occur at the same time and place (HAR §11-200-2). For direct impacts to occur, a resource must be present in the particular study area.

“Secondary impact” or “secondary effect” or “indirect impact” or “indirect effect” means effects which are caused by the action and are later in time or farther removed in distance, but are still reasonably foreseeable. Indirect effects may include growth inducing effects and other effects related to induced changes in the pattern of land use, population density or growth rate, and related effects on air and water and other natural systems, including ecosystems (HAR §11-200-2).

3.1.3 BENEFICIAL VERSUS ADVERSE

Impacts from the Preferred Alternative may also have beneficial or adverse effects to the environment. Beneficial impacts are those that would produce favorable outcomes and add value to the environment. Adverse impacts are those that would produce detrimental effects and cause harm to the environment.
3.1.4 CUMULATIVE IMPACTS

Cumulative impacts are two or more individual effects which, when considered together, compound or increase the overall impact. Cumulative impacts can arise from the individual effect of a single action or from the combined effects of past, present, or future actions. Thus, cumulative impacts can result from individually minor, but collectively significant actions taken over a period of time. The cumulative impacts of implementing the Preferred Alternative along with past and reasonably foreseeable future projects proposed were assessed based upon available information.

3.1.5 MITIGATIVE MEASURES

Mitigative measures are defined as measures taken to avoid, reduce, or compensate for adverse impacts to a resource. Mitigative measures are identified and discussed for each alternative, where relevant. In this EA, mitigative measures are provided to reduce adverse impacts when levels of impact are significant, ensuring levels of impact are reduced to a level of insignificance. Only those mitigative measures that are practical have been identified.

3.2 PHYSICAL ENVIRONMENT

3.2.1 TOPOGRAPHY AND GEOLOGY

3.2.1.1 EXISTING CONDITIONS

The Island of O‘ahu was formed through the emergence and coalescence of two large shield volcanoes: the Waianae and Ko‘olau volcanoes. Eroded remnants of these volcanoes form two of O‘ahu’s four geomorphic provinces: the Waianae Range on the west and the younger Ko‘olau Range on the east. The other two provinces are the Schofield Plateau and the Coastal Plain. Coconut Island was formed following the cessation of activities associated with the Ko‘olau volcano and is a remnant portion of a dike system associated with the Ko‘olau volcanic dome.

Coconut Island has been extensively graded and filled to create a flat upper plateau and numerous spits and peninsula. The island was subleased to Christian Holmes in 1933, who later on purchased the island in 1936. Dredging and filling of the island in the 1930s expanded the original 12.5 acres to the current 28.8 acres, with 6.15 acres located within enclosed lagoon areas. Fill that has been added over time is held in place by seawalls of which some are failing and causing erosion.

Currently, the central portion of the island rises above Kāneʻohe Bay, with low-lying shoreline areas where man-made piers and spits protrude outwards. Elevations on Coconut Island range from 0 feet above mean sea level (msl) at its low-lying shoreline areas to 55 feet above msl at the central portion of the island.
The Lilipuna Road property is located at the base of a relatively steep slope. The property is approximately 1.4 acres and contains a driveway that slopes down from Lilipuna Road to Kāne‘ohe Bay, a parking area with approximately 72 stalls, and Lilipuna Pier. The relatively flat parking area is located along the shoreline of the property. The remainder of the property is composed of natural vegetation and some formal landscaping.

3.2.1.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

Under the No Action Alternative, no construction or change in ground surface is expected. No significant impacts to the topography or geology are expected to result from the No Action Alternative.

Preferred Alternative

No significant impacts to the topography or geology are expected to result from the Preferred Alternative. The proposed improvement work items involve ground breaking activities during drilling to place the new utility lines below the bottom of Kāne‘ohe Bay and trenching activities to re-route or connect the newly installed utility lines to the existing utility lines. Ground disturbance during drilling will be limited to the access point at the Lilipuna Road property where drilling is to start, the receiving areas on the island where the utility lines will exit the borings, and those areas where trenching will occur to re-route the utility lines. Some grading will be required on the Lilipuna Road property to create a temporary staging area with a safe slope for the drilling equipment. All ground disturbances will be restored to their original condition following construction, and none of the site activities are expected to permanently alter the topographic or geologic conditions of the project area; therefore, no significant long-term impacts are anticipated.

3.2.2 SOILS

3.2.2.1 EXISTING CONDITIONS

The Soil Survey of the Islands of Kaua‘i, O‘ahu, Maui, Moloka‘i, and Lana‘i, State of Hawai‘i (NRCS, 1972) presents details on the soils present on the Island of O‘ahu. The soil type in the project area is classified as the Alaeloa Series. This series consists of well-drained soils on upland slopes on the Islands of Maui, Moloka‘i, and O‘ahu. These soils developed in material weathered from basic igneous rock.

The entire project area including Coconut Island and the Lilipuna Road property consist of the Alaeloa silty clay, 40 to 70 percent slopes (ALF) (Figure 5). Areas with this soil type commonly have a slope range of 45 to 53 percent. Runoff is rapid to very rapid, and the erosion hazard is severe.
AeE: 'Alaeloa Silty Clay, 15 to 35% Slopes
ALF: 'Alaeloa Silty Clay, 40 to 70% Slopes
FL: Fill Land, Mixed
HnB: Hanalei Silty Clay, 2 to 6% Slopes
KgC: Kane'ohe Silty Clay, 8 to 15% Slopes
LoD: Loleka'a Silty Clay, 15 to 25% Slopes
LoB: Loleka'a Silty Clay, 3 to 8% Slopes
Ph: Pearl Harbor Clay

Reference:
NRCS, 2013
for this soil type. The capability classification for this type of soil is VIIe, non-irrigated, indicating that this soil is used primarily for pasture and wildlife habitat.

3.2.2.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

For the No Action Alternative, no adverse impacts to soils are anticipated. The project site conditions would remain the same.

Preferred Alternative

The Preferred Alternative could potentially have temporary impacts on soils during construction activities associated with the utility line replacement and re-routing of the sewer line at North Lagoon. The remaining work items on Coconut Island do not involve any soil disturbing activities; therefore no significant impacts to soil are anticipated.

The HDD installation will require a staging area which will be located at the Lilipuna Road property adjacent to the existing parking lot which is currently an upslope lawn area. Some grading will need to be completed in order to create a safe slope (5 percent maximum) for the drilling equipment to be placed. A total of approximately 1,840 cubic yards of excavation and 34 cubic yards of embankment will be required to create the staging area. A limited amount of ground surface is expected to be exposed temporarily during these activities. Ground surface will also be exposed during trenching activities on both Coconut Island and the Lilipuna Road property when the newly installed utility lines are connected to existing utility lines. Ground surface will be graded to its original condition following completion of trenching activities. No major alterations to the existing land form within the project site are anticipated.

Exposed soils will be susceptible to erosion if it rains heavily during site work periods. Wind erosion may also cause some unavoidable soil loss. The ground will be kept damp to minimize soil loss, but not so much as to cause runoff from the site. The greater concern is silt runoff entering Kāne'ohe Bay. Adverse impacts will be minimized or avoided by both temporary and permanent erosion and sedimentation control measures during grading and trenching activities. While grading the staging area at the Lilipuna Road property, a silt fence and sand bags will be installed downslope of the proposed area of disturbance to contain any runoff during storm events. Once grading is complete, grass block pavers will be installed within the staging area to stabilize the soils. Other exposed areas will be grassed and retaining walls will be installed in order to capture and prevent runoff from reaching Kāne'ohe Bay. During trenching activities, silt fences and sand bags will be used to retain runoff that may potentially reach Kāne'ohe Bay. All proposed work shall comply with State and City and County erosion control standards and requirements. Soil impacts are anticipated to be short-term, and with the implementation of mitigation measures to avoid impacts to the surrounding areas, no significant impacts are anticipated.
3.2.3 FIRE HAZARDS

3.2.3.1 EXISTING CONDITIONS

There are no known existing fire hazards at the Lilipuna Road property or on Coconut Island except for potential fire from existing facilities on the island. The first station to respond in case of a fire on Coconut Island would be the Kāne‘ohe Fire Station located across the street from the Kāne‘ohe Police Station and Kāne‘ohe Public Library on Waikalua Road. Response time is approximately five minutes to the pier. Emergency personnel and equipment would be transported to the island via Lilipuna Pier by Honu Kai, the support vessel that carries visitors to the island. The secondary response station would be the Aikahi Fire Station located on Kāne'ohe Bay Drive near Kailua Wasterwater Treatment Plant. This station would either take the Honu Kai from Lilipuna Pier or a shuttle from Marine Corps Base Hawai‘i (MCBH). Neither fire stations are equipped with a fire boat or rescue boat on site. A vessel would be requested from the Fire Alarm Bureau or the Fire Department’s central dispatching office in case of an emergency.

3.2.3.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

No significant impacts are expected under the No Action Alternative. Existing potential fire hazards posed by the current conditions would remain the same.

Preferred Alternative

No significant impacts are expected under the Preferred Alternative. Construction activities for the Proposed Action will not affect the existing conditions of the fire hazards at the project site as construction practices for fire safety will be implemented in accordance with State and City and County guidelines. These practices include proper fire safety practices and fire hazard awareness for contractors on the work sites. Prior to drilling activities for the utility line replacement, the project sites will be surveyed for the presence of overhead and underground utilities. Daily equipment inspections will be conducted and all vehicles and equipment brought on site will be in proper working condition. All vehicles and equipment will be mounted with appropriately rated fire extinguishers, and additional fire extinguishers will also be available at the project site. All on-site workers will be aware of the locations and operation of fire extinguishers. On-site workers will also be aware of the flammability properties of the chemicals they are working with and their proper storage requirements, and important safety information such as emergency contact numbers, proper emergency evacuation procedures, and designated smoking areas (if smoking is permitted on site). Implementation of these mitigation measures will reduce the potential impact of fire hazard to less than significant at all work sites.
3.2.4 NATURAL HAZARDS: FLOODS, EARTHQUAKES, TSUNAMIS

3.2.4.1 EXISTING CONDITIONS

The Island of O'ahu has the potential to be impacted by several natural hazards including flooding, earthquakes, and tsunamis.

**Floods**

Flood hazard areas are delineated by Flood Insurance Rate Maps (FIRMs) prepared by the Federal Emergency Management Agency (FEMA), National Flood Insurance Program (NFIP). The Lilipuna Road property is categorized as Zone X and defined as an area outside of the 0.2 percent (500-year flood) annual chance floodplain (Figure 6). NFIP does not designate a flood zone for Coconut Island.

**Earthquakes**

In Hawai’i, earthquakes are generally linked to volcanic activity and occur thousands of times annually; the vast majority of which are at a very small magnitude. Significant earthquakes have recently originated on the Island of Hawai’i; the most notable of which occurred at a magnitude of 4.9 on August 11, 2012 (USGS, 2013). According to the USGS map of Hawai’i Seismic Zone Assignments established in 1997, O'ahu lies in a seismic zone designated as Zone 2A; in which the zoning ranges from 0 (no chance of severe ground shaking) to 4 (10 percent chance of severe shaking in a 50-year interval) (USGS, 2001).

**Tsunamis**

A tsunami is a series of great waves, typically the result of a violent displacement of the seafloor. Tsunamis are characterized by high speeds (up to 560 miles per hour), long wave lengths (up to 120 miles), and long periods between successive wave crests (up to several hours). Tsunamis have the potential to inundate the coastline, causing severe property damage and/or loss of life. Located in the middle of the Pacific Ocean, Hawai’i is susceptible to tsunamis from earthquakes and tsunamis generated in the Pacific Rim of Fire. Although surrounded by a barrier reef that dissipates much of the wave energy and protects the island, Coconut Island and the Lilipuna Road property are within the tsunami evacuation zones (NOAA, 2013).
COCONUT ISLAND INFRASTRUCTURE REHABILITATION AND REPLACEMENT PROJECT
FLOOD HAZARD MAP
KÅNE'OHE, O'AHU, HAWAI'I

Legend

- **Project Site**

Flood Hazard

- **Zone A**
  Areas with a 1% annual chance (100-year flood) of flooding and no base flood locations determined.

- **Zone D**
  Areas with possible but undetermined flood hazards. No flood hazard analysis has been conducted.

- **Zone X**
  Areas outside the 0.2% annual chance (500-year flood) of flooding.

- **Zone X500**
  Areas with 0.2% annual chance (500-year flood) of flooding.

References:

3.2.4.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

No significant impacts to natural hazard vulnerability would result from the No Action Alternative. Susceptibility to natural hazards will remain unchanged within the project area.

Preferred Alternative

The Preferred Alternative would not result in change to the natural hazards boundaries of floods and tsunamis, and would not significantly affect the generation of a natural hazard.

Construction activities proposed under the Preferred Alternative have the potential to be impacted by flooding events. A limited amount of ground surface is expected to be exposed temporarily during ground disturbing and trenching activities, which may increase the potential for runoff during flooding events. Adverse impacts during flooding events will be minimized by both temporary and permanent erosion and sedimentation control measures such as silt fences or grass block pavers in and around the areas where ground surface is exposed.

If a natural hazard occurs during construction activities, all site work will cease until it can be resumed safely.

3.2.5 BIOLOGICAL RESOURCES

3.2.5.1 EXISTING CONDITIONS

A terrestrial flora and fauna survey as well as marine surveys were conducted by SWCA Environmental Consultants (SWCA) on September 20, 2013 to document the existing terrestrial and nearshore marine natural resources that may be impacted by the Proposed Action (SWCA, 2013). The surveys were conducted within seven specific areas where construction activities are anticipated to take place or where impacts from construction may occur. These areas included the staging area for the HDD installation located at the Lilipuna Road property where boring is to start; two receiving areas where the utility lines are to exit the underground borings on Coconut Island; the short stretch of roadway between the two on-island receiving areas which may be used as a temporary staging area for equipment and material during the construction period; Lighthouse Pier; the pool house and its vicinity by North Lagoon where rerouting of the existing gravity sewer line will be conducted; and the sewer pump located on the east side of the island. The following is a summary of the findings of the survey. The complete Biological Resource Assessment, which includes a complete species list of the marine organisms found within the surveyed areas, is included as Appendix D.
Flora
No state or federally listed threatened, endangered, or candidate plant species, or rare native Hawaiian plant species were observed within the surveyed areas, and no designated plant critical habitat occurs within the areas. The vegetation observed within the project area is disturbed from previous and current land use activities, thus the vegetation types and species identified are not considered to be unique to the site. Of all 90 plant species observed at the site, only three species; naupaka (Scaevola taccada), hau (Hibiscus tiliaceus), and milo (Thespesia populnea) are considered to be native to the Hawaiian Islands.

Fauna
Twelve (12) bird species were documented during the survey. These species are typically found in gardens and parklands, and included two species of migrant shorebirds: the wandering tattler (Tringa incana) and Pacific golden plover (Pluvialis fulva), as well as the native great frigate bird (Fregata minor). The wandering tattler and Pacific golden plover were mainly observed in the vicinity of the pool house at North Lagoon. Approximately 30 individuals of the native great frigate birds were observed soaring above North Lagoon. Additionally, several individuals of Hawaiian duck-like ducks (Anas sp.), likely to be mallard-Hawaiian duck hybrids, were observed swimming in the waters in the vicinity of the Lighthouse Pier. Although not observed, black noddies (Anous minutus) are known to forage in Kāne’ohe Bay. They could occasionally forage in the nearshore waters of Coconut Island and may forage near the Lighthouse Pier.

Although surveys for the Hawaiian hoary bats were not conducted, they are known to be strong fliers and could possibly fly to Coconut Island to roost or forage. Tree species such as coconut and mango (Mangifera indica) that are known to be forage trees for the Hawaiian hoary bats are present on the island but were not observed within the surveyed areas. No other mammals, reptiles and amphibians, or invertebrates were observed during the survey. Mammals that are expected on the island include rats and mice. The introduced monarch butterfly (Danaus plexippus) and the introduced honey bee (Apis mellifera) have been documented on the island.

Marine Community
Marine surveys were conducted at four locations by snorkeling or through above-surface observations where it was not safe to enter the water. Three of these locations were on Coconut Island and included the Lighthouse Pier, the receiving area for the water/electric lines, the pool house and vicinity at North Lagoon. The fourth location was the nearshore areas adjacent to Lilipuna Pier. These areas were where in-water work was anticipated (i.e., the Lighthouse Pier) or where anticipated earthwork was close enough to the water that runoff may affect the water quality or the marine organisms in the water.

Location 1: Lighthouse Pier on Coconut Island
The survey at the Lighthouse Pier was conducted by snorkeling along the seaward edge of the pier and looking under the pier to the maximum extent possible. Marine species present within 12 feet
from the pier were also recorded. Due to the unstable condition of the pier, without exceptions, no personnel are allowed on or under the pier. Large pieces of concrete that have detached from the pier and fallen beneath it were observed during the survey. While it was not possible to see all the way to the back of the pier, little to no coral was observed at depths greater than 6.5 feet possibly due to the limited availability of light.

Coral cover increased from about 6.5 feet under the edge of the pier to 12 feet beyond the pier. High coral cover (over 50 percent from a visual estimate) was observed from the edge of the pier out onto the slope. Four coral species: lace coral (*Pocillopora damicoris*), finger coral (*Porites compressa*), rice coral (*Montipora capitata*), and crust coral (*Leprastrea purpurea*) were observed within the area. Most of the coral cover consisted of large colonies of rice coral, largely plate-like in form, intermixed with some branching forms. Away from the pier where there was greater light penetration, finger coral contributed a substantial part of the high coral cover. Large plate-like colonies of rice coral were observed to at least 20 feet off the pier. Most of the living corals seemed to extend farthest out from the midpoint of the pier. Small colonies of lace coral and crust coral occurred throughout the area. SWCA specifically searched for colonies of blue rice coral (*Montipora flabellata/dilatata/turgescens*) and spreading or sandpaper rice coral (*Montipora patula/verrilli*), which have been proposed for listing by NOAA (2012) but did not observe either of these coral species at the Lighthouse Pier.

Zonation of biota was evident on the piles supporting the pier. In the upper 4 to 8 inches, there were very large (greater than 4 inches) Japanese oysters (*Crassostrea gigas*). Below the Japanese oysters, smaller oysters (*Crassostrea* sp. and *Spondylus violacescens*) were observed in high densities. Rice corals and orange sponge (*Mycale armata*) dominated the lowest parts of the pilings. Very large colonies of the orange sponge, an invasive alien sponge, were observed near the bases of most of the pilings.

Fish diversity was the highest of all surveyed areas at the Lighthouse Pier where 20 fish species were observed. Common species included damselfishes (e.g., kupipi, the Hawaiian or Indo-Pacific sergeant), surgeonfishes (e.g., manini and sailfin tangs [*Zebrasoma veliferum*]), wrasses (e.g., Hawaiian hogfish [*Bodianus bilunulatus*], and saddle wrasse [*Thalassoma duperrey*]) as well as juvenile parrotfishes. Although not observed during the survey, the threatened green sea turtle (*Chelonia mydas*) has occasionally been seen in waters at the Lighthouse Pier.

**Location 2: Water/Electric Lines Receiving Area on Coconut Island**

Two nearshore areas, which are downslope of the water/electric lines receiving area and may be affected by the runoff during construction period were surveyed: a small cove (“Shallow Bay”) and the floating dock area (“Floating Dock”).

At “Shallow Bay,” the bottom adjacent to the seawall was completely covered with gorilla ogo (*Gracilaria salicornia*). Large cells of the green alga, sailor’s eyeballs (*Ventricaria ventricosa*) and the conspicuous sea cucumber, (*Opheodesoma spectabilis*) were common in this area. On the concrete
seawall grapsid crabs (Family Grapsidae) and littorinid snails (Family Littorinidae) were observed. Beyond the gorilla ogo–covered area, approximately 33 feet from shore, the substratum consisted of sand with scattered rubble of dead coral heads. Benthic native species were present in this area with scattered live coral heads of rice coral (Montipora capitata), finger coral (Porites compressa), and lace coral (Pocillopora damicornis) attached to hard surfaces. Juvenile parrotfishes and schools of bait fish, possibly nehu, were observed in the water.

Boat traffic and the floating docks prevented safe entry into the water, therefore survey at the “Floating Dock” consisted of visual inspection of the shallow substratum (approximately 3 feet from the surface) from the seawall and dock. The most common coral species attached to the seawall were the rice coral with a few small colonies of finger coral and a few colonies of crust coral. The swimming anemone (Boloceroides mcmurrichi) was also fairly common. The natural substratum below the seawall had relatively greater densities of rice coral and finger coral. Algae were not conspicuous, and no invasive algae or sponges were observed. Other species observed on the seawall were grapsid crabs, including the rock crab (Metapograpsus thukuhar) and the dotted periwinkle (Littoraria pintado). Fish species present in the area included damsel fishes such as kupipi (Abudefduf sordidus), juveniles of the Hawai‘i sergeant (Abudenduf abdominalis), and perhaps possibly the Indo-Pacific sergeant (Abudefduf vaigensis) or hybrids of the two species. Surgeonfishes such as the manini (Acanthurus triostegus) and unidentified gobies were also present. The Hawaiian dascyllus (Dascyllus albisella) have been observed at this location, but were not seen during this survey.

Location 3: Pool House and Vicinity Areas at North Lagoon

Surveys were conducted along the edge of North Lagoon out to roughly 10 feet. Visibility was poor at depths greater than approximately 10 feet due to the fine silt. Most of the lagoon floor along the edge of the lagoon, particularly in the southern part of the lagoon, is covered by the invasive gorilla ogo. Small amounts of another introduced alga, Acanthophora spicifera were also observed. Other alga such as very large cells of sailor’s eyeballs and several sponge species including the introduced lobate sponge (Suberites zeteki) and invertebrates such as the feather duster worm (Sabellastarte spectabilis), glass anemone (Aiptasia pulchella), and the solitary tunicate, the black sea squirt (Phallusia nigra) were embedded in the gorilla ogo algal mat. Abundant conspicuous sea cucumbers were present on top of the algal mats.

Only a single small head of rice coral and another small head of lace coral were noted in this location. The mangrove roots that dominated the northern side of the lagoon were colonized by green algae (Caulerpa spp.) and a variety of sponges. The silty substratum of the lagoon floor was densely occupied by burrows. Burrows constructed by gobies and acorn worms were observed. Snapping shrimp (Family Alpheidae) could be heard throughout the entire survey. Other burrow-dwelling organisms such as crabs, polychaete worms, shrimps, stomatopods (mantis shrimps), sipunculans (peanut worms) are also likely present; however, a survey of the soft sediment infauna was considered beyond the scope of this survey.
In the vicinity of the two openings of North Lagoon to Coconut Island reef, conditions were somewhat different where sediments were coarser, consisting of sand and gravel instead of silt due to greater water motion. Very small juvenile fishes, likely new recruits, swam in the open water and included damselfishes, the Hawai‘i sergeant, and perhaps possibly the Indo-Pacific sergeant or hybrids of the two species, and the surgeonfish, manini. Bait fish, probably nehu, were abundant in the water column. Overall, fish and coral diversity and abundance were low in North Lagoon.

**Location 4: Lilipuna Pier**

The nearshore area on either side of Lilipuna Pier was surveyed from the shoreline and from the top of the pier. Visual survey was conducted from the shoreline to 33 feet beyond the shoreline. The shoreline at Lilipuna Pier is composed of lava rocks ranging from the size of boulders to small pebbles. Coral rubble is present in the intertidal area, and immediately seawards in the subtidal zone, clumps of the invasive algae gorilla ogo were visible.

### 3.2.5.2 POTENTIAL IMPACTS AND MITIGATION

**No Action Alternative**

The No Action Alternative may potentially result in negative impacts to the biological resources in the project area. If the sewer force main is not replaced in the near future, there is a possibility of failure due to its age and a possible sewage spill into Kāne‘ohe Bay, which could have detrimental effects to the marine resources that currently exist in the bay. In addition, as evident by the fallen slabs of concrete found under Lighthouse Pier during the biological survey, the pier is in disrepair, and if the pier is not rehabilitated, there will be continued negative impacts to the marine species that currently exist in the water surrounding the pier.

**Preferred Alternative**

No threatened or endangered plant or animal or marine species nor candidate species were found during the flora, fauna, and marine survey of the project area. The project area does not encompass any designated or proposed critical habitat for threatened or endangered species. Several terrestrial and marine species that may temporarily be impacted during the construction period exist in the project area; however, with the implementation of the proposed best management practices (BMPs) during the construction period, no long-term significant impacts to these biological resources are anticipated under the Preferred Alternative.

**Fauna**

Construction may temporarily displace the wandering tattler and Pacific golden plover if conducted during the migration season. However, it is expected that these birds would return when construction is complete, and no long-term impacts are expected. Similarly, black noddies may be temporarily displaced during the rehabilitation of the Lighthouse Pier, but the displacement is expected to be temporary and no long-term impacts are expected. Great frigate birds typically fly at high altitudes and are not expected to be affected by the Proposed Action.
Although night-time construction work is not anticipated for the proposed project, if lighting is required, it will be shielded and directed downward to reduce the likelihood of impact to seabirds that may fly over the project area.

Additionally, there is a low probability that endangered Hawaiian waterbirds including the Hawaiian stilt, Hawaiian coot, and Hawaiian moorhen may be observed within the vicinity of the project area. The following measures will be taken to avoid and minimize impacts to the waterbirds if encountered:

- Any documented nests or broods within the vicinity of the project area will be reported to the United States Fish and Wildlife Service (USFWS) within 48 hours.
- A 100-foot buffer will be established and maintained around all active nests and broods until the chicks/ducklings have fledged. No potentially disruptive activities or habitat alteration will occur within this buffer.
- If a listed Hawaiian waterbird is observed within the project area or flies into the area, all activities within 100 feet of the individual(s) will halt. Work will not resume until the waterbird(s) leave the area on their own accord.

**Marine Organisms**

At the Lighthouse Pier where in-water work is expected, work will be timed to be conducted during high tide to minimize impacts to the marine resources present in the area. SWCA estimates that there would be approximately 6 feet of water above the shallowest coral at low tide. The west end of the pier where the landing ramp is located, living corals are present in much shallower depths (approximately 2 feet at low tide). In-water work in this area will be avoided to prevent damage to the corals. There will be no work on the pilings underwater where the corals are attached; therefore, no impacts to the corals attached to the pilings are anticipated. All in-water work will be scheduled to avoid the spawning period for most coral species, which is April through August in Hawai‘i.

Although not observed during the survey, the threatened green sea turtle and Hawaiian monk seal (*Monachus schauinslandi*) have occasionally been seen in waters at the Lighthouse Pier. Construction activities at the pier could potentially displace these species from the surrounding water; however, displacement is expected to be temporary, and no long-term impacts to the green sea turtles or Hawaiian monk seals are expected. All on-site project personnel will be notified of the potential presence of these listed species and the protections afforded to them. In-water work will cease if these species are seen within 50 yards of the in-water construction area until they voluntarily leave the area. Any construction-related debris that may pose an entanglement threat will be removed from the construction area at the end of each day and at the conclusion of the construction project. Although not anticipated, any incidental take of marine mammals will be reported immediately to the National Oceanic and Atmospheric Administration (NOAA).
During the construction period for the remaining work items included in the Proposed Action (i.e., utility line replacement, re-routing of the gravity sewer line, sewage pump replacement and wetwell repairs), any runoff from earth disturbing activities will be contained by using silt fences so that impacts to the surrounding waters are minimized. Applicable USFWS Recommended Standard BMPs for HDD will be implemented during the utility line replacement to minimize potential impacts to the water quality and biological resources. Although no in-water work is anticipated during construction activities to re-route the existing sewer line at North Lagoon, extra caution will be taken to ensure that runoff does not enter the water when the existing sewer pipe is excavated on land.

**Invasive Species**

Although no underwater work on the pilings of the Lighthouse Pier is anticipated, in order to prevent spreading of the invasive orange sponge present on the existing pilings, care will be taken to minimize creation of sponge fragments during construction. Established outcrops of introduced and invasive macroalgae including the gorilla ogo and *Acanthophera spicifera*, which were observed during the marine survey conducted by SWCA, as well as *Eucheuma denticulatum* and *Kappaphycus* spp. are present in the submerged areas of Coconut Island and Lilipuna Pier. Disturbance to these species may result in fragmentation, allowing attachment to machinery and materials, and possible deposition in habitats outside of the project area. These species have the ability to settle on substrate and overgrow and smother living coral colonies; therefore, BMPs to prevent spreading of invasive species must be implemented during project activities. This will include placement of silt containment devices to minimize movement of suspended fragments, curtailment of work during adverse tidal and weather conditions, and cleaning of equipment to prevent spreading of the invasive species to other waters.

### 3.2.6 WETLANDS

#### 3.2.6.1 EXISTING CONDITIONS

The USACE defines wetlands as those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Coastal wetlands are important to the ecosystem and provide a critical interface between terrestrial and marine habitats. They also provide various functions such as buffering the coastline, capturing sediment, and retaining and transforming nutrients. However, wetlands do have a sediment and nutrient loading threshold which, once crossed, can lead to degradation and loss of the wetland (Bruland, 2008).

The USFWS National Wetland Inventory identifies the project site lying within Estuarine and Marine Deepwater, which is Kāneʻohe Bay. No wetland falls within 2,000 feet of Coconut Island or the Lilipuna Road property (Figure 7). Based on publicly available data, none of the distant wetlands are identified as critical habitats for any threatened or endangered species.
3.2.6.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

No significant impacts to wetlands would result from the No Action Alternative. Loss or destruction of existing wetlands resources is not anticipated as no construction activities would take place under the No Action Alternative.

Preferred Alternative

The Preferred Alternative would not result in loss or destruction of existing wetland resources based on the distance between existing wetlands and the project site. Since the project site is geographically separated from any type of wetland by Kāneʻohe Bay, there is an extremely low potential for on-site project water and/or debris to flow off and reach any distant wetland. Mitigation measures will be taken to prevent any runoff of on-site project water and/or debris from flowing into Kāneʻohe Bay during construction, including silt fences and State/City and County-approved BMPs.

3.2.7 WATER RESOURCES

3.2.7.1 EXISTING CONDITIONS

Kāneʻohe Bay is classified as Class AA marine water. Class AA waters are intended to “remain in their natural, pristine state as is possible with an absolute minimum of pollution or alteration of water quality from any human-caused source or actions. To the extent practicable, the wilderness character of these areas must be protected. No zone of mixing is permitted in this class (DOH, 2012).

The Lilipuna Road property is located within the Koʻolauloa aquifer system (Figure 8). The two aquifers (30603116 (12211)/30603122 (11122)), where the Lilipuna Road property is located, are located in a coastal plain where sedimentary caprock aquifers rest on primary basalt aquifers, which is why they are denoted with a slash between them to indicate the upper and the lower aquifer. The upper aquifer (30603116(12211)) is basal (fresh water in contact with seawater), unconfined, and sedimentary. It is classified as ecologically important, and has a low salinity of 250-1000 milligrams per liter (mg/L) chloride (Cl⁻). This aquifer is irreplaceable with a high vulnerability to contamination. The lower aquifer (30603122 (11122)) is classified as a basal, confined (aquifer is bounded by impermeable or poorly permeable formations; top of the saturated aquifer is below the surface of the groundwater), and dike aquifer. It has the potential for use as drinking water (utility), with a salinity of less than 250 mg/L Cl⁻. This aquifer is replaceable with a moderate vulnerability to contamination (Mink and Lau, 1990).

The aquifer (30603212 (11111)) located inland of the Lilipuna Road property is categorized as a high level (fresh water not in contact with seawater), unconfined (the water table is the upper surface
of the saturated aquifer), dike (aquifers in dike compartments) aquifer system. This aquifer is currently used as drinking water (utility) with a salinity of less than 250 mg/L Cl-. It is an irreplaceable aquifer with high vulnerability to contamination. Coconut Island is not located within any aquifer sector (Mink and Lau, 1990).

3.2.7.2 POTENTIAL IMPACTS AND MITIGATION

**No Action Alternative**

The No Action Alternative may potentially result in negative impacts to Kāne‘ohe Bay. Due to its age, the sewer force main has a potential to fail if not replaced in the near future. A sewer spill would have a detrimental impact on the water quality of Kāne‘ohe Bay. In addition, without the re-routing of the existing gravity sewer line, there is a potential that the portions of the sewer line where they cross over the water surface of North Lagoon may fail in the future due to corrosion and negatively impact the lagoon water quality.

**Preferred Alternative**

Potential impacts to the water quality of Kāne‘ohe Bay may occur during release of drilling mud during the HDD installation. Drilling mud is pumped into the void left by the drill head to seal and stabilize the sides of the borehole, cool and lubricate the drill bit and shaft, and carry cuttings out of the hole. The mud is a mixture of water and bentonite, which is a natural occurring clay. Release into the bay may occur when pressure created within the bore hole by the flow of the bentonite causes the soft material above to fracture or when layers of loose gravel or fractured rock are encountered along the bore hole route. Release of bentonite is more likely to occur at shallower depths close to shore as opposed to deeper depths beneath the seafloor in the middle of the bay. The loss of bentonite and drilling pressure is an indication that there is a leak. Prevention of bentonite seepage will be a major consideration in the design, and monitoring procedures during drilling will ensure that inadvertent release of bentonite into Kāne‘ohe Bay is prevented.

Geotechnical borings will be taken along the proposed alignment to profile the type of soil and rock to be encountered and establish the burial depth and bentonite mixture to stabilize the borehole. During construction, the Contractor will be required to continuously monitor for any inadvertent release of mud into Kāne‘ohe Bay. Monitoring procedures will include, but not be limited to: 1) continuous visual inspection along the drill path, 2) monitoring drilling mud pressure gauges and return flows to the surface pits, and 3) monitoring of drill status information regarding drilling conditions. If the release of drilling mud is detected, operations will immediately cease. Silt curtains will be deployed to contain the suspended sediment.

In addition, sediment barriers such as silt screens and sand bags will be placed around the inlet and exit pits to protect the neighboring sites and Kāne‘ohe Bay from the potential impacts from runoff. With the implementation of these mitigation measures, no significant impacts to water resources are anticipated under the Preferred Alternative.
3.2.8 HAZARDOUS AND TOXIC MATERIALS CONSIDERATIONS

3.2.8.1 EXISTING CONDITIONS

The FEIS prepared for the LRDP (Group 70 International, 2004) describes in detail the hazardous materials storage and waste disposal history of HIMB. The FEIS indicates that some hazardous waste material is generated from the experimentation and operations conducted at Coconut Island. These items primarily include cleaning agents, materials required for the island’s research purposes, and waste products from experimentations. Hazardous waste generated on the island is transported and disposed of off-island at certified sites by a commercially licensed and certified hazardous waste vendor, which has been approved by UH. The FEIS also identified that two Underground Storage Tanks (USTs) are present at Coconut Island, but are permanently out of use. A previous petroleum release from one UST was identified and reported to the State of Hawai‘i Department of Health (DOH) (Release I.D. #950122). This release, however, was satisfactorily addressed and received a “no further action” letter dated May 10, 2002.

3.2.8.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

The No Action Alternative would not result in any changes to the project site. Therefore, no significant impacts are expected from the No Action Alternative.

Preferred Alternative

The Preferred Alternative would not result in any significant impacts to the project site from hazardous or toxic materials. Generation of any hazardous or toxic material as a result of the Preferred Alternative is not expected. Construction activities will temporarily increase traffic flow and therefore, increase the potential for pollution from petroleum products from vehicular traffic as well as from large equipment use. Mitigation measures include proper maintenance and proper use of all equipment during construction. Additionally, State approved BMPs will be used to reduce any potential negative impacts from equipment and vehicle use. This includes use of oil absorbent pads under equipment requiring maintenance and use of petroleum products. With the implementation of mitigation measures, no significant impacts to the project site from hazardous or toxic materials are expected.

3.2.9 CLIMATE AND AIR QUALITY

3.2.9.1 EXISTING CONDITIONS

The prevailing winds on O‘ahu (known as trade winds) are from the east-northeast, with a mean wind speed of 10.6 miles per hour. The trade winds prevail approximately nine months of the year,
from February to November. During the winter months, winds tend to be less predictable, with longer periods of light and variable winds, and occurrences of strong southerly or “Kona” winds associated with weather fronts and storms. The average annual temperature in Kāne‘ohe ranges from 68.8 to 79.8 degrees Fahrenheit (°F) with an annual average total precipitation of 76.03 inches. The wettest months of the year are during November through February (WRCC, 2002).

Based on the 2009 air quality data collected at the Waimanalo station, the closest air monitoring station to Coconut Island, PM$_{10}$ (i.e., particulate matter with a diameter of ten micrometers or less) concentrations in the region are well below the National Ambient Air Quality Standards (NAAQS) set by the U.S. Environmental Protection Agency (EPA) (World Media Group, 2013). Major sources of PM$_{10}$ include smoke, soot, dust, salt, acids, and metals from industrial and agricultural activities, motor vehicles, power plants, fires, and windblown dust. When inhaled, these particles can potentially cause respiratory health problems. The main source of air pollutants if any, in the vicinity of Coconut Island, is most likely emissions from aircraft operations at MCBH. However, there are no known significant sources of air pollutants within the project area.

3.2.9.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

No significant impacts to air quality would result from the No Action Alternative as the existing project site conditions would remain the same. No change to the climate or air quality is expected from the No Action Alternative.

Preferred Alternative

The Preferred Alternative would not have a significant impact on air quality. Dust may be generated during construction activities. Dust abatement measures during construction activities will be implemented to include watering of roads and project sites if necessary. A slight increase in vehicular traffic due to construction is anticipated. However, this would be temporary, and short-term impacts from exhaust emissions from construction vehicles are anticipated to be minimal. Overall, potential impacts to air quality resulting from short-term changes are minimal and not significant. Mitigation measures for the proposed project will comply with the DOH Administrative Rules, Title 11, Chapter 60-11.1 “Air Pollution Control.” These measures include watering the project site during construction activities.

3.2.10 NOISE

3.2.10.1 EXISTING CONDITIONS

Noise impacts from construction-related activities are regulated under the HAR, DOH, Title 11, Chapter 46, Community Noise Control. The project site is zoned as P-1 Restricted and R-10
Residential; and as such falls into Class A under the DOH regulations, with a maximum daytime permissible sound level of 55 decibels (dBA) (7:00 a.m. to 10:00 p.m.) and 45 dBA at night (10:00 p.m. to 7:00 a.m.) (DOH, 1996). Noise levels exceeding the maximum permissible sound levels for more than ten percent of the time within any twenty minute period will require a permit or variance issued under sections HAR Title 11, Chapter 46.

Noise generated within the project area is primarily attributable to the shuttle boat service between Lilipuna Pier and Coconut Island as well as external noise generated from machinery use from research activities on the island. In addition, over flights from MCBH are major off-island noise sources. Coconut Island is in the flight path of aircraft that take off and land on the base aviation facilities.

3.2.10.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

No significant impacts to noise are expected to occur under the No Action Alternative.

Preferred Alternative

In general, noise due to construction equipment is between 70-100 dBA (FHWA, 2011); with earth-moving equipment having the loudest impacts. Noise disturbances to the surrounding area may occur during the construction period. BMPs, such as mufflers and noise barriers, and proper work practices would be employed to adhere to DOH regulations. If noise impacts are expected to exceed the maximum permissible sound levels for Class A, a noise permit may be obtained from DOH, and sound barriers may be required. Significant impacts to noise as a result of this project would mainly be due to short-term construction activities. With mitigation measures implemented, noise impacts from the Preferred Alternative would be reduced to less than significant.

Marine mammals that are kept in the enclosure pen across from Lighthouse Pier may be impacted by the noise generated during construction activities at the pier. Impacts, however, will be temporary and are not expected to be significant since these mammals are regularly exposed to the noise generated by over flights from MCBH.

3.3 SOCIAL ENVIRONMENT

3.3.1 LAND USE CONSIDERATIONS AND ZONING

3.3.1.1 EXISTING CONDITIONS

The project area includes five parcels of land totaling approximately 30.2 acres. The two TMK parcels (3)4-6-001:001 and 051 that comprise Coconut Island are designated as Conservation
according to the State of Hawai‘i Land Use Commission (LUC) district classifications (Figure 9). The county zoning designation of these two parcels is P-1, restricted preservation (Figure 10). The three TMK parcels (3)4-6-001:015, 016, and 017 that make up the Lilipuna Road property as well as the land parcels that surround these parcels are designated as Urban by the State LUC district classification and as R-10, residential by the City and County zoning designation (Figure 9 and Figure 10). The project area is outside of the Agricultural Lands of Importance to the State of Hawai‘i (ALISH) designation (Figure 11). The land parcel information of the project area is summarized in Table 3-1.

Table 3-1: Land Parcel Information of the Project Area

<table>
<thead>
<tr>
<th>Tax Map Key (TMK) Number</th>
<th>Parcel Area (acres)</th>
<th>State Land Use District</th>
<th>City and County Zoning Designation</th>
<th>Fee Owner</th>
<th>Lessee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coconut Island</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(3)4-6-001:001</td>
<td>12.5</td>
<td>Conservation</td>
<td>P-1, Restricted Preservation</td>
<td>University of Hawai‘i Foundation</td>
<td>University of Hawai‘i</td>
</tr>
<tr>
<td>(3)4-6-001:051</td>
<td>16.3</td>
<td></td>
<td></td>
<td>State of Hawai‘i</td>
<td></td>
</tr>
<tr>
<td>Lilipuna Road Property</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(3)4-6-001:015</td>
<td>0.4772</td>
<td>Urban</td>
<td>R-10, Residential</td>
<td>University of Hawai‘i Foundation</td>
<td>University of Hawai‘i</td>
</tr>
<tr>
<td>(3)4-6-001:016</td>
<td>0.4914</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(3)4-6-001:017</td>
<td>0.4389</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Project Site: Lilipuna Road Property

Project Site: Coconut Island

Kāne‘ohe Bay

Legend

- Project Site
- City and County Zoning
  - P-1 Restricted
  - P-2 General
  - R-10 Residential
  - R-7.5 Residential

Reference:
State of Hawai‘i Office of Planning, 2012
3.3.1.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

The No Action Alternative would not have any impacts to land use and zoning. The existing conditions would remain the same and the land use and zoning is expected to remained unchanged.

Preferred Alternative

The Preferred Alternative would not have any adverse impacts to the existing land uses or zoning within and around the project area. Use of Coconut Island as a marine research facility will be enhanced by the proposed improvements to the existing infrastructure on the island. Temporary impacts to the use of the parking lot area are expected during construction activities; however, due to the limited duration of the construction period, impacts are expected to be minimal. None of the proposed work items are expected to permanently alter the current land use within the project area or affect surrounding land uses; therefore, no potential impacts are expected.

3.3.2 HISTORICAL AND ARCHAEOLOGICAL CONSIDERATIONS

3.3.2.1 EXISTING CONDITIONS

The Archaeological Inventory Survey of Coconut Island conducted by Scientific Consultant Services (SCS), Inc. (SCS, 2003), which is included as an appendix to the FEIS prepared for the LRDP of Coconut Island (Group 70 International, 2004), was reviewed to determine whether significant historical and archaeological resources that may be impacted by the Proposed Action exist in the project area. The following provides a summary of the survey results.

3.3.2.2 HISTORIC BACKGROUND

Coconut Island, also known as Moku O Lo’e, was part of the He’eia Ahupua’a, and was an integral part of the local and regional fisheries. Because of the lack of a permanent source of freshwater, the island was probably never permanently occupied but was utilized by local fishermen for short-term habitation during exploiting the shallow reef resources of Kāneʻohe Bay. During the Great Mahele, the island was designated as Crown land and was included in Land Commission Award (LCA) 10613 (apana 1) to Abenera (or Abner) Paki, the father of Bernice Pauahi Bishop. Bernice inherited the island after Pake’ s death in 1857, and eventually passed it on to her husband upon her death in 1884. The island became part of the Bernice Pauahi Bishop Estate in 1890, which leased the island to various parties. Christian Holmes began leasing the island by the late-1920s or early-1930s, eventually purchasing the island from the Bishop Estate in 1936. Holmes completely transformed the island while he turned it into his private estate and retreat. Following the Japanese invasion in 1941, the island was leased to the U.S. military until it was sold to a group of five mainland businessmen in 1946 after Holmes’ death in 1944. Edwin W. Pauley, one of the five businessmen,
eventually bought out the other partners and relocated HIMB (at the time known as the Hawai’i Marine Laboratory) to Coconut Island in 1947. After a succession of land ownership changes from the 1950s through the 1990s, the Edwin W. Pauley Foundation eventually donated the island to its current owner, the University of Hawai’i Foundation.

### 3.3.2.3 ARCHAEOLOGICAL INVESTIGATIONS

Three archaeological studies have been conducted at Coconut Island (Erkelens, 1996; Klieger and Lebo, 1997; Leidemann, 1997) prior to the inventory survey conducted by SCS. None of these studies found evidence of traditional cultural materials, human remains, or burials; however, they did find a large number of historical features from the island’s major construction period during the 1930s. The studies also indicate that there is low probability of finding undisturbed subsurface remains of traditional Hawaiian culture based on the relatively intense construction and remodeling activities that have taken place on the island. All of the reports however do point out the possibility of finding burials on the island.

The objectives of the Archaeological Inventory Survey conducted by SCS in 2003 were to: (1) provide additional documentation and significance assessment for the Main House and Retreat House both originally built in the 1930s, (2) test (excavate) for evidence of possible burials purportedly relocated from other places on the island near the Main House, and (3) test (excavate) for evidence of possible traditional cultural occupation in the northern and northwestern portions of the island.

The results of the 2003 survey found no architecturally significant features, style, or masterful workmanship associated with the Main House and Retreat House, and concluded that no further work beyond the documentation made during the survey was required. Although no evidence of human remains or burials was found in any of the thirteen subsurface test units near the Main House, monitoring by a professional Archaeologist was recommended during any construction activity on the island.

The 2003 inventory survey was the first study to identify an intact subsurface traditional cultural material on Coconut Island. This material was designated State Site No. 50-80-10-6590 and consisted of flaked stone tools, charcoal, shell, and coral located 50 to 70 centimeters (cm) below ground surface in a beach sand sedimentary context in the extreme northern portion of the island. SCS concluded that this is a significant representation of traditional Native Hawaiian culture on Coconut Island and should be protected from future development.

In addition, the Archaeological Monitoring conducted by SCS during the mechanical and manual excavations associated with the island-wide new fire hydrant and water line installation project led to inadvertent identification of ten discrete subsurface features (SCS, 2012). The monitoring was conducted from September 13, 2010 through February 28, 2011. The ten features were consolidated into two archaeological sites: State Site 50-80-10-7204, a single charcoal lens; and State
Site 50-80-10-7205, a multi-component site comprised of two distinct cultural layers (SSFE 1 and SSFE 2), one posthole (SSFE 6), a sandy clay lens (SSFE 8), charcoal lens (SSFE 9), and human skeletal remains representing a minimum of four (MNI=4) individuals (SSFE 3, 4, 5, 7) which have been interpreted as in situ. Traditional-type, pre-Contact interments containing individuals of Native Hawaiian ancestry. With the permission of the landowners (UH and the UH Foundation), the four sets of human skeletal remains were preserved in place for perpetuity (SCS, 2011). Based on discussions with the State Historic Preservation Division (SHPD), a 37 square foot burial preserve with a low walled concrete cap and concreted buffer zone was established for State Site 50-80-10-7205 located along the east side of the main access road on Coconut Island. Protective buffers surrounding the Site (5 feet north, east, and south sides adjacent to the road corridor, and 3 feet on the west side) has been established, forbidding any type of ground surface disturbance except for maintenance of the naturally occurring short grasses or sedges within these areas. Furthermore, archaeological monitoring during all future improvements involving subsurface excavation at Coconut Island was recommended by SCS.

3.3.2.4 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

No potential impacts are associated with the No Action Alternative as no change to the current condition of project area would occur. There would be no loss or destruction of historic or archaeological resources and no infringement of State law.

Preferred Alternative

The re-routing of the existing gravity sewer line to be conducted around North Lagoon will not involve any work within State Site No. 50-80-10-6590 which is located immediately south of North Lagoon. According to the FEIS prepared for the Coconut Island LRDP (Group 70 International, 2004), the State Site is set aside as “open space” not to be developed, therefore no immediate danger of the site being destroyed is anticipated. Prior to trenching activities at North Lagoon, location of the State Site will be confirmed and marked to ensure that there are no impacts to the site. No impacts to State Site 50-80-10-7204 and State site 50-80-10-7205 are anticipated under the Preferred Alternative.

As recommended, archaeological monitoring will be conducted during all trenching and ground disturbing activities on Coconut Island proposed under the Preferred Alternative. If human osteological remains or a potential archaeological site are uncovered during construction, site work would cease and SHPD would be contacted in compliance with HRS Section 6E. Processes outlined in existing State regulations, specifically in HAR Title 13, Chapter 300 (Section 33 and Section 40) would be employed following discovery. These mitigation measures would ensure no loss or destruction of historic and archaeological resources, avoiding adverse impacts to potential sites, and ensuring compliance with State laws and regulations. These mitigation measures would reduce any potential impacts associated with the Preferred Alternative to a level of insignificance.
3.3.3 CULTURAL IMPACT ASSESSMENT (CIA) – HRS CHAPTER 343

3.3.3.1 EXISTING CONDITIONS

In order to assess the presence of significant cultural resources within the project area, the Cultural Impact Assessment (CIA) prepared in 2003 (Group 70 International, 2003), included as an appendix to the FEIS prepared for the LRDP of Coconut Island (Group 70 International, 2004), was reviewed. The following provides a summary of the assessment.

3.3.3.2 CULTURAL BACKGROUND OF PROJECT AREA

The project area is situated within the ahupua'a of He'eia within the mokuoloko (interior district) of Ko'olaupoko. Ko'olaupoko is one of the six interior land districts of O'ahu. Due to its vast abundance of natural resources, the regions of He'eia and Kāne'ohe were a preferential location for royal residence as early as the Voyaging Period (1000-1180 A.D.). Numerous native oral traditions and foreign accounts illustrate that the He'eia Ahupua'a was part of a larger and significant political and population center sustained by a variety of wetland agricultural practices and aquacultural activities.

With an extensive supply of freshwater stemming from several major tributary systems whose headwaters lie in the upper mountain regions of the Ko’olau Range allowed the land use patterns of the areas as a primary agrarian center. Historical accounts document that the He'eia Ahupua'a had been extensively cultivated in taro production from the pre-contact period until the early 1930s. Additionally, from Kualoa to Mōkapu, which includes the project area, over 23 fishponds were identified in the 1930s during an archaeological survey. He'eia fishpond located just southwest of the project area, with its wall length of 5,000 feet, is considered the longest wall of any fishpond in Hawai‘i and encircles an area of approximately 88 acres.

As a result of a decrease in native population, unused terraced irrigation fields that were once utilized for taro production were transformed into rice fields with the influx of Chinese and Japanese immigrants. By the late 1860s, a majority of the land in the He'eia Ahupua'a were utilized for sugarcane production that was emerging in the area. The sugarcane era was short lived however, with the emergence of other viable agricultural industries.

As for Coconut Island, its history was centered primarily around fishing activities in the area until Christian Holmes made major alterations to the island for it to serve as an area of rest and relaxation for both private and governmental interests. Latter owners of the island Edwin W. Pauley and the other members of the Moku O Lo'e Corporation’s vision to create a marine laboratory on the island recaptured the island’s traditional role as a center of learning and the sustainable uses of the ocean resources.
Recorded oral testimonies suggest that there were at least four individuals who were buried on Coconut Island. Two possible burial sites were identified and investigated during two archaeological studies (Leidamann, 1997; SCS 2003). No discovery of human remains or subsurface burial remains were reported during these investigations; however, as discussed in Section 3.2.2, during the Archaeological Monitoring conducted by SCS during the island-wide new fire hydrant and water line installation project human skeletal remains representing at least four individuals were inadvertently discovered. SCS recommended archaeological monitoring during all future excavation activities on island.

3.3.3.3 COMMUNITY CONTACT FINDINGS

As part of the effort in preparing the CIA in 2003, various agencies, organizations, community members, and cultural/lineal descendants with ties to He'eia were consulted to identify individuals that may have expertise/knowledge of the cultural practices and resources within the project area and the surrounding area. A summary of the organizations and individuals contacted during the course of the 2003 CIA as well as an informal format of the questions are included as an appendix to the CIA. As part of the preparation of this draft EA, pre-assessment letters that include the scope of this project were sent out to community members and organization that may have concerns over the project’s impact to the cultural resources within the area. Availability of the draft EA will also be sent to these individuals and organizations during the 30-day public review period so that they may provide input.

3.3.3.4 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

No significant impacts to cultural resources are anticipated under the No Action Alternative. No change to existing conditions is expected.

Preferred Alternative

No significant impacts are expected from the proposed activities of the Preferred Alternative. As indicated earlier in Section 3.2.2, archaeological monitoring will be conducted during trenching and ground disturbing activities on Coconut Island, and although unlikely, if human osteological remains or any potential culturally significant features are accidentally unearthed during construction, site work would cease and the SHPD would be contacted in compliance with HRS Section 6 and processes outlined in existing State regulations, specifically in HAR Title 13, Chapter 300 (Section 33 and Section 40) would be employed following discovery.
3.3.4 CIRCULATION AND TRAFFIC

3.3.4.1 EXISTING CONDITIONS

The Lilipuna Road property is located approximately at the mid-point of the Lilipuna Road loop and can be accessed either from the intersection of Kamehameha Highway and Kahuhipa Street or the intersection of Kamehameha Highway and Haiku Road. Lilipuna Road is used primarily by the residents in the area to access homes and by HIMB students and faculty to access Coconut Island. Traffic is usually light on Lilipuna Road unless there is an accident or construction on Kamehameha Highway that causes Lilipuna Road to be used as a bypass route. There is a gated driveway on the Lilipuna Road property that curves and slopes down to the parking lot and Lilipuna Pier. The parking lot located at the Lilipuna Road property is at its maximum capacity with marked spaces reserved for students and faculty with limited space available for visitors. Tandem parking is used to create more space and some vehicles are parked on the unmarked curb of the driveway that leads down to the parking lot. Guests often use the Windward Mall second story parking lot as a parking area and catch a shuttle bus to Coconut Island. Traffic on Coconut Island is very limited with only a number of vehicles used on the island.

3.3.4.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

No significant impacts are expected to occur as a result of the No Action Alternative since no traffic changes are expected to occur.

Preferred Alternative

Temporary impacts to the existing traffic conditions are anticipated during construction activities on Lilipuna Road as well as during transportation of construction material, equipment, and personnel via Lilipuna Road to the Lilipuna Road property. Impacts would be controlled with mitigation measures including directing traffic during construction on Lilipuna Road, avoiding peak traffic times, and informing the general public about the construction activity schedule before the project breaks ground. Impacts are anticipated to be minimal however, since traffic on Lilipuna Road is limited and construction activities on the road are only expected to take several weeks. Necessary traffic controls and precautions to maintain safety within the area will be provided by the contractor during construction activities.

Equipment and personnel to be brought onto the island would be very limited and should not have significant impacts to the existing conditions of the shuttle boat service or traffic on the island. Since the existing parking lot at the Lilipuna Road property is at its maximum capacity, an off-site parking location will be found for the construction workers who will be shuttled to the site. No long-term impacts are anticipated as a result of the Preferred Alternative.
3.3.5 SOCIAL FACTORS AND COMMUNITY IDENTITY

3.3.5.1 EXISTING CONDITIONS

According to the 2010 census, the population of O‘ahu is approximately 953,207 residents, which is approximately 8.8 percent more residents from the year 2000 (U.S. Census Bureau, 2012). The State Senate District #24, which constitutes the project area, includes Kāne‘ohe, Kāne‘ohe Marine Corps Air Base, Kailua, and Enchanted Lakes. Table 3-2 shows a comparison of population by age groups between the island of O‘ahu and the Project Area. The project area had a population of 51,259 in the 2010 Census, which is approximately 5.3 percent of the total population of O‘ahu. Persons age 18 years and over account for 742,707 of the population of O‘ahu, or 77.9 percent, while this age group makes up about 79 percent of the project area population. O‘ahu’s 65 years and older population is approximately 138,490 or 14 percent of the island’s population, while this age group consists of 7,910 or 15 percent of the project area population.

The City and County of Honolulu General Plan sets forth three objectives regarding population including 1) “to control population growth to the extent possible to avoid social, economic, and environmental disruptions;” 2) “to plan for anticipated future population growth;” and 3) “to maintain a pattern of population distribution that will allow people to live and work in harmony.” The island of O‘ahu is divided into eight regions, for which development or sustainable communities plans have been prepared for individually. This project falls within the City and County of Honolulu’s Ko‘olaupoko District. According to the Ko‘olaupoko Sustainable Communities Plan, the vision for this region regarding population is to remain relatively stable. This community’s goals are “oriented toward maintaining and enhancing the region’s ability to sustain its unique character and lifestyle (City and County of Honolulu, 2000).”

The City and County of Honolulu’s racial distribution is such that individuals with one race are 20.8 percent White, 2 percent Black or African American, 0.3 percent American Indian and Alaska Native, 43.9 percent Asian, 9.5 percent Native Hawaiian and other Pacific Islander, and 0.11 percent of some other race. Honolulu County’s population consists of 22.3 percent with two or more races. 43.9 percent is Asian (race alone), 43.9 percent is either full or part Asian, and 36.8 percent is either full or part White.
Table 3-2: Age Groups

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Honolulu County (O‘ahu)</th>
<th>Senate District #24 (Project Area)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Persons</td>
<td>953,207</td>
<td>51,259</td>
</tr>
<tr>
<td>Under 5</td>
<td>61,261</td>
<td>3,450</td>
</tr>
<tr>
<td>5 to 9</td>
<td>57,818</td>
<td>2,993</td>
</tr>
<tr>
<td>10 to 14</td>
<td>56,147</td>
<td>2,614</td>
</tr>
<tr>
<td>15 to 19</td>
<td>60,344</td>
<td>3,438</td>
</tr>
<tr>
<td>16 years and over</td>
<td>766,256</td>
<td>41,663</td>
</tr>
<tr>
<td>18 years and over</td>
<td>742,707</td>
<td>40,494</td>
</tr>
<tr>
<td>21 years and over</td>
<td>98,273</td>
<td>37,537</td>
</tr>
<tr>
<td>62 years and over</td>
<td>259,742</td>
<td>9,494</td>
</tr>
<tr>
<td>65 years and over</td>
<td>138,490</td>
<td>7,910</td>
</tr>
<tr>
<td>85 years and over</td>
<td>22,360</td>
<td>1,202</td>
</tr>
</tbody>
</table>

Reference: U.S. Census Bureau, 2012

3.3.5.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

No impacts to the existing population distribution, levels or racial distribution are expected to result under the No Action Alternative. No changes to the existing conditions are expected.

Preferred Alternative

The Preferred Alternative would not impact population levels or distribution, nor ethnic makeup of the project area. The Preferred Alternative would continue to beneficially impact the project area in accordance with the Ko‘olaupoko Sustainable Communities Plan in that it would enhance the region’s unique character of housing HIMB, a world class research facility. The Proposed Action will not only maintain, but will improve the conditions and capacities of HIMB as an educational research facility, which is in line with the visions laid out in the Ko‘olaupoko Sustainable Communities Plan. No adverse impacts to social factors or community identity are anticipated under the Preferred Alternative.
3.3.6 ECONOMIC CONSIDERATIONS

3.3.6.1 EXISTING CONDITIONS

The median household annual income for Honolulu County in 2012 was $71,404, the highest among counties in the State. This is 7.7 percent higher than the mean household income for the State of Hawai‘i, at $66,259 (U.S. Census Bureau, 2012).

Kāne‘ohe’s economy is composed of a wide range of business sectors including MCBH, Windward Community College, government services, agriculture, Kualoa Ranch, Windward Mall, Windward City Shopping Center, and many commercial activities along Kamehameha Highway. Tourism activities such as water sport equipment rentals and charter boats in Kāne‘ohe Bay are also an integral part of Kāne‘ohe’s economy.

The current total faculty and staff population at Coconut Island is approximately 200. The annual operating budget for Coconut Island is made up of budget appropriation from the UH’s general fund pool and single and multi-year program funds from grants for scientific research. The 2013 HIMB’s budget is approximately 14.1 million dollars [$3.66M (Operating Budget); $10.4M (Program Grants)].

3.3.6.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

Adverse impacts are anticipated as a result of the No Action scenario. If the aging infrastructure systems are not rehabilitated and the telecommunication lines not upgraded to maintain real time communications with the UH and research facilities worldwide, the educational and economic viability of HIMB Coconut Island as a world class research facility would be threatened. No adverse impacts to the area’s household income levels are expected to result from the No Action Alternative.

Preferred Alternative

Short-term beneficial impacts resulting from the Preferred Alternative include temporary construction jobs during the construction phase of the project. Employment associated with both construction and operations falls into three broad types:

- Direct jobs are immediately involved with construction of a project or with its operations. Direct jobs are not necessarily on-site: construction supports construction company personnel in offices and base yards, as well as on site.
- Indirect jobs are created as businesses directly involved with a project purchase goods and services in the local economy.
• Induced jobs are created as direct and indirect workers spend their income for goods and services.

Significant long-term beneficial economic impacts to the UH, the community, and the State in terms of continued research funding are anticipated from the Preferred Alternative which will provide rehabilitation and upgrades of Coconut Island’s infrastructure systems necessary to sustain and facilitate the physical operations of HIMB as a world class marine education and research facility. Additionally, by preventing a possible sewage spill, the Preferred Alternative is expected to have beneficial economic impacts by sustaining tourism activities in Kāne‘ohe Bay.

3.3.7 PUBLIC AND RECREATIONAL FACILITIES

3.3.7.1 EXISTING CONDITIONS

The Kāne‘ohe police station is located on Waikalua Road approximately 1.6 miles from the project area. The Kāne‘ohe Police Department is a part of the District 4 Patrol District, the largest of the Honolulu Police Department. The nearest fire station is located at on Kamehameha Highway, also approximately 1.6 miles from the project area.

Castle Medical Center is located on Ulukahiki Street in Kailua, approximately 6.6 miles from the project area. Other health care services within the surrounding areas include a psychiatric hospital, elderly home care, dental care, pediatric care, and medical equipment services.

There are multiple Department of Parks and Recreation facilities located in Kāne‘ohe. The Kāne‘ohe Community Park is located on Kealahala Road, approximately 1.6 miles from the project area. The Kāne‘ohe Community and Senior Center is located on Puohala Street, approximately 2.4 miles from the project area. Finally, the Kāne‘ohe District Park is located on Keahahala Road, approximately 2.2 miles from the project area. The Kāne‘ohe District Park provides outdoor tennis courts, baseball diamonds, basketball courts, an indoor gym and a swimming pool.

Although the primary function of Coconut Island is for the purposes of research and education, access for public recreational use is provided in designated areas that are not situated near on-going research activities. The main public access point on Coconut Island is Maile Point located on the southwestern corner of the island. In addition, public access is allowed at the sandy beach located on the eastern side of the island.

3.3.7.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

The No Action Alternative is expected to have negative impacts to HIMB as a public research and educational facility. The existing infrastructure systems and utilities at HIMB will continue to be
degraded under the No Action Alternative, which may lead to future failure of utilities servicing the island. No change to public or recreational facilities in the surrounding area is expected as a result of the No Action Alternative.

**Preferred Alternative**

The Preferred Alternative is expected to have beneficial impacts to HIMB as a public research and educational facility. The Preferred Alternative would provide HIMB with the much needed replacement/upgrades of the existing utilities. This would result in great technological improvements to the island’s infrastructure and utilities, allowing for the continued use of the island as one of the most renowned marine research facilities in the world. The Preferred Alternative does not involve work at Maile Point nor at the sandy beach located on the eastern side of the island which are the public access points for Coconut Island; therefore, public access to island is not expected to be impacted. In addition, the Preferred Alternative is not anticipated to have any significant impacts to the public or recreational facilities in the vicinity of the project area since it is not expected to create a significant increase in the number of users of these facilities.

### 3.3.8 VISUAL AND AESTHETIC RESOURCES

#### 3.3.8.1 EXISTING CONDITIONS

The predominant views of Coconut Island are of its thick vegetation and systems of spits and piers. Several HIMB facilities are visible depending on the direction of viewpoints facing the island. Several structures including the Lighthouse Pier, a one story office and laboratory space, the old boathouse, and some housing units are visible from Lilipuna Road. The view of the island is most visible to recreational boat users in Kāne‘ohe Bay. Scenic views from the island include residential houses along the coastline of Kāne‘ohe Bay and the Ko‘olau Range in the background.

#### 3.3.8.2 POTENTIAL IMPACTS AND MITIGATION

**No Action Alternative**

The No Action Alternative may potentially have increasing negative impacts on the visual resources and aesthetics in or around the project area. Lighthouse Pier, the primary arrival area to Coconut Island, is in complete disrepair and is no longer in use due to safety concerns. The concrete pilings have deteriorated and the pier’s deck appears to be disconnecting from the lighthouse. In addition, portions of the deck are cracked and sagging. If rehabilitation of the pier is not conducted in the near future, the appearance of the pier would have increasingly negative impacts to the aesthetic value of HIMB.
Preferred Alternative

No adverse impacts to the visual and aesthetics resources in the project area are expected under the Preferred Alternative. Short-term impacts may include the presence of construction vehicles and equipment that will be visible for a limited amount of time during the construction period. These impacts are expected to be minimal, and mitigation measures including maintaining an organized and clean construction site will ensure the visual integrity of the project area.

Long-term beneficial impacts are expected under the Preferred Alternative. Lighthouse Pier and its supporting structures is the primary arrival point on Coconut Island, making it the first impression of the island to visitors. Rehabilitation of the pier will provide a much improved impression of the island and benefit the continued and future use of the island as a facilitator of marine researchers from around the world.

3.3.9 INFRASTRUCTURE SYSTEMS AND UTILITIES

3.3.9.1 EXISTING CONDITIONS

Water, sewer, electric, and communication are the existing utilities providing service to Coconut Island. The existing 4-inch cast iron sewer force main was installed on the island in the late 1970s. The pump station is located on the east side of the island and continues underground to the shuttle boat landing at the south-west end of the island. The force main runs along the bottom of Kāneʻohe Bay to Lilipuna Pier, where it surfaces and is mounted under the walkway. At the other end of the pier, the force main runs underground along the shoreline and discharges into a manhole located within a sewer easement on private property on Lilipuna Road. The portion of the force main that runs under Lilipuna Pier was replaced by a 4-inch high density HDPE pipe in 1990.

In September 2011, the employees of HIMB discovered a leak from the sewer force main in the middle of the channel between Lilipuna Pier and Coconut Island. This was noticed by air bubbles along the pipe in the water. The break was 12 inches long by 2 inches wide, and a 36-inch stainless steel pipe clamp was installed to secure the leak. Following installation of the clamp, a dye test was performed and no further leaks were detected. It is estimated that approximately 50 gallons of liquid was spilled during the leak. The City and County of Honolulu, Division of Collection System Maintenance system and the DOH Wastewater Branch was notified.

The communication services to the island are currently provided by Hawaiian Telecom. These lines are also submerged along the bottom of Kāneʻohe Bay. The island’s water was initially provided by a 4-inch cast iron line installed in the 1930s. This line was replaced in 1990 by a 6-inch HDPE pipe and connected to an 8-inch BWS water main in the parking lot located at the Lilipuna Road property. The 6-inch line runs below Lilipuna Pier and into Kāneʻohe Bay, where it is anchored on the sea floor, exiting near the Lighthouse Pier on Coconut Island.
Coconut Island receives its electrical services from HECO. The electrical lines originate at the HECO Kāne'ōhe Substation and run overhead along Lilipuna Road. The lines are then submerged into Kāne'ōhe Bay and resurface on Coconut Island, where they connect to HECO’s switching equipment which feeds into two transformers that distribute the power throughout the island.

3.3.9.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

The No Action Alternative is expected to have long-term adverse impacts to the infrastructure systems and utilities at the project site. As the utilities infrastructure on Coconut Island is significantly outdated, the potential for failure of utilities servicing the island due to aged equipment and outdated technologies is imminent. The utility lines currently run along the bottom of Kāne'ōhe Bay, where they are exposed to the elements of the bay and expose their components to the populations and ecosystems within the bay. A small rupture in the sewer line has already occurred. Besides the potential for service failure, a ruptured sewer line would result in potential detrimental impacts to the water quality and ecosystem of Kāne'ōhe Bay.

Preferred Alternative

The Preferred Alternative is expected to have significant beneficial impacts to the existing infrastructure system and utilities at Coconut Island. Updated sewer, water, electric, and communication lines through the implementation of the Preferred Alternative will allow HIMB to maintain its use of the on-island facilities, and to have greatly improved high speed data sharing with the world, which in turn will enhance its position as a world class research facility. The Preferred Alternative will not only provide great technological improvements to the island’s infrastructure and utilities, which would allow for the continued provision of these utilities to the island but will also eliminate the potential for future breakages and failure of the existing aging utility lines.

3.3.10 SECONDARY AND CUMULATIVE IMPACTS

Cumulative impacts are two or more individual effects which, when considered together, compound or increase the overall impact. Cumulative impacts can arise from the individual effects of a single action or from the combined effects of past, present, or future actions. Thus, cumulative impacts can result from individually minor but collectively significant actions taken over a period of time. The cumulative impacts of the Proposed Action along with past and reasonably foreseeable future projects proposed within or in the vicinity of the project area were assessed based upon available information.

Future projects that are currently planned at HIMB include installation of photovoltaic (PV) systems and the demolition of the old Paley Guest House located on the east side of Coconut Island along East Lagoon. The proposed demolition of the old Paley House involves demolishing the dilapidated walls of the guest house and maintaining the existing concrete slab for future use and development.
The site plan was submitted to the State of Hawai‘i Department of Land and Natural Resources, (DLNR) for approval since the proposed demolition was an identified land use within the Conservation District Resource Subzone pursuant to HAR §13-5-22, P-8 STRUCTURES AND LAND USES, EXISTING, (B-1) Demolition, removal, or minor alteration of existing structures, facilities, land and equipment; any historic property shall be evaluated by the department for historical significance. Because of the minor scope of the project, the application was considered an exempt action and authorization for the demolition and minor repair to the old Pauley House was granted to UH Mānoa on February 18, 2014 (DLNR, 2014).

These planned future projects are not expected to create any adverse cumulative impacts to the existing conditions of the project area when implemented in conjunction with the work proposed under the Preferred Alternative. There are no known past or present projects that would compound or increase the impacts expected under the Preferred Alternative.
SECTION 4

RELATIONSHIP TO PLANS, POLICIES, AND CONTROLS
The purpose of this section is to summarize the relationship of the plans and policies to project actions. Additionally, the intent is to revisit these plans and policies to qualify any significant effects from actions proposed in this EA.

### 4.1 FEDERAL REGULATIONS

**Section 10 of the Rivers and Harbors Act of 1899**

Section 10 of the Rivers and Harbors Act (33 U.S.C. §401 et seq. and §403) requires authorization from the U.S. Army Corps of Engineers (Army Corps) for the construction of any structure in or over any navigable water of the United States, the excavation/dredging or deposition of material in these water or any obstruction or alteration in a “navigable water” (see below). Structure or work outside the limits defined for navigable waters of the U.S. require a Section 10 permit if the structure or work affects the course, location, condition, or capacity of the water body.

“Navigable waters” of the U.S. are those subject to the ebb and flow of the tide shoreward to the mean high water mark and/or presently used, or have been used in the past, or are susceptible for use to transport interstate or foreign commerce. The term includes coastal and inland waters, lakes, rivers and streams that are navigable, and the territorial seas.

**Discussion:**

The utility line replacement and Lighthouse Pier rehabilitation proposed under the Preferred Alternative require a Section 10 Permit since these work items will involve work in/over Kāne‘ohe Bay. The USACE authorizes activities by issuing individual and general permits. Individual permits include Standard Individual Permits and Letters of Permission, and general permits include Nationwide Permits and Regional General Permits.

**Resource Conservation and Recovery Act (RCRA) of 1976**

Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the “cradle-to-grave.” This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also sets forth a framework for the management of non-hazardous wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. RCRA focuses only on active and future facilities and does not address abandoned or historical sites.

**Discussion:**

Generation of hazardous waste is not anticipated under the proposed work for the project.
Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), commonly known as Superfund, was enacted by Congress in 1980. This law created a tax on the chemical and petroleum industries and provided broad Federal authority to respond directly to releases or threatened releases of hazardous substances that may endanger public health or the environment. CERCLA:

- established prohibitions and requirements concerning closed and abandoned hazardous waste sites;
- provided for liability of persons responsible for releases of hazardous waste at these sites; and
- established a trust fund to provide for cleanup when no responsible party could be identified.

The law authorizes two kinds of response actions:

- Short-term removals, where actions may be taken to address releases or threatened releases requiring prompt response.
- Long-term remedial response actions, that permanently and significantly reduce the dangers associated with releases or threats of releases of hazardous substances that are serious, but not immediately life threatening. These actions can be conducted only at sites listed on EPA’s National Priorities List (NPL).

Discussion:

No hazardous waste sites exist in the project area and generation of hazardous wastes will not occur during project construction.

Native American Graves Protection and Repatriation Act (NAGPRA) of 1990

The Native American Graves Protection and Repatriation Act (NAGPRA) of 1990 provides for the protection, inventory, and the proper treatment and where applicable, the repatriation of Native human remains, funerary objects, sacred and cultural objects. The law requires that consultation and potential repatriation efforts should occur with identified lineal descendants or cultural affiliated groups, specifically federally recognized Native American tribes and Native Hawaiian Organizations. The law applies to those ancestral remains and cultural resources that were either excavated and removed from federal lands or retained by institutions receiving federal funding. The Secretary of the Interior of the United States is charged with the responsibility for overseeing national NAGPRA compliance, while a designated staff member of the U.S. Department of the Interior oversees its implementation.
Discussion:

As a public educational institution that participates in federally funded programs, the UH at Mānoa and its affiliates are potentially subject to comply with the procedural guidelines set forth in NAGPRA regulations. Any and all future construction on the island should be monitored by a trained, professional Archaeologist. It is the recommended that in the event of an inadvertent discovery of unidentified surface or subsurface cultural remains, the applicable processes outlined in both NAGPRA and State regulations will be employed. According to the LRDP, a designated area on the puʻu has been selected on the island as a reburial site for the re-internment of any human remains and funerary objects that may be discovered during construction. If required, the procedural and notification components of applicable Federal and State law pertaining to the development of a burial treatment plan will be administered.


The Endangered Species Act of 1973 provides a legal means by which identified ecosystems that are determined to be essential to the sustainability of an endangered or threatened species can be conserved. Under this Act, the USFWS in the Department of the Interior is responsible for all terrestrial and freshwater species, as well as migratory birds. Likewise, the National Marine Fisheries Service in the Department of Commerce is responsible for the protection of marine, estuarine, and anadromous species.

The Marine Mammal Protection Act (MMPA) of 1972 (as amended in 1994) was enacted to protect and manage population stocks of marine mammals that are, or may be, in danger of extinction or depletion as a result of human activity. The MMPA establishes a moratorium, with certain exceptions, on the taking of marine mammals and/or their products into the U.S.

Discussion:

No threatened or endangered plant species were identified on the island. Further, while no endangered species were noted during the field investigations, various migratory birds including the endangered Aeʻo (Himantopus mexicanus knudseni) have been observed by HIMB personnel on the island. It is also probable that the pueo (Asio flammeus) and the koloa (Anas wyvilliana) utilize portions of the island on occasion for hunting or nesting. Additionally, Hawaiian monk seals (Monachus schauinslandi) and green sea turtles (Chelonia mydas) have been sighted along the nearshore waters of the island. It is anticipated that construction activities for the Proposed Action will not impact the habitat patterns of any endangered species. If observed during construction, treatment of marine mammals will comply with all necessary requirements of the law.

**Coastal Zone Management Act (CZM) of 1972**

In 1972, the Federal government enacted the Coastal Zone Management Act (CZM) to protect, preserve, develop, restore, and enhance the resources of the nation’s coastal zone for current and future generations. This process is achieved by providing assistance to coastal states, including
Hawai‘i, to develop and manage Coastal Management Programs. Enforcement authority for the Federal Coastal Management Program (Public Law 104-150, as amended in 1996) has been delegated to the State of Hawai‘i (HRS, Chapter 205A).

Discussion:
Through the CZM Program promulgated by Chapter 205A, HRS, each County is required to establish special management areas and shoreline setbacks within which permits are required for development. Discussion of the permits required under the CZM is included in Section 4.5.

4.2 STATE LAND USE PLANS AND POLICIES

4.2.1 STATE OF HAWAI‘I

Chapter 343 HRS

Compliance with Chapter 343, HRS is required as previously described in Section 2.1 Scope and Authority.

§343-5 Applicability and Requirements. (a) Except as otherwise provided, an environmental assessment shall be required for actions that:

Propose the use of the 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)(10)] or [205-4.5(a)(13)] shall only be required pursuant to section 205-5(b).

Discussion:
The State of Hawai‘i and the UH Foundation are titled to the land within the project area; therefore, the environmental assessment under Chapter 343 HRS is required because the project entails the use of State lands.

Hawai‘i State Plan Chapter 226, HRS

The Hawai‘i State Plan, Chapter 226, HRS was developed as a guideline for the future growth of the State of Hawai‘i. The State Plan identifies goals, objectives, policies, and priorities for the development and growth of the State. It provides a basis for prioritizing and allocating the limited resources such as public funds, services, human resources, land, energy, and water. The State Plan establishes a system for the formulation and program coordination of State and City and County plans, policies, programs, projects, and regulatory activities. The State Plan also facilitates the integration of all major State and City and County activities. The proposed project would be in
conformance with the State Plan’s objectives and policies for socio-cultural advancement with regard to education of the Hawaiian people. Specifically, the proposed project will fulfill the following objectives of the State Plan:

- Ensure the provision of adequate and accessible educational services and facilities that are designed to meet individual and community needs.
- Provide higher educational opportunities that enable Hawai‘i’s people to adapt to changing employment demands.
- Emphasize quality educational programs in Hawai‘i’s institutions to promote academic excellence.
- Support research programs and activities that enhance the education programs of the State.

A) Economy: General

The objectives for planning the State’s economy include increasing and diversifying employment opportunities to provide a better economic quality of life for Hawai‘i’s people. It is also the objective of the State to create a diversified economic base that is not overly dependent on a few industries, and includes the development and expansion of industries on the neighbor islands. It is the policy of the State to:

- Promote Hawai‘i as an attractive market for environmentally and socially sound investment activities that benefit Hawai‘i’s people.
- Seek broader outlets for new or expanded Hawai‘i business investments.
- Expand existing markets and penetrate new markets for Hawai‘i’s products and services (HRS, Chapter 226-6).

Discussion:

The Proposed Action will contribute to a better economic quality of life for Hawai‘i’s people by preserving the continued use of HIMB as a world class research facility and by providing continued source employment opportunity for the people in Hawai‘i.

B) Economy: Potential Growth Activities

It is the objective of the State to increase and diversify Hawai‘i’s economic base through the development and expansion of potential growth activities. It is the policy of the State to:

- Facilitate investment and employment in economic activities that have the potential for growth such as diversified agriculture, aquaculture, apparel and textile manufacturing, film and television production, and energy and marine-related industries.
- Expand Hawai‘i’s capacity to attract and service international programs and activities that generate employment for Hawai‘i’s people.

- Enhance and promote Hawai‘i’s role as a center for international relations, trade, finance, services, technology, education, culture, and the arts.

- Accelerate research and development of new energy-related industries based upon wind, solar, ocean, and underground resources and solid waste.

- Increase research and the development of ocean-related economic activities such as mining, food production, and scientific research (HRS, Chapter 226-10).

Discussion:

The Proposed Action will allow for the continued integrated mixed uses of HIMB for research, affiliated research, and education, which will avail new opportunities of economic growth in local research and development, accenting the university’s achievements and aspirations in marine research on a global and international level.

C) Physical Environment: Land Based, Shoreline, & Marine Resources

It is the objective of the State to make prudent use of Hawai‘i’s land-based, shoreline, and marine resources as well as to establish effective measures to protect Hawai‘i’s unique and fragile environmental resources. It is the policy of the State to:

- Ensure compatibility between land-based and water-based activities and natural resources and ecological systems.

- Take into account the physical attributes of areas when planning and designing activities and facilities.

- Manage natural resources and environs to encourage their beneficial and multiple uses without generating costly or irreparable environmental damage.

- Encourage the protection of rare or endangered plant and animal species and habitats native to Hawai‘i.

- Pursue compatible relationships among activities, facilities, and natural resources.

- Promote increased accessibility and prudent use of inland and shoreline areas for public recreational, educational, and scientific purposes (HRS, Chapter 226-11).
Discussion:
The Proposed Action is not anticipated to alter the current use or activities in and around the project area. The project is anticipated to promote the use of HIMB as a research and educational facility without generating any costly or irreparable environmental damage.

D) Physical Environment: Scenic, Natural Beauty, & Historic Resources

In protecting and maintaining the natural resources of the State, it is the objective of the State to enhance Hawai‘i’s scenic assets, natural beauty, and multi-cultural/historical resources. It is the policy of the State to:

- Provide incentives to maintain and enhance historic, cultural, and scenic amenities.
- Promote the preservation of views and vistas to enhance the visual and aesthetic enjoyment of mountains, ocean, scenic landscapes, and other natural features.
- Protect those special areas, structures, and elements that are an integral and functional part of Hawai‘i’s ethnic and cultural heritage.
- Encourage the design of developments and activities that complement the natural beauty of the islands (HRS, Chapter 226-12).

Discussion:
The Proposed Action will promote the preservation of the natural beauty of Coconut Island by replacing the old utility lines and associated structures. The proposed work items will enhance the visual and aesthetics value of HIMB.

E) Physical Environment: Land, Air, & Water Quality

It is the objective of the State to maintain and improve the quality of Hawai‘i’s land, air, and water resources as well as to create greater public awareness and appreciation of Hawai‘i’s environmental resources. It is the policy of the State to:

- Foster educational activities that promote a better understanding of Hawai‘i’s limited environmental resources.
- Promote effective measures to achieve desired quality in Hawai‘i’s surface, ground, and coastal waters.
- Foster recognition of the importance and value of the land, air, and water resources to Hawai‘i’s people, their culture, and visitors (HRS, Chapter 226-13).
**Discussion:**

The Proposed Action is in line with maintaining and improving Hawai‘i’s environmental resources, specifically coastal water resources by preventing future failure of the outdated sewer line currently servicing HIMB. Replacement of the utility lines servicing Coconut Island is in line with the recognition of the important of value of water resources in Hawai‘i.

**F) Facility Systems: Energy/Telecommunications**

*It is the objective of the State to achieve dependable, efficient, and economical statewide energy and telecommunications systems capable of supporting the needs of the people and that increases self-sufficiency. It is the policy of the State to:*

*Support research and development as well as promote the use of renewable energy sources (HRS, Chapter 226-18).*

**Discussion:**

Replacement of the utility lines will achieve the State’s objective to provide dependable, efficient, and economical energy and telecommunications systems capable of supporting the needs of the people. Without the replacement of the existing utility lines, there is a possibility of interruption of energy and telecommunications systems that serves Coconut Island.

**G) Socio-Cultural Advancement: Education**

*It is the objective of the State to adequately provide a variety of education opportunities to enable individuals to fulfill their needs, responsibilities, and aspirations. It is the policy of the State to:*

- **Provide higher educational opportunities that enable Hawai‘i’s people to adapt to changing employment demands.**
- **Emphasize quality educational programs in Hawai‘i’s institutions to promote academic excellence.**
- **Support research programs and activities that enhance the education programs of the State (HRS, Chapter 226-21).**

**Discussion:**

Through the fortified partnerships with various institutions, HIMB is committed to the continued development of applied research and subsequent educational programs, services, and curriculum. Existing educational programs include the Pauley Summer Program, which provides a high quality research program for faculty and students from around the world. In addition to the undergraduate and graduate students that work and study on the island, over 4,000 school-aged children visit the island on an annual basis. Improved communications capacity will allow faculty at HIMB to enhance their online interaction with students at UH Mānoa and community college campuses by
remotely sharing archived and real-time data with students directly. HIMB is also developing a system to offer opportunities for community college students and faculty to remotely operate the state-of-the-art equipment such as the confocal microscope to study live marine organisms via digitally streamed images. Collaborative efforts with organizations such as the Polynesian Voyaging Society (PVS), Paepae o He‘ea, Kako‘o ‘Oiwi, Pacific American Foundation, and Ko‘olaupoki Hawaiian Civic Club will continue to create new linkages and applications, such as the development of community education programs that are derived from the efforts of pure research.

**H) Socio-Cultural Advancement: Leisure**

*It is the objective of the State to adequately provide resources to accommodate diverse cultural, artistic, and recreational needs for present and future generations. It is the policy of the State to:*

*Promote the recreational and educational potential of natural resources having scenic, open space, cultural, historical, geological, or biological values while ensuring that their inherent values are preserved.*

*Assure the availability of sufficient resources to provide for future cultural, artistic, and recreational needs (HRS, Chapter 226-23).*

**Discussion:**

Although the primary function of Coconut Island is for the purposes of research, access for public recreational use is provided in designated areas that are not situated near on-going research activities. The Proposed Action will preserve the island’s use for recreational purposes by preventing potential future failure of the currently aged sewer line and a possible sewer spill in Kāne‘ohe Bay, which would have a detrimental impact to the water quality and the recreational use of the bay.

**I) Climate Change Adaptation Priority Guidelines**

*Priority guidelines to prepare the State to address the impacts of climate change, including impacts to the areas of agriculture; conservation lands; coastal and nearshore marine areas; natural and cultural resources; education; energy; higher education; health; historic preservation; water resources; the built environment, such as housing, recreation, transportation; and the economy shall:*

*(3) Invest in continued monitoring and research of Hawaii’s climate and the impacts of climate change on the State.*

*(5) Encourage the preservation and restoration of natural landscape features, such as coral reefs, beaches and dunes, forests, streams, floodplains, and wetlands, that have the inherent capacity to avoid, minimize, or mitigate the impacts of climate change.*
Discussion:

The Proposed Action is in conformance with this guideline since the proposed work items will allow for the continued use of HIMB as a research ground for marine resources, and their roles and impacts on climate change. In addition, during the preparation of this EA, impacts to natural resources that have the inherent capacity to avoid, minimize, or mitigate the impacts of climate change have been reviewed thoroughly, and mitigation measures to avoid impacts to these resources have been identified. The proposed HDD method to be used during the utility lines replacement will encourage the preservation of the coral reef system in Kāne'ohe Bay by placing the new utility lines under the sea floor rather than placing the lines on the bottom of the bay.

State Functional Plan

The 12 State Functional Plans were adopted by the State Legislature in April 1984. These plans were formulated to specify in greater detail the policies, guidelines, and priorities set forth in the Hawai‘i State Plan. The 12 functional plans include; Energy, Transportation, Water Resources, Historic Preservation, Health, Education, Housing, Conservation Lands, Higher Education, Agriculture, Recreation, and Tourism. The project is consistent with the policies and objectives of the State Functional Plans. This project provides the needed replacement of existing utility system at Coconut Island to support the ongoing research/educational activities at HIMB.

State of Hawai‘i Higher Education Functional Plan (1987 Draft)

The State Higher Education Functional Plan is “intended to serve as a guide to the objectives and policies pursued by the post-secondary education community in meeting its many responsibilities.” The following objectives and policies of the Functional Plan are relevant to the implementation of the Proposed Action.

Objective A: Maintain a number and variety of postsecondary education institutions sufficient to provide the diverse range of programs required to satisfy individual and societal needs and interests.

Policy A(2): Focus increased attention on the role higher education plays in supporting the economic development of the State.

Objective B: Attain the highest level of quality, commensurate with its mission and objectives, of each education, research, and public service program offered in Hawai‘i by an institution of higher education.

Policy B(2): Maintain and strengthen the position of the UH as a leading national and international research center.

Policy B(3): Identify for program enrichment and emphasis those programs considered important in terms of State needs and emphases, those programs for which special advantages in Hawai‘i...
provide an opportunity for national or international prominence, and those programs which have already achieved such prominence.

Discussion:
The unique opportunity for marine research at Coconut Island was recognized in 1947 when Edwin W. Pauley offered land and surplus buildings to the UH for use as a marine laboratory. In the six decades that have passed since that time, HIMB has become a world leader in tropical marine research. The proposed infrastructure improvements support and enhance the mission of HIMB, and provide the physical and managerial framework to support tenant organizations on the island.

Environmental Review, HRS, Chapter 343

HRS, Chapter 343, defines the State of Hawai‘i’s environmental review process by which an environmental impact statement must be conducted to identify any potential impacts that could result from a proposed action involving State or county lands or funds.

Discussion:
This document has been prepared to meet Chapter 343 requirements and will be processed through the State Office of Environmental Quality Control.

Historic Preservation, HRS, Chapter 6E

Regulatory statutes related to historic preservation issues are provided in Chapter 6E of the Hawai‘i Revised Statutes, which mandates that the SHPD of the Department of Land and Natural Resources (DLNR) must review proposed state projects, which may have an impact upon historic and cultural resources that are located within the project area. Further, Chapter 6E also provides procedural guidelines in the event of an inadvertent discovery of burial sites during project development.

Discussion:
The Proposed Action is not anticipated to have any impacts to the historic and cultural resources within the project area. Ground disturbing activities on the island will be monitored by a trained, professional Archaeologist.

State of Hawai‘i Land Use Law

Chapter 205, HRS promulgates the State Land Use Law. This law is intended to preserve, protect, and encourage the development of lands in the State of Hawai‘i for uses that are best suited to the public health and welfare of its people. The LUC classifies all land into four districts: Urban, Conservation, Agriculture, and Rural. The project area is designated within the Urban and Conservation District.
4.3 CITY AND COUNTY LAND USE PLANS AND POLICIES

4.3.1 CITY AND COUNTY OF HONOLULU

4.3.1.1 GENERAL PLAN (AMENDED OCTOBER 3, 2002)

The General Plan for the City and County of Honolulu, a requirement of the City Charter, is a written commitment by the City and County government to a future for the Island of O`ahu which it considers desirable and attainable. The Plan is a two-fold document: First, it 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. These objectives contain both statements of desirable conditions to be sought over the long run and statements of desirable conditions which can be achieved within an approximate 20-year time horizon. Second, the General Plan is a statement of broad policies which facilitate the attainment of the objectives of the Plan. This section discusses how the Coconut Island LRDP addresses the applicable objectives and policies of the County General Plan.

Economic Activity

Objective: To promote employment opportunities that will enable all the people of O`ahu to attain a decent standard of living.

Policy: Encourage the growth and diversification of O`ahu’s economic base.

Objective: To make full use of the economic resources of the sea.

Policy: Encourage the development of aquaculture, open research, and other ocean-related activities.

Discussion:
The Proposed Action is anticipated to have significant long-term beneficial economic impacts to the UH, the community, and the State in terms of continued research funding with the rehabilitation of Coconut Island’s infrastructure systems necessary to sustain and facilitate the physical operations of HIMB as a world class marine education and research facility. Visiting researchers will continue to come to HIMB and more will visit other tenant organizations on the island.

Natural Environment

Objective: To protect and preserve the natural environment.

Policy: Protect the natural environment from damaging levels of air, water, and noise pollution.

Policy: Increase public awareness and appreciation of O`ahu’s land, air, and water resources.
Objective: To preserve and enhance the natural monuments and scenic views of O‘ahu for the benefit of both residents and visitors.

Policy: Protect O‘ahu’s scenic views, especially those seen from highly developed and heavily traveled areas.

Policy: Provide opportunities for recreational and educational use and physical contact with O‘ahu’s natural environment.

Discussion:
The proposed replacement of utility lines servicing HIMB will contribute to the protection and preservation of the natural environment by eliminating the potential for a major sewage spill in Kāne‘ohe Bay, which would have a detrimental impact to the water quality and marine resources in the bay. The visual aesthetics of Coconut Island will be significantly enhanced by the rehabilitation of the Lighthouse Pier, which is the first arrival point for visitor to the island.

Energy

Objective: To maintain an adequate, dependable, and economical supply of energy for O‘ahu’s residents.

Policy: Support programs and projects which contribute to the attainment of energy sufficiency on O‘ahu.

Objective: To develop and apply new, locally available energy resources.

Policy: Support and participate in research, development, demonstration, and commercialization programs aimed at producing new, economical, and environmentally sound energy supplies from solar insulation, biomass energy conversion, wind energy conversion, geothermal energy, and ocean thermal energy conversion.

Discussion:
The proposed replacement of utility lines will eliminate the potential for future failure due to its age and provide HIMB with a more efficient and dependable source of energy.

Physical Development and Urban Design

Objective: To create and maintain attractive, meaningful, and stimulating environments throughout O‘ahu.

Policy: Encourage distinctive community identities for both new and existing districts and neighborhoods.
Policy: Require new developments in stable, established communities and rural areas to be compatible with the existing communities and areas.

Policy: Preserve and maintain beneficial open space in urbanized areas.

Discussion:
The proposed project is not expected to alter the existing features or characteristics of Coconut Island or the surrounding communities and areas. The proposed rehabilitation of the Lighthouse Pier will not alter the current design or identity of the existing pier. Installation of a new platform and refurbishment of the supporting piles of the currently deteriorating Lighthouse Pier will provide a much improved aesthetic view of the island.

Health and Education

Objective: To provide a wide range of educational opportunities for the people of O'ahu.

Policy: Encourage the provision of informal educational programs for people of all groups.

Policy: Facilitate the appropriate location of learning institutions from the preschool through the university levels.

Objective: To make Honolulu the center of higher education in the Pacific.

Policy: Encourage continuing improvement in the quality of higher education in Hawaii.

Policy: Encourage the development of diverse opportunities in higher education.

Policy: Encourage research institutions to establish branches on O'ahu.

Discussion:
The proposed project will conform to these policies by facilitating HIMB’s need to repair and to upgrade the utility systems to sustain its function as a center for marine research, which will in turn will continue to provide higher educational opportunities for the people of O’ahu as well as make Honolulu the center of higher education in the Pacific.

Culture and Recreation

Objective: To protect O’ahu’s cultural, historic, architectural, and archaeological resources.

Policy: Identify, and to the extent possible, preserve and restore buildings, sites, and areas of social, cultural, historic, architectural, and archaeological significance.
Objective: To provide a wide range of recreational facilities and services that are readily available to all residents of O‘ahu.

Policy: Provide convenient access to all beaches and inland recreation areas.

Discussion:
The proposed project will ensure the continued use of HIMB as a world leading marine research institution. Rehabilitation of the Lighthouse Pier is expected to restore Coconut Island’s first impression to visitors. Although the primary function of Coconut Island is for the purposes of research, access for public recreational use is provided in designated areas that are not situated near on-going research activities. The Proposed Action will preserve the island's use for recreational purposes by preventing potential future failure of the currently aged sewer line and a possible sewer spill in Kāne‘ohe Bay, which would have a detrimental impact to the water quality and the recreational use of the bay.

4.3.1.2 LAND USE ORDINANCE (Luo)

The purpose of the Land Use Ordinance (LUO) is to regulate land use in a manner that will encourage orderly development in accordance with adopted land use policies, including the County General Plan and development plans. The LUO is also designed to promote and protect the public health, safety and welfare through various actions such as:

Minimizing adverse effects resulting from the inappropriate location, use or design of sites and structures;

Conserving the city’s natural, historic and scenic resources and encouraging design which enhances the physical form of the city; and

Assisting the public in identifying and understanding regulations affecting the development and use of land.

The LUO is also intended to provide reasonable development and design standards. These standards are applicable to the location, height, bulk and size of structures, yard areas, off-street parking facilities, and open spaces, and the use of structures and land for agriculture, industry, business, residences or other purposes (Revised Ordinance for the City and County of Honolulu, Chapter 21).

Discussion:
Coconut Island is located within the Restricted Preservation District (P-1) of the City and County of Honolulu Land Use Ordinance. Further, the property at Lilipuna Road is located within the Residential District (R-10). Public facilities such as universities are allowed in R-10 districts.
4.3.2 OTHER RELEVANT PLANS AND POLICIES

4.3.2.1 KO'OLAUPOKO SUSTAINABLE COMMUNITIES PLAN (MARCH 2010)

The development/sustainable communities plans for each of the eight planning regions of O‘ahu are intended to help guide City land use approvals, infrastructure improvements, and private sector investment decisions responding to the specific conditions and community values of each region. “Development Plans” for the two of the eight planning regions, Ewa and the Primary Urban Center, the areas to which major growth in population and economic activity will be directed over the next 20 years and beyond, serve as the policy guides for the development decisions and actions required to support that growth. The remaining six planning regions, including Koʻolaupoko where the proposed project is located, are envisioned to remain relatively stable. The plans for those regions have been titled “Sustainable Communities Plans” and are focused on serving as policy guides for public actions in support of that goal. The vision statement and supporting provisions of the Koʻolaupoko Sustainable Communities Plan are oriented toward maintaining and enhancing the region’s ability to sustain its unique character and lifestyle. The project design and development will comply with the policies, and planning principles and guidelines outlined in the Koʻolaupoko Sustainable Communities Plan.

4.3.2.2 KĀNE‘OHE BAY MASTER PLAN

The Kāne‘ohe Bay Master Planning Task Force was established by the Legislature in 1990 and charged with developing a comprehensive master plan for Kāne‘ohe Bay. The Master Plan identifies resources at risk in this area, including: aquatic life in the bay, the Koʻolaupoko District watersheds of the twelve streams entering the bay, and wetland habitats; water quality; and open space on the bay’s inner and outer waters. The risks thereby impact resources such as the ecological diversity; sustainable recreational, subsistence and commercial uses; aesthetic value; as well as human health and safety. The Master Plan also identifies parties affected by resources at risk, including:

- residents in the Kāne‘ohe Bay watershed;
- recreational users of Kāne‘ohe Bay, including residents from all over Oahu, and visitors (e.g., boaters, fishermen, windsurfers, paddlers, divers, beachcombers);
- commercial users of Kāne‘ohe Bay (e.g., tour operators, fishermen, renters and vendors of recreational equipment--windsurf boards, kayaks, fishing tackle, SCUBA and snorkeling gear--and instructors—windsurfing and SCUBA) and their customers;
- research scientists (many associated with HIMB).

The Master Plan recognizes many barriers to sustaining the resources of Kāne‘ohe Bay, including:

- runoff and pollution from urban development;
- limited (public) access to the bay shore;
● deteriorating water and ecological quality in the bay;
● commercial recreation activities;
● overfishing;
● safety and public recreation conflicts; and
● inadequacy of existing mooring areas.

Discussion:
The proposed work items under this project are consistent with the planning concepts established by the Task Force. The proposed HDD method for the replacement of the utility lines will ensure that the natural resources within Kāne‘ohe Bay are preserved. Due to its age, the sewer force main has a potential to fail if not replaced in the near future. The proposed project provides a means of avoiding a potential sewer spill which would have a detrimental impact on the water quality and biological resources of Kāne'ōhe Bay.

4.3.3 NECESSARY PERMITS AND APPROVALS

4.3.3.1 SPECIAL MANAGEMENT AREA USE PERMIT (SMP)

As established in Chapter 25 of the ROH, “special controls on development within an area along the shoreline are necessary to avoid permanent loss of valuable resources and foreclosure of management options, and to insure that adequate public access is provided to public owned or used beaches, recreation areas, and natural reserves, by dedication or other means.” The proposed project is within the designated special management areas as established in Chapter 25, ROH (Figure 12); therefore, a SMP is required and will be submitted to the City and County of Honolulu Department of Planning and Permitting (DPP) for approval. The applicable objectives and policies of the special management area as specified in Chapter 25, ROH as well as Chapter 205A-2, HRS are discussed in the following sections.

Recreational Resources

Objective: Provide coastal recreational opportunities to the public.

Policy:

● Provide adequate, accessible, and diverse recreational opportunities in the coastal zone management area by providing and managing adequate public access, consistent with conservation of natural resources, to and along shorelines with recreational value.
● Provide adequate, accessible, and diverse recreational opportunities in the coastal zone management area by ensuring public recreational use 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.

Discussion:
The proposed replacement of utility lines servicing HIMB will allow for the continued recreational use of Kāne'ohe Bay by eliminating the potential for a major sewage spill, which would have a detrimental impact to the water quality and marine resources in the bay. Although the primary function of Coconut Island is for the purposes of research and education, access for public recreational use is provided in designated areas that are not situated near on-going research activities. Construction activities under the Proposed Action are not anticipated to occur in these areas and will not have impacts on the recreational use of the island.

**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.

**Policy:**
- Identify and analyze significant archaeological resources.
- Maximize information retention through preservation of remains and artifacts or salvage operations.
- Support state goals for protection, restoration, interpretation, and display of historic resources.

Discussion:
Although a study specific for this project was not conducted, existing archaeological studies were reviewed to determine whether there would be significant impacts to historical or archaeological resources under the Proposed Action. The Proposed Action is not anticipated to have any impacts to the existing historic and cultural resources within the project area. Archaeological monitoring will be conducted during all trenching and ground disturbing activities on Coconut Island proposed under the Preferred Alternative to ensure that historic resources within the project area are preserved.

**Scenic and Open Space Resources**

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

**Policy:**
- Identify valued scenic resources in the coastal zone management area.
• 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.

• Preserve, maintain, and, where desirable, improve and restore shoreline open space and scenic resources.

Discussion:
The proposed rehabilitation of Lighthouse Pier, which is the primary arrival point on Coconut Island, making it the first impression of the island to visitors, is expected to significantly enhance the visual aesthetics of the island. None of the work proposed under the Proposed Action is expected to significantly alter the existing visual conditions of the project area. The Proposed Action will promote the preservation of the natural beauty of Coconut Island by replacing the old utility lines and associated structures.

Coastal Ecosystems

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

Policy:
• Preserve valuable coastal ecosystems, including reefs, of significant biological or economic importance.

Discussion:
The proposed replacement of utility lines will contribute to the protection and preservation of the coastal ecosystem by eliminating the potential for a major sewage spill in Kāne'ōhe Bay, which would have a detrimental impact to the water quality and marine resources in the bay. HDD minimizes the impacts to the surrounding ecosystems by minimizing the chance of release of sediment in bay waters. This method proposed under the Preferred Alternative will minimize potential impacts to the water quality and natural ecosystem including the reef in Kāne'ōhe Bay. For the remaining work items proposed under the Preferred Alternative, implementation of BMPs to reduce runoff entering nearshore waters is expected to minimize impacts to the surrounding coastal ecosystems. At the Lighthouse Pier where in-water work is expected, use of a barge or workboat during construction at most tide state (except for during minus/negative low tides) will allow work to be conducted without damaging the corals. In-water work in areas where live corals are present in much shallower depths will be avoided to prevent damage to the corals. If it is determined necessary, translocation of the corals in this area may be considered during the detailed design phase of the project. There will be no work on the pilings underwater where the corals are attached; therefore, no impacts to the corals attached to the pilings are anticipated.
Economic Uses

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

Discussion:
The Proposed Action is anticipated to have significant long-term beneficial economic impacts to the UH, the community, and the State in terms of continued research funding with the rehabilitation of Coconut Island’s infrastructure systems necessary to sustain and facilitate the physical operations of HIMB as a world class marine education and research facility. Visiting researchers will continue to come to HIMB and more will visit other tenant organizations on the island.

Coastal Hazards

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

Policy:
- Develop and communicate adequate information about storm wave, tsunami, flood, erosion, subsidence, and point and nonpoint source pollution hazards.
- Control development in areas subject to storm wave, tsunami, flood, erosion, hurricane, wind, subsidence, and point and nonpoint source pollution hazards.
- Ensure that developments comply with requirements of the Federal Flood Insurance Program.

Discussion:
A limited amount of ground surface is expected to be exposed temporarily during HDD installation and trenching activities involved with the replacement of the utility lines. Exposed soils are susceptible to erosion, especially if it rains heavily during site work periods. Adverse impacts would be minimized or avoided as a result of both temporary and permanent erosion and sedimentation control measures during ground disturbing and trenching activities. This may involve silt fences or grass block pavers in and around the areas where soil may be disturbed to prevent runoff from reaching Kāne‘ohe Bay. All proposed work shall comply with State and City and County erosion control standards and requirements. No new permanent developments within areas subject to coastal hazards are expected under the Proposed Action. The project complies with the requirements of the Federal Flood Insurance Program.

Managing Development

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

- 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:

Meetings and briefings have been held frequently with community leaders and stakeholders throughout the permit preparation, review, and processing stages in order to keep the public informed of the project status and to incorporate any concerns or opinions they may have regarding the proposed project. In accordance with the public review process established by HRS, Chapter 343, the Draft EA was distributed among federal, state, and county agencies, utilities, community organizations and leaders for a 30-day response period. In addition, the availability of the Draft EA was announced in the OEQC Environmental Notice publication for a required 30-day public review period. Comments received during these public review periods were incorporated in the Final EA.

Public Participation

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

Policy:

- 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 related issues, developments, and government activities.

Discussion:

This project will allow HIMB to continue to function as a world-class marine research facility and to support its ongoing and future marine research and educational programs.

Beach Protection

Objective: Protect beaches for public use and recreation.

Policy:

- Locate new structures inland from the shoreline setback to conserve open space and to minimize loss of improvements due to erosion.

- 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.

- Minimize the construction of public erosion-protection structures seaward of the shoreline.
Discussion:
The Proposed Action does not involve construction of any new buildings or structures but entails temporary construction and repair work within the shoreline setback area. As such, these activities will require the issuance of a variance by DPP.

Marine Resources

Objective: Implement the State’s ocean resources management plan.

Policy:

- Exercise an overall conservation ethic, and practice stewardship in the protection, use, and development of marine and coastal resources.
- Assure that the use and development of marine and coastal resources are ecologically and environmentally sound and economically beneficial.
- Coordinate the management of marine and coastal resources and activities management to improve effectiveness and efficiency.
- 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.
- Encourage research and development of new, innovative technologies for exploring, using, or protecting marine and coastal resources.

Discussion:
No threatened or endangered marine species nor candidate species were found during the biological survey of the project area, and no known designated or proposed critical habitat for threatened or endangered species exist in the project area. Several marine species may temporarily be impacted during the construction period; however, as discussed in Section 3.2.5.2, with the implementation of the proposed BMPs during the construction period, no long-term significant impacts to these marine resources are anticipated under the Preferred Alternative.

Potential impact to coastal waters under the Preferred Alternative is the release of drilling mud into Kāne'ōhe Bay during the HDD installation. Prevention of drilling mud seepage will be a major consideration in the design. Geotechnical borings will be taken along the proposed alignment to profile the type of soil and rock to be encountered and establish the burial depth and bentonite mixture to stabilize the borehole. During construction, the Contractor will be required to continuously monitor for any inadvertent release of mud into Kāne'ōhe Bay. For all earth disturbing activities on land, sediment barriers such as silt screens and sand bags will be used to protect the neighboring sites and Kāne'ōhe Bay from the potential impacts from runoff. With the implementation of these mitigation measures, no significant impacts to coastal water resources are anticipated under the Preferred Alternative.
In the long-term, the Preferred Alternative is expected to have beneficial impacts to the marine and coastal resources in the area by preventing a potential major sewer spill in Kāne'ohe Bay. The Preferred Alternative will also allow for the continued use of the island’s facilities, which is imperative to the continuation of marine biological research and educational programs at HIMB.

4.3.3.2 SHORELINE SETBACK VARIANCE (SSV)

According to Chapter 23, ROH, “it is a primary policy of the city to protect and preserve the natural shoreline, especially sandy beaches; to protect and preserve public pedestrian access laterally along the shoreline and to the sea; and to protect and preserve open space along the shoreline. It is also a secondary policy of the city to reduce hazards to property from coastal floods.” The shoreline setback line is established at 40 feet inland from the certified shoreline (Figure 13). The Proposed Action entails replacement/re-routing of utility lines as well as the rehabilitation of the Lighthouse Pier. No additional buildings or activities will be added beyond what is already in existence, but the temporary construction activities required to make such repairs will take place within the 40-foot shoreline setback. As such, a SSV will be submitted to DPP for approval.

The Proposed Action meets the criteria for granting a shoreline setback variance according to the Public Interest Standard pursuant to Section 23-1.8(b)(2), ROH. This section states that the director may grant a variance for “an activity or structure that is necessary for or ancillary to facilities or improvements by a public agency….; provided that the proposal is the practicable alternative which best conforms to the purpose of this chapter and the shoreline setback rules.” The same provision includes, “Public interest” to mean principally, “of benefit to the general public, as determined by the director.”
Project Site: Coconut Island

SCALE: 1" = 300 FEET

Legend
- Project Site
- 40 ft Shoreline Setback

Reference:
Google Earth, 2013

COCONUT ISLAND INFRASTRUCTURE REHABILITATION AND REPLACEMENT PROJECT
SHORELINE SETBACK VARIANCE
KĀ'NE'OHE, O'AHU, HAWAI'I

FIGURE 13
4.3.3.3 SECTION 401 WATER QUALITY CERTIFICATION

The Federal Clean Water Act and HRS Chapter 342D, along with their supporting rules (HAR Title 11, Chapter 54), require that a Water Quality Certification be obtained to support federal permits or approvals for which proposed construction or operation may result in discharges to State waters, e.g., Section 404 permit from the USACE. Applications should be filed with the Clean Water Branch of the DOH at least 180 days before the date the Water Quality Certification is needed. Since the proposed project is not expected to generate discharges to State waters during construction, a Section 401 Water Quality Certification is not required.

4.3.3.4 SECTION 402 NPDES PERMIT

Discharge of pollutants into surface waters of the U.S. are controlled under the National Pollutant Discharge Elimination System (NPDES) program, pursuant to Section 402 of the Clean Water Act. This program is administered by the DOH under HAR Title 11, Chapter 55 Water Pollution Control (October 29, 1992). This chapter requires submission of a NPDES application or a Notice of Intent (NOI) for NPDES General Permit coverage, for discharges of regulated pollutants, or for substantially altering the quality of any discharge, or for substantially increasing the quantity of discharge.

The State’s NPDES general permit program does not allow discharges into Class AA waters such as Kane‘ohe Bay. Any discharges associated with construction activities such as dewatering or hydrotesting must be prevented from entering the east and west lagoons. Since the Proposed Action will not result in disturbance of more than one acre of total land area, a NPDES is not required for the proposed construction activities. A NPDES permit will be acquired for the hydro-testing of the newly installed water line.

4.3.3.5 RIVERS AND HARBORS ACT

Section 10 of the Rivers and Harbors Act prohibits the obstruction or alteration of navigable waters of the U.S. and alterations or modifications of the course, location, condition, or capacity of any port, harbor or refuge, or enclosure within the limits of any breakwater or of the channel of any navigable water without a permit from the USACE. Shore protection and dock/pier repairs and renovation will require Corps permits. As stated in Section 4.1, the utility line rehabilitation/replacement and Lighthouse Pier restoration proposed under the Preferred Alternative require a Section 10 Permit since these work items will involve work in/over Kāne‘ohe Bay. The USACE authorizes activities by issuing individual and general permits. Individual permits include Standard Individual Permits and Letters of Permission, and general permits include Nationwide Permits and Regional General Permits. The USACE determines which type of permit is needed once the application has formally been submitted.
4.3.3.6 MARINE PROTECTION, RESEARCH, AND SANCTUARIES ACT

The Marine Protection, Research, and Sanctuaries Act enacted in 1972 regulates the dumping of all types of materials into ocean waters that would adversely affect the marine environment, ecological systems, economic potentialities, or human health, welfare, or amenities. When construction is regulated by other Federal or State laws, this Act does not apply to the construction of any fixed structure or the intentional placement of any device in ocean waters for a purpose other than disposal. Since the Clean Water Act already regulates any disposal of materials that may occur as a result of the proposed project, there will be no additional permits required under this Act.

4.3.3.7 CLEAN AIR ACT

The federal Clean Air Act (CAA) was first promulgated in 1963 and presents a framework of air quality standards and emission control provisions for controlling air pollution. Since then, amendments have been made to the CAA to increase federal involvement.

The federal Clean Air Act Amendments (CAAA) of 1990 set forth new initiatives in an effort to achieve the overall goal of attaining compliance with the NAAQS. Such requirements included establishing timelines for EPA to develop regulations concerning acid rain, toxic air pollutants, and motor vehicle pollutants, and for states to implement these regulations.

The CAAA requires that states submit State Implementation Plans (SIPs) to show how attainment or maintenance of NAAQS will be met and requires that an approved operating permit program be implemented. DOH has established an approved operating permit program, detailed in HAR Title 11, Chapter 60.1 (Air Pollution Controls) that encompasses requirements set forth in the CAAA. Such requirements include demonstrating compliance with the following emission control strategies:

- New Source Performance Standards (NSPS);
- National Emission Standards for Hazardous Air Pollutants (NESHAPS); and
- Prevention of Significant Deterioration (PSD).

4.3.3.8 REQUIREMENTS FOR CONSTRUCTION ACTIVITIES

The following City and County of Honolulu permits are associated with construction activities and are expected to be required for the Proposed Action:

- Grubbing, Grading, and Stockpiling Permit from the DPP;
- Building Permits from the DPP;
- Sewer Connection Approval from the Department of Environmental Services; and
- Potable Water Allocation from the DLNR and the BWS.
4.3.3.9 SUMMARY

The following is a summary of the permits and approvals required for the project:

- NPDES (to be submitted by the contractor for the hydro-testing of the newly installed water line);
- USACE Section 10 Permit;
- SMP;
- SSV Permit; and
- DLNR easement for utility lines.
In accordance with the provisions set forth in Chapter 343, HRS, this EA has preliminarily determined that the project will not have significant adverse impacts on the environment. As such, a Finding of No Significant Impact (FONSI) is being issued for the Proposed Action. Anticipated impacts will be temporary and will not adversely impact the environmental quality of the area. Therefore, an Environmental Impact Statement (EIS) is not required.

A review of the “Significance Criteria” used as a basis for the above determination is presented below. An action is determined to have a significant impact on the environment if it meets any one of the thirteen (13) criteria.

**Involves an irrevocable commitment to loss or destruction of any natural or cultural resources.**

The Preferred Alternative would not cause the loss or destruction of any natural, historic, or cultural resource. Three State Sites (50-80-10-6590, 50-80-10-7204, and 50-80-10-7205) exist on Coconut Island; however, construction activities are not anticipated to have impacts on these sites. Archaeological monitoring will be conducted during all trenching and ground disturbing activities on Coconut Island. Although unlikely, if human osteological remains or any potential culturally significant features are accidentally unearthed during construction, site work would cease and the SHPD would be contacted in compliance with HRS Section 6E. Processes outlined in existing State regulations, specifically in HAR Title 13, Chapter 300 (Section 33 and Section 40), would be employed following discovery.

**Curtails the range of beneficial uses of the environment.**

The Preferred Alternative would not curtail the range of beneficial uses of the environment. The project site is currently a marine research facility. The surrounding areas are maintained as residential areas. Although temporary impacts to those who regularly work or conduct research on Coconut Island are expected during the construction phase, no permanent impacts to the use of Coconut Island or the surrounding areas are expected as an outcome of the Preferred Alternative.

**Conflicts with the State’s long-term environmental policies or goals and guidelines as expressed in Chapter 343, HRS; and any revisions thereof and amendments thereto, court decisions, or executive orders;**

The Preferred Alternative would be in conformance with the Chapter 343 HRS State Environmental Policy, to conserve the natural resources and enhance the quality of life. Construction activities proposed under the Preferred Alternative are not expected to have any adverse impacts to the surrounding natural resources and would be planned to minimize any temporary impacts. The Preferred Alternative would ensure the continued use of HIMB as a world leading marine research institution, which would create opportunities for the residents of Hawai‘i through increased direct, indirect and induced jobs and expanding diversification of careers in higher education.
Substantially affects the economic or social welfare of the community or State;
The Preferred Alternative would generate short-term economic vitality for the community by providing temporary construction opportunities for the duration of the construction phase of the project. No significant impacts on the economic or social welfare of the community or the State are anticipated under the Preferred Alternative.

Substantially affects public health;
The Preferred Alternative would have no significant effects on public health.

Involves substantial secondary impacts, such as population changes or effects on public facilities;
The Preferred Alternative is expected to have beneficial impacts to HIMB as a public research and educational facility by providing the much needed replacement/upgrades of the existing utilities. This would result in technological improvements to the island’s infrastructure and utilities, allowing for the continued use of the island as one of the most renowned marine research facilities in the world.

Involves a substantial degradation of environmental quality;
The Preferred Alternative is not anticipated to involve a substantial degradation of environmental quality. During construction activities, BMPs adhering to all applicable DOH and EPA regulations will be instituted in order to prevent excess runoff and other potential degradation of the surrounding natural environment.

Is individually limited, but cumulatively has considerable effect on the environment, or involves a commitment for larger actions;
The Preferred Alternative is not anticipated to result in cumulative effects; therefore, it would not involve a commitment to larger actions.

Substantially affects a rare, threatened, or endangered species or its habitat;
The Preferred Alternative is not anticipated to have substantial effects on a rare, threatened, or endangered species, or any critical habitat. No threatened or endangered plant or animal or marine species nor candidate species were found during the flora, fauna, and marine survey of the project site. The project site does not encompass any designated or proposed critical habitat for threatened or endangered species. Measures to minimize the chance of any potential impacts to the biological resources within the project site will be used during the construction period.

For the rehabilitation of Lighthouse Pier where in-water work is anticipated, construction work will be designed to avoid any impacts to the coral species and marine resources in the vicinity of the pier. Although not observed during the biological survey, the threatened green sea turtle (*Chelonia mydas*) and Hawaiian monk seal (*Monachus schauinslandi*) have occasionally been seen in waters at the
Lighthouse Pier. If these species are observed within 50-yards of the in-water construction area, all work will cease until the species voluntarily leaves the area.

**Detrimentally affects air or water quality or ambient noise levels;**

No significant impacts on the area’s long-term air or water quality or ambient noise levels are anticipated to result from the Preferred Alternative. BMPs will be implemented to minimize temporary impacts during construction activities. Dust abatement measures will be used to reduce potential of impact to air quality, and water quality impacts will be mitigated with the use of sediment barriers such as silt screens or sand bags to contain runoff that may potentially reach the surrounding water. In addition, construction noise that exceeds DOH guidelines will be mitigated to reduce the potential of noise level exceedances.

**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 Preferred Alternative would not affect environmentally sensitive areas, such as a floodplain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, freshwater, or coastal waters and does not include construction of new structures that would be prone to damage by located in an environmentally sensitive area. The project site is within Flood Zone X which is defined as an area outside of the 0.2 percent (500-year flood) annual chance floodplain. Although unlikely, BMPs during construction activities would greatly minimize any potential impacts on coastal waters during flooding events.

**Substantially affects scenic vistas and view planes identified in City and County or State plans or studies; or**

The Preferred Alternative would not adversely affect the visual aesthetics of the areas identified in the City and County or State plans and studies. Temporary construction-related visual impacts are expected; however, all visual disturbances will be restored to pre-construction condition at the end of the construction phase.

**Requires substantial energy consumption.**

The Preferred Alternative would not require substantial energy consumption. Energy consumption on Coconut Island is expected to remain the same.
This page is intentionally left blank.
SECTION 6
AGENCIES AND ORGANIZATIONS CONSULTED
The following is a list of agencies and organizations to which pre-assessment letters as well as notices of the availability of the draft EA for review were sent. Appendix C-1 includes the pre-assessment letters sent and the responses received. Appendix C-2 includes a summary of the comments and feedbacks received as well as the individual comment and response letters.

**Table 6-1: List of Agencies and Organizations Consulted**

<table>
<thead>
<tr>
<th>Consulted Agency or Organization</th>
<th>Pre-Assessment Response Received</th>
<th>Draft EA Public Response Received</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Federal Agencies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USACE</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>USGS</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>USFWS</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>United States Department of Agriculture (USDA) Natural Resources Conservation Service</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOAA</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>EPA - Pacific Islands Contact Office</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>State Agencies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department of Accounting and General Services</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Department of Agriculture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department of Business, Economic Development and Tourism (DBEDT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBEDT - Energy Division</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DBEDT - Office of Planning</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Department of Defense</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Department of Emergency Management</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Department of Hawaiian Home Lands</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>DOH Environmental Planning Office</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>DOH Clean Water Branch</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Department of Human Services</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Department of Labor and Industrial Relations</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>DLNR - Historic Preservation Division</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DLNR - Land Division</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Department of Transportation</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Disability and Communication Access Board</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>OEQC</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Office of the Governor (Neil Abercrombie)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office of Hawaiian Affairs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UH Environmental Center</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UH Water Resources Research Center</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BWS</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>City and County of Honolulu</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department of Community Services</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Department of Design and Construction</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Department of Environmental Services</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Department of Facility Maintenance</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Department of Planning and Permitting</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Department of Parks and Recreation</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Department of Transportation Services</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Honolulu Fire Department</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Honolulu Police Department</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Office of the Mayor (Kirk Caldwell)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Libraries</td>
<td>Libraries</td>
<td></td>
</tr>
<tr>
<td>----------------------------</td>
<td>----------------------------</td>
<td></td>
</tr>
<tr>
<td>Kāneʻohe Public Library</td>
<td>Municipal Library, Honolulu (Municipal Reference Center)</td>
<td></td>
</tr>
<tr>
<td>Legislative Reference Bureau</td>
<td>State Main Library (Hawaiʻi State Library)</td>
<td></td>
</tr>
<tr>
<td>UH Hamilton (University of Hawaiʻi at Manoa Library)</td>
<td>Honolulu Star Advertiser</td>
<td></td>
</tr>
<tr>
<td>News Media</td>
<td>Elected Officials</td>
<td></td>
</tr>
<tr>
<td>U.S. Senator (Mazie Hirono)</td>
<td>U.S. Senator (Schatz Brian)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>U.S. Representative (Colleen Hanabusa)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>U.S. Representative (Tulsi Gabbard)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>State Senator (District 23) (Clayton Hee)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>State Senator (District 24) (Jill Tokuda)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>State Representative (District 48) (Jessica Wooley)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>State Representative (District 49) (Ken Ito)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>County Council Member (District 3) (Ikaika Anderson)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Neighborhood Commission Office, Chair, Kāneʻohe Neighborhood Board No. 30</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HECO</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hawaiian Telcom</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hawaiʻi Gas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oceanic Time Warner</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Koʻolauloa Hawaiian Civic Club</td>
<td></td>
</tr>
<tr>
<td>Utility Companies</td>
<td>Citizen Groups and Individuals</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>HIMB</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Friends of Kāneʻohe Bay</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Kāneʻohe Bay Regional Council</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Ahupuaʻa Restoration Council of Heʻeia</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Friends of Heʻeia State Park</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kāneʻohe Business Group</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kāneʻohe Outdoor Circle</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Loren Lasher</td>
<td></td>
</tr>
<tr>
<td>Citizen Groups and</td>
<td>MCBH</td>
<td></td>
</tr>
<tr>
<td>Individuals</td>
<td>Na Maka o Moku o Loʻe</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heʻeia Historical Society</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kahaluʻu Neighborhood Board</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kailua Neighborhood Board</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Polynesian Voyaging Society (PVS)</td>
<td></td>
</tr>
</tbody>
</table>


February 2014  HAWAI'I INSTITUTE OF MARINE BIOLOGY – U.H.  Page 120


SCS, 2003. An Archaeological Inventory Survey of Moku O Lo‘e (Coconut Island), Kāne‘ōhe Bay, Located in the Ahupua‘a of He‘eia, O‘ahu Island, Hawai‘i [TMK: 4-6-01 and TMK: 4-6-51].

SCS, 2012. An Archaeological Monitoring Report for the Moku O Lo‘e (Coconut Island) New Waterline and Fire Hydrant Installation Project, Kāne‘ohe Bay, He‘eia Ahupua‘a, Ko‘olaupoko District, Island of O‘ahu, Hawai‘i [TMK (1) 4-6-001:001 and 051].


APPENDIX A
ENGINEERING DRAWINGS
APPENDIX B
PILEMEDIC™ INFORMATION SHEET
PileMedic™ for Encapsulating Underwater Piles
A Patent-Pending Technology Developed by QuakeWrap, Inc.

Guilford House Condominiums
9800 West Bay Harbor Drive,
Bay Harbor Isles, FL

Deteriorated Pile
Cut PileMedic™ sheet to desired size

Mix QuakeBond™ 220UR (Underwater Resin) and apply QuakeBond™ 220UR to the back of PileMedic™ with a thickness of about 30-40 mil
Transport the PileMedic™ sheet into water
Wrap PileMedic™ around deteriorated pile to create a double-layer cylindrical jacket

Temporarily support the jacket by wrapping a couple of ratchet straps around it
Mix grout and fill the annular space between the jacket and the pile with grout
Wait 24 hours for the underwater resin to cure and remove the ratchet straps

Advantages
- One size fits all piles (no delays for customized jackets)
- No weak seams along height
- No metallic parts
- No costly divers
- Grout can be pressurized
- Provides structural confinement
- Available in carbon or glass

Phone: 520-791-7000
www.PileMedic.com
www.QuakeWrap.com
APPENDIX C-1
MEETING MINUTES, PRE-ASSESSMENT
CONSULTATION LETTERS AND RESPONSES
## Community and Community Leader Meetings

<table>
<thead>
<tr>
<th>Date</th>
<th>Consulted Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 15, 2013</td>
<td>Kaneohe Neighborhood Board No. 30 (agenda and minutes enclosed)</td>
</tr>
<tr>
<td>September 20, 2013</td>
<td>State Senator Jill Tokuda, District 24</td>
</tr>
<tr>
<td>September 30, 2013</td>
<td>Councilmember Ikaika Anderson (Sr. Advisor Gail Myers)</td>
</tr>
<tr>
<td>October 16, 2013</td>
<td>Department of Planning &amp; Permitting, City and County of Honolulu: George Atta and Land Use Permitting Staff</td>
</tr>
<tr>
<td>November 14, 2013</td>
<td>State Senator Clayton Hee (District 23), and State Representative Jessica Wooley (District 47 or 48?)</td>
</tr>
<tr>
<td>January 8, 2014</td>
<td>Kahaluu Neighborhood Board No. 29 (agenda enclosed)</td>
</tr>
<tr>
<td>January 16, 2014</td>
<td>Kaneohe Neighborhood Board No. 30</td>
</tr>
</tbody>
</table>
Rules of Speaking: Anyone wishing to speak is asked to raise their hand, and when recognized by
the Chair, to address comments to the Chair. Speakers are encouraged to keep their comments
under 3 minutes, and those giving reports are urged to keep their reports under 3 minutes. Please
silence all electronic devices.

Note: The Board may take action on any agenda item. As required by the State Sunshine Law
(HRS 92), specific issues not noted on this agenda cannot be voted on, unless added to the
agenda. A two-thirds vote (12) of this 17-member Board is needed to add an item to the agenda.
Items may not be added if they are of major importance and will affect a significant number of
people.

I. CALL TO ORDER – Chair Roy Yangihara

II. FILLING OF VACANCIES ON BOARD
   A. SD 5 – Lilipuna, one vacancy
   B. SD 7 – Puahala, one vacancy
   C. SD 11 - Behind Castle High School, one vacancy

III. CITY/STATE MONTHLY REPORTS (Limited to 3 minutes each)
   A. Honolulu Fire Department
   B. Honolulu Police Department
   C. Marine Corps Base Hawaii

IV. RESIDENTS’/ COMMUNITY CONCERNS (Limited to 3 minutes each)

V. Elected Officials
   A. Mayor Kirk Caldwell’s Representative
   B. Councilmember Ikaika Anderson
   C. Governor Neil Abercrombie’s Representative
   D. Senator Jill Tokuda
   E. Senator Clayton Hee
   F. Representative Jessica Wooley
   G. Representative Cynthia Thielen
   H. Representative Ken Ito

VI. Community Organizations
   A. Hawaii Pacific University
   B. Windward Community College
   C. Hope Chapel
VII. BOARD BUSINESS
   A. Adoption of July 18, 2013 General meeting minutes
   B. Adoption of the Aug 6, 2013 Agenda Planning Meeting minutes
   C. Report of the Emergency Preparedness Committee
      Status of the Tsunami Preparedness Application and announcement of Emergency
      Preparedness Tabletop Workshop, Chad Kaukani
      i. Status of inventory emergency radios in schools, Chad Kaukani
      ii. Use of NextDoor.com to organize neighborhoods for more resilient response
          to emergencies – Jonathan Hanks
   D. University of Hawaii at Manoa Hawaii Institute of Marine Biology (HIMB) infrastructure
      system renovation project, Colette Sakoda Senior Project Manager/Environmental
      Planner with Environet, Inc.
   E. Board of Water Supply’s Construction project, Heeia Street to Heeia Small Boat
      Harbor
   F. Report on use of natural gas as an alternative to fossil fuels, Wendel Lum
   G. Board Photo Shoot, Tina Mueller

VIII. REPORTS (Limited to 3 minutes each)
   A. Treasurer’s Report
   B. Legislative
   C. State Legislature Committee – Chair Roy Yanagihara
   D. City and County Ordinance Committee – (Vacant)
   E. Public Health and Safety – Chair John Flanigan
   F. Mental Health Committee – (Vacant)
   G. Safety Committee – Co-Chairs Felipe San Nicolas, Bill Sager
   H. Planning Committee – (Vacant)
   I. Transportation Committee – (Vacant)
   J. Education Committee – Chair Maurice Radke
   K. Environmental Committee – Chair Bill Sager
   L. Windward Civilian/Military Committee – Chair John Flanigan
   M. OMPO Citizen Advisory Committee – John Beloue
   N. Neighborhood Board Website Contact Committee – Co-Chairs Tina Mueller, Bill
      Sager
   O. Publicity Committee – (Vacant)
   P. Haiku Stairs Special Task Force – Chair Maurice Radke
   Q. Special Information Gathering Committee Bar and Cabaret Licenses
   R. Emergency Management Planning Committee – William Sager

IX. ANNOUNCEMENTS

   Next Regular Board Meeting – Thursday, September 19, 2013 at 7:00 p.m. at Benjamin
   Parker School
   Next Agenda Planning Meeting – Tuesday, September 3, 2013 at 7:00 p.m. at Kaneohe
   Community and Senior Center

X. ADJOURNMENT
A mailing list is maintained for interested persons and agencies to receive this board’s agenda and minutes. Additions, corrections, and deletions to the mailing list may be directed to the Neighborhood Commission Office (NCO) at Honolulu Hale, Room 406, 530 South King Street, Honolulu, Hawaii 96813; Telephone (808) 768-3710 Fax (808) 768-3711; or call Neighborhood Assistant Jenilea Heath at (808) 768-3781 or e-mail jheath@honolulu.gov. Agendas and minutes are also available on the internet at www1.honolulu.gov/nco.

Any individual wishing to attend a Neighborhood Board meeting who has questions about accommodations for a physical disability or a special physical need should call the NCO at 768-3710 between 8:00 a.m. and 4:00 p.m. at least 24 hours before the scheduled meeting.

AGENDA PLANNING COMMITTEES’ MEETING MINUTES
TUESDAY, AUGUST 6, 2013
KANEHOE COMMUNITY AND SENIOR CENTER
7:00 p.m.

Meeting was called to order at 7:00 pm
Members Present: Patty Yamashiro, Bill Sager, John Flanigan, Joni M. Kamiya, Jon Hanks, and Chad Kaukani.
Guests: Colette Sokuda

1. DISCUSSION OF AGENDA ITEMS FOR UP-COMING KANEHOE NEIGHBORHOOD BOARD NO. 30

   A. UNFINISHED BUSINESS
      a. Emergency Preparedness Table Top Workshop
      b. Progress in inventorying School Emergency Radios. Chad has completed inventory of all public schools.
      c. Implementation of NextDoor.com as a neighborhood-organizing tool for disaster preparedness.

   B. NEW BUSINESS
      a. Board Photo
      b. University of Hawaii at Manoa Hawaii Institute of Marine Biology (HIMB) infrastructure system renovation project, Colette Sakoda Senior Project Manager/Environmental Planner with Environet, Inc.
      c. Board of Water Supply’s Construction project, Heeia St to Heeia Small Boat Harbor

   C. Discussion of the demise of the Kaneohe Bay Regional Council and how the Kaneohe Neighborhood Board might act in its place to have the provisions of the Kaneohe Bay Master Plan regarding commercial operations in the Bay enforced.

2. Meeting adjourned at 8:15 pm
CALL TO ORDER: Chair Roy Yanagihara called the meeting to order at 7:00 p.m. Quorum was established with 12 members present. (Note: This 17-member Board requires nine (9) members to establish quorum and to take official Board action.


MEMBERS ABSENT: Patty Yamashiro-Hironaka and Lori Zakahi.

VACANCIES: Three (3) vacancies, one (1) seat each in Subdistricts 5, 7, and 11.

GUESTS: Dymian Racoma and Lester Fujikami (Board of Water Supply), Captain Jeff Sanchez (Honolulu Fire Department), Captain Pam Marshall and Tiffany Patrick (Marine Corps Base Hawaii), Lieutenant Dave Eber (Honolulu Police Department), Lori Kahikina (Mayor Kirk Caldwell’s Representative), Francisco Figueiredo (Councilmember Ikaika Anderson’s Representative), Sam Oku (Hawaii Pacific University), Noriko Namiki (Young Women’s Christian Association), Puna Kaneakua, Herman Co, and Colette Sakoda (Environet), Jason Gilbert, J.P. Bingham, Ben Baniaga, Ted Kanemori, Wendell Lum, Robert Harter, and Jenilea M. Heath (Neighborhood Commission Office).

FILLING OF THREE (3) VACANCIES (One (1) Seat each for Subdistricts 5, 7, and 11): As there were no volunteers, this item was deferred to the next meeting.

TREASURER’S REPORT: Kaneohe Neighborhood Board No. 30 total budget allocation was $1795.00. $1252.00 was allocated for the Benjamin Parker School facility rental contract, and a total of $36.50 was spent in the month of July 2013, leaving a remaining balance of $497.40. The report was filed.

PUBLIC SAFETY AND MILITARY REPORT

Honolulu Fire Department (HFD): Captain Jeff Sanchez reported the following:

- July 2013 Statistics: Included 5 structure fires, 1 rubbish fire, 4 vehicle fires, 76 medical emergencies, 2 search and rescues, and 46 miscellaneous calls for Kaneohe Fire Station No. 17.
- Fire Safety Tip: Candle Safety. Never sleep in or leave a room with a burning candle. Avoid using candles in the bedroom, and areas where people sleep. Keep candles at least 12 inches away from any flammable items. Use sturdy candle holders. Never use a candle if an oxygen tank is used in the home. Use flashlights and not candles during power outages. Never leave a child in a room alone with a burning candle, matches, or lighters.

Honolulu Police Department (HPD): Lieutenant Dave Eber reported the following:

- July 2013 Statistics: There were 8 assaults, 9 auto/motorcycle thefts, 31 burglaries, 5 drugs/narcotics cases, 5 calls for graffiti, 2 robberies, 68 thefts, and 39 unauthorized entries into motor vehicles (UEMV), totaling 167 calls for service.
- Thefts and Burglaries: In the Kaneohe area, five (5) males were arrested in July 2013 for three (3) separate burglary cases. Four (4) males were arrested in Kailua for theft. Five (5) males and one (1) female were also arrested for UEMVs in Kailua, as well as six (6) males in Kaneohe. All have had charges brought against them.

Questions, comments, and concerns followed:

1. License Plates: Community member Ben Baniaga asked if it is illegal to have a license plate missing while driving. Lieutenant Eber answered that it is a violation to have either front or back license plate missing or covered.
2. Theft: Flanigan asked what the difference is between robbery and larceny. Lieutenant Eber explained that larceny is equivalent to theft. As defined by HPD, “theft” would be a crime such as shoplifting or taking an
unwatched bag at a beach. “Robbery” includes the use of force or threat of force to commit a theft, such as a mugging.

3. **Age**: Lieutenant Eber answered for San Nicholas that the suspects in the burglary cases are in their teens and twenties.

**Marine Corps Base Hawai’i (MCBH)**: Community Relations Officer Johanna Marizan-Ho reported the following:

- **Furloughs**: Civilian furloughs will be ended on Friday August 16, 2013.
- **Runway**: The Base’s runway will be closed for repair from August 28 to October 28, 2013. Residents may notice a decrease in fixed wing aircrafts.
- **Community Service**: MCBH marines completed 400 hours of community service during the month of July 2013.
- **Aircraft Carrier**: There is a possibility of a Navy aircraft carrier stopping in Hawaii. It is planned that there will be a media day to display what the aircrafts and the carrier can do. Some of the aircrafts are new tilt-rotor planes, which can take off like a fixed-wing airplane or like a helicopter. The proposed media day is not yet definite.

Questions, comments and concerns followed: **Fewer Planes**: It was clarified for Gavigan that due to the runway closure, there will be fewer planes taking off and landing at MCBH until October 28, 2013.

**PUBLIC INPUT AND RESIDENTS’ CONCERNS**:

**Young Women’s Christian Association (YWCA) Kokokahi**: Noriko Namiki, the interim chief directing officer of the Kaneohe YWCA extended an invitation to the Kokokahi Community Fair, which will be held Saturday September 14, 2013 from 9:00 a.m. to 4:30 p.m. Namiki explained that over the last five (5) years a lot of work has been done at Kaneohe YWCA location, and the organization would like to show the public what improvements have been made. There will be hula, tree climbing, canoe rides, food trucks, vendors, and other entertainment. The event will be free to the public, and there will be free parking. More information can be found at [www.ywcaoahu.org](http://www.ywcaoahu.org).

Questions, comments, and concerns followed: **Parking**: Namiki answered for San Nicholas that parking will be available at Castle High School, and there will be a shuttle, along with police present to manage traffic.

**Ben Baniaga**: Baniaga made note of two issues:

- **Turn Sign**: Baniaga requested that the “no right turn on red” sign at the intersection of Pua Inia Road and Kamehameha Highway, be modified to “no right turn on red, except between 11:00 p.m. and 5:00 a.m.”
- **Gap in Road**: Baniaga’s neighbor noted that while driving down Lilipuna Drive coming from Kamehameha Highway, there is a gap running down the middle of the road from being poorly repaved. Baniaga’s neighbor witnessed a bicyclist barely miss a major collision when the cyclist got his tire stuck in the gap and fell in front of a car. The car was able to stop and the cyclist was safe, but Baniaga requested that the gap in the road be fixed as soon as possible.

Questions, comments, and concerns followed:

1. **Sign**: Yanagihara noted that the Board was responsible for the no right turn sign at the intersection of Pua Inia Road and Kamehameha Highway. The sign was put in place due to the high pedestrian activity in the area.
2. **Repaving**: Yanagihara agreed that the gap in the road is hazardous and the road should be repaved.

**Break Ins at Haiku Woods**: Jason Guilberg from the Association of Owners at Haiku Woods was present to report that the area has had multiple cars broken into and stolen, bicycles have been stolen, containers of crystal methamphetamine have been found, and crime in general has been increasing in the area. Guilberg has reached out to HPD and other groups, and is working to increase awareness along Haiku Road. Guilberg is planning a community meeting in the second week of September.

Questions, comments, and concerns followed: **HPD**: Yanagihara noted that HPD should be alerted to this issue.

**ELECTED OFFICIALS’ REPORTS**

**Mayor Kirk Caldwell’s Representative**: Lori Kahikina reported the following:

- **Traffic Signals**: The Department of Transportation Services (DTS) checked the signals at Kamehameha Highway and Waikalua Road, and at Kamehameha Highway and William Henry Road. Field observations verified that the congestion at Waikalua Road is caused by school traffic, which will be heavier now that the summer vacation is over. At the intersection of Kamehameha Highway and William Henry Road, construction
has damaged the sensor loops, and the traffic signal is running on fixed time. DTS adjusted the timing of the traffic signal, and the sensor loops will be replaced by the end of September.

- **Sidewalk on Waikalua Road**: The Department of Facility Maintenance (DFM) investigated the sidewalk of Waikalua Road, and found only minor peel offs in certain areas of the asphalt sidewalk. These will be patched. The Department of Design and Construction (DDC) added that the repaving of Waikalua Road involves only the rehabilitation of the roadway pavement and does not include sidewalk widening. Widening the sidewalk would involve the construction of a concrete sidewalk using the Improvement District (ID) process. Through the ID process, the properties benefiting from the proposed improvements would be assessed a portion of the cost of those improvements.

- **Haiku Road Crosswalk**: DTS upheld its position that pedestrians should use the marked crossing at Ohala Street, as opposed to installing a new crosswalk across Haiku Road.

**Questions, comments, and concerns followed:**

1. **Traffic Signal**: Baniaga noted that on Friday, August 9, 2013, at 2:15 p.m., he had noticed major traffic issues on Waikalua Road. Kahikina added that this issue would be fixed when the sensor loops are repaired.

2. **Guardrails**: Yanagihara asked if the extension of the guardrails on Waikalua Road had begun yet. Kahikina did not know if it had.

3. **Traffic Circles**: Kamiya raised a concern about the proposed traffic circles to be installed around Kaneohe. It was noted that many people who have boats are worried about not being able to get their boat trailers around the small traffic circles. Kahikina explained that the circles would be either very low, or flush to the road, and a vehicle would be able to go over them if necessary.

4. **School Traffic**: Community member Ted Kanemori noted that parents picking students up from He‘eia Elementary often cause a traffic jam that reaches out to Kahekili Highway. Kanemori suggested speaking with the principle about what efforts could be made to reduce this traffic.

**Councilmember Ikaika Anderson**: Francisco Figueirêto reported the following:

- **Amendment**: Councilmember Anderson will be proposing an amendment to the Charter which would require that the semi-autonomous Board of Water Supply (BWS) annual operating and capital budgets be approved by the Council.

- **Kawainui Marsh**: In 2011, the Wetland Restoration and Habitat Enhancement Plan for Kawainui Marsh was finalized. Councilmember Anderson urged residents to attend the next State Department of Land and Natural Resources (DLNR) public input meeting regarding the matter on Wednesday, August 14, 2013, at 6:30 p.m. at Le Jardin Academy's Wang Auditorium.

- **Repaving Updates**: Residents can go to www1.honolulu.gov/ddc/roadrepavingupdate.htm for updates on the status of any road repaving project on the island.

**Governor Neil Abercrombie’s Representative**: No representative was present; Sager read a report which was provided.

- **Flossie**: Although the impact of Tropical Storm Flossie was less than initially projected, it was a good test of the ability of City, State, and Federal lines to work together to prepare for an emergency.

- **Rating**: On July 23, 2013, Standard and Poor’s (S&P) Rating Service acknowledged the Abercrombie Administration and Legislature’s actions to address long-term unfunded liabilities and shore up Hawaii’s financial standing. S&P expects these actions to strengthen Hawaii’s fiscal position in the near and long terms.

- **Education**: Last month, the Governor received notification from U.S. Secretary of Education Arne Duncan that the State’s Race to the Top grant is in good standing. Recognition of the significant progress validates the good work being done by the Hawaii Department of Education and school administrators, teachers, and staff for island students.

**Senator Jill Tokuda**: Senator Tokuda presented the following:

- **Traffic Circles**: Senator Tokuda noted that the traffic circles which had been discussed earlier are in the planning and design phase. When they were in discussion years ago, the issue of boats was raised, and the traffic circles will be designed to allow vehicles with trailers, and emergency vehicles to easily pass.

- **Homeless Issues**: Senator Tokuda had a meeting with Governor Neil Abercrombie’s Homeless Coordinator. It was reported that the Point in Time numbers for the Windward side of the Island have gone down, however, the number of homeless people in the Windward area has actually risen. Senator Tokuda would like this issue addressed better, and will be recommending names for people who can participate in the once a year Point in Time activity to recognize places that are homeless establishments.
1. **Vandalism:** Kaukani explained that he had visited schools in the area and at He`eia Elementary, Kaukani noticed a lot of vandalism and graffiti on campus, as well as a fence that had been cut multiple times. The Principle also said that narcotics, needles, and other paraphernalia are often found around campus. Senator Tokuda noted that the fence had been repaired, and was aware of the issues at He`eia Elementary. Senator Tokuda added that the school Principle should call HPD for every incident.

2. **Emergency Preparedness:** Sager told Senator Tokuda about the upcoming hurricane and tsunami preparedness event. Senator Tokuda noted that the homeless are some of the most vulnerable in emergency situations, and added that before Hurricane Flossie, community policing teams went around letting homeless individuals know of the approaching storm, and where shelters were available.

3. **Kaneohe Library:** Kamiya noted that there is a small camp of homeless individuals who live near the Kaneohe Library. She has noticed fights and loud swearing, and has called HPD multiple times. Senator Tokuda noted that there have been efforts made to move these individuals to a shelter.

4. **Point in Time:** Senator Tokuda explained for Kanemori that the Point in Time assessment is a once a year process, in which volunteers go out across the State, in every community, and gather data, including age, situation, information as to how the individuals became homeless, etc., to get an idea of the distribution of the homeless population and what services are needed. Senator Tokuda added that she has noticed specific areas in the Windward area where large homeless encampments were missed, and some numbers were skewed.

**Senator Clayton Hee:** No representative was present; no report was given.

**Representative Ken Ito:** No representative was present; no report was given.

**Representative Jessica Wooley:** No representative was present; no report was given.

**COMMUNITY GROUPS AND ORGANIZATIONS**

**Hawaii Pacific University (HPU):** Sam Oku presented the following:

- **Flashing Beacon:** HPU thanks the State Department of Transportation (HDOT) for putting up the missing flashing beacon for student crossing. It will be effective before school starts on September 3, 2013.
- **Signs:** HPU will be having a sign waving event from September 4 through 6, 2013, to raise awareness of the intersection and the new flashing beacon, and to alert residents and drivers that school is back in session.
- **Barnes and Nobel:** The bookseller has been contracted to handle HPU bookstores at the Hawaii Loa campus, the Chinatown campus, and the new Aloha Tower campus.

Questions, comments, and concerns followed: **Cell Phones:** Radke recommended that HPU should remind its students to be more aware when crossing the street, and to not be looking at books or cell phones when walking around cars.

**Hope Chapel:** No representative was present, but a letter was sent and it was reported that 2,344 pounds of food were collected during the August 2013 Food Drive.

**BOARD BUSINESS:**

**APPROVAL OF THE JULY 18, 2013 REGULAR MEETING MINUTES:** Flanigan moved and Kaukani seconded that the Kaneohe Neighborhood Board No. 30 approve the July 18, 2013 Regular Meeting Minutes. The motion was ADOPTED by UNANIMOUS CONSENT, 11-0-0 (AYE: Flanigan, Gavigan, Kaukani, Kling, Morris, Radke, Sager, San Nicolas, Sevier, Yamashiro-Hironaka, and Yanagihara).

**APPROVAL OF THE AUGUST 6, 2013 AGENDA PLANNING COMMITTEE MEETING MINUTES:** Flanigan moved and Radke seconded that the Kaneohe Neighborhood Board No. 30 approve the August 6, 2013 Agenda Planning Committee Meeting Minutes. The motion was ADOPTED by UNANIMOUS CONSENT, 11-0-0 (AYE: Flanigan, Gavigan, Kaukani, Kling, Morris, Radke, Sager, San Nicolas, Sevier, Yamashiro-Hironaka, Yanagihara, and Zakahi).

**NEW BUSINESS**

**Report on Emergency Preparedness Committee:** Chad Kaukani reported the following:

- **Radios:** Kaukani has checked the National Oceanic and Atmospheric Association (NOAA) issued emergency radios in schools around Kaneohe, and all were in working order.
Workshop: An Emergency Preparedness Tabletop Workshop will be held on August 26, 2013.

Next Door Website: Jonathan Hanks reported the following:

- **Meeting:** Hanks started a www.NextDoor.com website for Mikiola Street, and will be holding a meeting on September 5, 2013, for residents to discuss events in the area.
- **Emergency Preparedness:** Chair Yanagihara explained that www.NextDoor.com is also a very good resource for emergency preparedness, and suggested others contact Hanks about setting up pages for other areas in the Windward area.
- **Other Pages:** Radke has established a page for Haiku Crown Estates, and Sevier has for Haiku.

Coconut Island System Renovation: Colette Sakoda, Puna Kaneakua and Hernan Co presented the following:

- **Aging Lines:** The sewer and telecommunication lines going from Coconut Island to the ‘mainland’ in Kaneohe are aging. Renovating the lines will prevent any major damage from happening down the road. Installing fiber optic cables will improve data transfer capability.
- **Sewer:** The current sewer line is lying on the bottom of the bay. If this aging line were damaged, it could cause an environmental disaster in Kaneohe Bay. There will also be on-island upgrades to sewer lines and pumps.
- **Plans:** The renovation project is currently in the preliminary planning stage. An Army Corps Section 10 will be submitted to the United States Army Corps of Engineers (USACE), along with a request for a Right of Entry (ROE) permit to DLNR, and a City Shoreline Setback Variance (SSV), Environmental Assessment (EA), and a Special Management Area (SMA) request with the City Department of Planning and Permitting (DPP).
- **Next Steps:** The next steps are permit approvals and engineering design, followed by the start of construction.

Questions, comments, and concerns followed:

1. **Historic Structures:** Radke asked if any historic structures would be affected in the renovation. It was answered that none were, and that for the lighthouse pier, repairs would only be made above water level so as to not damage any coral.
2. **Pier:** The approximate cost of the pier rehabilitation would be around $500,000 to $800,000.
3. **Sewer:** The approximate cost of the sewer line and fiber optic cable replacement would be around $1 million. Community member Ben Baniaga asked if it would be cheaper to install a septic tank system. It was answered that a septic tank had been considered, but ultimately decided that it would be significantly more expensive.

Board of Water Supply Construction Project: Dymian Okoma and Lester Fujikami presented the following:

- **New Water Main:** A new water line will be installed running from He‘eia Pier to He‘eia Street. The current line has had 30 main breaks since the 1940s.
- **Project:** The contractor working on the project will be Nan Inc., and construction could start in mid to late September 2013, with work going from 8:00 a.m. to 3:00 p.m. Work hours will be adjusted if necessary to end at 2:15 p.m. for after-school traffic. The project will take approximately one (1) year to complete.
- **More Information:** Questions and concerns can be directed to BWS at 748-5041 or 748-5730, or residents can email BWS at contactus@hbws.org.
- **Apologies:** BWS apologizes in advance for the lane closures and noise that will likely accompany the project.

Questions, comments, and concerns followed:

1. **Contra-Flow Lanes:** It was clarified for Gavigan that the construction will be occurring in part on Kamehameha Highway, and that contra-flow lanes will be opened, with at least one (1) lane open at all times.
2. **Service:** There will be possible short disruptions to water service, though residents will be told in advance, and the disruption would only last for a few hours. The old main will still be in service until the new main is fully installed. The sewer will not be affected.
3. **Pipe Location:** It was clarified for Yanagihara that currently, there is one pipe going along the mauka side of the road, and one the makai side. These will both be changed to the makai side.

Bloom Box: Wendell Lum presented on the Bloom Box, which is an alternative energy source using natural gas, and costs around $700,000 to $800,000. It was noted that in California, companies using the Bloom Box are eligible for tax credits.

ANNOUNCEMENTS

- **Agenda Planning and Committees’ Meeting** - The next Agenda Planning Committee Meeting will be held on Tuesday, September 3, 2013 at the Kaneohe Community and Senior Center, 7:00 p.m.
- Kaneohe Neighborhood Board No. 30 Regular Meeting - The next Kaneohe Neighborhood Board No. 30 Regular Meeting will take place at the Benjamin Parker School Cafetorium on Thursday, September 19, 2013 at 7:00 p.m.

ADJOURNMENT: The meeting adjourned at 9:00 p.m.

Submitted by: Jenilea M. Heath, Neighborhood Assistant I
Reviewed by: Adam LeFebvre, Neighborhood Assistant I

Roy Yanagihara, Chair
Meeting Memo

To: Project File: #1085-002 Coconut Island Infrastructure Improvements

From: Colette Sakoda

Date: August 16, 2013

Re: Project Presentation at Kaneohe NB August 15, 2013 Meeting

Meeting Held: Thursday, August 15, 2013, 7:00 pm in Benjamin Parker Elementary School. [Link]

Purpose of meeting: Present Project Overview
Attendees: Kaneohe Neighborhood Board members
Community Residents, Public Officials, Representatives
Derek Mukai, Chief Engineer, CPE
Puna Kaneakua, Project Engineer, CPE
Hernan Co, Project Engineer, CPE
Colette Sakoda, Environmental Planner, CPE

1. CPE presented the project overview supported by ppt slides that helped illustrate the proposed infrastructure system improvements. Handouts of the ppt slideshow were also distributed. The scope of work presented to the neighborhood board (NB) included the sewer and telecommunication replacement, on-island sewer line relocation, sewer pump replacement and lighthouse pier repair.

2. CPE emphasized how this is early notification of the environmental permitting phase of this project, and this will be the first of many updates to the NB over the coming months with the Chapter 343 Environmental Assessment as well as the Special Management Area Use permit and Shoreline Setback Variance application processes that will involve public review and consultation throughout the permitting process.

3. NB chair acknowledged that questions regarding the construction period activities are premature at this early stage. CPE responded to a board member’s question regarding whether any historic structures would be affected and confirmed that the process would not involve Section 106 of the NHPA.

4. CPE responded to a few questions about order of magnitude costs of rehabilitation of the lighthouse pier platform as well as the pier post restoration as well as the foreseeable diameter of the pipe that will be installed under the Kaneohe Bay bottom that will house the sewer and telecommunications fiber optic cable.
5. A member of the public asked whether on-island wastewater treatment had been researched as an option. CPE responded that this has been looked at in past projects but is infeasible because it would be difficult to dispose of treated water on-island.

Action Items:

1. Colette will prepare minutes of this August 2013 NB presentation and Q&A that followed.
2. The team will be available to respond to any questions from the NB to ensure continued discussion and understanding of the project goals, details and schedule.

This Minutes of Meeting memorandum is CPE’s understanding of the items discussed during this meeting for the Coconut Island Infrastructure Improvements EA/Permitting Phase 2. It is requested that all who were in attendance review this Minutes of Meeting for its content and accuracy. If there are no responses and/or comments to this Minutes of Meeting memorandum within ten (10) calendar days, CPE will assume that all information stated herein is correct and agreed upon by all who were in attendance. CPE will not be held responsible for any misinterpretation and/or misunderstanding of the above stated information thereafter.

Recorded by: C. Sakoda
cc: Derek Mukai, Puna Kaneakua, Herman Co
REGULAR MEETING AGENDA
WEDNESDAY JANUARY 8, 2014  7:00 P.M.
KEY PROJECT, 47-200 Waihe’e Road

Rules of Speaking: Anyone wishing to speak is asked to raise their hand, and when recognized by the Chair, to address comments to the Chair. Speakers are encouraged to keep their comments under three (3) minutes, and those giving reports are urged to keep their reports under three (3) minutes. Please silence all electronic devices.

Note: The Board may take action on any agenda item. As required by the State Sunshine Law (HRS 92), specific issues not noted on this agenda cannot be voted on, unless added to the agenda. A two-thirds vote (10) of this 15-member Board is needed to add an item to the agenda. Items may not be added if they are of major importance and will affect a significant number of people.

I. CALL TO ORDER – Chair Flora Obayashi

II. INFORMATIONAL SESSION (Limited to three (3) minutes each)
A. Honolulu Fire Department
B. Honolulu Police Department
C. Board of Water Supply – Barry Usagawa
D. Marine Corps Base Hawaii (MCBH)
E. Kaneohe Bay Regional Council — Jerry Kaluhiwa

III. FILLING OF VACANCIES ON BOARD
A. Subdistrict Two (Kaalaea-Kahaluu) has one (1) vacancy
B. Subdistrict Six (Hui Iwa Loop) has two (2) vacancies
   Residents interested in filling any of these vacancies should bring proof of residence

IV. RESIDENTS’ COMMUNITY CONCERNS (Items not on tonight’s agenda) (Limited to under two (2) minutes each)

V. PRESENTATIONS ON COMMUNITY PROJECTS OR CONCERNS (Limited to under 10 minutes each)
A. Oahu The Trust for Public Lands Resolution for Land and Ka Huli O Haloa – Laura KKaakua & Teresa Makuakane-Drechsel
C. HIMB Coconut Island Infrastructure Rehabilitation Project – Colette Sakoda
D. Project File Number 2013/Z-10 – AG2 to R-10 Zone Change (Department of Planning and Permitting deadline December 31, 2013)
E. Special Management Area Permit for 47-407 Kamehameha Highway – Taeyong Kim

VI. REPORTS BY PUBLIC OFFICIALS (Please limit reports to under five (5) minutes each)
A. Mayor Kirk Caldwell’s Representative – Art Challacombe
B. Councilmember Ernie Martin
C. Councilmember Ikaika Anderson
D. Governor Neil Abercrombie’s Representative
E. Senator Clayton Hee
F. Senator Jill Tokuda
G. Representative Richard Fale

Oahu’s Neighborhood Board system – Established 1973
H. Representative Jessica Wooley

VII. BOARD BUSINESS
A. Treasurers Report
B. Adoption of October 9, 2013 meeting minutes
C. Adoption of November 13, 2013 meeting minutes
D. Committee Chair Nomination
E. Candidates Forum Ad Hoc Committee

VIII. STANDING COMMITTEE REPORTS (Limited to three (3) minutes each)
A. Water and Environment – vacant
B. Transportation and Safety – Ken LeVasseur
C. Parks and Recreation – Yvonne Nelson
D. Planning – Amy Luersen
E. Preservation of Hawaiian Heritage – Rocky Kaluhiwa
F. Military/Civilian Affairs liaison – Arthur Machado
G. Legislation and School – Lola Tangaro

IX. ANNOUNCEMENTS
A. Next Meeting: The next Kahalu’u Neighborhood Board No. 29 meeting will be Wednesday, February 12, 2014, at 7:00 p.m.

X. ADJOURNMENT

A mailing list is maintained for interested persons and agencies to receive this board’s agenda and minutes. Additions, corrections, and deletions to the mailing list may be directed to the Neighborhood Commission Office (NCO) at Honolulu Hale, Room 406, 530 South King Street, Honolulu, Hawaii 96813; Telephone (808) 768-3710 Fax (808) 768-3711; or call Neighborhood Assistant Aisha Wang at (808) 768-3712 or e-mail awang@honolulu.gov. Agendas and minutes are also available on the internet at www1.honolulu.gov/nco.

Any individual wishing to attend a Neighborhood Board meeting who has questions about accommodations for a physical disability or a special physical need should call the NCO at 768-3710 between 8:00 a.m. and 4:00 p.m. at least 24 hours before the scheduled meeting.
August 21, 2013

Mr. George Young
United States Army Corps of Engineers
Honolulu District
ATTN: CEPOH-EC-R
Building 230
Fort Shafter, Hawaii 96858-5440

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O’ahu, Hawai’i

Dear Mr. Young,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O’ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases.

These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier’s platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern.

Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai’i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Mr. Stephen Anthony, Center Director
U.S. Geological Survey
Pacific Islands Water Science Center Office
677 Ala Moana Boulevard, Suite 415
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project
Kaneohe, O’ahu, Hawai‘i

Dear Mr. Anthony,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O’ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier’s platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Pacific Islands Fish and Wildlife Office  
U.S. Fish and Wildlife Service  
300 Ala Moana Boulevard  
Room 3-122, Box 50088  
Honolulu, Hawaii 96850

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology  
Coconut Island Utility Rehabilitation / Replacement Project  
Kaneohe, O'ahu, Hawai'i

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve the existing gravity sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing sewer manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda  
Community Planning and Engineering, Inc.  
1286 Queen Emma Street  
Honolulu, Hawai'i 96813

Please send a copy of your comments to: George I. Atta, FAICP  
Attn: Steve Tagawa  
City and County of Honolulu  
Department of Planning and Permitting  
650 South King Street, 7th Floor  
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda  
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Mr. Angel Figueroa
USDA Natural Resources Conservation Service
Pacific Islands Area State Office
P.O. Box 50004
Honolulu, Hawaii 96850-0050

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project

Kaneohe, O'ahu, Hawai'i

Dear Mr. Figueroa,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much-needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve rerouting the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will be connected to the sewer line no longer associated with the buildings by placing a new manhole at the low point of the proposed route. The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Pacific Islands Contact Office
U.S. EPA, Region 9
P.O. Box 50003
Honolulu, Hawaii 96850

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application:
Hawaii Institute of Marine Biology
Coconut Island Utility Rehabilitation / Replacement Project
Kaneohe, O'ahu, Hawai'i

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the existing pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pumps are no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern.

Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to:
George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Ms. Jan S. Gouveia, Acting Comptroller
Department of Accounting and General Services
Kalanimoku Building
1151 Punchbowl Street
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu
Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application:
Hawaii Institute of Marine Biology
Coconut Island Utility Rehabilitation / Replacement Project
Kaneohe, O'ahu, Hawai'i

Dear Ms. Gouveia,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

(1) Utility line rehabilitation/replacement
(2) Re-routing existing gravity sewer line (on the north end of the island)
(3) Sewage pump replacement and wetwell repairs
(4) Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Department of Agriculture
Office of the Chairperson
1428 South King Street
Honolulu, Hawaii 96814

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O‘ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve replacing the existing sewer line to the north of the island. The sewer line will be extended to provide the much needed upgrades/replacement to the existing system at the facility. The third work item will involve the replacement of the existing pumps in the existing seawall pumping station on the north side of the island. The fourth work item will involve the replacement of the existing seawall pumping station on the north side of the island.

The proposed project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Please send a copy of your comments to:

George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Mr. Richard C. Lim, Director
Department of Business, Economic Development and Tourism
P.O. Box 2359
Honolulu, Hawaii 96804

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O‘ahu, Hawai‘i

Dear Mr. Lim,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O‘ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration
5. Light replacement/replacement (on the north end of the island)

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

The second work item will involve re-routing the existing sewer line located on the north side of the island. The replacement sewer line will be in place of the existing gravity sewer line as they currently exist. The re-routing would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier’s platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the piles and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the piles to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

Please send your written comments and/or information regarding your area(s) of concern to:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Enclosure: Site Plan

Sincerely,

Colette Sakoda
Senior Project Manager

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.
The second work item will involve re-routing the existing sewer line located on the north end of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing sewer lines located on the north side of the island. The buildings on this side of the island will remain in operation.

The third work item will involve replacing the sewage pump located in the existing pump station. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency. These replacement/repairs will involve replacing the motors and replacing the existing equipment with new equipment that meets all current standards.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the energy, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing existing sewer, communications, water, and electricity lines. Any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager
Coconut Island Utility Rehabilitation / Replacement Project

City and County of Honolulu
Community Planning and Engineering
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Prep: copy of your comments to: George I. Atta, FAICP
Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Pre-Assessment Consultation for City and County of Honolulu Pre-Assessment Consultation for City and County of Honolulu

Dear Mr. Glick,

We are preparing an Environmental Assessment (EA) of the Coconut Island Utility Rehabilitation / Replacement Project as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send a copy of your comments to: George I. Atta, FAICP, Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Pre-Assessment Consultation for City and County of Honolulu Pre-Assessment Consultation for City and County of Honolulu

Please send your written comments to the following by September 15, 2013:

Hawaii Institute of Marine Biology
1286 Queen Emma Street
Honolulu, Hawai'i 96813

We are preparing an Environmental Assessment (EA) of the Coconut Island Utility Rehabilitation / Replacement Project as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send a copy of your comments to: George I. Atta, FAICP, Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Pre-Assessment Consultation for City and County of Honolulu

Attn: Steve Tagawa
Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting
Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application:

Subject: Coconut Island Utility Rehabilitation / Replacement Project

Pre-Assessment Consultation for City and County of Honolulu

City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawai'i 96813

Prep: copy of your comments to: George I. Atta, FAICP

August 21, 2013
August 21, 2013

Mr. Jesse K. Souki, Director
Department of Business, Economic Development and Tourism
Office of Planning
P.O. Box 2359
Honolulu, Hawaii 96804

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O‘ahu, Hawai‘i

Dear Mr. Souki,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O‘ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will be placed underground near the shoreline in Kaneohe Bay. It is proposed to be placed nearer to the shoreline than the existing sewer line.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier’s platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Major General Darryll Wong
Department of Defense
3949 Diamond Head Road
Honolulu, Hawaii 96816-4495

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project

Dear Major General Wong,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O‘ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing equipment is no longer functional.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Please send a copy of your comments to:
George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager
Enclosure: Site Plan
August 21, 2013

Mr. Melvin N. Kaku, Director
Department of Emergency Management
Basement
650 South King Street
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Mr. Kaku,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much-needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The application includes the proposed location to tie into existing sewer manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
Hi Ms. Masagatani,

I am Colette Sakoda, Senior Project Manager for the Coconut Island Utility Rehabilitation / Replacement Project. We would like to request any written comments and/or information with respect to your area(s) of concern. The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, environmental assessments will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The proposed project is scheduled to begin in early 2014. The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer will involve removing the existing sewer located on the north of the island and constructing the new sewer line on the south side of the island.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the grout from being contaminated with grout. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

[Signature]

Community Planning and Engineering, Inc.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, environmental assessments will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The proposed project is scheduled to begin in early 2014. The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer will involve removing the existing sewer located on the north of the island and constructing the new sewer line on the south side of the island.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the grout from being contaminated with grout. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

[Signature]

Community Planning and Engineering, Inc.

August 21, 2013
August 21, 2013

Ms. Loretta J. Fuddy, Director
Department of Health
Kinau Hale
1250 Punchbowl Street
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Ms. Fuddy,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve the demolition of the existing gravity sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The rehabilitation of the proposed new sewer line will be located on the north side of the facility.

The third work item will involve replacing the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the piles to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Ms. Francine Wai, Executive Director
Department of Health
Disability and Communication Access Board
919 Ala Moana Boulevard, Room 101
Honolulu, Hawaii 96814

Subject: Pre-Assessment Consultation for City and County of Honolulu
Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application:
Hawaii Institute of Marine Biology
Coconut Island Utility Rehabilitation / Replacement Project
Kaneohe, O’ahu, Hawai’i

Dear Ms. Wai,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O’ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will be connected to the sewer system located on the west side of the island. The existing sewer line was connected to the sewer system located on the east side of the island.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier’s platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai’i 96813

Please send a copy of your comments to:
George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Ms. Patricia McManaman, Director
Department of Human Services
1390 Miller Street, Room 209
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O’ahu, Hawai’i

Dear Ms. McManaman,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O’ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve the digging and placing of a new wet well on the north side of the island and connecting it to the existing gravity sewer line. The digging and placing work is intended to be conducted in a manner to minimize impacts to the marine environment and the coral reef.

The third work item will involve the rehabilitation of the existing sewage pump station located on the east side of the island.

The fourth work item will involve demolishing and replacing the existing Lighthouse Pier with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier’s platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai’i 96813

Please send a copy of your comments to:

George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Mr. Dwight Takamine, Director
Department of Labor and Industrial Relations
830 Punchbowl Street
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O’ahu, Hawai’i

Dear Mr. Takamine,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O’ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve removing the existing sewer and replacing it with a new line. The third work item will involve replacing the existing pump station located on the east side of the island with a new one. The final work item will involve restoring the lighthouse pier.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai’i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Mr. Russell Y. Tsuji, Administrator
Department of Land and Natural Resources
1151 Punchbowl Street, Room 220
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Mr. Tsuji,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve rerouting the existing utility lines to the north end of the island. This work will be conducted in the marine environment and will involve the use of a jack-up barge to support the work platform.

The third work item will involve replacing the existing sewer pump station located on the east side of the island. This work will be conducted in the marine environment and will involve the use of a jack-up barge to support the work platform.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the piles in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to:

George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager
Enclosure: Site Plan
The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructure at the facility. The following work improvements are part of this project:

(1) Utility line rehabilitation/replacement
(2) Re-routing existing gravity sewer line (on the north end of the island)
(3) Sewage pump replacement and wetwell repairs
(4) Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will involve rehabilitating the existing utility lines on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to the area of the island. The replacement sewer will involve reconnecting the existing sewer lines located on the north end of the island.

The second work item will involve re-routing the existing sewer line located on the north end of the island. This work will improve the flow of water through the sewer line and prevent it from being contaminated with grout. After curing, the final product will produce strengths equal to or stronger than the original grout. The space between the pile and the laminate will then be filled with temporary with ratchet straps. The laminates will be wrapped around the deteriorating piles and held in place using fiber reinforced polymer laminates. The laminate fibers are impregnated in a resin matrix then cured, which will provide the final product with excellent strengths.

The third work item will involve replacing the pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place using fiber reinforced polymer laminates. The pier's platform will then be constructed with piles. This method will allow the piles to be reconstructed without affecting the base holding the pier. Piles will be reconstructed in the same footprint as the troop (35) that was (4253) before.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application:

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application

Please send a copy of your comments to: George I. Atta, FAICP Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology

Dear Ms. Thompson,

We are writing to request any written comments and/or information with respect to your area(s) of concern. We are required by Hawaii State law to consider all comments received as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope. A Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Project: Coconut Island Utility Rehabilitation / Replacement Project

Kapolei, Hawaii 96707

Community Planning and Engineering, Inc.

Colette Sakoda

Attention: coconut island utility rehabilitation / replacement project

1286 Queen Emma Street

Honolulu, Hawai'i 96813

Sincerely,

Colette Sakoda

Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Mr. Glenn Okimoto, Director
Department of Transportation
Aliiaimoku Building
869 Punchbowl Street
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application:
Hawaii Institute of Marine Biology
Coconut Island Utility Rehabilitation / Replacement Project
Kaneohe, O'ahu, Hawai'i

Dear Mr. Okimoto,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will be constructed to the same vertical elevation as the existing line on the north side of the island. The third work item will involve the demolition and removal of the existing Lighthouse Pier and the replacement with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Office of Environmental Quality Control
235 South Beretania Street, Suite 702
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The application submitted for the current project scope will include plans showing existing and new sewer lines.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing the existing Lighthouse Pier and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier’s platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. Additionally, this method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to:

George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

The Honorable Neil Abercrombie
Governor, State of Hawaii
Executive Chambers, State Capitol
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application:

Hawaii Institute of Marine Biology
Coconut Island Utility Rehabilitation / Replacement Project
Kaneohe, O‘ahu, Hawai‘i

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O‘ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line to the north end of the island. This method of re-routing will also provide a more direct route for the sewage to travel, reducing the potential for backups and overflows. The existing sewage line will be abandoned in place.

The third work item will involve replacing the existing sewage pumps with new pumps that are more efficient and will have a reduced impact on the surrounding marine environment. These pumps will also be equipped with a backup system to ensure continuous operation in the event of any failures.

The fourth work item will involve the restoration of the Lighthouse Pier, which has been deteriorating due to exposure to the elements and the use of heavy equipment. The existing piles will be refurbished with fiber reinforced polymer laminates and then replaced with new, stronger materials.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern.

Please send your written comments to the following by September 15, 2013:
Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Mr. Clyde Namuo, CEO
Office of Hawaiian Affairs
711 Kapiolani Boulevard, Suite 500
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O’ahu, Hawai‘i

Dear Mr. Namuo,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O‘ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north end of the island. This will be accomplished by excavating the existing sewer line at the north end of the island and placing new pipe in this trench. The new pipe will be connected to the new utility line being buried beneath the bottom of Kaneohe Bay.

The third work item will involve replacing the existing pumps in the existing sewage pump station with new pumps. The existing sewage pump station is located on the east side of the island and will be abandoned in place.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the piles in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Please send a copy of your comments to:
George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
Dear Dr. Ray,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing infrastructure and will be constructed using a trenchless replacement technique (HDD) method. Work will be limited to the area near the existing infrastructure.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Water Resources Research Center
University of Hawaii at Manoa
2540 Dole Street, Holmes Hall 283
Honolulu, Hawaii 96822

Subject:
Pre-Assessment Consultation for City and County of Honolulu
Department of Planning and Permitting (DPP) Special Management
Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application:

Hawaii Institute of Marine Biology
Coconut Island Utility Rehabilitation / Replacement Project
Kaneohe, O'ahu, Hawai'i

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing of existing gravity sewer lines to the north of the island. This approach minimizes disturbance to the marine environment and reduces the potential for sediment release during construction and subsequent washout of impacted areas. The work will be conducted using a Horizontal Directional Drilling (HDD) method, which will avoid disturbance to the marine habitat during construction.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island. The replacement pumps will be equipped with energy-efficient motors, reducing energy consumption and environmental impact. The work will be conducted using traditional excavation methods, minimizing disturbance to the surrounding environment.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. The existing piles are in poor structural condition and will be refurbished with fiber reinforced polymer laminates before replacement. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the piles in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Board of Water Supply
630 South Beretania Street
Honolulu, Hawaii 96843

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacements/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to:

George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Mr. Sam Moku, Director
Department of Community Services
City and County of Honolulu
715 South King Street, Suite 311
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Mr. Moku,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

(1) Utility line rehabilitation/replacement
(2) Re-routing existing gravity sewer line (on the north end of the island)
(3) Sewage pump replacement and wetwell repairs
(4) Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The proposed conduit will be located in the water on the north side of the bay. The use of HDD methods, which involve the use of horizontal drilling and directional control, will be used to minimize disruption of the shoreline during construction of the existing sewer line. The proposed conduit will be located in the water on the north side of the bay.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to:

George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Mr. Collins D. Lam, P.E., Director
Department of Design and Construction
City and County of Honolulu
650 South King Street, 11th Floor
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application:
Hawaii Institute of Marine Biology
Coconut Island Utility Rehabilitation / Replacement Project
Kaneohe, O'ahu, Hawai'i

Dear Mr. Lam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve rerouting the existing sewer line on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The existing sewer line is corrected to the same level as the grade of the bay, as is required by City and County of Honolulu Department of Planning and Permitting. The replacement sewer line will tie into existing manholes, and the existing gravity sewer will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:
Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, a Pre-Assessment Consultation for City and County of Honolulu Department of Environmental Services Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Pre-Assessment Consultation for City and County of Honolulu Department of Environmental Services Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application:

The purpose of the proposed project is to provide the much needed upgrades/replacement of the social, and economic consequences associated with the project scope. The project will facilitate the protection of the surrounding water from being contaminated with grout.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing infrastructure at the facility.

The third work item will involve replacing the sewage pump replacement and wetwell repairs. The existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and then replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent piles from falling over when the pile is being worked on. The grout will be injected into the pile using a blowout technique. Once the pile is secure, it will be attached using a new structural laminate. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place. This method will be less expensive and will cause less disturbance to the surrounding marine life. The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and then replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent piles from falling over when the pile is being worked on. The grout will be injected into the pile using a blowout technique. Once the pile is secure, it will be attached using a new structural laminate. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place. This method will be less expensive and will cause less disturbance to the surrounding marine life.

Please send your written comments to the following by September 15, 2013:

Hawaii Institute of Marine Biology
1286 Queen Emma Street
Honolulu, Hawaii 96813

Attn: Steve Tagawa
Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application:

We are requesting any written comments and/or information with respect to your area(s) of concern. Please send a copy of your comments to: George I. Atta, FAICP

Community Planning and Engineering, Inc.
Colette Sakoda
Manager
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Senior Project Manager

Please see the enclosed Site Plan for locations of the work improvements. The first work item will focus on placing the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and provide maintenance/repair to items identified as high priority to prevent failure of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to existing sewer, communications, water, and electricity lines that serve Coconut Island as well.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing infrastructure at the facility.

The third work item will involve replacing the sewage pump replacement and wetwell repairs. The existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and then replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent piles from falling over when the pile is being worked on. The grout will be injected into the pile using a blowout technique. Once the pile is secure, it will be attached using a new structural laminate. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place. This method will be less expensive and will cause less disturbance to the surrounding marine life.

These replacement/repairs are needed to support the proposed infrastructure core and continuing development at the site of the facility. We are proposing a new restoration force main to being extended to the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.
August 21, 2013

Dr. Westley K.C. Chun, Director
Pre-Assessment Consultation for City and County of Honolulu Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A Pre-Assessment Consultation for City and County of Honolulu Pre-Assessment Consultation for City and County of Honolulu Department of Facility Maintenance

Subject: Coconut Island utility rehabilitation/replacement project
Re: Application: Pre-Assessment Consultation for City and County of Honolulu Pre-Assessment Consultation for City and County of Honolulu Department of Facility Maintenance

Dear Dr. Chun,

The purpose of the proposed project is to provide the much-needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing sewer, communications, water, and electricity lines. The social, and economic consequences associated with the project scope.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are preparing a series of consultation in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

---

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The second work item will involve re-routing the existing sewer line located on the north side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The replacement sewer line will tie into existing sewers, communications, water, and electricity lines. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island.

The first work item will involve (1) utility line rehabilitation/replacement, (2) re-routing existing gravity sewer line (on the north end of the island), (3) sewage pump replacement and wetwell repairs, and (4) Lighthouse Pier restoration.

The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing sewers, communications, water, and electricity lines. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island.

The second work item will involve re-routing the existing sewer line located on the north side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The replacement sewer line will tie into existing sewers, communications, water, and electricity lines. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing sewers, communications, water, and electricity lines. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island.
August 21, 2013

Mr. David K. Tanoue, Director
Department of Planning and Permitting
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project
Kaneohe, O'ahu, Hawai'i

Dear Mr. Tanoue,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing sewer manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern.

Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Dear Mr. Cabato,

Please send your written comments to the following by September 15, 2013:

Hawaii Institute of Marine Biology
Coconut Island Utility Rehabilitation / Replacement Project

We are preparing an Environmental Impact Statement (EIS) for the proposed project. The project is in its scoping phase, and we seek your input in terms of issues that would identify social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing gravity sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing line. Tel: (808) 521-7491

Fax: (808) 526-2476

Honolulu, Hawaii 96813

Colette Sakoda
Community Planning and Engineering, Inc.

Subject: Coconut Island Utility Rehabilitation / Replacement Project

Pre-Assessment Consultation for City and County of Honolulu

The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. Tel: (808) 521-7491

Fax: (808) 526-2476

Honolulu, Hawaii 96813

Dear Mr. Cabato,

The second work item will involve re-routing the existing sewer line located on the north side of the island. The replacement sewer line will tie into existing resources by eliminating release of sediment during construction and impacts to the coral reef. Tel: (808) 521-7491

Fax: (808) 526-2476

Honolulu, Hawaii 96813

1286 Queen Emma Street

Kobe, Hawaii 96707

Attn: Steve Tagawa

Director

Department of Parks and Recreation

City and County of Honolulu

Pre-Assessment Consultation for City and County of Honolulu

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island and the existing gravity sewer line will be abandoned in place. Tel: (808) 521-7491

Fax: (808) 526-2476

Honolulu, Hawaii 96813

Dear Mr. Cabato,

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. Tel: (808) 521-7491

Fax: (808) 526-2476

Honolulu, Hawaii 96813

Colette Sakoda
Community Planning and Engineering, Inc.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The replacement sewer line will tie into existing resources by eliminating release of sediment during construction and impacts to the coral reef. Tel: (808) 521-7491

Fax: (808) 526-2476

Honolulu, Hawaii 96813

Dear Mr. Cabato,

The second work item will involve re-routing the existing sewer line located on the north side of the island. The replacement sewer line will tie into existing resources by eliminating release of sediment during construction and impacts to the coral reef. Tel: (808) 521-7491

Fax: (808) 526-2476

Honolulu, Hawaii 96813

Colette Sakoda
Community Planning and Engineering, Inc.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The replacement sewer line will tie into existing resources by eliminating release of sediment during construction and impacts to the coral reef. Tel: (808) 521-7491

Fax: (808) 526-2476

Honolulu, Hawaii 96813

Colette Sakoda
Community Planning and Engineering, Inc.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The replacement sewer line will tie into existing resources by eliminating release of sediment during construction and impacts to the coral reef. Tel: (808) 521-7491

Fax: (808) 526-2476

Honolulu, Hawaii 96813

Colette Sakoda
Community Planning and Engineering, Inc.
August 21, 2013

Mr. Wayne Y. Yoshioka, Director
Department of Transportation Services
City and County of Honolulu
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application:
Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation / Replacement Project
Kaneohe, O'ahu, Hawai'i

Dear Mr. Yoshioka,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a city and county of Honolulu Department of Planning and Permitting (DPP) SMP and SSV application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statues (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project.

The purpose of the proposed project is to provide the needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructure. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier rehabilitation

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist, therefore, there is no need to continue service to this area of the island. The replacement sewer line will be into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and replacing the existing Lighthouse Pier, and installing a new pier. The existing piles are in poor structural condition. The laminates will be wrapped around the deteriorating piles prior to installation of the pier's platform. The laminates will be coated with a durable polymer laminate prior to installation of the pier's platform. The laminates will then be wrapped around the deteriorating piles and held in place with ratchet straps. The new piles will then be installed within the laminates, and the planks will be attached to the newly installed piles. This method will allow the piles to be reconstructed without affecting the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify any potential environmental impacts associated with the proposed project. In conjunction with this work, please send your written comments to:
Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to:
George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager
Community Planning and Engineering, Inc.

Enclosure: Site Plan

Thank you for your time and consideration.

Sincerely,

Colette Sakoda
Senior Project Manager
Community Planning and Engineering, Inc.
August 21, 2013

Fire Chief Kenneth G. Silva
Honolulu Fire Department
636 South Street
Honolulu, Hawaii 96813-5007

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application:
Hawaii Institute of Marine Biology
Coconut Island Utility Rehabilitation / Replacement Project
Kaneohe, O'ahu, Hawai'i

Dear Fire Chief Silva,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item involves re-routing the existing utility lines on the north end of the island. The re-routing involves a new connection to the items on the north side of the island to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. This work item will involve the removal of a section of the sewer line and the installation of a new section of line in its place.

The third work item involves replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item involves demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to:
George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Mr. Louis M. Kealoha, Chief of Police
Honolulu Police Department
801 South Beretania Street
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O’ahu, Hawai’i

Dear Mr. Kealoha,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O’ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve rerouting the existing sewer line to the north end of the island with the intention of constructing a new underground sewer line and replacing the existing gravity sewer line with a new pressure sewer line. This project will provide a more efficient and reliable sewer system for the facility.

The third work item will involve replacing the pumps in the existing sewage pump station with new, more efficient pumps to support the increased flow rates required by the new pressure sewer line. This project will provide better flow control and pressure management, reducing the risk of sewer overflows and improving the overall reliability of the system.

The fourth work item will involve the rehabilitation and repair of the deteriorating wetwell interior of the existing pump station to prevent leakage and maintain the integrity of the system. This project will provide a more durable and reliable system for the facility.

We seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai’i 96813

Please send a copy of your comments to:
George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Mayor Kirk Caldwell
530 South King Street, Room 306
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai‘i

Dear Mayor Caldwell,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewage pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier’s platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Please send a copy of your comments to:

George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager
Enclosure: Site Plan
August 21, 2013

Kaneohe Public Library
45-829 Kamehameha Highway
Kaneohe, Hawaii 96744

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O‘ahu, Hawai‘i

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O‘ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier’s platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Municipal Reference Center
558 South King Street
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve removing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The proposed replacement Sewer Force Main (SFM) will be constructed through the existing utility tunnels at the north end of the island and tied into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the existing pump station located on the east side of the island to support the proposed replacement force main and apply epoxy coating to the deteriorating wetwell interior in order to protect the concrete walls from sewage gas. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will be located on the south side of the island, away from the existing gravity sewer line which would now serve the newly developed area. This work will provide the needed upgrades/replacement of the existing sewer lines, which have reached the end of their useful life and are no longer capable of carrying the current load.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These repairs are needed due to the deterioration of the existing wetwell, which has reached the end of its useful life and is no longer capable of operating effectively.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the piles to be reconstructed without affecting the base holding the pier in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to:

George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager
Enclosure: Site Plan

August 22, 2013
Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will be tied into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the existing pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. These laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the piles to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to:

George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. The existing piles are in poor structural condition, so they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to Colette Sakoda: Community Planning and Engineering, Inc., 1286 Queen Emma Street, Honolulu, Hawai'i 96813 or to George I. Atta, FAICP, Attn: Steve Tagawa, City and County of Honolulu, Department of Planning and Permitting, 650 South King Street, 7th Floor, Honolulu, Hawai'i 96813. Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much-needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewage pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber-reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Senator Mazie K. Hirono
330 Hart Senate Office Building
Washington, DC 20510

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Senator Hirono,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the existing pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the piles to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to:
George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Dear Senator Schatz,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair of the existing structures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and constructing the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place with timber to form the platform. The piles will then be re-embedded within the laminates. This method will allow the piles to be reconstructed without affecting the base holding the piles in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, please send any written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Representative Colleen Hanabusa
300 Ala Moana Boulevard, Room 4-104
Honolulu, Hawaii 96850

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O‘ahu, Hawai‘i

Dear Representative Hanabusa,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O‘ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the existing sewage pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier’s platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813
Please send a copy of your comments to:
George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
Dear Representative Gabbard,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O’ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating the release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the existing pumps in the existing sewage pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier’s platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Please send a copy of your comments to:
George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager
Enclosure: Site Plan
SITE PLAN

SCALE 1" = 400'
August 21, 2013

Senator Clayton Hee
Hawaii State Capitol, Room 407
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O’ahu, Hawai’i

Dear Senator Hee,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O’ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much-needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/restoration of the existing structures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/repairs
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The second work item will involve connecting the existing sewer line to the sewer main on the north end of the island. The buildings that were connected to this sewer line prior to 1991 are no longer in use therefore, the sewer line is no longer needed.

The third work item will involve upgrading/replacing the existing sewer system. The sewer line will be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The fourth work item will involve removing the existing sewer line and replacing it with a new line. The existing line will be abandoned in place.

The fifth work item will involve removing the existing Lighthouse Pier and replacing it with a new pier. The existing pier is in poor structural condition. The new pier will be constructed with reinforced polymer laminates to provide a safe and functional pier for watercraft.

The sixth work item will involve providing maintenance/restoration of the existing structures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/repairs
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Lighthouse Pier restoration

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, please send a copy of your comments to:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai’i 96813

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan

Thank you in advance for participating in the planning stages of this important project.
August 21, 2013

Representative Jessica Wooley
Hawaii State Capitol, Room 441
Honolulu, Hawaiai 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Representative Wooley,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. These laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to:

George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Representative Ken Ito
Hawaii State Capitol, Room 432
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Representative Ito,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to: George I. Atta, FAICP

City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Councilmember Ikaika Anderson
530 South King Street, Room 202
Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project
Kaneohe, Oahu, Hawaii

Dear Councilmember Anderson,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, Oahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much-needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructure at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewage pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be wrapped with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the piles to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Please send a copy of your comments to:

George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at (808) 521-7491, ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Chair Roy Yanagihara
Kaneohe Neighborhood Board
44-211 Mikiola Drive
Kaneohe, Hawaii 96744

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project

Dear Chair Yanagihara,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line on the north end of the bay. The proposed route will be offshore of Mahia Point, keeping the new line at least 100 feet away from the coral reef which is located approximately 150 feet to the west of the proposed route. The proposed route will be reviewed and approved by the Coral Reef Task Force through the Department of Forestry and Wildlife.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to:

George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager
August 21, 2013
Hawaiian Electric Company
P.O. Box 2750
Honolulu, Hawaii 96840

Subject: Pre-Assessment Consultation for City and County of Honolulu
Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology
Coconut Island Utility Rehabilitation / Replacement Project
Kaneohe, O'ahu, Hawai'i

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology, is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much-needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the existing main pump station located on the east side of the island. Since the existing pump station is no longer operating at optimum efficiency, a new pump station will be constructed to provide the necessary flow to the island. The existing pump station will be abandoned in place.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern.

Please send your written comments to the following by September 15, 2013:
Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to:
George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,
Colette Sakoda
Senior Project Manager
Enclosure: Site Plan
Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructure at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration
5. Utility line rehabilitation/replacement
6. Re-routing existing sewer line (on the north end of the island)
7. Sewage pump replacement and wetwell repairs
8. Lighthouse Pier restoration

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, please send a copy of your comments to:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013
The Gas Company
515 Kamakee Street
Honolulu, Hawaii 96814

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will be located in the existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to:
George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O’ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve rerouting the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will be constructed to the shore and then connected to the existing sewer line. The rerouting work will involve the existing sewer line to the extent needed to provide a reliable and safe flow of water to the facilities located on the north side of the island.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pumps are no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier’s platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai’i 96813

Please send a copy of your comments to:
George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Ms. Danielle Ululani Beirne-Keawe
Koolauloa Hawaiian Civic Club
P.O. Box 532
Hauula, Hawaii 96717

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project

Dear Ms. Beirne-Keawe,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O’ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve rerouting the existing sewer line on the north end of the island. The relocated sewer line will be aligned with the existing infrastructure and includes the addition of new sanitary sewer laterals to serve high priority improvement locations. This work will involve the excavation of temporary manholes to facilitate the installation of the new line. The need for the new sewer line is based on an evaluation of the current sewer system to ensure the viability of the facility.

The third work item will involve the replacement of the existing sewage pump station located on the east side of the island. The replacement pump station will be aligned with the existing infrastructure and includes the addition of new sanitary sewer laterals to serve high priority improvement locations. This work will involve the excavation of temporary manholes to facilitate the installation of the new line.

The fourth work item will involve the removal of the existing Lighthouse Pier and replacement with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber-reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Please send a copy of your comments to:
George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Hawaii Institute for Marine Biology
P.O. Box 1346
Kaneohe, Hawaii 96744

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O‘ahu, Hawai‘i

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O‘ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Please send a copy of your comments to:

George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Bill Sager
Friends of Kaneohe Bay
c/o MCCS Business Operations
Box 63093, MCB Hawaii
Kaneohe Bay, Hawaii 96863

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O’ahu, Hawai’i

Dear Mr. Sager,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O’ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing of the existing sewer line to tie into existing sewer manholes, and the existing gravity sewer line will be abandoned in place. This approach will provide the project with the ability to monitor the existing line’s performance and to abandon it in the future if necessary.

The third work item will involve replacing the existing pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer performing at an optimal level, and the existing pump station is not performing at an optimal level.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier’s platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai’i 96813

Please send a copy of your comments to:

George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier’s platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to:
George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Kama'aina Kids
Kama'aina Kids Corporate Office
156 Hamakua Drive, Suite C
Kailua, Hawaii 96734

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve removing the existing seawall on the north side of the bay and replacing it with a new seawall. The preserve area of seawall will need to be excavated and replaced to ensure stability and prevent erosion. The new seawall will be constructed in accordance with the approved plan to minimize impacts to the surrounding marine habitat and resources.

The third work item will involve replacing theumps in the existing seawall to provide additional stability and prevent erosion. The new seawall will be constructed in accordance with the approved plan to minimize impacts to the surrounding marine habitat and resources.

The fourth work item will involve removing the existing seawall on the north side of the bay and replacing it with a new seawall. The preserve area of seawall will need to be excavated and replaced to ensure stability and prevent erosion. The new seawall will be constructed in accordance with the approved plan to minimize impacts to the surrounding marine habitat and resources.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to:  George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Senator Jill Tokuda, Senator
PO Box 6068
Kaneohe, Hawaii 96744

Subject: Pre-Assessment Consultation for City and County of Honolulu
Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology
Coconut Island Utility Rehabilitation / Replacement Project
Kaneohe, O‘ahu, Hawai‘i

Dear Senator Tokuda,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O‘ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the existing sewage pump station located on the east side of the island. The existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier and replacing it with a new platform of the same footprint. The existing piles are in poor structural condition, and they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier’s platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan

Note: The enclosed Site Plan is not to scale and is a preliminary representation of the project area.
Dear Councilmember Anderson,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O‘ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/replacement to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration
5. Coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases
6. Demolishing and removing the existing Lighthouse Pier and replacing it with a new platform of the same footprint

The second work item will involve re-routing the sewer line located on the north side of the island. The buildings that were connected to the line no longer exist; therefore, there is no current use of the sewer line. The existing sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island. The existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island. The existing pump station is no longer operating at optimum efficiency. The new pumps will be placed on a new platform located on the same footprint as the existing platform. The new platform will be constructed using a similar method to the existing platform, with the addition of additional support structures to accommodate the increased weight.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

He‘eia Historical Society
46-522 Haiku Plantations Drive
Kaneohe, Hawaii 96744

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O‘ahu, Hawai‘i

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O‘ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier’s platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Please send a copy of your comments to:
George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Charles A. Prentiss, Chair
Kailua Neighborhood Board
519 Wanaao Road
Kailua, Hawaii 96734

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Mr. Prentiss,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve removing the existing sewer line located on the north edge of the island. The replacement sewer line will be installed in an underground pipe. The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island. The replacement pumps will be installed in a new pump station.

The fourth work item will involve removing the existing Lighthouse Pier and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to:

George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Polynesian Voyaging Society
10 Sand Island Parkway
Honolulu, Hawaii 96819

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O’ahu, Hawai’i

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O’ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will be tied into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the existing pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier’s platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai’i 96813

Please send a copy of your comments to:

George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Captain Pamela Marshall
Marine Corps Base Hawaii
Kaneohe Bay, Hawaii 96863

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The existing gravity sewer line will be abandoned in place. The re-routing of the existing sewer line will involve excavating the existing sewer line at the edge of the bay and replacing it with a new gravity sewer line. The new gravity sewer line will be buried beneath the bottom of Kaneohe Bay to minimize impacts to the surrounding marine habitat and resources.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacements are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Donna Ono and Mary Brook
Ahupua'a Restoration Council of He'eia
46-522 Haiku Plantations Drive
Kaneohe, Hawaii 96744

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project

Dear Ms. Ono and Ms. Brook,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line to the north side of the island. The project team is committed to the existing sewer line not being disturbed as part of this work. The project team will not disturb the existing wetwell and pumps, and the existing septic tank will remain in service.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island. The sewer pump station is no longer operating at optimum efficiency. The project team will replace the pumps and replace the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Please send a copy of your comments to:
George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Mr. Ned Busch
Kaneohe Business Group
Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O‘ahu, Hawai‘i

Dear Mr. Busch,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O‘ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will be connected to the seawall no longer exist. The existing sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier’s platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Please send a copy of your comments to:

George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013
Ms. Mary Yannell, President
Kaneohe Outdoor Circle

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Ms. Yannell,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will be tied into existing manholes, and the existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the piles in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Mr. Loren Lasher

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application:

Hawaii Institute of Marine Biology
Coconut Island Utility Rehabilitation / Replacement Project
Kaneohe, O‘ahu, Hawai‘i

Dear Mr. Lasher,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O‘ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Re-routing existing gravity sewer line (on the north end of the island)
3. Sewage pump replacement and wetwell repairs
4. Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The existing gravity sewer line will be abandoned in place.

The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the piles to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Please send a copy of your comments to:

George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawai‘i 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
August 21, 2013

Ms. Amy Luersen, Board Vice Chair and Planning Committee Chair
Kahalu'u Neighborhood Board

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application:
Hawaii Institute of Marine Biology
Coconut Island Utility Rehabilitation / Replacement Project
Kaneohe, O'ahu, Hawai'i

Dear Ms. Ono and Ms. Brook,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the proposed project.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the utility lines serving Coconut Island as well as to provide maintenance/replacement of the existing infrastructure at the facility. The following work improvements are part of this project:

1. Utility line rehabilitation/replacement
2. Sewage pump replacement and repair
3. Lightpole repair

Please see the enclosed Site Plan for the locations of the work improvements. The first work item will involve relocating existing utility lines to provide access for the utility lines to be relocated. The second work item will involve relocating the existing sewer line located on the north side of the facility. The third work item will involve the replacement of the existing lightpole.

Please send your written comments to the following by September 15, 2013:

Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai'i 96813

Please send a copy of your comments to:
George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Colette Sakoda
Senior Project Manager

Enclosure: Site Plan
Dear Ms Miya,

After reviewing the project description. It is not appropriate for me to comment as it is not of my area of knowledge or effect.

Thank you,
Loren

---

Dear Mr. Lasher,

Please find attached the pre-assessment letter for the Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation/Replacement Project. The letter includes a general description of the project and seeks your input on the proposed action. Please provide your written (or email) comments by September 15, 2013.

Sincerely,
Miya

---

CONFIDENTIALITY: This communication, including attachments, is for the exclusive use of the addressee(s) and may contain proprietary, confidential or privileged information. If you are not the intended recipient, any use, copying, disclosure, or distribution or the taking of any action in reliance upon this information is strictly prohibited. If you are not the intended recipient, please notify the sender immediately, delete this communication and destroy all copies.
Nadiera,

Thank you for your inquiry about the HIMB/Coconut Island Utility Rehabilitation Project pre-assessment notice. We are at the very beginning of the environmental assessment/permitting phase of this project, and have been scheduling meetings with the neighborhood board, community legislators, organizations and individuals as part of the consultation effort. Please see my responses alongside your questions in your email below.

No federal funds will be used for this project. Through a series of in person meetings with the US Army Corps of Engineers Regulatory branch, DLNR and the City and County of Honolulu Department of Planning and Permitting, our engineers have committed to installation of a new sewer pipe and communications fiber optic cable via the horizontal directional drilling construction method under Kaneohe Bay. Agency staffs have concurred that HDD would be the least threatening environmentally to the Bay bottom and waters.

The purpose of the letter your agency received is to give stakeholders early notification that a Chapter 343 HRS EA is being prepared as well as a Special Management Area Use Permit, Shoreline Setback Variance, ACOE Section 10 permit, and an easement for demarcation of the new utility pipe under the Bay. Affected parties including USFWS will have several opportunities to review and comment on the project Draft EA during a 30-day public review period, the SMP/SSV for which a DPP public hearing will be held, and City Council public hearings for the SMP resolution.

Dr. Jo-Ann Leong, Director of HIMB is our contact on Coconut Island. We are in continual communications with her as pre-permit application scoping was initiated with agencies nearly a year ago, and keep her apprised as we proceed with the EA and permit application preparations.

I hope the responses contained in my email clarify where we are at in this process. Please let me know if you have any other questions. I’m certain we will be in touch throughout the coming months.

Mahalo,
Colette Sakoda
Sr. Project Manager
Environet, Inc.
Ms. Sakoda-

Our office received the pre-assessment consultation request from your office regarding HIMB/Coconut Island in Kaneohe Bay. It was a very short 2 pages with an attached map. Are any form of Federal funds being used during the planning, construction, or operation phases of the project? No federal funds are involved in this project. Are there any upcoming planning meetings scheduled where we could hear more details of the project before providing comments? We presented a project overview at the Kaneohe Neighborhood Meeting last Thursday night at Benjamin Parker Elementary School. As we said to the Board last Thursday, we plan to provide updates throughout this project process so we will be visiting the Board frequently during the coming year.

A U.S. Army Corps of Engineers permit will most likely be required for the work below the water line - do you have a contact there aware of the project proposal? The Army Corps Regulatory Branch has indicated that we will need to submit a Section 10 permit.

Thank you advance,
Nadiera Sukhraj

Nadiera Sukhraj
Aquatics Ecosystem Conservation Program
U.S. Fish and Wildlife Service
300 Ala Moana Blvd, Rm 3-122
Honolulu, HI 96850
E-mail: Nadjira_McCarthy@fws.gov
Phone: 808-792-9410
United States Department of the Interior
U.S. GEOLOGICAL SURVEY
Pacific Islands Water Science Center
677 Ala Moana Blvd., Suite 415
Honolulu, Hawaii 96813

Phone: (808) 587-2400/Fax: (808) 587-2401

August 23, 2013

Ms. Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Dear Ms. Sakoda:

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project, Kaneohe, O‘ahu, Hawai‘i

Thank you for forwarding your letter regarding availability of the Draft Integrated Feasibility Report and Environmental Assessment for the subject project for review and comment by the staff of the U.S. Geological Survey Pacific Islands Water Science Center. We regret however, that due to prior commitments and lack of available staff time, we are unable to review this document.

We appreciate the opportunity to participate in the review process.

Sincerely,

Stephen S. Anthony
Center Director

cc: George I. Atta, FAICP
Attn: Steve Tagawa
City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawai‘i 96813
August 26, 2013

Ms. Colette Sakoda
Senior Project Manager
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, HI 96813

Dear Ms. Sakoda:

This is in response to your request for comments dated August 21, 2013, for the City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application regarding the Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project, Kaneohe, O'ahu, Hawai'i.

The Department of Labor and Industrial Relations has no comments, and we foresee no impact on our existing or proposed programs. Should you have any questions, please call me at 586-8844.

Sincerely,

[Signature]

Dwight Takamine
Director

cc: George I. Atta, FAICP – Attn: Steve Tagawa
Ms. Colette Sakoda  
Community Planning and Engineering, Inc.  
1286 Queen Emma Street  
Honolulu, Hawai 96813

Dear Ms. Sakoda:

SUBJECT: Pre-Assessment Consultation for the City and County of Honolulu,  
Department of Planning and Permitting Special Management Area Use Permit and Shoreline  
Setback Variance Application for Hawaii Institute of Marine Biology,  
Coconut Island Utility Rehabilitation/Replacement Project, Kaneohe, Oahu, Hawaii

The Department of Health (DOH), Environmental Planning Office (EPO), acknowledges receipt of your letter dated  
August 21, 2013. Thank you for allowing us to review and comment on the subject document. The document was  
routed to the Department of Health’s Clean Water and Wastewater Branches. They will provide specific comments to  
you if necessary. EPO recommends that you review the Standard Comments found on our website:  
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 suggests that you examine the many sources available on strategies to support the sustainable design of  
communities, including the:

• U.S. Environmental Protection Agency’s report, “Creating Equitable, Health and Sustainable Communities:  
  Strategies for Advancing Smart Grants, Environmental Justice, and Equitable Development” (Feb. 2013),  
• U.S. Environmental Protection Agency’s sustainability programs: www.epa.gov/sustainability;
• U.S. Green Building Council’s LEED program: www.new.usgbc.org/leed; and
• World Health Organization, www.who.int/hia.

The DOH encourages everyone to apply these sustainability strategies and principles early in the planning and review  
of projects. We also request that for future projects you consider conducting a Health Impact Assessment (HIA). More  
information is available at www.cdc.gov/healthyplaces/hia.htm. We request you share all of this information with  
others to increase community awareness on sustainable, innovative, inspirational, and healthy community design.

We wish to receive notice of the environmental assessment’s availability when it is completed. We request a written  
response confirming receipt of this letter and any other letters you receive from DOH in regards to this submission.  
You may mail your response to: 919 Ala Moana Blvd., Ste. 312, Honolulu, Hawaii 96814. However, we would prefer  
an email submission to epo@doh.hawaii.gov. We anticipate that our letter(s) and your response(s) will be included in  
the final document. If you have any questions, please contact me at  
(808) 586-4337.

Mahalo,

Laura Leialoha Phillips McIntyre, AICP  
Manager, Environmental Planning Office

C: Mr. Steve Tagawa, City and County of Honolulu, Department of Planning and Permitting
Ms. Colette Sakoda  
Community Planning and Engineering, Inc.  
1286 Queen Emma Street  
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT: Pre-Assessment Consultation for City and County of Honolulu  
Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV)  
Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation/Replacement Project, Kaneohe, Oahu, Hawaii

Thank you for the opportunity to review and comment at the Pre-Assessment Consultation stage of the subject Special Management Area Use Permit and Shoreline Setback Variance Application related to the proposed Coconut Island Utility Rehabilitation/Replacement 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,

(\(\text{\text{(for)}}\)
Toni P. Robinson  
Director

TPR:jr  
(528047)

cc: George Atta, Director, Department of Planning and Permitting
Ref. No. P-14099

August 29, 2013

Ms. Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Subject: Pre-Assessment Consultation for the City and County of Honolulu, Department of Planning and Permitting (DPP) Special Management Area (SMA) Use Permit and Shoreline Setback Variance Application: Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project, Kaneohe, Oahu, Hawaii

The purpose of the proposed project is to provide the necessary updates and replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island, as well as to provide item maintenance and repairs to prevent failure of the existing infrastructure at the facility. We note that a supplemental Hawaii Revised Statutes (HRS) Chapter 343 Environmental Assessment (EA) will be prepared as part of the subject application process.

The Office of Planning (OP) at this time has the following comments to offer:

1. The supplemental EA should include an assessment as to how the proposed project will conform to the Hawaii Coastal Zone Management (CZM) Act, HRS Chapter 205A, CZM objectives and their supporting policies. In particular, the subject application should discuss how the project will meet all the requirements of SMA use permit and shoreline setback variance, pursuant to Part II Special Management Areas, and Part III Shoreline Setbacks of HRS Chapter 205A. The subject application should address the site-specific mitigation measures to mitigate potential adverse environmental and ecological effects on coastal resources, taking into account potential cumulative effects.

2. The supplemental EA should consider climate change adaptation priority guidelines enacted by Act 286, Session Laws of Hawaii 2012, codified as HRS Section 226-109, in order to meet the CZM objectives and policies of reducing hazard to life and property from coastal hazards, including storm waves and shoreline erosion.
3. If the proposed project requires a Department of the Army Permit from the U.S. Army Corps of Engineers, then a CZM federal consistency review may also be required. We suggest that you contact the Corps regarding their permit requirements for the subject project.

Please note that the planning department of the various counties is charged with assessing SMA use applications. Final decision-making is vested in the respective county planning commissions, or the county council with respect to SMA Use Permits and Shoreline Setback Variances in the City and County of Honolulu.

Thank you for initiating consultation at this early stage. We look forward to the opportunity to review the draft EA.

If you have any questions regarding this comment letter, please contact Leo Asuncion, Coastal Zone Management Program Manager, at 587-2846.

Sincerely,

Jesse K. Souki
Director

c: Mr. George I. Atta,
Department of Planning and Permitting, City and County of Honolulu
August 30, 2013

Ms. Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting Special Management Area Use Permit (major) and Shoreline Setback Variance Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation/Replacement Project Kaneohe, Oahu, Hawaii

We have reviewed your letter dated August 21, 2013 and the information provided for the Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting Special Management Area Use Permit and Shoreline Setback Variance Application: Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project, Kaneohe, Oahu, Hawaii.

Our review of the information provided indicates that the proposed improvements will have no adverse impacts on any Department of Community Services' activities or projects at this time.

Thank you for providing us the opportunity to comment on this matter.

Sincerely,

Pamela A. Witty-Oakland
Director

PAW:sk

cc: Steve Tagawa, Department of Planning and Permitting
    City and County of Honolulu
Colette Sakoda  
Community Planning and  
Engineering, Inc.  
1286 Queen Emma Street  
Honolulu, Hawaii 96813

Subject: Pre Assessment Consultation for City and County of Honolulu  
Department of Planning and Permitting (DPP) Special Management  
Area Use Permit (major) (SMP) and Shoreline Setback Variance  
(SSV) Application:  
Hawaii Institute of Marine Biology  
Coconut Island Utility Rehabilitation/Replacement Project  
Kaneohe, Oahu, Hawaii

Dear Ms. Sakoda:

Thank you for your letter dated August 21, 2013 that requests the Department of Human Services (DHS) review and comment on the proposed project that involves 1) utility line rehabilitation/replacement; 2) Re-routing existing gravity sewer line (on the north end of the island); 3) Sewage pump replacement and wetwell repairs; and 4) Lighthouse Pier restoration.

It is our understanding that the proposed project will be located on Coconut Island, the undersea bed of Kaneohe Bay and its environs. As there are no child care facilities on Coconut Island or in the immediate vicinity, the DHS has no comment at this time.

If you have any questions or need further information, please contact Ms. Jill Arizumi, Child Care Program Specialist, at (808) 586-5240.

Sincerely,

Scott Nakasone  
Assistant Division Administrator

c: Patricia McManaman, Director  
George I. Atta, FAICP  
Attn: Steve Tagawa
Ms. Colette Sakoda  
Community Planning and Engineering, Inc.  
1286 Queen Ema Street  
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT: Comments on the Pre-Assessment Consultation for the  
Hawaii Institute of Marine Biology Coconut Island Utility  
Rehabilitation / Replacement Project  
Kaneohe, Island of Oahu, Hawaii

The Department of Health (DOH), Clean Water Branch (CWB), acknowledges receipt of your letter, dated August 21, 2013, requesting comments on your project. The DOH-CWB has reviewed the subject document and offers these comments. Please note that our review is based solely on the information provided in the subject document and its compliance with the Hawaii Administrative Rules (HAR), Chapters 11-54 and 11-55. You may be responsible for fulfilling additional requirements related to our program. We recommend that you also read our standard comments on our website at:  

1. Any project and its potential impacts to State waters must meet the following criteria:

   a. Antidegradation policy (HAR, Section 11-54-1.1), which requires that the existing uses and the level of water quality necessary to protect the existing uses of the receiving State water be maintained and protected.

   b. Designated uses (HAR, Section 11-54-3), as determined by the classification of the receiving State waters.

   c. Water quality criteria (HAR, Sections 11-54-4 through 11-54-8).

2. You may be required to obtain a National Pollutant Discharge Elimination System (NPDES) permit for discharges of wastewater, including storm water runoff, into State surface waters (HAR, Chapter 11-55). An application for an NPDES individual permit must be submitted at least 180 calendar days before the commencement of the discharge. To request NPDES permit coverage, you must submit the CWB Individual NPDES Form through the e-Permitting Portal and the hard copy certification statement with $1,000 filing fee. Please open the e-Permitting
Portal website at: https://eha-cloud.doh.hawaii.gov/epermit/View/home.aspx. You will be asked to do a one-time registration to obtain your login and password. After you register, click on the Application Finder tool and locate the “CWB Individual NPDES Form.” Follow the instructions to complete and submit this form.

3. If your project involves work in, over, or under waters of the United States, it is highly recommend that you contact the Army Corp of Engineers, Regulatory Branch (Tel: 438-9258) regarding their permitting requirements.

Pursuant to Federal Water Pollution Control Act [commonly known as the “Clean Water Act” (CWA)], Paragraph 401(a)(1), a Section 401 Water Quality Certification (WQC) is required for “[a]ny applicant for Federal license or permit to conduct any activity including, but not limited to, the construction or operation of facilities, which may result in any discharge into the navigable waters...” (emphasis added). The term “discharge” is defined in CWA, Subsections 502(16), 502(12), and 502(6); Title 40 of the Code of Federal Regulations, Section 122.2; and Hawaii Administrative Rules (HAR), Chapter 11-54.

4. Please note that all discharges related to the project construction or operation activities, whether or not NPDES permit coverage and/or Section 401 WQC are required, must comply with the State’s Water Quality Standards. Noncompliance with water quality requirements contained in HAR, Chapter 11-54, and/or permitting requirements, specified in HAR, Chapter 11-55, may be subject to penalties of $25,000 per day per violation.

If you have any questions, please visit our website at: http://health.hawaii.gov/cwb, or contact the Engineering Section, CWB, at (808) 586-4309.

Sincerely,

Alec Wong, P.E., CHIEF
Clean Water Branch

ST:jst

c: DOH-EPO [via email only]
 Mr. George I. Atta, CCH-DPP
September 6, 2013

Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Attn: Colette Sakoda

Dear Ms. Sakoda:

Subject: Pre-Assessment Consultation for City and County of Honolulu
Department of Planning and Permitting (DPP) Special Management
Area Use Permit (major) (SMP) and Shoreline Setback Variance
(SSV) Application: Hawaii Institute of Marine Biology, Coconut Island
Utility Rehabilitation / Replacement Project in Kaneohe, Oahu, Hawaii

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

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 (527942)

Cc: Department of Planning and Permitting
September 9, 2013

Ms. Colette Sakoda
Senior Project Manager
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Subject: Preassessment Consultation
- Special Management Area Use Permit (Major) and Shoreline Setback Variance Application
- Hawaii Institute of Marine Biology
- Coconut Island Utility Rehabilitation/Replacement Project
- Kaneohe, Oahu, Hawaii

In response to your letter of August 21, 2013, regarding the above-mentioned subject, the Honolulu Fire Department determined that there will be no significant impact to fire department services.

Should you have questions, please contact Battalion Chief Socrates Bratakos of our Fire Prevention Bureau at 723-7151 or sbratakos@hnl.gov.

Sincerely,

[Signature]
ROLLAND J. HARVEST
Assistant Chief

MPN/SY: bh

cc: George Atta, Department of Planning and Permitting
September 10, 2013

Ms. Colette Sakoda
Senior Project Manager
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

This is in response to your letter dated August 21, 2013, requesting comments on the Pre-Assessment Consultation for the City and County of Honolulu Department of Planning and Permitting Special Management Area Use Permit and Shoreline Setback Variance application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu.

The Honolulu Police Department has no concerns at this time.

If there are any questions, please contact Major John McEntire of District 4 (Kaneohe) at 723-8639 or via e-mail at jmcentre@honolulu.gov.

Sincerely,

LOUIS M. KEALOHA
Chief of Police

By

CLAYTON G. KAUA'
Assistant Chief
Support Services Bureau

cc: Mr. George I. Atta, DPP
Regulatory Branch

File Number POH-2013-00155

Community Planning and Engineering, Inc.
Attention: Colette Sakoda
1286 Queen Emma Street
Honolulu, Hawaii 96813

PERMIT REQUIRED

Dear Ms. Sakoda:

This responds to your August 21, 2013 letter requesting the Department of the Army (DA) comments for a draft Environmental Assessment (EA) prepared for the proposed Coconut Island Utility Rehabilitation / Replacement project at Coconut Island, Kaneohe, Oahu Isle, Hawaii. Reference number POH-2013-00155 is assigned this project. Please cite this reference number in any future correspondence concerning this project.

We have completed review of the information submitted pursuant to our authorities under Section 10 of the Rivers and Harbors Act of 1899 (Section 10) and Section 404 of the Clean Water Act (Section 404). For your information, Section 10 requires that a DA permit be obtained from the U.S. Army Corps of Engineers (Corps) prior to undertaking any construction, dredging, or other activity occurring in, over, or under or affecting navigable waters of the U.S. For tidal waters, the shoreward limit of the Corps’ jurisdiction extends to the Mean High Water Mark. Section 404 requires that a DA permit be obtained for the discharge (placement) of dredged and/or fill material into waters of the U.S., including wetlands. For tidally influenced waters, in the absence of adjacent wetlands, the shoreward limit of the Corps’ jurisdiction extends to the High Tide Line, which in Hawai‘i may be approximated by reference to the Mean Higher High Water Mark. For non-tidal waters, the lateral limits of the Corps’ jurisdiction extend to the Ordinary High Water Mark or the approved delineated boundary of any adjacent wetlands.

Based on the information you submitted, we have determined the proposed project would involve work and/or the discharge of dredged and/or fill material in Kaneohe Bay, a navigable water of the U.S.; therefore, a DA permit is required. This determination does not relieve you of the responsibility to obtain any other permits, licenses, or approvals that may be required under County, State, or Federal law for your proposed work.

Thank you for contacting us regarding this project and providing us with the opportunity to comment. Should you have any questions, please contact Ms. Joy Anamizu at 808-835-4308 or via e-mail at Joy.N.Anamizu@usace.army.mil.

Sincerely,

[Signature]

George P. Young, P.E.
Chief, Regulatory Branch
September 11, 2013

Colette Sakoda  
Community Planning and Engineering, Inc  
1286 Queen Emma Street  
Honolulu, HI 96813

Regarding: University of Hawaii - Hawaii Institute of Marine Biology  
Coconut Island Utility Rehabilitation / Replacement Project Pre-Assessment Consultation for City and County of Honolulu  
Department of Planning and Permitting Special Management Area Use Permit and Shoreline Setback Variance

Dear Colette Sakoda,

The Disability and Communication Access Board (DCAB) would like to thank you for the opportunity to review the Coconut Island Utility Rehabilitation / Replacement Project. The purpose of this review is to ensure that this project will take into account accessibility design requirements for persons with disabilities.

The following general statement should be included in the Coconut Island Utility Rehabilitation / Replacement Project:

"All buildings, facilities, and sites shall conform to applicable federal, state, and county accessibility guidelines and standards. Hawaii Revised Statutes §103-50 requires all State of Hawaii or County government buildings, facilities, and sites to be designed and constructed to conform to the Americans with Disabilities Act Accessibility Guidelines, the Federal Fair Housing Amendments Act, and other applicable design standards as adopted and amended by the Disability and Communication Access Board. The law further requires all plans and specifications prepared for the construction of State of Hawaii or County government buildings, facilities, and sites to be reviewed by the Disability and Communication Access Board for conformance to those guidelines and standards."

The above reflects the Disability and Communication Access Board’s advice and recommendations for the Coconut Island Utility Rehabilitation / Replacement Project.
Should you have any further questions, feel free to contact Curtis Motoyama, Facility Access Coordinator at (808) 586-8121.

Sincerely,

[Signature]

FRANCINE WAI
Executive Director

c: George Atta, FAICP
   Attn: Steve Tagawa
   City and County of Honolulu
   Department of Planning and Permitting
   650 South King Street, 7th Floor
   Honolulu, HI 96813
September 12, 2013

Community Planning and Engineering, Inc.
Attention: Ms. Colette Sakoda
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

City and County of Honolulu
Department of Planning and Permitting
Attention: Mr. Steve Tagawa
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

via email: stagawa@honolulu.gov

Dear Ms. Sakoda and Mr. Tagawa:

SUBJECT: Hawaii Institute of Marine Biology; Coconut Island Rehabilitation / Replacement Project

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 the (a) Land Division – Oahu District, (b) Engineering Division, (c) Commission on Water Resources Management, and (d) Office of Conservation and Coastal Lands on the subject matter. Should you have any questions, please feel free to call Lydia Morikawa at 587-0410. Thank you.

Sincerely,

[Signature]
Russell Y. Tsuji
Land Administrator

Enclosure(s)
cc: Central Files
MEMORANDUM

TO:

FROM: Russell Y. Tsuji, Land Administrator

SUBJECT: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project

LOCATION: Coconut Island, Kaneohe, O‘ahu, Hawai‘i

APPLICANT: Community Planning and Engineering, Inc. on behalf of Hawaii Institute of Marine Biology

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 12, 2013. 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: ALEX ROY
Date: SEP - 2 2013

C: Central Files
MEMORANDUM

TO: Russell Y. Tsuji, Administrator  
       DLNR – Land Division

FROM: Samuel J. Lemmo, Administrator  
       DLNR – Office of Conservation and Coastal Lands

SUBJECT: Pre-Assessment Consultation for City and County of Honolulu  
   Department of Planning and Permitting (DPP) Special  
   Management Area Use Permit (major) (SMP) and Shoreline  
   Setback Variance (SSV) Application  
   Ko‘olaupoko District, Kaneohe Bay, Coconut Island, Island of Oahu  
   TMKs: (1) 5-4-005:001 and (1) 5-4-005:002

The Office of Conservation and Coastal Lands (OCCL) is in receipt of a request for comments on the proposed improvements to the Hawaii Institute of Marine Biology (HIMB) facility situated on Coconut Island, Kaneohe Bay, Oahu. A previous correspondence from the OCCL, dated September 26, 2012, addressed these proposed improvements and provided an outline of the process necessary to apply for land uses in the Conservation District; a copy of that correspondence (COR: OA-13-19) is attached.

Please review the attached correspondence; should you have any questions please contact Alex J. Roy, M.Sc. of the Office of Conservation and Coastal Lands staff at 808-587-0316 or via email at alex.j.roy@hawaii.gov

Thank you.
Correspondence: OA 13-19

Puna Kaneakua
Community Planning and Engineering, Inc.
1100 Alakea, 6th Floor
Honolulu, HI 96813

SUBJECT: Rehabilitation/Replacement of Utilities and Facilities Located at the Hawaii Institute of Marine Biology (HIMB), Moku O Lo‘e, Kaneohe Bay, Oahu, TMKs: (1) 4-6-001:001 & 051

Dear Puna Kaneakua:

The Office of Conservation and Coastal Lands (OCCL) has reviewed your memorandum regarding the subject matter and offer the following regarding each proposed improvement:

A. Replacing Existing Utilities: Existing utilities would be abandoned in place and new utility (sewer, water, electrical and communication) crossings would be installed by either laying utilities on the bottom of the bay or by horizontal directional drilling. As it appears the existing alignment will not be utilized, this would be considered a new land use.

This proposed use would require the filing of a Conservation District Use Application (CDUA) for the routing of new utility lines whether laying on the bottom of the bay or via directional drilling pursuant to the Hawaii Administrative Rules (HAR), §13-5-22 P-8 (D-1) Major alteration of existing structures, facilities, uses, and equipment, or topographical features which are different from the original use or different from what was allowed under the original permit. When county permit(s) are required for the associated plan(s), the department’s approval shall also be required. This would require a Board permit.

B. Re-routing Existing Gravity Sewer.

It is unclear how the gravity sewer line would be re-routed. As this would be a new route, this proposed use probably could be done concurrently under the same CDUA as discussed in A.

C. Sewer Pump Replacement & Wet Well Repairs: The exiting pumps will be replaced with new pumps and the wet well interior will be re-lined.
HIMB remains responsible for compliance with Chapter 343, HRS as necessary and compliance with other State, Federal, or County authorizations whether a CDUP is required or not. Should you have questions regarding this correspondence or would like to schedule a meeting, contact Tiger Mills of our Office of Conservation and Coastal Lands at 587-0382.

Sincerely,

Samuel J. Lemme, Administrator
Office of Conservation and Coastal Lands

c: Chairperson
   ODLO/DAR/OHA
   County of Honolulu-DPP
   DOA/NOAA
MEMORANDUM

TO:  

DLNR Agencies:  
X Div. of Aquatic Resources  
X Div. of Boating & Ocean Recreation  
X Engineering Division  
X Div. of Forestry & Wildlife  
X 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-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project

LOCATION:  
Coconut Island, Kaneohe, Oahu, Hawaii

APPLICANT:  
Community Planning and Engineering, Inc. on behalf of Hawaii Institute of Marine Biology

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 12, 2013. 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:  

c: Central Files

Applicant is requested to advise us if the utility lines on the submerged land does not have land disposal from the Land Board.
MEMORANDUM

FROM: Russell Y. Tsuji, Land Administrator
SUBJECT: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project

LOCATION: Coconut Island, Kanohe, O'ahu, Hawai'i
APPLICANT: Community Planning and Engineering, Inc. on behalf of Hawaii Institute of Marine Biology

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 12, 2013. 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: [Signature]
Print Name: Costa S. Chang, Chief Engineer
Date: 9/10/13

c: Central Files
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

LD/ Russell Y. Tsuji
REF: Pre-Assessment Consultation for C & C of Honolulu Department of Planning and Permitting
SMA Use Permit (Major) and SSV Applications for Hawaii Institute of Marine Biology,
Coconut Island Utility Rehab./Replace. Proj.
Oahu.017

COMMENTS

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

() 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 Shi 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: ________________________________

(X) Other: The National Flood Insurance Program (NFIP) does not designate a flood zone for
the project site.

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

Signed: ____________________________

CARTY S. CHANG, CHIEF ENGINEER

Date: 5/21/15
MEMORANDUM

TO:

FROM: Russell Y. Tsuji, Land Administrator

SUBJECT: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project

LOCATION: Coconut Island, Kanohe, O'ahu, Hawai'i

APPLICANT: Community Planning and Engineering, Inc. on behalf of Hawaii Institute of Marine Biology

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 12, 2013. 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: [Signature]

Print Name: [Signature]

Date: 8/27/13

c: Central Files
Ms. Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Subject: Hawaii Institute of Marine Biology (HIMB)
Coconut Island Utility Rehabilitation/Replacement Project
Pre-Assessment Consultation Special Management Area Use Permit (Major)
(SMP), Shoreline Setback Variance (SSV) Applications and Supplemental
Environmental Assessment (SEA)
TMK: (1) 4-6-001:051 and 001

Thank you for requesting the State Department of Transportation’s (DOT) review of the subject project. DOT understands that HIMB proposes to provide needed maintenance upgrades and/or replacement of the existing utilities and infrastructures at Coconut Island. Access to the project will be from Lilipuna Road (for workers) via shuttle boat and from a commercial harbor (for heavy equipment and materials).

Given the project location and the nature of the project, it is not expected to significantly impact State highway facilities. However, HIMB is required to obtain a permit from DOT Highways Division for the transport of oversized and/or overweight materials and equipment on State highway facilities.
DOT appreciates the opportunity to provide comment. If there are any questions or need to meet with DOT staff, please contact Mr. Norren Kato of the DOT Statewide Transportation Planning Office at telephone number (808) 831-7977.

Very truly yours,

GLENN M. OKIMOTO, Ph.D.
Director of Transportation

c: Steve Tagawa, City and County of Honolulu, Department of Planning and Permitting)
September 13, 2013

Collette Sakoda  
Community Planning and Engineering, Inc.  
1286 Queen Emma Street  
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application, Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project, Kaneohe, O‘ahu, Hawai‘i

The City and County (CCH) of Honolulu Department of Environmental Services (ENV) has reviewed your letter dated August 21, 2013. We have the following comments:

1. For your information, there have been five capacity/wet weather related sanitary sewer overflows (SSOs) downstream of the Coconut Island force main connection to the CCH sewer system since 1999.

2. The following comments are in regards to the wastewater pump station and force main connection to the CCH sewer system:

   a. The proposed peak flow from one of the replaced pumps should be limited to a flow capacity that ENV will accept.

   b. The pump controls for the replacement pumps should be configured so that two pumps can never be turned on at the same time.

   c. Upon completion of the pump replacement, we request a flow test report, signed by a Professional Engineer, which correlates flow rate to running pump time. The running pump time may then be used for billing purposes.
If you have any questions or require additional information, please call Jack Pobuk, Program Coordinator, at 768-3464. Thank you for your consideration of this matter.

Sincerely,

[Signature]

Lori M.K. Kahikina, P.E.
Director

cc: Department of Planning and Permitting
September 13, 2013

Ms. Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii  96813

Dear Ms. Sakoda:

SUBJECT: Pre-Assessment Consultation for City and County of Honolulu
Department of Planning and Permitting (DPP) Special Management Area
Use Permit (major) (SMP) and Shoreline Setback Variance (SSV)
Application: Hawaii Institute of Marine Biology Coconut Island Utility
Rehabilitation/Replacement Project Kaneohe, O‘ahu, Hawai‘i

Thank you for the letter dated August 21, 2013, regarding the pre-assessment consultation for the subject project. The City does not have any drainage facilities on Coconut Island.

If you have any questions, please call Thomas Takeuchi of the Division of Road Maintenance, at 768-3608.

Sincerely,

Ross S. Sasamura, P.E.
Director and Chief Engineer
September 13, 2013

Ms. Collette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

SUBJECT: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application:
Hawaii Institute of Marine Biology
Coconut Island Utility Rehabilitation / Replacement Project
Kaneohe, O‘ahu, Hawai‘i

Dear Ms. Sakoda:

The Office of Environmental Quality Control is in receipt of your August 21, 2013, relating to the subject topic. OEQC understands that your proposed rehabilitation and improvements to sewage infrastructure at Coconut Island require an SMA use permit and a Shoreline Setback Variance. The project triggers the Hawaii Environmental Policy Act, Chapter 343, HRS, and you seek comments in terms of potential environmental impacts and other issues we could identify with the project.

After review of your letter and the attached site plan, OEQC offers these comments:

1. Your letter states that a supplemental environmental assessment (EA) will be prepared for the project. Please be informed that Chapter 343, Hawaii Revised Statutes, and Chapter 11-200, Hawaii Administrative Rules, does not prescribe any procedures for a supplemental EA; the supplemental process applies only to environmental impact statements.
2. Your mention of a supplemental EA suggests that an EA was prepared for Coconut Island in the past. HAR §11-200-13, allows the consideration of determinations and acceptances from previous studies when applicable and appropriate. So if this action requires an environmental assessment, then a new EA should be prepared, incorporating previous studies by reference, in whole, or in part.

Thank you for the opportunity to comment on your project. Feel free to contact Herman Tuiolosega at (808) 586-4185 if you have further questions.

Sincerely,

GENEVIEVE SALMONSON
Interim Director

cc: George I. Atta, FAICP
September 16, 2013

Ms. Colette Sakoda
Planner
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT: Pre-Assessment Consultation for Special Management Area Use Permit (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Biology, Coconut Island Utility Rehabilitation/Replacement Project; Kaneohe, Oahu, Hawaii

In response to your letter dated August 21, 2013, we have no comments to offer at this time.

We reserve further comment pending submission of the Draft Environmental Assessment (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,

[Signature]

Michael D. Formby
Director

cc: Mr. George Atta, Director
Attention: Mr. Steve Tagawa
Department of Planning and Permitting
September 17, 2013

Ms. Colette Sakoda
Senior Project Manager
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT:  Pre-Assessment Consultation for Renovation/Rehabilitation Project
Coconut Island - Hawaii Institute of Marine Biology (HIMB)  
Special Management Area Use Permit, No. 2007/SMA-3
Shoreline Setback Variance, No. 2007/SV-2
Tax Map Key: 4-6-1: 1 and 51

This responds to your letter, received on August 22, 2013, requesting comments on the
preparation of a forthcoming supplemental environmental assessment for proposed
improvements at the HIMB Coconut Island research facility.

1)  Utility line rehabilitation/replacement:  As we stated in our letter dated January 17, 2013, 
an Special Management Area Use Permit (SMP) and Shoreline Setback Variance (SV) 
will be required for the proposed installation of a new utility conduit which, although
begins at the same location at Lilipuna Pier, will follow a new alignment and "land" at a 
new location on the Island. The construction details for the new landing should be 
clearly described and include a thorough discussion of proposed mitigation measures 
intended to minimize potential impacts to the surrounding shoreline and near-shore 
ecosystems.

2)  Re-routing Existing Gravity Sewer:  The rerouting of sewer lines on the north side of the 
island, including the abandonment of above-grade segments should be clearly described.
Although the installation of underground utilities within an existing easement is exempt from 
SMA requirements pursuant to Section 25-1.3(2)(M), Revised Ordinances of Honolulu, the 
rerouting should be included in the forthcoming SMP application.

Should you have any questions, please contact Steve Tagawa of our staff at 768-8024.

Very truly yours,

George I. Atta, FAICP
Director

GIA:nw
Ms. Colette Sakoda  
Senior Project Engineer  
Community Planning and Engineering, Inc.  
1286 Queen Emma Street  
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Subject: Your Letter Dated August 21, 2013 Regarding the Pre-Assessment Consultation for the Special Management Area Use Permit (major) and Shoreline Setback Variance Application: Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project - Tax Map Key: 4-6-001:001, 051

Thank you for your letter regarding the proposed Coconut Island Utility Rehabilitation/Replacement Project.

The existing water system is adequate to accommodate the proposed project. However, please be advised that this information is based upon current data, and therefore, the Board of Water Supply reserves the right to change any position or information stated herein up until the final approval of the building permit application. The final decision on the availability of water will be confirmed when the building permit application is submitted for approval.

When water is made available, the applicant will be required to pay our Water System Facilities Charges for resource development, transmission and daily storage.

The on-site fire protection requirements should be coordinated with the Fire Prevention Bureau of the Honolulu Fire Department.

If you have any questions, please contact Robert Chun at 748-5443.

Very truly yours,

[Signature]

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

cc: George I. Atta, Department of Planning and Permitting – Attn: Steve Tagawa
Ms. Colette Sakoda, Senior Project Manager  
Community Planning and Engineering Inc.  
1286 Queen Emma Street  
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Subject: Hawaii Institute of Marine Biology  
Coconut Island Utility Rehabilitation/Replacement Project  
Kaneohe, Oahu, Hawaii

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, please call me at 586-0400 or have your staff call Mr. Alva Nakamura of the Public Works Division at 586-0488.

Sincerely,

[Signature]

DEAN H. SEKI  
Comptroller

Cc: Mr. Steve Tagawa, City and County of Honolulu, Dept. of Planning and Permitting  
Mr. George I. Atta, Group 70 International
Ms. Colette Sakoda  
Community Planning and Engineering, Inc.  
1286 Queen Emma Street  
Honolulu, Hawaii 96813  

Dear Ms. Sakoda:  

Pre-Assesment Consultation for City and County of Honolulu  
Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV)  
Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation/ Replacement Project Kaneohe, Oahu, Hawaii  

Thank you for the opportunity to respond to this proposed project. This agency recommends that a Federal Signal Corp. Informer Unit be installed in a primary building to provide early warning in the event of an impending natural hazard. The unit requires electrical and internet connectivity and has the option of being connected to an outside speaker.  

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

Sincerely,  

[Signature]  

DOUG MAYNE  
Vice Director of Civil Defense  

C: HIENG
September 25, 2013

Ms. Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii  96813

Dear Ms. Sakoda:

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application:
Hawaii Institute of Marine Biology
Coconut Island Utility Rehabilitation / Replacement Project
Kaneohe, O’ahu, Hawai‘i

In response to your letter dated August 21, 2013, it has been determined that the area is currently clear of utility gas facilities.

Thank you for the opportunity to review the map. Should there be any questions, or if additional information is desired, please feel free to call Jared Pasalo at 594-5008.

Sincerely,

HAWAII GAS

Keith K. Yamamoto
Manager, Engineering

KKY-krs
13-180
**Summary of Public Comments**  
*Draft Environmental Assessment*  
**Hawai‘i Institute of Marine Biology, Coconut Island Infrastructure Rehabilitation and Replacement Project**  
Kāne‘ohe, O‘ahu, Hawai‘i  
**December 23, 2013-January 22, 2014**

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Source</th>
<th>Date</th>
<th>Summary of Comment</th>
<th>Response to Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dwight Takamine, Director</td>
<td>State of Hawaii Department of Labor and Industrial Relations</td>
<td>Letter</td>
<td>12/24/2013</td>
<td>The Department has no comments and foresees no impact on existing or proposed programs.</td>
<td>Comment acknowledged. Thank you for your response.</td>
</tr>
<tr>
<td>Dean H. Seki, Comptroller</td>
<td>State of Hawaii Department of Accounting and General Services</td>
<td>Letter</td>
<td>12/31/2013</td>
<td>The project does not impact any of the Department’s projects or existing facilities in the area. No comments at this time.</td>
<td>Comment acknowledged. Thank you for your response.</td>
</tr>
<tr>
<td>Louis M. Kealoha, Chief of Police</td>
<td>Honolulu Police Department</td>
<td>Letter</td>
<td>1/3/2014</td>
<td>The Honolulu Police Department has no concerns regarding the project at this time.</td>
<td>Comment acknowledged. Thank you for your response.</td>
</tr>
<tr>
<td>Doug Mayne, Vice Director of Civil Defense</td>
<td>State of Hawaii Department of Defense Office of the Director of Civil Defense</td>
<td>Letter</td>
<td>1/8/2014</td>
<td>State Civil Defense recommends that one Federal Signal Corp. Informer Unit be installed in a primary building to provide early warning in the event of an impending natural hazard.</td>
<td>Installation of the unit has been considered; however, since HIMB is in contact with the weather service via radio or cell phone at all times, the unit has been deemed unnecessary at this time. We appreciate your participation in the EA review process.</td>
</tr>
<tr>
<td>Pamela A. Witty-Oakland, Director</td>
<td>City and County of Honolulu Department of Community Services</td>
<td>Letter</td>
<td>1/8/2014</td>
<td>The proposed improvements will have no adverse impacts on any Department of Community Services’ activities or projects at this time.</td>
<td>Comment acknowledged. Thank you for your response.</td>
</tr>
<tr>
<td>Marvin Kaleo Manuel, Acting Planning Program Manager</td>
<td>State of Hawaii Department of Hawaiian Home Lands</td>
<td>Letter</td>
<td>1/9/2014</td>
<td>The Department of Hawaiian Home Lands has no comment to offer at this time.</td>
<td>Comment acknowledged. Thank you for your response.</td>
</tr>
<tr>
<td>Scott Nakasone, Assistant Division Administrator</td>
<td>State of Hawaii Department of Human Services</td>
<td>Letter</td>
<td>1/10/2014</td>
<td>The Department of Human Services has no comment at this time.</td>
<td>Comment acknowledged. Thank you for your response.</td>
</tr>
<tr>
<td>Name</td>
<td>Affiliation</td>
<td>Source</td>
<td>Date</td>
<td>Summary of Comment</td>
<td>Response to Comments</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>-------------------------------------------------------</td>
<td>--------</td>
<td>---------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Glenn M. Okimoto, Ph.D., Director of</td>
<td>State of Hawaii Department of Transportation</td>
<td>Letter</td>
<td>1/10/2014</td>
<td>The subject project is not expected to significantly impact State highway facilities. The HIMB is required to obtain a permit from DOT Highways Division for the transport of oversized and/or overweight materials and equipment on State highway facilities.</td>
<td>Comment acknowledged. Thank you for your response. Necessary permits will be obtained prior to the start of construction activities if the transport of oversized and/or overweight materials and equipment on State highway facilities is required for the proposed project.</td>
</tr>
<tr>
<td>Keith K. Yamamoto, Manager, Engineering</td>
<td>Hawai‘i Gas</td>
<td>Letter</td>
<td>1/13/2014</td>
<td>It has been determined that the project area is currently clear of utility gas facilities.</td>
<td>Comment acknowledged. Thank you for your response.</td>
</tr>
<tr>
<td>Chris T. Takashige, P.E., CCM Director</td>
<td>City and County of Honolulu Department of Design</td>
<td>Letter</td>
<td>1/13/2014</td>
<td>The Department of Design and Construction does not have any comments to offer on the Draft EA.</td>
<td>Comment acknowledged. Thank you for your response.</td>
</tr>
<tr>
<td>Socrates D. Bratakos, Assistant Chief</td>
<td>Honolulu Fire Department</td>
<td>Letter</td>
<td>1/13/2014</td>
<td>The Honolulu Fire Department determined that there will be no significant impact to fire department services.</td>
<td>Comment acknowledged. Thank you for your response.</td>
</tr>
<tr>
<td>Toni P. Robinson, Director</td>
<td>City and County of Honolulu Department of Parks and</td>
<td>Letter</td>
<td>1/14/2014</td>
<td>The Department of Parks and Recreation has no comment, and as the proposed project will have no impact on any program or facility of the Department, you may remove us as a consulted party during the EA process.</td>
<td>Comment acknowledged. Thank you for your response.</td>
</tr>
<tr>
<td>Stephen S. Anthony, Center Director</td>
<td>U.S. Geological Survey Pacific Islands Water Science</td>
<td>Letter</td>
<td>1/17/2014</td>
<td>Due to prior commitments and lack of available staff time, the U.S. Geological Survey Pacific Islands Water Science Center is unable to review this document.</td>
<td>Comment acknowledged. Thank you for your response.</td>
</tr>
<tr>
<td>Alec Wong, P.E., Chief</td>
<td>State of Hawaii Department of Health</td>
<td>Letter</td>
<td>1/20/2014</td>
<td>1. Any project and its potential impacts to State waters must meet the: a) antidegradation policy (HAR, Section 11-54-1.1), b) designated uses (HAR, Section 11-54-3), and c) water quality criteria (HAR, Sections</td>
<td>1. No significant impacts to State waters are anticipated under the proposed project. Construction activities will be designed and conducted so that the existing uses of State waters within proximity of the</td>
</tr>
</tbody>
</table>
### Summary of Public Comments

**Draft Environmental Assessment**  
Hawai‘i Institute of Marine Biology, Coconut Island Infrastructure Rehabilitation and Replacement Project  
Kāne‘ohe, O‘ahu, Hawai‘i  
December 23, 2013-January 22, 2014

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Source</th>
<th>Date</th>
<th>Summary of Comment</th>
<th>Response to Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alecia Van Atta, Assistant Regional Administrator for Protected Resources</td>
<td>NOAA National Marine Fisheries Service</td>
<td>Letter</td>
<td>1/21/2014</td>
<td>Marine species protected under the Endangered Species Act (ESA) that may frequent the project area include the threatened green sea turtle (<em>Chelonia mydas</em>) and the endangered Hawaiian monk seal (<em>Monachus schauinslandi</em>). Additionally, the coral species <em>Acropora</em></td>
<td>1. A USACE Section 10 permit has been prepared and submitted for the subject project. The permit application includes the biological resource assessment conducted within the project area and discussions of mitigation measures to protect marine species.</td>
</tr>
</tbody>
</table>
paniculata, Montipora dilatata/flabellata/turgescens, and Montipora patula/verrilli that have been determined to warrant listing as threatened under the ESA may be present in the project area.

1. This project requires permitting through the USACE under Section 10 of the Rivers and Harbors Act. As part of the permitting process, the potential impacts to the above-mentioned ESA-listed species must be assessed and consulted on with our agency.

2. The following mitigation measures are recommended to reduce impacts to the protected marine species:
   - Perform a survey of the project area just prior to commencement or resumption of construction activity to ensure that no protected species are in the project area. If present, construction activities must be postponed until the animal(s) voluntarily leave the area.
   - If any listed species enters the area during construction activities, all activities must cease until the animals voluntarily depart the area.
   - All on-site project personnel must be apprised of the status of any listed species potentially present in the project area and

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Source</th>
<th>Date</th>
<th>Summary of Comment</th>
<th>Response to Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>paniculata, Montipora dilatata/flabellata/turgescens, and Montipora patula/verrilli that have been determined to warrant listing as threatened under the ESA may be present in the project area.</td>
<td>avoid or minimize potential impacts to the ESA-listed species.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1. This project requires permitting through the USACE under Section 10 of the Rivers and Harbors Act. As part of the permitting process, the potential impacts to the above-mentioned ESA-listed species must be assessed and consulted on with our agency.</td>
<td></td>
</tr>
</tbody>
</table>
|      |             |        |      | 2. The following mitigation measures are recommended to reduce impacts to the protected marine species: | 2. No protected species were identified within the project area during the biological resource assessment conducted for the subject project; however, recommendations were made to cease in-water work if the threatened green sea turtle is seen within 50 yards of the in-water construction area until the green sea turtle voluntarily leaves the area. Same precautions will be taken for the endangered Hawaiian monk seal.
In order to avoid siltation which may impact the green sea turtles’ foraging on algae within Kāne‘ohe Bay, any runoff from earth disturbing activities during on-land work will be contained using silt fences. In addition, all on-site project personnel will be apprised of the potential presence of these listed species and the preventive measures to be taken to avoid or minimize impacts to them during construction activities. Although not anticipated, any incidental take of marine mammals will be reported immediately to NOAA as recommended. |
|      |             |        |      | • Perform a survey of the project area just prior to commencement or resumption of construction activity to ensure that no protected species are in the project area. If present, construction activities must be postponed until the animal(s) voluntarily leave the area. | |
|      |             |        |      | • If any listed species enters the area during construction activities, all activities must cease until the animals voluntarily depart the area. | |
|      |             |        |      | • All on-site project personnel must be apprised of the status of any listed species potentially present in the project area and | |
|      |             |        |      | 3. Applicable recommended BMPs will be implemented during construction activities to further reduce potential impacts to protected marine species. | |
### Summary of Public Comments

#### Draft Environmental Assessment

**Hawai‘i Institute of Marine Biology, Coconut Island Infrastructure Rehabilitation and Replacement Project**

Kāne‘ohe, O‘ahu, Hawai‘i

**December 23, 2013-January 22, 2014**

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Source</th>
<th>Date</th>
<th>Summary of Comment</th>
<th>Response to Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jesse K. Souki,</td>
<td>State of Hawaii</td>
<td>Letter</td>
<td>1/21/2014</td>
<td>1. The Draft EA does not provide satisfactory discussion of the Coastal Zone Management Area (CZM) objectives and policies in Hawaii Revised Statues (HRS) §205A-2.</td>
<td>1. A discussion of all areas of the CZM objectives and policies will be included in the Final EA.</td>
</tr>
<tr>
<td>Director</td>
<td>Office of Planning</td>
<td></td>
<td></td>
<td>2. CZM federal consistency review by the Hawaii CZM Program may be required since the project will require a Section 10 USACE permit. If other federal permits are required, then CZM federal consistency review may also be required for those permits.</td>
<td>2. CZM federal consistency review is not required because the subject project is being processed as a USACE Section 10 Letter of Permission (LOP).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3. Please review the Hawaii Watershed Guidance that provides management measures that may be implemented to reduce impact upon coastal waters due to nonpoint pollution.</td>
<td>3. Both temporary and permanent erosion control measures will be implemented during ground disturbing and trenching activities to prevent runoff from reaching Kāne‘ohe Bay. With the implementation of these control measures, impacts to coastal waters are anticipated to be minimal. Management measures provided in the Hawaii Watershed Guidance will be reviewed to include applicable measures that can be implemented to minimize coastal nonpoint pollution during project.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4. There is no discussion of the project’s potential impacts to water resources from stormwater and inundation concerns. Please consider utilizing the Office of Planning’s</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Affiliation</td>
<td>Source</td>
<td>Date</td>
<td>Summary of Comment</td>
<td>Response to Comments</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
<td>--------</td>
<td>------</td>
<td>-------------------------------------------------------------------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Stormwater Impact Assessment to identify and evaluate information on Low Impact Development (LID) site design measurements.</td>
<td>4. Discussion of the project’s potential impacts to water resources from stormwater and inundation concerns will be included in the Final EA. The subject project is not anticipated to permanently alter the geological or hydrological structure of the project area; therefore will not alter the existing conditions during storm or flooding events. Mitigation measures to minimize short-term impacts from erosion/sedimentation during the construction period will be considered during the design phase of the project.</td>
</tr>
</tbody>
</table>
### Summary of Public Comments

**Draft Environmental Assessment**

Hawai‘i Institute of Marine Biology, Coconut Island Infrastructure Rehabilitation and Replacement Project

Kāneʻohe, O‘ahu, Hawai‘i

December 23, 2013-January 22, 2014

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Source</th>
<th>Date</th>
<th>Summary of Comment</th>
<th>Response to Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Les Loo, Network Engineer</td>
<td>Hawaiian Telcom</td>
<td>Letter</td>
<td>1/21/2014</td>
<td>Please correct the spelling of the Company’s name, Hawaiian Telecom, to Hawaiian Telcom. Please continue to include us during the design stages of the project.</td>
<td>Comment acknowledged. We will correct the spelling of the Company’s name and continue to consult Hawaiian Telcom during the design phase of the project. Thank you for your response.</td>
</tr>
<tr>
<td>Rouen Liu, Permits Engineer</td>
<td>Hawaiian Electric Company (HECO)</td>
<td>Email</td>
<td>1/21/2014</td>
<td>1. Should HECO have existing easements and facilities on the subject property, we will need continued access for maintenance of our facilities.</td>
<td>1. Continued access to HECO’s existing easements and facilities within the project area will be provided.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2. HECO requires a separate boring from the water line bore hole. The separate bore should be sized to include four 5” conduits and will connect to an available manhole on the Coconut Island side.</td>
<td>2. The project design will be revised so that the electrical line is installed via a separate bore hole from the water line bore hole.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>HECO will be informed throughout the design phase of the project.</td>
</tr>
<tr>
<td>Russell Y. Tsuji, Land Administrator</td>
<td>State of Hawaii Department of Land and Natural Resources (DLNR)</td>
<td>Emailed Letter</td>
<td>1/22/2014</td>
<td>DLNR Land Division distributed the Draft EA to DLNR Divisions for their review and comments. Following are comments from five (5) Divisions.</td>
<td></td>
</tr>
<tr>
<td>Daniel S. Quinn, State Parks Administrator</td>
<td>DLNR Division of State Parks</td>
<td>Emailed Letter</td>
<td>12/30/2013</td>
<td>We have no comments.</td>
<td>Comment acknowledged. Thank you for your response.</td>
</tr>
<tr>
<td>Samuel J. Lemmo, Administrator</td>
<td>DLNR Office of Conservation and Coastal Lands (OCCL)</td>
<td>Emailed Letter</td>
<td>12/26/2013</td>
<td>By our former correspondence dated September 26, 2012, the OCCL determined that the replacement of existing utilities and seawall repair would require the filing of a Conservation District Use Application (CDUA) and that more information was needed to make a determination</td>
<td>We acknowledge your determination that the proposed repairs/replacement do not require filing of a CDUA permit pursuant to the Hawaii Administrative Rules (HAR), § 13-5-22 P-9 STRUCTURES, EXISTING, (A-I) and HAR, § 13-5-7 Nonconforming uses and structures since the proposed improvements</td>
</tr>
<tr>
<td>Name</td>
<td>Affiliation</td>
<td>Source</td>
<td>Date</td>
<td>Summary of Comment</td>
<td>Response to Comments</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>--------------------------------------------------</td>
<td>----------------</td>
<td>----------------</td>
<td>-------------------------------------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Edward K. Underwood, Administrator</td>
<td>DLNR Division of Boating and Ocean Recreation</td>
<td>Emailed Letter</td>
<td>12/27/2013</td>
<td>regarding re-routing the gravity sewer line. Based on the provided information, as the improvements appear to be maintenance repair and/or replacement of existing nonconforming structures to an extent of less than 50% of its replacement costs, the proposed repairs/ replacement does not require a permit from the Department.</td>
<td>Comment acknowledged. Thank you for your response.</td>
</tr>
<tr>
<td>Carty S. Chang, Chief Engineer</td>
<td>DLNR Engineering Division</td>
<td>Emailed Letter</td>
<td>1/14/2014</td>
<td>The access drive and parking lot (located along the Kā‘eʻohe Bay coast area of 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. The NFIP does not designate a flood zone for the Coconut Island portion of the project site.</td>
<td>Comment acknowledged. Thank you for your response.</td>
</tr>
<tr>
<td>Barry Cheung, District Land Agent</td>
<td>DLNR Land Division – Oahu District</td>
<td>Emailed Letter</td>
<td>1/21/2014</td>
<td>Please confirm that the proposed works will be conducted within the boundary of General Lease No. 5325 and Governor’s Executive Order 3794. If the works are outside the boundary, an amendment to the disposition(s) accounting for any new alignment or location will be in order.</td>
<td>All proposed work on Coconut Island will be conducted within the boundary of General Lease No. 5325 and Governor’s Executive Order 3794. The locations between Coconut Island and the Lilipuna Road property where the new utility lines will be installed via Horizontal Directional Drilling (HDD) will be submitted when the final engineering drawings become available.</td>
</tr>
<tr>
<td>Michael D. Formby</td>
<td>City and County of Honolulu Department of</td>
<td>Letter</td>
<td>1/22/2014</td>
<td>We have no comments to offer at this time.</td>
<td>Comment acknowledged. Thank you for your response.</td>
</tr>
</tbody>
</table>
### Summary of Public Comments

**Draft Environmental Assessment**

**Hawai‘i Institute of Marine Biology, Coconut Island Infrastructure Rehabilitation and Replacement Project**

Kāneʻohe, Oʻahu, Hawaiʻi

December 23, 2013-January 22, 2014

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Source</th>
<th>Date</th>
<th>Summary of Comment</th>
<th>Response to Comments</th>
</tr>
</thead>
</table>
| Director Transportation Services |                                                                              |              |            | • Once the construction phase commence, approved Best Management Practices shall be placed; as needed along Lilipuna Road  
• Upon completion of the project; any deficiencies/damages within Lilipuna Road’s right-of-way caused during construction of the subject project, shall be corrected and accepted by the City. | • The construction design to connect the newly installed sewer force main to the existing sewer system has been revised. Construction work will no longer occur along Lilipuna Road.  
• Upon completion of the project, any deficiencies/damages within Lilipuna Road’s right-of-way caused during construction of the subject project will be corrected and accepted by the City. |
| Ross S. Sasamura, P.E.      | Director and Chief Engineer City and County of Honolulu Department of Facility Maintenance | Letter       | 1/22/2014  |                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |
| Loyal Mehrhoff, Field Supervisor | U.S. Fish and Wildlife Service Pacific Islands Fish and Wildlife Office | Letter       | 1/23/2014  | See Attachment 1                                                                                                                                                                                                     |                                                                                                                                                                                                                      |
| George I. Atta, FAICP       | Director City and County of Honolulu Department of Planning and Permitting | Letter       | 1/24/2014  | See Attachment 2  
See Attachment 2                                                                                                                                                                                                  |                                                                                                                                                                                                                      |
| Peter J.S. Hirai, Deputy Director | City and County of Honolulu Department of Emergency Management | Email        | 1/27/2014  | The City Department of Emergency Management has no comment on the EA.                                                                                                                                               | Comment noted. Thank you for your response.                                                                                                                                                                       |
| Lori M.K. Kahikina, P.E.    | Director City and County of Honolulu Department of Environmental Services | Letter       | 1/30/2014  | 1. The Department of Planning and Permitting (DPP), Wastewater Branch has the lead role in issuing sewer connection permits.  
2. Please provide responses to the comments provided in our letter dated September 13, 2013. | 1. A sewer connection permit for the project has been obtained from DPP.  
2. We have received your comment letter dated September 13, 2013 in response to the pre-assessment consultation letter sent to you in August 2013. We provide the following responses to your comments in |
<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Source</th>
<th>Date</th>
<th>Summary of Comment</th>
<th>Response to Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>[From September 13, 2013 letter; comments regarding wastewater pump station and force main connection to the City and County sewer system:]</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• The proposed peak flow from one of the replaced pumps should be limited to a flow capacity that the Department of Environmental Services (ENV) will accept.</td>
<td>• The proposed peak flow from one of the replaced pumps will be limited to a flow capacity accepted by ENV.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• The pump controls should be configured so that two pumps can never be turned on at the same time.</td>
<td>• In order to prevent overflows, the pump controls for the replacement pumps will be configured so that two pumps can never be turned on at the same time.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Upon completion of the pump replacement, we request a flow test report, signed by a Professional Engineer, which correlates flow rate to running pump time. The running pump time may then be used for billing purposes.</td>
<td>• A flow test report signed by a Professional Engineer will be submitted upon completion of the pump replacement.</td>
</tr>
<tr>
<td>Ernest Y.W. Lau, P.E.</td>
<td>City and County of Honolulu</td>
<td>Letter</td>
<td>1/31/2014</td>
<td>The comments provided in our September 18, 2013 letter are still applicable. [Comments from September 18, 2013 letter:]</td>
<td>We acknowledge that the existing water system is adequate to accommodate the proposed project based upon current data. We do acknowledge; however, that the Board of Water Supply reserves the right to change any position or information on this and that the availability of water will be confirmed at the time when the building permit application is submitted for approval.</td>
</tr>
<tr>
<td></td>
<td>Board of Water Supply</td>
<td></td>
<td></td>
<td>The existing water system is adequate to accommodate the proposed project. However, please be advised that this information is based on current data, and the Board of Water Supply reserves the right to change any position or information up until the final approval of the building permit application.</td>
<td>All water line work will occur downstream of water meter No. 00159004 located on the Lilipuna Road property. No additional</td>
</tr>
</tbody>
</table>
Summary of Public Comments  
Draft Environmental Assessment  
Hawai‘i Institute of Marine Biology, Coconut Island Infrastructure Rehabilitation and Replacement Project  
Kāne‘ohe, O‘ahu, Hawai‘i  
December 23, 2013-January 22, 2014

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Source</th>
<th>Date</th>
<th>Summary of Comment</th>
<th>Response to Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>be required to pay our Water System Facilities Charges for resource development, transmission and daily storage. The on-site fire protection requirements should be coordinated with the Fire Prevention Bureau of the Honolulu Fire Department.</td>
<td>fixtures will be added to the existing system; therefore, the Water System Facilities Charges is not applicable to this project. Although no changes to the existing conditions are anticipated, on-site fire protection requirements will be coordinated with the Fire Prevention Bureau of the Honolulu Fire Department if it becomes necessary.</td>
</tr>
</tbody>
</table>


### General Comments

Aquatic/marine fish and wildlife resources occur immediately within and adjacent to the project areas. Attention should be given to these resources during construction. While the DEA estimates there will be 6 feet of water above the shallowest coral at low tide, corals around Coconut Island and adjacent to Lilipuna Pier are exposed daily at low tide. In-water work will have to be timed with high tide events to minimize damage to the marine resources present.

Project-related operations should be scheduled to avoid the spawning period for most coral species, which in Hawai‘i is April through August. The species list for the corals provided in the SWCA report does not include sufficient information to adequately evaluate project impacts. Further discussion between the Corps, applicant, and the federal and state agencies to explore approaches to functional assessment and replacement, if any, of the impacted marine resources is recommended.

The submerged areas of Coconut Island and Lilipuna Pier described in this project have established outcrops of introduced and invasive macroalgae that may be disturbed and spread to habitats outside the project area. It is important to implement BMPs to prevent the spread of invasive species to other waters.

The methodology of translocation of corals should be developed concurrent with the EA.

The Service recommends that the Standard Fish and Wildlife Best Management Practices be incorporated into the project to avoid or minimize project-related degradation of water quality conditions. BMPs to avoid impacts to seabirds within the project area should be implemented during use of night lighting for construction.

### Summary of Comment

<table>
<thead>
<tr>
<th>Section/Page</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Comments</td>
<td>Aquatic/marine fish and wildlife resources occur immediately within and adjacent to the project areas. Attention should be given to these resources during construction. While the DEA estimates there will be 6 feet of water above the shallowest coral at low tide, corals around Coconut Island and adjacent to Lilipuna Pier are exposed daily at low tide. In-water work will have to be timed with high tide events to minimize damage to the marine resources present. Project-related operations should be scheduled to avoid the spawning period for most coral species, which in Hawai‘i is April through August. The species list for the corals provided in the SWCA report does not include sufficient information to adequately evaluate project impacts. Further discussion between the Corps, applicant, and the federal and state agencies to explore approaches to functional assessment and replacement, if any, of the impacted marine resources is recommended. The submerged areas of Coconut Island and Lilipuna Pier described in this project have established outcrops of introduced and invasive macroalgae that may be disturbed and spread to habitats outside the project area. It is important to implement BMPs to prevent the spread of invasive species to other waters. The methodology of translocation of corals should be developed concurrent with the EA. The Service recommends that the Standard Fish and Wildlife Best Management Practices be incorporated into the project to avoid or minimize project-related degradation of water quality conditions. BMPs to avoid impacts to seabirds within the project area should be implemented during use of night lighting for construction.</td>
</tr>
</tbody>
</table>

### Response to Comments

BMPs to avoid or minimize impacts to the biological resources within the project area will be implemented during construction activities for the proposed work. Specifically, in-water work at the Lighthouse Pier will be timed at high tide events to allow for enough water to be present above the coral species in the area to avoid any potential impacts. Project-related construction activities are scheduled to commence late 2014 and continue for three to four months; therefore, construction should not occur during the indicated spawning period.

Evaluation of the marine community present at the interior piles and underneath the Lighthouse Pier was not conducted due to safety concerns. The reason for not including areas underneath the pier in the biological survey will be made clear in the EA so that readers may understand the limitation of the survey. As recommended, the applicant will continue to keep resource agencies apprised of construction activities to ensure that methods to avoid or minimize impacts to marine resources are explored and agreed upon.

The recommended BMPs (i.e., silt containment devices, cleaning of equipment) will be implemented wherever disturbance of sediment or fragmentation of invasive species may occur and when any equipment is to be used in the water to avoid potential spreading of invasive species. In addition, the applicable BMPs in the Standard Fish and Wildlife Best Management Practices will be incorporated during construction activities to avoid or minimize degradation of water quality conditions. Translocation of coral species is currently not planned for the Lighthouse Pier work.

Night time construction work is not anticipated for the
<table>
<thead>
<tr>
<th>Section/Page</th>
<th>Summary of Comment</th>
<th>Response to Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cumulative Impacts</td>
<td>The Service considers the spread of non-native invasive species to be a major threat to threatened and endangered species and other trust resources because of their potential to become permanently established and to alter existing terrestrial or aquatic ecosystems. The Service recommends that any future assessment provide an evaluation of the potential for movement and dispersal of introduced and invasive species due to planned activities, and provide measures to prevent or reduce impacts from introduced and invasive species.</td>
<td>Although the planned project activities are not anticipated to introduce any non-native invasive species to the project area, any future assessment will include an evaluation of the potential for movement or dispersal of such species and preventive measures to reduce impacts from the introduced and invasive species.</td>
</tr>
<tr>
<td>Fish and Wildlife Coordination Act</td>
<td>The applicant should continue to include the Service and NMFS in their planning process, including during the construction phase. If the rehabilitation plan undergoes changes, such as the change in or expansion of the footprint, change in HDD route locations, or changes in the locations of the staging areas, please notify the Service immediately so that the inquiry can be initiated and completed in a time frame that is acceptable to the project start date.</td>
<td>As the planning and design phase of the subject project progresses, the applicant will ensure that the Fish and Wildlife Service and NMFS are consulted during any significant changes to the planned activities including changes in the HDD route locations or staging area locations.</td>
</tr>
<tr>
<td>Endangered Species</td>
<td>There is a low probability that Hawaiian waterbirds, including Hawaiian stilt, Hawaiian coot and Hawaiian moorhen, may occur in the vicinity of the proposed project. We recommend you incorporate the following measures into your project description to avoid and minimize impacts to listed Hawaiian waterbirds, if encountered:</td>
<td>The listed mitigation measures to avoid or minimize impacts to listed Hawaiian waterbirds will be added into the EA. Per NMFS’s review comment on the draft EA, mitigation measures to avoid impacts to the Hawaiian monk seal (<em>Monachus schauinslandi</em>) has been added in the EA. Noise impacts are anticipated to be limited to elevated noise during heavy equipment or machinery use during construction activities. Section 3.2.10.2 of the EA discusses the noise range anticipated during construction activities. This section will be revised to include a discussion of potential impacts to the marine mammal enclosure pen located across Lighthouse Pier.</td>
</tr>
</tbody>
</table>

- Any documented nests or broods within the project vicinity should be reported to the Service within 48 hours.
- A 100-foot buffer should be established and maintained around all active nests and broods until the chicks/ducklings have fledged. No potentially disruptive activities or habitat alteration should occur within this buffer.
- If a listed Hawaiian waterbird is observed within the project vicinity, it should be reported to the Service within 48 hours.
Site, or flies into the site while activities are occurring, the project manager should halt all activities within 100 feet of the individual(s). Work should not resume until the Hawaiian waterbird(s) leave the area on their own accord.

We recommended that you contact NMFS in Honolulu regarding the presence of monk seals in the area and potential impacts to the species and other marine mammals from the project. The marine mammal enclosure pen is located directly across from the Lighthouse Pier and the animals may be exposed to adverse impacts from the elevated noise pollution related to construction activities, including HDD.
### Section/Page | Summary of Comment | Response to Comments
---|---|---
Section 2.1 Scope and Authority | This section of the Final Environmental Assessment (FEA) should specify that this document fulfills the requirements of Section 343-5(a)(1), (2), and (3), of Hawaii Revised Statutes (HRS) for the use of State lands and funds, activities within the Conservation District and shoreline area as defined by Section 205A-41, HRS, and in compliance with Section 11-200-5(a), (b), and (c), Hawaii Administrative Rules, as an “agency action”. | Language specifying that the document fulfills the stated requirements will be added in Section 2.1 of the FEA.

Section 2.3.2 Proposed Action – The Preferred Alternative | The current conditions should be more thoroughly described in order to understand what is being replaced. The FEA should include a description of the improvements shown in Figure 3 – Site Plan (i.e., size, type of construction, and length of crossing, etc.). The FEA should include a detailed description of horizontal directional drilling methods. Proposed construction activities at “receiving sites” on either end of the proposed crossings should be described. The FEA should describe and depict the location of the new pump station on the eastern side of the island. Explain why the additional 880 linear feet of trenching is necessary to connect the existing pump station with this new pump station. The FEA should describe the existing on-island sewer lines and their condition; and, provide an exhibit showing the location of these lines. We suggest that a Site Plan showing all of the buildings that includes the names of existing improvements (i.e., building or facility names) be included in the FEA. | The conditions and details of existing utility lines, a detailed description of the horizontal directional drilling (HDD) method, as well as the proposed construction activities at the “receiving sites” on either end of the proposed HDD crossings will be added. The Site Plan will be revised to show the location of the pump station on the east side of the island. It has been determined that the additional 880 linear feet of trenching will not be necessary. This revision will be reflected in the Final EA. The Site Plan will be revised to show the existing sewer line and pertinent buildings within the project area.

Section 2.3.2.2 Re-Routing Existing Gravity Sewer Lines | According to this section, buildings at the North Lagoon no longer exist. The FEA should clarify why 400 linear feet of trenching here is considered “rerouting” versus installing a new sewer line, since no existing sewer line is shown on Figure 3 (i.e., existing sewer line should be shown). | The existing sewer line will be added to the Site Plan to clarify why the proposed work is considered “re-routing” versus installing a new sewer line.

Section 2.3.2.3 Sewage Pump Replacement and Wetwell Repairs | The FEA should discuss the function of the existing pump station on the east side of the island and the need to maintain it. The FEA | The Site Plan will be revised to include the existing sewer line that connects to the existing pump station on the east side of...
**Attachment 2**  
**Review Comments**  
**City and County of Honolulu Department of Planning Permitting**  
**Draft Environmental Assessment**  
**Hawai‘i Institute of Marine Biology, Coconut Island Infrastructure Rehabilitation and Replacement Project**  
**Kāne‘ohe, O‘ahu, Hawai‘i**

<table>
<thead>
<tr>
<th>Section/Page</th>
<th>Summary of Comment</th>
<th>Response to Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section 3.2.11</td>
<td><strong>Existing Conditions</strong></td>
<td>This section of the FEA should include a brief history of the Coconut Island, including the history of its current configuration. Similarly, the Lilipuna Pier site should be more thoroughly described (i.e., size, shape, existing improvements, etc.). The FEA should include a site plan of this shoreline facility showing the existing conditions.</td>
</tr>
<tr>
<td>Section 3.2.2.2</td>
<td><strong>Potential Soils Impact and Mitigation</strong></td>
<td>The FEA should disclose the volume of excavation and embankment (i.e., cubic yards) which is anticipated to complete the proposed project. The FEA must disclose the extent of the alteration to existing land forms in order to properly explain how such alterations can be managed to minimize potential impacts, including flooding and runoff, which could impact surrounding near-shore water quality and therefore, adversely impact research activities conducted at this facility.</td>
</tr>
<tr>
<td>Section 4.3.3.1</td>
<td><strong>Special Management Area Use Permit</strong></td>
<td>The FEA should address project consistency with the objectives and policies of the Special Management Area as specified in Section 25-3.1, (Revised Ordinance of Honolulu) ROH and Section 205A-2 Hawaii Revised Statutes.</td>
</tr>
<tr>
<td>Section 4.3.3.2</td>
<td><strong>Shoreline Setback Variance (SSV)</strong></td>
<td>The FEA should identify structures and activities that will occur within the shoreline setback area. A description of activities and structures and anticipated impacts should be disclosed. If all activities occur below existing grades, then a section or profile exhibit(s) should be provided. The FEA should discuss the criteria for granting an SSV; specifically the Public Interest Standard pursuant to Section 23-1.8 (b)(2), ROH.</td>
</tr>
</tbody>
</table>

Section 3.2.11 will be revised to include a brief history of Coconut Island and a more thorough description of the Lilipuna Road property. The Site Plan will be revised to include more details of the Lilipuna Road property.

Section 3.2.2.2 will be revised to include the approximate volume of excavation and embankment which is anticipated to complete the proposed project. The extent of the alteration to existing land forms will also be added in order to properly explain how such alterations can be managed (i.e., implementation of BMPs) to minimize potential impacts, including flooding and runoff, which could impact surrounding near-shore water quality and therefore, adversely impact research activities conducted at this facility.

Section 4.3.3.1 will be revised to include discussions of project consistency with the objectives and policies of the Special Management Area as specified in HRS 205A-2.

Section 4.3.3.2 will be revised to include a description of the activities that will occur within the shoreline setback area and to include a discussion of the mentioned criteria for granting an SSV. A profile exhibit showing the HDD process will be included in the FEA.
December 24, 2013

Ms. Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Colette Sakoda:

This is in response to your request for comments dated December 20, 2013 on the Environmental Assessment report for the proposed infrastructure rehabilitation/replacement at the Hawaii Institute of Marine Biology (HIMB) located on Coconut Island, Kaneohe on the island of Oahu.

The Department of Labor and Industrial Relations has no comments, and we foresee no impact on our existing or proposed programs. Should you have any questions, please call me at (808) 586-8844.

Sincerely,

[Signature]

DWIGHT TAKAMINE
Director
Ms. Colette Sakoda, Senior Project Manager
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Subject: Draft Environmental Assessment (EA) for Proposed Infrastructure Rehabilitation/Replacement at the Hawaii Institute of Marine Biology (HIMB) Coconut Island, Kaneohe, Oahu

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

If you have any questions, please call me at 586-0400 or your staff may call Mr. Alva Nakamura of the Public Works Division at 586-0488.

Sincerely,

DEAN H. SEKI
Comptroller

c: Mr. Stephen Meder, UH Manoa Physical Environmental and Long Range Planning
January 3, 2014

Ms. Colette Sakoda
Senior Project Manager
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

This is in response to your letter dated December 20, 2013, requesting comments on the Draft Environmental Assessment for the proposed infrastructure rehabilitation/replacement project at the Hawaii Institute of Marine Biology located on Coconut Island.

The Honolulu Police Department has no concerns regarding the project at this time.

If there are any questions, please contact Acting Major Dagan Tsuchida of District 4 (Kaneohe/Kailua/Kahuku) at 723-8639 or via e-mail at dtsuchida@hnlpolice.gov.

Sincerely,

LOUIS M. KEALOHA
Chief of Police

By

RANDAL K. MACADANGDANG
Assistant Chief
Support Services Bureau

Serving and Protecting With Aloha
Community Planning and Engineering, Inc.
ATTN: Colette Sakoda
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Chapter 343 Hawaii Revised Statutes (HRS) Draft Environmental Assessment (EA)
Hawaii Institute of Marine Biology Coconut Island Utility
Rehabilitation/Replacement Project, Kaneohe, Oahu, Hawaii

Thank you for the opportunity to participate in this Draft Environmental Assessment. As indicated in our initial response letter dated September 23, 2013, State Civil Defense (SCD) recommends that one Federal Signal Corp. Informer Unit be installed in a primary building to provide early warning in the event of an impending natural hazard. The unit requires electrical and internet connectivity and has the option of being connected to and outside the speaker.

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

Sincerely,

[Signature]

FOR DOUG MAYNE
Vice Director of Civil Defense
January 8, 2014

Ms. Colette Sakoda
Senior Project Manager
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT: Draft Environmental Assessment (EA) for Proposed Infrastructure Rehabilitation/Replacement at the Hawaii Institute of Marine Biology Coconut Island, Kaneohe, Oahu, Hawaii

We have reviewed your letter dated December 20, 2013, and the Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawaii Institute of Marine Biology, Coconut Island, Kaneohe, Oahu, Hawaii.

Our review of the Draft Environmental Assessment provided indicates that the proposed improvements will have no adverse impacts on any Department of Community Services' activities or projects at this time.

Thank you for providing us with the opportunity to comment on this matter.

Sincerely,

Pamela A. Witty-Oakland
Director

PAW:sgk

cc: Steve Tagawa, City and County of Honolulu
   Department of Planning and Permitting
January 9, 2014

Community Planning and Engineering, Inc.
Attn: Ms. Colette Sakoda,
Senior Project Manager
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Subject: Draft Environmental Assessment for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kane‘ohe, Oahu

Thank you for the opportunity to review the subject Draft Environmental Assessment. The Department of Hawaiian Home Lands has no comment to offer at this time.

If you have any questions, please contact our Planning Office at 620-9480

Aloha,

[Signature]

Marvin Kaleo Manuel,
Acting Planning Program Manager
Colette Sakoda  
Community Planning and Engineering, Inc.  
1286 Queen Emma Street  
Honolulu, Hawaii 96813

Subject: Draft Environmental Assessment (EA)  
Hawaii Institute of Marine Biology (HMB)  
Coconut Island infrastructure rehabilitation/replacement project  
Kaneohe, Oahu, Hawaii

Dear Ms. Sakoda:

Thank you for your letter dated December 20, 2013 that requests the Department of Human Services (DHS) review and comment on the proposed project that involves 1) utility line rehabilitation/replacement; 2) Re-routing existing gravity sewer line (on the north end of the island); 3) Sewage pump replacement and wetwell repairs; and 4) Lighthouse Pier rehabilitation.

Upon review of the 357 page CD document, it is the understanding of DHS that the proposed project will be located on Coconut Island, the undersea bed of Kaneohe Bay and its environs. As there are no child care facilities on Coconut Island or in the immediate vicinity to be impacted by the project, the DHS has no comment at this time.

If you have any questions or need further information, please contact Ms. Jill Arizumi, Child Care Program Specialist, at (808) 586-5240.

Sincerely,

Scott Nakasone  
Assistant Division Administrator

C: Patricia McManaman, Director
Ms. Colette Sakoda  
Senior Project Manager  
Community Planning and Engineering, Inc.  
1286 Queen Emma Street  
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Subject: Hawaii Institute of Marine Biology (HIMB)  
Coconut Island, Kaneohe, Oahu  
Draft Environmental Assessment (EA)

During the Pre-Assessment Consultation, the State Department of Transportation (DOT) commented that the subject project is not expected to significantly impact State highway facilities and that the HIMB is required to obtain a permit from DOT Highways Division for the transport of oversized and/or overweight materials and equipment on State highway facilities (STP 8.1313, dated 9/12/13, in Appendix C-2 of the Draft EA). The comments remain valid.

If you have any questions, please contact Mr. Norren Kato of the DOT Statewide Transportation Planning Office at (808) 831-7976.

Very truly yours,

GLENN M. OKIMOTO, Ph.D.  
Director of Transportation
January 13, 2014

Ms. Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii  96813

Dear Ms. Sakoda:

Subject: Draft Environmental Assessment (EA)
Utility Rehabilitation / Replacement Project
at the Hawai‘i Institute of Marine Biology (HIMB)
Coconut Island, Kane‘ohe, O‘ahu, Hawai‘i

In response to your letter dated December 20, 2013, it has been determined that the area is currently clear of utility gas facilities.

Thank you for the opportunity to review the map. Should there be any questions, or if additional information is desired, please feel free to call Jared Pasalo at 594-5008.

Sincerely,

Hawaii Gas

Keith K. Yamamoto
Manager, Engineering

KKY:ks
14-109
January 13, 2014

Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Attn: Colette Sakoda

Dear Ms. Sakoda:

Subject: Draft Environmental Assessment - Hawaii Institute of Marine Biology (HIMB), Coconut Island, Kaneohe, Oahu

The Department of Design and Construction does not have any 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,

[Signature]

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

CTT: cf (543004)
January 13, 2014

Ms. Colette Sakoda  
Senior Project Manager  
Community Planning and Engineering, Inc.  
1286 Queen Emma Street  
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Subject: Draft Environmental Assessment  
Hawaii Institute of Marine Biology Infrastructure Rehabilitation/Replacement

In response to your letter of December 20, 2013, regarding the above-mentioned subject, the Honolulu Fire Department determined that there will be no significant impact to fire department services.

Should you have questions, please contact Acting Battalion Chief Sheldon Yasso of our Fire Prevention Bureau at 723-7151 or syasso@honoolulu.gov.

Sincerely,

Socrates D. Bratakos  
Assistant Chief

SDB/DO: bh
January 14, 2014

Ms. Colette Sakoda, Senior Project Manager
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT: Draft Environmental Assessment
Infrastructure Rehabilitation/Replacement at the Hawaii Institute of
Marine Biology (HIMB)
Coconut Island, Kaneohe, Oahu, Hawaii

Thank you for the opportunity to review and comment on the draft environmental
assessment for the proposed Infrastructure Rehabilitation/Replacement at the Hawaii Institute
of Marine Biology.

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,

[Signature]

Toni P. Robinson
Director

TPR:jr
(543423)
Ms. Colette Sakoda  
Community Planning and Engineering, Inc.  
1286 Queen Emma Street  
Honolulu, Hawai‘i 96813

Dear Ms. Sakoda:

Subject: Chapter 343 Hawai‘i Revised Statutes (HRS) Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

Thank you for forwarding the subject EA for review and comment by the staff of the U.S. Geological Survey Pacific Islands Water Science Center. We regret however, that due to prior commitments and lack of available staff time, we are unable to review this document.

We appreciate the opportunity to participate in the review process.

Sincerely,

Stephen S. Anthony  
Center Director
January 20, 2014

Ms. Colette Sakoda
Senior Project Manager
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT: Comments on the Draft Environmental Assessment for the
Coconut Island Infrastructure Rehabilitation & Replacement Project
Kaneohe, Island of Oahu, Hawaii

The Department of Health (DOH), Clean Water Branch (CWB), acknowledges receipt of
your letter, dated December 20, 2013 (received on January 14, 2014), requesting
comments on your project. The DOH-CWB has reviewed the subject document and
offers these comments. Please note that our review is based solely on the information
provided in the subject document and its compliance with the Hawaii Administrative
Rules (HAR), Chapters 11-54 and 11-55. You may be responsible for fulfilling
additional requirements related to our program. We recommend that you also read our
standard comments on our website at:

1. Any project and its potential impacts to State waters must meet the following criteria:

   a. Antidegradation policy (HAR, Section 11-54-1.1), which requires that the existing
      uses and the level of water quality necessary to protect the existing uses of the
      receiving State water be maintained and protected.

   b. Designated uses (HAR, Section 11-54-3), as determined by the classification of the
      receiving State waters.

   c. Water quality criteria (HAR, Sections 11-54-4 through 11-54-8).

2. National Pollutant Discharge Elimination System (NPDES) permit coverage is
   required for pollutant discharges into State surface waters and for certain situations
   involving storm water (HAR, Chapter 11-55).

   a. Discharges into Class 2 or Class A State waters can be covered under an
      NPDES general permit only if all of the NPDES general permit requirements are
met. Please see the DOH-CWB website (http://health.hawaii.gov/cwb/) for the
NPDES general permits and instructions to request coverage.

b. All other discharges into State surface waters and discharges into Class 1 or
Class AA State waters require an NPDES individual permit. To request NPDES
individual permit coverage, please see the DOH-CWB forms website located at:
http://health.hawaii.gov/cwb/site-map/clean-water-branch-home-page/forms/

c. NPDES permit coverage for storm water associated with construction activities is
required if your project will result in the disturbance of one (1) acre or more of
total land area. The total land area includes a contiguous area where multiple
separate and distinct construction activities may be taking place at different times
on different schedules under a larger common plan of development or sale.
NPDES permit coverage is required before the start of the construction activities.

Land disturbance includes, but is not limited to clearing, grading, grubbing,
uprooting of vegetation, demolition (even if leaving foundation slab), staging,
stockpiling, excavation into pavement areas which go down to the base course,
and storage areas (including areas on the roadway to park equipment if these
areas are blocked off from public usage, grassed areas, or bare ground).

3. If your project involves work in, over, or under waters of the United States, it is highly
recommend that you contact the Army Corp of Engineers, Regulatory Branch
(Tel: 438-9258) regarding their permitting requirements.

Pursuant to Federal Water Pollution Control Act [commonly known as the “Clean
Water Act” (CWA)], Paragraph 401(a)(1), a Section 401 Water Quality Certification
(WQC) is required for “[a]ny applicant for Federal license or permit to conduct any
activity including, but not limited to, the construction or operation of facilities, which
may result in any discharge into the navigable waters…” (emphasis added). The
term “discharge” is defined in CWA, Subsections 502(16), 502(12), and 502(6); Title
40 of the Code of Federal Regulations, Section 122.2; and Hawaii Administrative
Rules (HAR), Chapter 11-54.

4. Please note that all discharges related to the project construction or operation
activities, whether or not NPDES permit coverage and/or Section 401 WQC are
required, must comply with the State’s Water Quality Standards. Noncompliance with
water quality requirements contained in HAR, Chapter 11-54, and/or permitting
requirements, specified in HAR, Chapter 11-55, may be subject to penalties of $25,000
per day per violation.
If you have any questions, please visit our website at: http://health.hawaii.gov/cwb, or contact the Engineering Section, CWB, at (808) 586-4309.

Sincerely,

ALEC WONG, P.E., CHIEF
Clean Water Branch

CTM:tg

c: Stephen Meder, University of Hawaii, Manoa [via email smeder@hawaii.edu only]
DOH-EPO #13-240 [via email only]
Mr. Stephen Meder  
University of Hawai‘i at Mānoa  
2500 Campus Rd.  
Hawai‘i Hall 307  
Honolulu, HI 96822

Dear Mr. Meder:

The National Marine Fisheries Service (NMFS) Pacific Islands Region’s Protected Resources Division provides the following comments on the Draft Environmental Assessment (DEA) for the proposed Coconut Island Infrastructure Rehabilitation and Replacement Project.

NMFS is responsible for the conservation and management of marine species protected under the Endangered Species Act (ESA) that may frequent the project area: the threatened green sea turtle (*Chelonia mydas*) and the endangered Hawaiian monk seal (*Monachus schauinslandi*).

On December 7, 2012, NMFS proposed the listing of several species of coral found in Hawaiian waters under the ESA. The coral species *Acropora paniculata*, *Montipora dilatata/flabellata/turgescens*, and *Montipora patula/verrilli* have been determined to warrant listing as threatened under the ESA, and may be present in the project area.

Green sea turtles are frequently found in nearshore waters of Hawai‘i and can reside within the bay. Impacts from noise are not usually a concern due to the turtles’ limited hearing capabilities; however, they could be affected by siltation from construction activities which may impact their foraging on algae within the bay. Vessel traffic associated with construction may also pose a risk of collision with sea turtles residing near the project site.

Hawaiian monk seals are increasing in number in the main Hawaiian Islands and have been occasionally sighted in the vicinity of the project area. These animals are sensitive to human disturbance and may be affected by construction activities at the project site.

This project requires permitting through the U.S. Army Corp of Engineers under Section 10 of the Rivers and Harbors Act. As part of that permitting process, the potential impacts to the above-mentioned ESA-listed species must be assessed and consulted on with our agency.

To reduce the potential for impacts to protected marine species, we recommend the following mitigating measures be incorporated into the project:

- A survey of the project area must be performed just prior to commencement or resumption of construction activity to ensure that no protected spec(ies) are in the project area. If protected spec(ies) are detected, construction activities must be postponed until the animal(s) voluntarily leave the area.
• If any listed spec(ies) enters the area during the conduct of construction activities, all activities must cease until the animal(s) voluntarily depart the area.

• All on-site project personnel must be apprised of the status of any listed spec(ies) potentially present in the project area and the protections afforded to those species under Federal laws. A brochure explaining the laws and guidelines for listed species in Hawai‘i may be downloaded from http://www.nmfs.noaa.gov/prot_res/MMWatch/hawaii.htm.

• Any incidental take of marine mammals must be reported immediately to NOAA Fisheries’ 24-hour hotline at 1-888-256-9840. Any injuries to sea turtles in Hawai‘i must be reported immediately to NOAA Fisheries at 1-808-983-5730. Information reported must include the name and phone number of a point of contact, location of the incident, and nature of the take and/or injury.

We also recommend using the attached Best Management Practices to further reduce potential impacts to protected marine species from the construction of proposed improvements. If you have any questions about this comment letter, please contact Jayne LeFors of my staff at (858) 546-5653 or at jayne.lefors@noaa.gov.

Sincerely,

[Signature]
Alecia Van Atta
Assistant Regional Administrator
for Protected Resources

cc: Colette Sakoda, Community Planning and Engineering, Inc.

Attachment: Best Management Practices
Best Management Practices (BMPs) for General In- and Near-Water Work Including Boat and Diver Operations

April 2013

NMFS Protected Resources Division recommends implementation of the following BMPs to reduce potential adverse effects on protected marine species. These BMPs are in no way intended to supersede or replace measures required by any other agency including, but not limited to the ACOE, USFWS, USEPA, or NMFS Habitat Conservation Division, and compliance with these BMPs shall always be considered secondary to safety concerns.

All workers associated with this project, irrespective of their employment arrangement or affiliation (e.g. employee, contractor, etc.) shall be fully briefed on these BMPs and the requirement to adhere to them for the duration of their involvement in this project.

A. Constant vigilance shall be kept for the presence of ESA-listed marine species during all aspects of the proposed action, particularly in-water activities such as boat operations, diving, and deployment of anchors and mooring lines.

1. The project manager shall designate an appropriate number of competent observers to survey the areas adjacent to the proposed action for ESA-listed marine species.
2. Surveys shall be made prior to the start of work each day, and prior to resumption of work following any break of more than one half hour. Periodic additional surveys throughout the work day are strongly recommended.
3. All work shall be postponed or halted when ESA-listed marine species are within 50 yards of the proposed work, and shall only begin/resume after the animals have voluntarily departed the area. If ESA-listed marine species are noticed within 50 yards after work has already begun, that work may continue only if, in the best judgment of the project supervisor, that there is no potential for the activity to adversely affect the animal(s). For example; divers performing surveys or underwater work would likely be permissible, whereas operation of heavy equipment is likely not.
4. Special attention will be given to verify that no ESA-listed marine animals are in the area where equipment or material is expected to contact the substrate before that equipment/material may enter the water.
5. All objects will be lowered to the bottom (or installed) in a controlled manner. This can include the use of buoyancy controls such as lift bags, or the use of cranes, winches, or other equipment that effect positive control over the rate of descent.
6. In-water tethers, as well as mooring lines for vessels and marker buoys, shall be kept to the minimum lengths necessary, and shall remain deployed only as long as needed to properly accomplish the required task.
7. When piloting vessels, vessel operators shall alter course to remain at least 100 yards from whales, and at least 50 yards from other marine mammals and sea turtles.
8. Reduce vessel speed to 10 knots or less when piloting vessels at or within the ranges described above from marine mammals and sea turtles. Operators shall be particularly vigilant to watch for turtles at or near the surface in areas of known or suspected turtle activity, and if practicable, reduce vessel speed to 5 knots or less.
9. If, despite efforts to maintain the distances and speeds described above, a marine
mammal or turtle approaches the vessel, put the engine in neutral until the animal is at
least 50 feet away, and then slowly move away to the prescribed distance.
10. Marine mammals and sea turtles shall not be encircled or trapped between multiple
vessels or between vessels and the shore.
11. Do not attempt to feed, touch, ride, or otherwise intentionally interact with any ESA-
listed marine species.

B. No contamination of the marine environment shall result from project-related activities.

12. A contingency plan to control toxic materials is required.
13. Appropriate materials to contain and clean potential spills shall be stored at the work site,
and be readily available.
14. All project-related materials and equipment placed in the water shall be free of pollutants.
15. The project manager and heavy equipment operators shall perform daily pre-work
equipment inspections for cleanliness and leaks. All heavy equipment operations shall be
postponed or halted should a leak be detected, and shall not proceed until the leak is
repaired and equipment cleaned.
16. Fueling of land-based vehicles and equipment shall take place at least 50 feet away from
the water, preferably over an impervious surface. Fueling of vessels shall be done at
approved fueling facilities.
17. Turbidity and siltation from project-related work shall be minimized and contained
through the appropriate use of erosion control practices, effective silt containment
devices, and the curtailment of work during adverse weather and tidal/flow conditions.
18. A plan shall be developed to prevent debris and other wastes from entering or remaining
in the marine environment during the project.
Ref. No. P-14252

January 21, 2014

Ms. Colette Sakoda, Senior Project Manager
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Subject: Draft Environmental Assessment for the Proposed Infrastructure Rehabilitation/Replacement at the Hawaii Institute of Marine Biology, Coconut Island, Kaneohe, Hawaii

Thank you for the opportunity to provide comments on the Draft Environmental Assessment (Draft EA) for the proposed infrastructure rehabilitation/replacement at the Hawaii Institute of Marine Biology at Coconut Island, Kaneohe, Hawaii. We have reviewed the documents submitted by letter dated December 20, 2013, and have the following comments to offer:

1. The Draft EA does not provide a satisfactory discussion of the Coastal Zone Management (CZM) objectives and policies found in Hawaii Revised Statutes §205A-2. Please note that the entire state is defined to be within the Coastal Zone Management Area, see HRS §205A-1 (definition of "coastal zone management area"). The Final Environmental Assessment should include a discussion of the proposed project’s ability to meet the objectives and policies set forth in HRS §205 A-2.

There should be discussion on addressing the areas of Recreational Resources, Scenic and Open Space Resources, Coastal Ecosystems, Economic Uses, Coastal Hazards, Managing Development, Public Participation, Beach Protection, and Marine Resources. If the project does not impact these objectives and policy areas, it should be stated as such.

On page 69 of the Draft EA, there is a brief discussion of CZM statutory requirements; however, detailed discussion on how this project meets those requirements is absent.
2. CZM federal consistency review by the Hawaii CZM Program may be required since
the project will require a Section 10 United States Army Corps of Engineers
(USACE) permit. If other federal permits are required, then CZM federal consistency
review may also be required for those permits.

3. The proposed construction, infrastructure improvements, sewer-line realignment, pier
improvements, and trenching activities may have some impact upon coastal waters
due to nonpoint pollution. 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 examine
Management Measures for Existing Development (page 122) and Marina Shoreline
Stabilization (page 144). The Watershed Guidance addresses measures that can be
taken to reduce pollutant loadings flowing into Kaneohe Bay. This Guidance can be
viewed or downloaded from the Office of Planning website at
Final.pdf.

4. There is no discussion of the project’s potential impacts to water resources from
stormwater and inundation concerns. Please consider utilizing the Office of
Planning’s Stormwater Impact Assessment, to identify and evaluate information on
Low Impact Development (LID) site design measures; please see page 15 of the
Stormwater Impact Assessment. This guidance document will assist in integrating
stormwater impact assessment within your review process. The Appendices include a
list of Data Resources, Best Management Practice Techniques, and a Reviewer’s
Checklist. The Stormwater Impact Assessment guidance document can be found at
http://files.hawaii.gov/dbedt/op/czm/initiative/stormwater_impact/final_stormwater_i
mpact_assessments_guidance.pdf.

Should you have questions or require clarification on the above comments, please contact
Josh Hekekia, of the CZM Program, at 587-2845.

Sincerely,

[Signature]

Jesse K. Souki
Director
January 21, 2014

Community Planning & Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813
Attention: Ms. Colette Sakoda

Dear Ms. Sakoda

Subject: Draft Environmental Assessment
Hawaii Institute of Marine Biology (MIMB)
Portion of Tax Map Key: 1-9-1-13:045
Coconut Island, Kaneohe, Hawaii

Thank you for the opportunity to review and comment on the Draft Environmental Assessment (DEA) for the subject project.

Please correct the spelling of the Company’s name, Hawaiian Telecom, to Hawaiian Telcom. Please continue to include us during the design stages of the project.

If you have any questions or require assistance in the future on this project, please call me at 546-7761.

Sincerely,

Les Loo
Network Engineer – Outside Plant Engineering
Network Engineering & Planning

cc: File
Ms. Colette Sakoda
Community Planning and Engineering, Inc
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda,

Thank you for the opportunity to comment on the subject project. Hawaiian Electric Company (HECO) has no objections to the project. We offer the following comments:

- Should HECO have existing easements and facilities on the subject property, we will need continued access for maintenance of our facilities.
- With reference to page 19 of the Draft EA, 1st paragraph that states “…the water and electrical lines will be placed together in a separate bore hole….” the 4th paragraph states “…The electrical line will be connected to the closest transformer on the island via a trench approximately 260 feet in length, 2 feet wide, and 3 feet deep…” and the 5th paragraph states “…The electrical trench length will be approximately 125 feet, 2 feet wide, and 3 feet deep.”. We wish to comment that HECO will require a separate boring from the water line bore hole. The separate bore should be sized to include four 5” conduits and will connect to an available manhole on the Coconut Island side.

We appreciate your efforts to keep us apprised of the subject project in the planning process. As the Hawaii Institute of Marine Biology at Coconut Island infrastructure rehabilitation/replacement project 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 Liu
Confidentiality Notice: This e-mail message, including any attachments, is for the sole use of the intended recipient(s) and may contain confidential and/or privileged information. Any unauthorized review, use, copying, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender immediately by reply e-mail and destroy the original message and all copies.
January 22, 2014

Community Planning and Engineering, Inc.
Attention: Ms. Colette Sakoda
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Dear Ms. Sakoda,

SUBJECT: Chapter 343 Hawai‘i Revised Statutes (HRS) Draft Environmental Assessment (EA) for the Proposed Infrastructure Rehabilitation/Replacement at the Hawai‘i Institute of Marine Biology (HIMB)

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) Division of State Parks; (2) Office of Conservation & Coastal Lands; (3) Division of Boating & Ocean Recreation; (4) Engineering Division; and (5) Land Division – Oahu District. 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)
TO: DLNR Agencies:
X Div. of Aquatic Resources
X Div. of Boating & Ocean Recreation
X Engineering Division
X Div. of Forestry & Wildlife
X 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 V. Tsuji, Land Administrator

SUBJECT: Chapter 343 Hawai‘i Revised Statutes (HRS) Draft Environmental Assessment (EA) for the Proposed Infrastructure Rehabilitation/Replacement at the Hawai‘i Institute of Marine Biology (HIMB)

LOCATION: Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kane‘ohe, O‘ahu

APPLICANT: University of Hawai‘i Manoa, Office of the Assistant Vice Chancellor for Physical, Environmental and Long Range Planning by Community Planning and Engineering, Inc.

Transmitted for your review and comment on the above-referenced document which can be found here:

1. Go to: https://sp01.ld.dlnr.hawaii.gov/LD
2. Login: Username: LDVisitor Password: 0pa$word0 (first and last characters are zeros)
3. Click on: Requests for Comments
4. Click on the subject file "Chapter 343 Hawai‘i Revised Statutes (HRS) Draft Environmental Assessment (EA) for the Proposed Infrastructure Rehabilitation/Replacement at the Hawai‘i Institute of Marine Biology (HIMB)" then click on "Files" and "Download a copy".

We would appreciate your comments on this document. Please submit any comments by January 21, 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: Daniel S. Olson
Date: 12/23/13

cc: Central Files
MEMORANDUM

TO: DLNR Agencies:
   - X Div. of Aquatic Resources
   - X Div. of Boating & Ocean Recreation
   - X Engineering Division
   - X Div. of Forestry & Wildlife
   - X 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: Chapter 343 Hawai‘i Revised Statutes (HRS) Draft Environmental Assessment (EA) for the Proposed Infrastructure Rehabilitation/Replacement at the Hawai‘i Institute of Marine Biology (HIMB)

LOCATION: Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kane‘ohe, O‘ahu

APPLICANT: University of Hawai‘i Manoa, Office of the Assistant Vice Chancellor for Physical, Environmental and Long Range Planning by Community Planning and Engineering, Inc.

Transmitted for your review and comment on the above-referenced document which can be found here:

1. Go to: https://sp01.ld.dlnr.hawaii.gov/LD
2. Login: Username: LDVisitor Password: Op4$word0 (first and last characters are zeros)
3. Click on: Requests for Comments
4. Click on the subject file “Chapter 343 Hawai‘i Revised Statutes (HRS) Draft Environmental Assessment (EA) for the Proposed Infrastructure Rehabilitation/Replacement at the Hawai‘i Institute of Marine Biology (HIMB)” then click on “Files” and “Download a copy”.

We would appreciate your comments on this document. Please submit any comments by January 21, 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: K. Tiger Mills
Date: 1/28/14

cc: Central Files
SUBJECT: Reconsideration Regarding Rehabilitation/Replacement of Utilities and Facilities Located at the Hawaii Institute of Marine Biology (HIMB), Moku O Lo‘e, Kaneohe Bay, Oahu, TMKs: (1) 4-6-001:001 & 051

Dear Mr. Mukai:

The Office of Conservation and Coastal Lands (OCCL) has reviewed your correspondence request to reconsider our former determination and the additional information provided. By our former correspondence dated September 26, 2012, the OCCL determined that the replacement of existing utilities and seawall repair would require the filing of a Conservation District Use Application (CDUA) and that more information was needed to make a determination regarding re-routing the gravity sewer line.

According to your information:

1. Replacing Existing Utilities: The alignment of the replacement utility lines would be installed using horizontal directional drilling to avoid contact with Kaneohe Bay and to minimize environmental impacts. The alignment will generally follow the existing route and no additional sewer flows would be added to the existing system;

2. Re-routing Existing Gravity Sewer: On the northern coast of the island, the existing lines would be abandoned in place and replaced with a new shorter alignment to transport wastewater from the dorms to the pump station. The re-routed line will be located in the same general area and the proposed work is currently being reviewed by SHPD; and

3. Seawall Repair (Maile Point): The seawalls are in need of repair maintenance or replacement. The proposed work will be a like-to-like replacement and will not exceed 50% of the total cost to replace all seawalls at Coconut Island.

All of the above proposed maintenance work were a part of the Coconut Island (Moku O Lo‘e) Long Range Development Plan and mentioned in the Final Environmental Impact Statement.
The OCCL notes Moku O Lo’e lies within the General subzone of the Conservation District and is surrounded by submerged land that lies within the Protective subzone. The requested repairs appear to be necessary and would support the reduction of the potential for environmental degradation of the island and surrounding waters.

As the noted improvements appear to be maintenance repair and/or replacement of existing nonconforming structures to an extent of less than 50% of its replacement costs for the noted proposed improvements, the proposed repairs/replacement does not require a permit from the Department pursuant to the Hawaii Administrative Rules (HAR), §13-5-22 P-8 STRUCTURES AND LAND USES EXISTING, (A-1) Minor repair, maintenance, and operation to an existing structure, facility, use, land, and equipment, whether it is nonconforming or permitted, that involves mostly cosmetic work or like-to-like replacement of component parts, and that results in negligible change to or impact to land, or a natural and cultural resource and HAR, §13-5-7 Nonconforming uses and structures. Nonconforming structures shall not exceed the size, height, or density of the structure which existed on October 1, 1964 or at the time of its inclusion into the conservation district.

HIMB remains responsible for compliance with Chapter 343, HRS as necessary and compliance with other Federal, State or County authorizations whether a Conservation District Use Permit is required or not. Should you have questions regarding this correspondence contact Tiger Mills of our Office of Conservation and Coastal Lands at (808) 587-0382.

Sincerely,

[Signature]

Samuel J. Lemmo, Administrator
Office of Conservation and Coastal Lands

c: Chairperson
ODLO/DAR/OHA
County of Honolulu-DPP
DOA
MEMORANDUM

TO: DLNR Agencies:
X Div. of Aquatic Resources
X Div. of Boating & Ocean Recreation
X Engineering Division
X Div. of Forestry & Wildlife
X 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: Chapter 343 Hawai‘i Revised Statutes (HRS) Draft Environmental Assessment (EA) for the Proposed Infrastructure Rehabilitation/Replacement at the Hawai‘i Institute of Marine Biology (HIMB)

LOCATION: Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kane‘ohe, O‘ahu
APPLICANT: University of Hawai‘i Manoa, Office of the Assistant Vice Chancellor for Physical, Environmental and Long Range Planning by Community Planning and Engineering, Inc.

Transmitted for your review and comment on the above-referenced document which can be found here:

1. Go to: https://sp01.ld.dlnr.hawaii.gov/LD
2. Login: Username: LDVisitor Password: Opa$$wordO (first and last characters are zeros)
3. Click on: Requests for Comments
4. Click on the subject file “Chapter 343 Hawai‘i Revised Statutes (HRS) Draft Environmental Assessment (EA) for the Proposed Infrastructure Rehabilitation/Replacement at the Hawai‘i Institute of Marine Biology (HIMB)” then click on “Files” and “Download a copy”.

We would appreciate your comments on this document. Please submit any comments by January 21, 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: [Signature]
Print Name: [Name]
Date: [Date]

cc: Central Files
MEMORANDUM

TO: DLNR Agencies:
   X Div. of Aquatic Resources
   X Div. of Boating & Ocean Recreation
   X Engineering Division
   X Div. of Forestry & Wildlife
   X 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: Chapter 343 Hawai‘i Revised Statutes (HRS) Draft Environmental Assessment (EA) for the Proposed Infrastructure Rehabilitation/Replacement at the Hawai‘i Institute of Marine Biology (HIMB)

LOCATION: Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kane‘ohe, O‘ahu
APPLICANT: University of Hawai‘i Manoa, Office of the Assistant Vice Chancellor for Physical, Environmental and Long Range Planning by Community Planning and Engineering, Inc.

Transmitted for your review and comment on the above-referenced document which can be found here:

1. Go to: https://sp01.ld.dlnr.hawaii.gov/LD
2. Login: Username: LD\Visitor Password: 0pa$$word0 (first and last characters are zeros)
3. Click on: Requests for Comments
4. Click on the subject file “Chapter 343 Hawai‘i Revised Statutes (HRS) Draft Environmental Assessment (EA) for the Proposed Infrastructure Rehabilitation/Replacement at the Hawai‘i Institute of Marine Biology (HIMB)” then click on “Files” and “Download a copy”.

We would appreciate your comments on this document. Please submit any comments by January 21, 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: [Signature]
Print Name: [Name]
Date: [Date]

cc: Central Files
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

LD/Russell Y. Tsuji
REF: Chapter 343, HRS, DEA for Proposed Infrastructure Rehabilitation/Replacement at the Hawaii Institute of Marine Biology, Coconut Island, Kaneohe Oahu.027

COMMENTS

(X) We confirm that the access drive and parking lot (located along the Kaneohe Bay coast area of 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 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: ____________________________________________________________

(X) Other: The National Flood Insurance Program (NFIP) does not designate a flood zone for the Coconut Island portion of the project site.

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

Signed: __________________________
CARTVO S. CHANG, CHIEF ENGINEER

Date: __________________________
MEMORANDUM

TO:

DLNR Agencies:
- X Div. of Aquatic Resources
- X Div. of Boating & Ocean Recreation
- X Engineering Division
- X Div. of Forestry & Wildlife
- X 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: Chapter 343 Hawaii Revised Statutes (HRS) Draft Environmental Assessment (EA) for the Proposed Infrastructure Rehabilitation/Replacement at the Hawaii Institute of Marine Biology (HIMB)

LOCATION: Hawaii Institute of Marine Biology (HIMB), Coconut Island, Kaneohe, Oahu

APPLICANT: University of Hawai'i Manoa, Office of the Assistant Vice Chancellor for Physical, Environmental and Long Range Planning by Community Planning and Engineering, Inc.

Transmitted for your review and comment on the above-referenced document which can be found here:

1. Go to: https://sp01.ld.dlnr.hawaii.gov/LD
2. Login: Username: LDVisitor Password: 0pa$$word0 (first and last characters are zeros)
3. Click on: Requests for Comments
4. Click on the subject file "Chapter 343 Hawaii Revised Statutes (HRS) Draft Environmental Assessment (EA) for the Proposed Infrastructure Rehabilitation/Replacement at the Hawaii Institute of Marine Biology (HIMB)" then click on "Files" and "Download a copy".

We would appreciate your comments on this document. Please submit any comments by January 21, 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: 

cc: Central Files
MEMORANDUM

TO: Russell Y. Tsuji, Administrator
Land Division

ATTN.: Steve Molmen, Supervising Land Agent
Land Division

FROM: Barry Cheung, District Land Agent
Oahu District Land Office, Land Division

SUBJECT: Chapter 343 Hawaii Revised Statutes (HRS) Draft Environmental Assessment for the Proposed Infrastructure Rehabilitation/Replacement at the Hawaii Institute of Marine Biology (HIMB); Coconut Island, Koolaupoko, Oahu; TMK (1) 4-6-1:51

The subject location, Coconut Island, is under the jurisdiction of the University of Hawaii pursuant to General Lease No. 5325 and Governor's Executive Order 3794.

Upon checking the above mentioned documents, we are not sure if the proposed works fall within the boundary of the two documents. If the works are outside the boundary, an amendment to the disposition(s) accounting for any new alignment or location will be in order.

Therefore, we would ask the applicant/consultant to confirm if all the proposed works will be conducted within the boundary of GL 5325 and GEO 3794, or provide legal description(s) and map(s) of any works outside the boundary of the above mentioned documents for any amendment action.

Electronic copies of the above mentioned two documents will be provided for forwarding to the applicant/consultant. If you have any further questions, please feel free to contact us at 587-0430.
January 22, 2014

Ms. Colette Sakoda
Senior Project Manager
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT: Draft Environmental Assessment (DEA) Hawaii Institute of Marine Biology; Coconut Island, Kaneohe, Oahu, Hawaii

In response to your letter dated December 20, 2013, we have no comments to offer at this time.

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,

[Signature]

Michael D. Formby
Director
January 22, 2014

Ms. Collette Sakoda, Senior Project Manager
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Subject: Hawaii Institute of Marine Biology (HIMB) Coconut Island, Kaneohe Chapter 343 Hawaii Revised Statutes (HRS) Draft Environmental Assessment (EA)

Thank you for the opportunity to review and comment on the subject project.

Our comments are as follows:

- Once the construction phase commence, approved Best Management Practices shall be placed; as needed along Lilipuna Road.
- Upon completion of project; any deficiencies/damages within Lilipuna Road’s right-of-way caused during construction of the subject project, shall be corrected and accepted by the City.

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

Sincerely,

Ross S. Sasamura, P.E.
Director and Chief Engineer
Ms. Colette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813

Dear Ms. Sakoda:

The U.S. Fish and Wildlife Service (Service) has received the Draft Environmental Assessment (DEA) for the Hawai‘i Institute of Marine Biology, Coconut Island Infrastructure Rehabilitation and Replacement Project, Kāne‘ohe, O‘ahu, Hawai‘i, and provides the following comments. This letter has been prepared under the authority of and in accordance with provisions of the Fish and Wildlife Coordination Act of 1934 [16 U.S.C. 661 et seq.; 48 Stat. 401], as amended (FWCA); the Clean Water Act of 1977 [33 USC 1251 et seq.; 91 Stat. 1566], the Endangered Species Act of 1973 [16 U.S.C. 1531 et seq.; 87 Stat. 884], as amended (ESA); and other authorities mandating Service’s review and recommendations to conserve trust resources. The Service was not included in early planning for this project.

The FWCA provides the basic authority for the Secretary of the Interior, through the Service, to assist and cooperate with Federal, state and public or private agencies and organizations in the conservation and rehabilitation of wildlife. Whenever the waters or channel of a body of water are modified by a Federal agency, or by any other entity where a Federal permit is required, adequate and equal consideration must be made for the conservation, maintenance, and management of wildlife resources and habitat. The National Marine Fisheries Service (NMFS) provides similar assistance and cooperation for wildlife species under the management responsibilities of the Department of Commerce. Consultation under the FWCA is to be conducted with the Service, NMFS as appropriate, and the agency administering the wildlife resources of the State in which the project is located. The Service is the lead agency and has the responsibility of ensuring that concerns and recommendations of the other resource agencies are considered fully in FWCA reviews.

Project Description

The State of Hawai‘i, University of Hawai‘i, is proposing improvements to the Hawai‘i Institute of Marine Biology, Coconut Island, by rehabilitating and replacing utilities and structures necessary for the continued operation of the facility. The proposed improvements include
submerged utility line replacement, installation of fiber optic cable line, re-routing an existing gravity sewer line, sewage pump replacement and wet well repairs, and rehabilitation of the Lighthouse Pier for continuation of vessel shuttle service to and from Lilipuna Pier.

The existing sewer, water, electric, and communications lines are all submerged and will be replaced via horizontal directional drilling (HDD). The HDD routes are new construction and not within the original footprint of the existing electrical lines or communication lines. HDD will bore holes under the existing substrate but may release drilling mud and oil into the immediate water column. For the Lighthouse Pier, the existing concrete platform of the pier will be demolished and removed, and replaced with a new platform within the same footprint. The existing pilings will not be removed, but rehabilitated in place using fiber-reinforced laminates wrapped around the pilings and filled with grout.

The DEA states that for the proposed replacements and rehabilitation, mechanized equipment will be operated from the land side to excavate trenches and achieve the replacement of the infrastructure. In addition, there may be use of a barge or small vessel in the vicinity of the Lighthouse Pier for the demolition and replacement of the pier deck and the rehabilitation of the existing pier pilings.

*General Comments*

Aquatic/marine fish and wildlife resources occur immediately within and adjacent to the proposed submerged project areas, including portions of Kāne‘ohe Bay that are designated as the Coconut Island – Hawai‘i Marine Laboratory Refuge by the State of Hawai‘i, Department of Land and Natural Resources. While the DEA estimates that there will be “6 feet of water above the shallowest coral at low tide”, the corals around Coconut Island and adjacent to Lilipuna Pier are exposed daily at low tide. In-water work will have to be timed with high tide events in order to minimize damage to the marine resources present. Particular attention should be given to potential construction and vessel-related impacts to endangered and threatened species, including sea turtles, seabirds and migratory birds, coral reefs, macro-algae beds, and rare, native species and habitats. The indirect and cumulative effects of potential impacts over time, along with measures to avoid, minimize and compensate for unavoidable impacts to aquatic resources should be addressed. Such measures could include the use of silt curtains to contain suspended sediments during HDD activities.

Project-related operations should be scheduled to avoid the spawning period for most coral species, which in Hawai‘i is April through August. Although the September 20, 2013, SWCA Environmental Consultants report provided a species list of coral present within and adjacent to the project footprints, the report did not include quantitative information pertaining to the actual number or sizes of species or colonies present. In addition, the interior piles and habitat under the Lighthouse Pier were not inspected due to safety concerns; therefore, only the outer pilings were inspected for presence of coral and other marine resources. The same applies to other taxonomic groups of marine organisms such as non-coral invertebrates, reef fishes, and macroalgae. A three page checklist, Appendix C of the SWCA report, does not qualify as an
evaluation of the marine community present. Because there is insufficient information to adequately review project impacts or to plan for mitigating functional habitat losses, we recommend further discussion between the Corps, the applicant, and the federal and state resource agencies to explore approaches to functional assessment and replacement, if any, of the impacted marine resources.

The submerged areas of Coconut Island and Lilipuna Pier described in this project have established outcrops of introduced and invasive macroalgae including *Gracilaria salicornia*, *Eucheuma denticulatum*, *Acanthophora spicifera*, and *Kappaphycus* spp. There are ongoing efforts by the State of Hawai‘i, Department of Land and Natural Resources, and The Nature Conservancy Hawai‘i, to reduce the abundance, decrease the geographic range, and control the mechanisms of spread of these species throughout Kāneʻohe Bay. Proposed project activities will disturb these environments and possibly result in the fragmentation of thalli, allowing attachment to machinery and materials, and deposition in habitats outside of the project area. In addition, the invasive orange keyhole sponge (*Mycale armata*) is established in the reef flats and reef slopes of the project areas and individuals and are easily fragmented when disturbed. All of the species mentioned in this paragraph have the ability to settle on substrate and overgrow and smother living coral colonies. Therefore, it is important to ensure that the recommended Best Management Practices (BMPs) are implemented: in particular, "K") referring to the appropriate placement of effective silt containment devices (these may effectively contain and allow fragments of invasive species to settle to the bottom which will minimize their movement) and curtailment of work during adverse tidal and weather conditions; and "l") cleaning equipment (dredges, barges, backhoes, etc.) to be used in the water prior to use. We further recommend that the equipment be cleaned after use to prevent the spread of invasive species to other waters.

There is mention in section 3.2.5.2, Potential Impacts and Mitigation, that translocation of corals may be considered during the design phase of the project. The translocation methodology should be developed concurrent with the EA, with both the Service and NMFS involved in the early planning process.

The Service recommends that the Standard Fish and Wildlife Best Management Practices (enclosed), both terrestrial and submerged, be incorporated into the project to avoid or minimize the project-related degradation of water quality conditions.

In addition, night lighting of the construction area and on tall construction equipment should be shielded and directed downward to help reduce the likelihood of seabird collisions with equipment and other structures. Outdoor lighting, such as street lights, can adversely impact ESA listed and migratory seabird species found in the vicinity of the proposed project. Seabirds fly at night and are attracted to artificially lighted areas, which can result in disorientation and subsequent fallout due to exhaustion or collision with objects such as utility lines and guy wires that protrude above the vegetation layer. Wedge-tail shearwater (*Puffinus pacificus*) nesting colonies are located nearby the project area in offshore islets and every year many young shearwaters are downed, where they are vulnerable to predators or struck by vehicles on Oahu roadways. Any increase in the use of night-time lighting, particularly during each year’s peak
Colette Sakoda

fallout period (September 15 through December 15), could result in additional seabird injury or mortality. Impacts to seabirds can be minimized by shielding outdoor lights associated with the project to the maximum extent possible, eliminating night-time construction, and providing all project staff and residents with information about seabird fallout. All lights, including lights used in staging areas, should be shielded so the bulb can only be seen from below and should use the lowest wattage bulbs possible.

**Cumulative Impacts**

The Service considers the spread of non-native invasive species to be a major threat to threatened and endangered species and other trust resources because of their potential to become permanently established and to alter existing terrestrial or aquatic ecosystems. Construction activities and the transportation of equipment and materials for the proposed action at Coconut Island and Lilipuna Pier are potential pathways for the introduction and expansion of terrestrial and aquatic invasive species (*i.e.* microbes, plants, vertebrates, and invertebrates). Pathways for the introduction and spread of non-native and invasive species via the proposed action could be, but are not limited to: construction equipment and materials, personal protective equipment, vehicles/vessels and their contents, shipping material, and other sources that provide conditions for transport of introduced and invasive species. The Service recommends that any future assessment provide an evaluation of the potential for movement and dispersal of introduced and invasive species due to planned activities, and provide measures to prevent or reduce impacts from introduced and invasive species.

**Fish and Wildlife Coordination Act**

If the applicant can provide the missing biological impact assessment information, including quantitative surveys of marine flora and fauna, there is no need for a Fish and Wildlife Coordination Act investigation and subsequent report. However, the applicant should continue to include the Service and NMFS in their planning process, including during the construction phase. If the rehabilitation plan undergoes changes, such as the change in or expansion of the footprint, change in HDD route locations, or changes in the locations of the staging areas, please notify the Service immediately so that the inquiry can be initiated and completed in a time frame that is acceptable to the project start date.

**Endangered Species**

The following recommendations constitute the Service’s technical assistance on the proposed project and are provided to assist the Corps’ permit applicant minimize impacts to threatened and endangered species. If the project may affect listed species or designated critical habitat, consultation pursuant to Section 7(a)(2) of the Endangered Species Act will be required.

The Hawaiian hoary bat is unlikely to be roosting in the vicinity of the project footprint. However, our records indicate there is a low probability that Hawaiian waterbirds, including Hawaiian stilt, Hawaiian coot and Hawaiian moorhen, may occur in the vicinity of the proposed
project. We recommend you incorporate the following measures into your project description to avoid and minimize impacts to listed Hawaiian waterbirds, if encountered:

- Any documented nests or broods within the project vicinity should be reported to the Service within 48 hours.
- A 100-foot buffer should be established and maintained around all active nests and broods until the chicks/ducklings have fledged. No potentially disruptive activities or habitat alteration should occur within this buffer.
- If a listed Hawaiian waterbird is observed within the project site, or flies into the site while activities are occurring, the project manager should halt all activities within 100 feet of the individual(s). Work should not resume until the Hawaiian waterbird(s) leave the area on their own accord.

The National Marine Fisheries Service (NMFS) is the Federal agency that consults on potential impacts to monk seals (*Monachus schauinslandi*), both in their on-shore and ocean habitats. Therefore, we did not review the proposed project for potential project impacts to monk seals. We recommended that you contact NMFS in Honolulu regarding the presence of monk seals in the area and potential impacts to the species and other marine mammals from the project. The marine mammal enclosure pen is located directly across from the Lighthouse Pier and the animals may be exposed to adverse impacts from the elevated noise pollution related to construction activities, including HDD.

We appreciate the opportunity to comment on the Draft Environmental Assessment for the Hāwai‘i Institute of Marine Biology, Coconut Island Infrastructure Rehabilitation and Replacement Project, Kāne‘ohe, O‘ahu, Hawai‘i. We request that the foregoing comments be considered and addressed before Corps approval of the permit. If you have questions regarding these comments, please contact biologist Nadiera Sukhraj (Nadiera_McCarthy@fws.gov) at 808-792-9400.

Sincerely,

[Signature]

Loyal Mehrhoff
Field Supervisor

Enclosure
U.S. Fish and Wildlife Service
Recommended Standard Best Management Practices for
Horizontal Directional Drilling

The U. S. Fish and Wildlife Service recommends that the following measures be incorporated into projects to minimize the degradation of water quality and impacts to fish and wildlife resources:

a. A site-specific spill response plan should be developed. Prior to HDD operations, all construction personnel should be properly trained in spill containment and clean-up and should be familiar with the site-specific response plan.

b. Plastic barriers should be placed under the drilling equipment and oil absorbent blankets should be placed around hydraulic components to add protection between the rig and the ground surface in the order to contain any spill.

c. Drilling should use proven environmentally “friendly” drilling fluids (i.e., mud). Oil-based mud (OBM) should not be used. Synthetic-based or water-based mud (WBM), such as those containing bentonite, are currently recommended for drilling activities.

d. Discharge of any drilling mud into shallow marine or aquatic environments is discouraged. Techniques for mud-free drill exits should be employed.

e. Drilling should not be conducted during coral spawning periods.

f. During HDD operation, the drill path shall be constantly monitored for surface release by trained personnel and constant communication between the monitors and the control cab should be maintained at all times. The monitors should be kept constantly informed of the progress of the drill head so as to be able to concentrate their search for any indications of an inadvertent release of drilling fluid.

g. In the event of a subsurface release in a marine or aquatic environment, divers equipped with water lifts (pumps) and filter bags should be used to remove drilling fluids from the bottom.

h. In the event of drilling fluid release on land, the spill should be immediately contained and the fluid transferred back to the drill site for reuse or into storage tanks and removed from the site.

i. Once the HDD operation is complete, the work area should be returned to its original condition or better.

j. All drilling fluids and all debris removed from the marine/aquatic environment should be disposed in an approved land disposal facility and not into the marine or aquatic environment.
k. Turbidity and siltation from project-related work should be minimized and contained within the vicinity of the site through the appropriate use of effective silt containment devices and the curtailment of work during adverse tidal and weather conditions.

l. All project-related materials and equipment (dredges, barges, backhoes, etc.) to be used in the water should be cleaned of pollutants prior to use.

m. No project-related materials (fill, revetment rock, pipe, etc.) should be stockpiled in the water (intertidal zones, reef flats, stream channels, wetlands, etc.).

n. No contamination (trash or debris disposal, non-native species introductions, attraction of non-native pests, etc.) of adjacent habitats (reef flats, channels, open ocean, stream channels, wetlands, etc.) should result from project-related activities.

o. Fueling of project-related vehicles and equipment should take place away from the water and a contingency plan to control petroleum products accidentally spilled during the project should be developed. Absorbent pads and containment booms should be stored on-site, if appropriate, to facilitate the clean-up of accidental petroleum releases.

p. Any under-layer fills used in the project should be protected from erosion with cover stones (or core-loc units) as soon after placement as practicable.

q. Any soil exposed near water as part of the project should be protected from erosion (with plastic sheeting, filter fabric, etc.) after exposure and stabilized as soon as practicable (with native or non-invasive vegetation matting, hydroseeding, etc.).
January 24, 2014

Ms. Colette Sakoda
Senior Project Manager
Community Planning & Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT: Draft Environmental Assessment
Coconut Island Infrastructure Rehabilitation and Replacement Project
Koolaupoko, Kaneohe Bay - Waianae
Tax Map Key 4-6-1: 1, 15, 26, 27, and 51

We have reviewed the Draft Environmental Assessment (DEA) for the above-referenced project, and provided the following comments:

Section 2.1 Scope and Authority: This section of the Final Environmental Assessment (FEA) should specify that this document fulfills the requirements of Section 343-5(a)(1), (2) and (3), of Hawaii Revised Statutes (HRS) for the use of State lands and funds, activities within the Conservation District and shoreline area as defined by Section 205A-41, HRS, and in compliance with Section 11-200-5(a), (b), and (c), Hawaii Administrative Rules, as an "agency action."

Section 2.3.2. Proposed Action - The Preferred Alternative: The current conditions should be more thoroughly described in order to understand what is being replaced. The FEA should include a description of the improvements shown in Figure 3 - Site Plan (i.e., size, type of construction, and length of crossing, etc.). The FEA should include a detailed description of horizontal directional drilling methods. The FEA should contrast "conventional" drilling methods with horizontal directional drilling methods. Proposed construction activities at "receiving sites" on either end of the proposed crossings should be described.

The FEA should describe and depict the location of the new pump station on the eastern side of the island. Explain why the additional 880 linear feet of trenching is necessary to connect the existing pump station with this new pump station. The FEA should describe the existing on-island sewer lines and their condition; and, provide an exhibit showing the location of these lines. We suggest that a Site Plan showing all of the buildings that includes the names of existing improvements (i.e., building or facility names) be included in the FEA.
Section 2.3.2.2 Re-Routing Existing Gravity Sewer Lines: According to this section, buildings at the North Lagoon no longer exist. The FEA should clarify why 400 linear feet of trenching here is considered "rerouting" versus installing a new sewer line, since no existing sewer line is shown on Figure 3 (i.e., existing sewer lines should be shown).

Section 2.3.2.3 Sewage Pump Replacement and Wetwell Repairs: The FEA should discuss the function of the existing pump station on the east side of the island and the need to maintain it. The FEA should explain, as well as show on an exhibit, what the existing pump station is connected to (i.e., where is the existing 4-inch force main).

Section 3.2.1.1 Existing Conditions: This section of the FEA should include a brief history of the Coconut Island, including the history of its current configuration. Similarly, the Lilipuna Pier site should be more thoroughly described (i.e., size, shape, existing improvements, etc.). The FEA should include a site plan of this shoreline facility showing the existing conditions.

Section 3.2.2.2 Potential Soils Impact and Mitigation: The FEA should disclose the volume of excavation and embankment (i.e., cubic yards) which is anticipated to complete the proposed project. The FEA must disclose the extent of the alteration to existing land forms in order to properly explain how such alterations can be managed to minimize potential impacts, including flooding and runoff, which could impact surrounding near-shore water quality and therefore, adversely impact research activities conducted at this facility.

Section 4.3.3.1 Special Management Area Use Permit: The FEA should address project consistency with the objectives and policies of the Special Management Area as specified in Section 25-3.1, (Revised Ordinance of Honolulu) ROH and Section 205A-2 Hawaii Revised Statutes.

Section 4.3.3.2 Shoreline Setback Variance (SSV): The FEA should identify structures and activities that will occur within the shoreline setback area. A description of activities and structures and anticipated impacts should be disclosed. If all activities occur below existing grades, then a section or profile exhibit(s) should be provided. The FEA should discuss the criteria for granting an SSV; specifically the Public Interest Standard pursuant to Section 23-1.8 (b)(2), ROH.

If you have any questions, please contact Steve Tagawa of our staff at 768-8024.

Very truly yours,

George I. Atta, FAICP
Director

GIA:nw

cc: OEQC
    DLNR/OCCL
From: Colette M. Sakoda  Sent: Monday, January 27, 2014 11:40 AM  To: Hirai, Peter J.S.  Cc: Masuoka, Mari; Miya Akiba  Subject: RE: Comments on Coconut Island EA for HIMB

Peter,

Thank you for the response.

Colette Sakoda  T: 808-833-2225 ext. 1004

From: Hirai, Peter J.S. [mailto:PHirai@honolulu.gov]  Sent: Monday, January 27, 2014 11:35 AM  To: Colette M. Sakoda  Cc: Masuoka, Mari  Subject: Comments on Coconut Island EA for HIMB

Colette:

The City Department of Emergency Management has no comment on the referenced Environmental Assessment for the Coconut Island HIMB project.

My apologies this is late.

Thank you!

Peter J.S. Hirai, Certified Emergency Manager  Deputy Director  Department of Emergency Management  650 South King Street  Honolulu, Hawaii 96813-3078  Voice: (808) 723-8960 Fax: (808) 768-1458

Follow DEM—  On the World Wide Web: www.OahuDEM.org  On Facebook: www.facebook.com/OahuDEM  On Twitter: www.twitter.com/Oahu_DEM  Sign up for free alerts to your cell phone at www.nixle.com/DEM, provided by the City & County of Honolulu
Ms. Colette Sakoda  
Community Planning and Engineering, Inc.  
1286 Queen Emma Street  
Honolulu, Hawaii 96813  

Dear Ms. Sakoda:  

SUBJECT: Draft Environmental Assessment for the Hawai'i Institute of Marine Biology, Coconut Island Infrastructure Rehabilitation and Replacement Project, Kāne'ohe, O'ahu, Hawai'i  

We have reviewed the subject document as transmitted to us by your letter dated December 20, 2013. We have the following comments:  

1. The Department of Planning and Permitting (DPP), Wastewater Branch has the lead role in issuing sewer connection permits.  

2. We have not received responses to our comments that we provided in our letter dated September 13, 2013, enclosed. Please provide responses to these comments.  

Should you have any questions, please call Lisa Kimura, Civil Engineer, at 768-3455.  

Sincerely,  

Lori M.K. Kahikina, P.E.  
Director  

Attachment  

cc: Department of Planning and Permitting, SDD, WWB
Collette Sakoda
Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application, Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project, Kaneohe, O'ahu, Hawai'i

The City and County (CCH) of Honolulu Department of Environmental Services (ENV) has reviewed your letter dated August 21, 2013. We have the following comments:

1. For your information, there have been five capacity/wet weather related sanitary sewer overflows (SSOs) downstream of the Coconut Island force main connection to the CCH sewer system since 1999.

2. The following comments are in regards to the wastewater pump station and force main connection to the CCH sewer system:

   a. The proposed peak flow from one of the replaced pumps should be limited to a flow capacity that ENV will accept.

   b. The pump controls for the replacement pumps should be configured so that two pumps can never be turned on at the same time.

   c. Upon completion of the pump replacement, we request a flow test report, signed by a Professional Engineer, which correlates flow rate to running pump time. The running pump time may then be used for billing purposes.
If you have any questions or require additional information, please call Jack Pobuk, Program Coordinator, at 768-3464. Thank you for your consideration of this matter.

Sincerely,

Lori M.K. Kahikina, P.E.
Director

cc: Department of Planning and Permitting
Ms. Colette Sakoda, Senior Project Manager  
Community Planning and Engineering, Inc.  
1286 Queen Emma Street  
Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Subject: Your Letter Dated December 20, 2013 Requesting Comments on the Draft Environmental Assessment for the Proposed Infrastructure Rehabilitation/Replacement at the Hawaii Institute of Marine Biology, Kaneohe - Tax Map Key: 4-6-001:001.051

Thank you for the opportunity to comment on the proposed infrastructure rehabilitation/replacement at the Hawaii Institute of Marine Biology.

The comments in our letter dated September 18, 2013, which is included in the document, are still applicable.

If you have any questions, please contact Robert Chun at 748-5443.

Very truly yours,

[Signature]

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

cc: Stephen Meder (University of Hawaii)
Ms. Colette Sakoda  
Senior Project Engineer  
Community Planning and Engineering, Inc.  
1286 Queen Emma Street  
Honolulu, Hawaii  96813  

Dear Ms. Sakoda:

Subject: Your Letter Dated August 21, 2013 Regarding the Pre-Assessment Consultation for the Special Management Area Use Permit (major) and Shoreline Setback Variance Application: Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project - Tax Map Key: 4-6-001:001, 051

Thank you for your letter regarding the proposed Coconut Island Utility Rehabilitation/Replacement Project.

The existing water system is adequate to accommodate the proposed project. However, please be advised that this information is based upon current data, and therefore, the Board of Water Supply reserves the right to change any position or information stated herein up until the final approval of the building permit application. The final decision on the availability of water will be confirmed when the building permit application is submitted for approval.

When water is made available, the applicant will be required to pay our Water System Facilities Charges for resource development, transmission and daily storage.

The on-site fire protection requirements should be coordinated with the Fire Prevention Bureau of the Honolulu Fire Department.

If you have any questions, please contact Robert Chun at 748-5443.

Very truly yours,

[Signature]

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

cc: George I. Atta, Department of Planning and Permitting – Attn: Steve Tagawa
February 26, 2014

Mr. Dwight Takamine, Director  
State of Hawaii  
Department of Labor and Industrial Relations  
830 Punchbowl Street, Room 321  
Honolulu, Hawaii 96813

Dear Mr. Takamine:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated December 24, 2013 regarding the subject project in which you indicate that you have no comments on the EA and foresee no impact on your existing or proposed programs. We appreciate your participation in the EA review process.

Sincerely,

Colette Sakoda  
Senior Project Manager
February 26, 2014

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

Dear Mr. Seki:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated December 31, 2013 regarding the subject project in which you indicate that you foresee no impact on your projects or existing facilities and have no comments on the EA at this time. We appreciate your participation in the EA review process.

Sincerely,

Colette Sakoda
Senior Project Manager
February 26, 2014

Mr. Louis M. Kealoha, Chief of Police  
Police Department  
City and County of Honolulu  
801 South Beretania Street  
Honolulu, Hawaii 96813

Dear Mr. Kealoha:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 3, 2014 regarding the subject project in which you indicate that the Honolulu Police Department has no comments regarding the project at this time. We appreciate your participation in the EA review process.

Sincerely,

Colette Sakoda  
Senior Project Manager
February 26, 2014

Mr. 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

Dear Mr. Mayne:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 8, 2014 regarding the subject project in which you indicate that the State Civil Defense (SCD) recommends that one Federal Signal Corp. Informer Unit be installed in a primary building to provide early warning in the event of an impending natural hazard. Installation of the unit has been considered; however, since HIMB is in contact with the weather service via radio or cell phone at all times, the unit has been deemed unnecessary at this time. We appreciate your participation in the EA review process.

Sincerely,

Colette Sakoda  
Senior Project Manager
February 26, 2014

Mr. Marvin Kaleo Manuel, Acting Planning Program Manager  
State of Hawaii  
Department of Hawaiian Home Lands  
P.O. Box 1879  
Honolulu, Hawaii 96805  

Dear Mr. Manuel:  

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu  

We have received your letter dated January 9, 2014 regarding the subject project in which you indicate that the Department of Hawaiian Home Lands has no comments regarding the project at this time. We appreciate your participation in the EA review process.  

Sincerely,  

Colette Sakoda  
Senior Project Manager
Mr. Scott Nakasone, Assistant Division Administrator  
State of Hawaii  
Department of Human Services  
Benefit, Employment & Support Services Division  
820 Mililani Street, Suite 606  
Honolulu, Hawaii 96813  

Dear Mr. Nakasone:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu  

We have received your letter dated January 10, 2014 regarding the subject project in which you indicate that the Department of Human Services (DHS) has no comment at this time as there are no child care facilities on Coconut Island or in the immediate vicinity to be impacted by the project. We appreciate your participation in the EA review process.

Sincerely,

Colette Sakoda  
Senior Project Manager
February 26, 2014

Mr. Keith K. Yamamoto, Manager, Engineering
Hawai‘i Gas
P.O. Box 3000
Honolulu, Hawaii 96802-3000

Dear Mr. Yamamoto:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 13, 2014 regarding the subject project in which you indicate that the project area is currently clear of utility gas facilities. We appreciate your participation in the EA review process.

Sincerely,

Colette Sakoda
Senior Project Manager
February 26, 2014

Mr. Chris T. Takashige, P.E., CCM Director
Department of Design and Construction
City and County of Honolulu
650 South King Street, 11th Floor
Honolulu, Hawaii 96813

Dear Mr. Takashige:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 13, 2014 regarding the subject project in which you indicate that the Department of Design and Construction does not have any comments to offer on the Draft EA. We appreciate your participation in the EA review process.

Sincerely,

Colette Sakoda
Senior Project Manager
Ms. Pamela A. Witty-Oakland, Director  
Department of Community Services  
City and County of Honolulu  
715 South King Street, Suite 311  
Honolulu, Hawaii 96813

Dear Ms. Witty-Oakland:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 8, 2014 regarding the subject project in which you indicate that the proposed improvements will have no adverse impacts on any Department of Community Services’ activities or projects at this time. We appreciate your participation in the EA review process.

Sincerely,

Colette Sakoda  
Senior Project Manager
February 26, 2014

Mr. Socrates D. Bratakos, Assistant Chief
Honolulu Fire Department
636 South Street
Honolulu, Hawaii 96813-5007

Dear Mr. Bratakos:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 13, 2014 regarding the subject project in which you indicate that the Honolulu Fire Department has determined that there will be no significant impact to fire department services. We appreciate your participation in the EA review process.

Sincerely,

Colette Sakoda
Senior Project Manager
February 26, 2014

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

Dear Mr. Robinson:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 14, 2014 regarding the subject project in which you indicate that the Department of Parks and Recreation has no comment, and as the proposed project will have no impact on any program or facility of the Department, we may remove you as a consulted party during this EA process. We appreciate your participation in the EA review process.

Sincerely,

Colette Sakoda
Senior Project Manager
February 26, 2014

Mr. Glenn M. Okimoto, Ph.D.
Director of Transportation
State of Hawaii
Department of Transportation
869 Punchbowl Street
Honolulu, Hawaii 96813-5097

Dear Mr. Okimoto:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 10, 2014 in which you indicate that the subject project is not expected to significantly impact State highway facilities and that the HIMB is required to obtain a permit from DOT Highways Division for the transport of oversized and/or overweight materials and equipment on State highway facilities. Necessary permits will be obtained prior to the start of construction activities if the transport of oversized and/or overweight materials and equipment on State highway facilities is required for the proposed project. We appreciate your participation in the EA review process.

Sincerely,

Colette Sakoda
Senior Project Manager
Mr. Stephen S. Anthony, Center Director  
United States Department of the Interior  
U.S. Geological Survey  
Pacific Islands Water Science Center  
677 Ala Moana Blvd., Suite 415  
Honolulu, Hawaii 96813  

Dear Mr. Anthony:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

Thank you for your participation in the Environmental Assessment review process. We have received your letter dated January 17, 2014 and acknowledge your comment that due to prior commitments and lack of available staff time, the U.S. Geological Survey is unable to review this document. We appreciate your response and look forward to working with you in the future.

Sincerely,

Colette Sakoda  
Senior Project Manager
Ms. Alecia Van Atta,
Assistant Regional Administrator
for Protected Resources
National Oceanic and Atmospheric Administration
National Marine Fisheries Service
Pacific Islands Regional Office
1601 Kapiolani Blvd., Suite 110
Honolulu, Hawaii 96814-4700

Dear Ms. Atta:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 21, 2014 regarding the subject project. Thank you for reviewing the subject Draft Environmental Assessment and providing us with your comments. The following are responses to your comments.

A U.S. Army Corps of Engineers (USACE) Section 10 permit has been prepared and submitted for the subject project. The permit application includes the biological resource assessment conducted within the project area and discussions of mitigation measures to avoid or minimize potential impacts to the Endangered Species Act (ESA) listed species.

No protected species were identified within the project area during the biological resource assessment conducted for the subject project; however, recommendations were made to cease in-water work if the threatened green sea turtle (Chelonia mydas) is seen within 50 yards of the in-water construction area until the green sea turtle voluntarily leaves the area. Same precautions will be taken for the endangered Hawaiian monk seal (Monachus schauinslandi).

In order to avoid siltation which may impact the green sea turtles’ foraging on algae within Kāne‘ohe Bay, any runoff from earth disturbing activities during on-land work will be contained using silt fences. In addition, all on-site project personnel will be apprised of the potential presence of listed species and the preventive measures to be taken to avoid or minimize impacts to them during construction activities. Although not anticipated, any incidental take of marine mammals will be reported immediately to NOAA as recommended.

The recommended Best Management Practices (BMPs) for General In- and Near-Water Work Including Boat and Diver Operations (April 2013) will be implemented as applicable during construction activities to further reduce potential impacts to protected marine species. We greatly appreciate your participation in the Environmental Assessment review process.

Sincerely,

Colette Sakoda
Senior Project Manager
Mr. Stephen S. Anthony, Center Director
U.S. Geological Survey
Pacific Islands Water Science Center
677 Ala Moana Blvd., Suite 415
Honolulu, Hawaii 96813

Dear Mr. Anthony:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

Thank you for your participation in the Environmental Assessment review process. We have received your letter dated January 17, 2014 and acknowledge your comment that due to prior commitments and lack of available staff time, the U.S. Geological Survey is unable to review this document. We appreciate your response and look forward to working with you in the future.

Sincerely,

Colette Sakoda
Senior Project Manager
February 26, 2014

Mr. Alec Wong, P.E., Chief
State of Hawaii
Department of Health
Clean Water Branch
P.O. Box 3378
Honolulu, Hawaii 96801-3378

Dear Mr. Wong:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 20, 2014 regarding the subject project. We appreciate your comments and provide the following responses:

1. No significant impacts to State waters are anticipated under the proposed project. Construction activities will be designed and conducted so that the existing uses of State waters within proximity of the project area are maintained and that water quality criteria are met.

2. A National Pollutant Discharge Elimination System (NPDES) permit is not required for the subject project since the area of disturbance will be less than one (1) acre for the proposed work. A NPDES permit is required for the hydro-testing of the newly installed water line and will be acquired by the contractor.

3. The proposed project involves work in/over Kāne‘ohe Bay; therefore, a Section 10 permit has been submitted to the US Army Corps of Engineers (USACE) for approval. A Section 401 Water Quality Certification (WQC) will be obtained if it is determined that the proposed rehabilitation of the Lighthouse Pier will result in generation of discharges to State waters.

4. It has been noted that all discharges related to the project construction or operation activities, whether or not NPDES permit coverage and/or Section 401 WQC are required, must comply with the State’s Water Quality Standards.

Thank you for your participation in the Environmental Assessment review process.

Sincerely,

Colette Sakoda
Senior Project Manager
Ms. Jesse K. Souki, Director  
State of Hawaii  
Office of Planning  
P.O. Box 2359  
Honolulu, Hawaii 96804  

Dear Ms. Souki:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 21, 2014 regarding the subject project. We appreciate your comments and provide the following responses:

1. The Draft EA will be revised to include a discussion of all areas of the Coastal Zone Management (CZM) objectives and policies in Hawaii Revised Statues §205A-2.

2. CZM federal consistency review is not required because the subject project is being processed as a US Army Corps of Engineers (USACE) Section 10 Letter of Permission (LOP).

3. Both temporary and permanent erosion control measures will be implemented during ground disturbing and trenching activities to prevent runoff from reaching Kāne‘ohe Bay. With the implementation of these control measures, impacts to coastal waters are anticipated to be minimal. Management measures provided in the Hawaii Watershed Guidance will be reviewed to include applicable measures that can be implemented to minimize coastal nonpoint pollution during project construction activities.

4. Discussion of the project’s potential impacts to water resources from stormwater and inundation concerns will be included in the Final EA. The subject project is not anticipated to permanently alter the geological or hydrological structure of the project area; therefore will not alter the existing conditions during storm or flooding events. Mitigation measures to minimize short-term impacts from erosion/sedimentation during the construction period will be considered during the design phase of the project.

Thank you for your participation in the Environmental Assessment review process.

Sincerely,

Colette Sakoda  
Senior Project Manager
Mr. Les Loo  
Network Engineer – Outside Plant Engineering  
Network Engineering & Planning  
Hawaiian Telcom  
P.O. Box 2200  
Honolulu, Hawaii 96841

Dear Mr. Loo:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 21, 2014 regarding the subject project. Your Company’s name will be corrected from Hawaiian Telecom to Hawaiian Telcom, and we will continue to include you as a consultation party during the design phase of the project. We appreciate your participation in the EA review process.

Sincerely,

Colette Sakoda  
Senior Project Manager
Mr. Rouen Liu  
Permits Engineer  
Engineering Department  
Hawaiian Electric Company, Inc.  
P.O. Box 2750  
Honolulu, Hawaii 96840

Dear Mr. Liu:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We appreciate your comments provided in the email correspondence dated January 21, 2014 and provide the following responses:

1. Continued access to existing easements and facilities within the project area will be provided to HECO for maintenance of your facilities.

2. The project design will be revised so that the electrical line is installed via a separate bore hole from the water line bore hole.

We will continue to keep you informed of the subject project during the design phase. Thank you for your participation in the EA review process.

Sincerely,

Colette Sakoda  
Senior Project Manager
February 26, 2014

Mr. Daniel S. Quinn, State Parks Administrator  
State of Hawaii  
Department of Land and Natural Resources  
Division of State Parks  
P.O. Box 621  
Honolulu, Hawaii 96809

Dear Mr. Quinn:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated December 30, 2013 regarding the subject project. We acknowledge that the Department of Land and Natural Resources, Division of State Parks has no comments at this time. Thank you for your participation in the Environmental Assessment review process.

Sincerely,

Colette Sakoda  
Senior Project Manager
February 26, 2014

Mr. Samuel J. Lemmo, Administrator  
State of Hawaii  
Department of Land and Natural Resources  
Office of Conservation and Coastal Lands  
P.O. Box 621  
Honolulu, Hawaii 96809

Dear Mr. Lemmo:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated December 26, 2013 regarding the subject project and acknowledge your determination that the proposed repairs/replacement do not require filing of a Conservation District Use Application (CDUA) permit pursuant to the Hawaii Administrative Rules (HAR), § 13-5-22 P-9 STRUCTURES, EXISTING, (A-I) and HAR, § 13-5-7 Nonconforming uses and structures since the proposed improvements are maintenance repairs and/or replacement of existing nonconforming structures to an extent of less than 50% of its replacement costs. We appreciate your input and participation in the Environmental Assessment review process.

Sincerely,

Colette Sakoda  
Senior Project Manager
Mr. Edward K. Underwood, Administrator  
State of Hawaii  
Department of Land and Natural Resources  
Division of Boating and Ocean Recreation  
P.O. Box 621  
Honolulu, Hawaii 96809

Dear Mr. Underwood:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated December 27, 2013 regarding the subject project. We acknowledge that the Department of Land and Natural Resources, Division of Boating and Ocean Recreation has no comments at this time. Thank you for your participation in the Environmental Assessment review process.

Sincerely,

Colette Sakoda  
Senior Project Manager
Mr. Carty S. Chang, Chief Engineer  
State of Hawaii  
Department of Land and Natural Resources  
Engineering Division  
P.O. Box 621  
Honolulu, Hawaii 96809  

Dear Mr. Chang:  

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kā‘eōhe, O‘ahu  

We have received your letter dated January 14, 2014 regarding the subject project. We acknowledge your comment that the access drive and parking lot (located along the Kā‘eōhe Bay coast area of the project site), according to the Flood Insurance Rate Map (FIRM), is located in Zone X, and that the National Flood Insurance Program (NFIP) does not regulate developments within Zone X. We also acknowledge your comment that the NFIP does not designate a flood zone for the Coconut Island portion of the project site. Thank you for your participation in the Environmental Assessment review process.  

Sincerely,  

Colette Sakoda  
Senior Project Manager
Mr. Barry Cheung, District Land Agent  
State of Hawaii  
Department of Land and Natural Resources  
Land Division – Oahu District  
P.O. Box 621  
Honolulu, Hawaii 96809  

Dear Mr. Cheung:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 21, 2014 regarding the subject project. This is to confirm that all proposed work on Coconut Island will be conducted within the boundary of General Lease No. 5325 and Governor’s Executive Order 3794. The locations between Coconut Island and the Lilipuna Road property where the new utility lines will be installed via Horizontal Directional Drilling (HDD) will be submitted when the final engineering drawings become available. Thank you for your participation in the Environmental Assessment review process.

Sincerely,

Colette Sakoda  
Senior Project Manager
Mr. Michael D. Formby, Director  
City and County of Honolulu  
Department of Transportation Services  
650 South King Street, 3RD Floor  
Honolulu, Hawaii 96813  

Dear Mr. Formby:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 22, 2014 regarding the subject project in which you indicate that you have no comments to offer at this time. We appreciate your participation in the Environmental Assessment review process.

Sincerely,

Colette Sakoda  
Senior Project Manager
February 26, 2014

Mr. Ross S. Sasamura, P.E.
Director and Chief Engineer
City and County of Honolulu
Department of Facility Maintenance
1000 Ulu‘ohia Street, Suite 215
Kapolei, Hawaii 96707

Dear Mr. Sasamura:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 22, 2014 regarding the subject project. We appreciate your comments and provide the following responses:

1. The construction design to connect the newly installed sewer force main to the existing sewer system has been revised. Construction work will no longer occur along Lilipuna Road.

2. Upon completion of the project, any deficiencies/damages within Lilipuna Road’s right-of-way caused during construction of the subject project will be corrected and accepted by the City.

Thank you for your participation in the Environmental Assessment review process.

Sincerely,

Colette Sakoda
Senior Project Manager
Mr. Loyal Mehrhoff  
Field Supervisor  
U.S. Fish and Wildlife Service  
Pacific Islands Fish and Wildlife Office  
300 Ala Moana Boulevard, Room 3-122  
Honolulu, Hawaii 96850

Dear Mr. Mehrhoff:  

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 23, 2014 regarding the subject project. We appreciate your comments and provide the following responses:

General Comments

We agree and acknowledge that aquatic/marine fish and wildlife resources occur immediately within and adjacent to the proposed project areas. Best management practices (BMPs) to avoid or minimize impacts to the biological resources within the project area will be implemented during construction activities for the proposed work. Specifically, in-water work at the Lighthouse Pier will be timed at high tide events to allow for enough water to be present above the coral species in the area to avoid any potential impacts. Although not anticipated since no in-water work is involved, potential impacts to the water quality and aquatic resources in Kāne‘ohe Bay may occur during release of drilling mud during the HDD installation. Precautionary measures will be taken to avoid such instances; however, in case of a release, measures such as the use of silt curtains to contain the suspended mud in the water column will be taken to minimize impacts to the surrounding environment. Project-related construction activities are scheduled to commence late 2014 and continue for three to four months; therefore, construction should not occur during the indicated spawning period for most coral species (April through August).

Evaluation of the marine community present at the interior piles and underneath the Lighthouse Pier was not conducted due to safety concerns. As noted in the Biological Assessment prepared by SWCA, large pieces of concrete slabs that had fallen underneath the pier were observed during their survey. Because of the unstable condition of the pier, no personnel are allowed on or under the pier to avoid collapse and potential bodily injury. This is strictly enforced on the island without exceptions. The reason for not including areas underneath the pier in the biological survey will be made clear in the EA so that readers may understand the limitation of the survey. Although not thoroughly investigated, it is likely that the presence of coral species is sparse under the pier due to the limited light availability, and potential impacts to the marine species in this area should not be significant. As recommended, the applicant will continue to keep resource agencies apprised of construction activities to ensure that methods to avoid or minimize impacts to marine resources are explored and agreed upon.

The proposed project activities are unlikely to disturb the mentioned invasive species since in-water work is limited to the Lighthouse Pier rehabilitation where work will be designed to avoid disturbance to the marine
species in and around the area. The recommended BMPs (i.e., silt containment devices, cleaning of equipment) will be implemented wherever disturbance of sediment or fragmentation of invasive species may occur and when any equipment is to be used in the water to avoid potential spreading of invasive species. In addition, the applicable BMPs in the Standard Fish and Wildlife Best Management Practices will be incorporated during construction activities to avoid or minimize degradation of water quality conditions. Translocation of coral species is currently not planned for the Lighthouse Pier work.

Night time construction work is not anticipated for the proposed project; however, the recommended BMPs will be incorporated if night lights are used during construction work to avoid impacts to the seabird species found in the vicinity of the project area.

**Cumulative Impacts**

We acknowledge your comment that the spread of non-native invasive species is a major threat to threatened and endangered species and other trust resources because of their potential to become permanently established and alter the existing terrestrial or aquatic ecosystems. Although the planned project activities are not anticipated to introduce any non-native invasive species to the project area, any future assessment will include an evaluation of the potential for movement or dispersal of such species and preventive measures to reduce impacts from the introduced and invasive species.

**Fish and Wildlife Coordination Act**

As the planning and design phase of the subject project progresses, the applicant will ensure that the Fish and Wildlife Service and the National Marine Fisheries Service (NMFS) are consulted during any significant changes to the planned activities including changes in the HDD route locations or staging area locations.

**Endangered Species**

The listed mitigation measures to avoid or minimize impacts to listed Hawaiian waterbirds will be added into the EA. Per NMFS’s review comment on the draft EA, mitigation measures to avoid impacts to the Hawaiian monk seal (*Monachus schauinslandi*) has been added in the EA. Noise impacts are anticipated to be limited to elevated noise during heavy equipment or machinery use during construction activities. Section 3.2.10.2 of the EA discusses the noise range anticipated during construction activities. This section will be revised to include a discussion of potential impacts to the marine mammal enclosure pen located across Lighthouse Pier.

Thank you for your participation in the Environmental Assessment review process. Please contact me at 808-833-2225 ext. 1004 should you have any further questions or concerns.

Sincerely,

Colette Sakoda  
Senior Project Manager
Dear Mr. Atta:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 24, 2014 regarding the subject project. We appreciate your comments and provide the following responses:

Section 2.1 Scope and Authority: Language specifying that the document fulfills the requirements of Section 343-5(a)(1), (2) and (3), of Hawaii Revised Statutes (HRS) for the use of State lands and funds, activities within the Conservation District and shoreline area as defined by Section 205A-41, HRS, and in compliance with Section 11-200-5(a), (b), and (c), Hawaii Administrative Rules, as an “agency action” will be added in Section 2.1.

Section 2.3.2 Proposed Action – The Preferred Alternative: The conditions and details of existing utility lines, a detailed description of the horizontal directional drilling (HDD) method, as well as the proposed construction activities at the “receiving sites” on either end of the proposed HDD crossings will be added.

The Site Plan will be revised to show the location of the pump station on the east side of the island. It has been determined that the additional 880 linear feet of trenching will not be necessary. This revision will be reflected in the Final EA. The Site Plan will be revised to show the existing sewer line and pertinent buildings within the project area.

Section 2.3.2.2 Re-Routing Existing Gravity Sewer Lines: The existing sewer line will be added to the Site Plan to clarify why the proposed work is considered “re-routing” versus installing a new sewer line.

Section 2.3.2.3 Sewage Pump Replacement and Wetwell Repairs: The Site Plan will be revised to include the existing sewer line that connects to the existing pump station on the east side of the island. Additionally, discussion of what the existing pump station is connected to as well as its function and need to maintain it will be added in Section 2.3.2.3.

Section 3.2.1.1 Existing Conditions: Section 3.2.1.1 will be revised to include a brief history of Coconut Island and a more thorough description of the Lilipuna Road property. The Site Plan will be revised to include more details of the Lilipuna Road property.

Section 3.2.2.2 Potential Soils Impact and Mitigation: Section 3.2.2.2 will be revised to include the volume of excavation and embankment which is anticipated to complete the proposed project. The extent of the alteration to existing land forms will also be added in order to properly explain how such alterations can be
managed to minimize potential impacts, including flooding and runoff, which could impact surrounding near-shore water quality and therefore, adversely impact research activities conducted at this facility.

Section 4.3.3.1 Special Management Area Use Permit: Section 4.3.3.1 will be revised to include discussions of project consistency with the objectives and policies of the Special Management Area as specified in HRS 205A-2.

Section 4.3.3.2 Shoreline Setback Variance (SSV): Section 4.3.3.2 will be revised to include a description of the activities that will occur within the shoreline setback area and to include a discussion of the criteria for granting an SSV. A profile exhibit showing the HDD process will be included in the Final EA.

Thank you for your participation in the Environmental Assessment review process.

Sincerely,

Colette Sakoda
Senior Project Manager
Mr. Peter J.S. Hirai  
Deputy Director  
City and County of Honolulu  
Department of Emergency Management  
650 South King Street  
Honolulu, Hawaii 96813-3078

Dear Mr. Hirai:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your email correspondence dated January 27, 2014 in which you indicate that the City Department of Emergency Management has no comments on the subject Draft EA. We appreciate your participation in the Environmental Assessment review process.

Sincerely,

Colette Sakoda  
Senior Project Manager
Ms. Lori M.K. Kahikina, P.E.
Director
City and County of Honolulu
Department of Environmental Services
1000 Uluohia Street, Suite 308
Kapolei, Hawaii 96707

Dear Ms. Kahikina:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 30, 2014 regarding the subject project. We appreciate your comments and provide the following responses:

1. A sewer connection permit for the project has been obtained from the Department of Planning and Permitting (DPP).

2. We have received your comment letter dated September 13, 2013 in response to the pre-assessment consultation letter sent to you in August 2013. We provide the following responses to your comments in regards to the wastewater pump station and force main connection to the City and County of Honolulu (CCH) sewer system:

   a. The proposed peak flow from one of the replaced pumps will be limited to a flow accepted by the Department of Environmental Services (ENV).

   b. In order to prevent overflows, the pump controls for the replacement pumps will be configured so that two pumps can never be turned on at the same time.

   c. A flow test report signed by a Professional Engineer will be submitted upon completion of the pump replacement.

Thank you for your participation in the Environmental Assessment review process.

Sincerely,

Colette Sakoda
Senior Project Manager
Dear Mr. Lau:

Subject: Draft Environmental Assessment (EA) for the proposed infrastructure rehabilitation/replacement at the Hawai‘i Institute of Marine Biology (HIMB), Coconut Island, Kāne‘ohe, O‘ahu

We have received your letter dated January 31, 2014 regarding the subject project in which you indicate that your comments included in your previous September 18, 2013 letter is still applicable. We acknowledge that the existing water system is adequate to accommodate the proposed project based upon current data. We do acknowledge; however, that the Board of Water Supply reserves the right to change any position or information on this and that the availability of water will be confirmed at the time when the building permit application is submitted for approval.

All water line work will occur downstream of water meter No. 00159004 located on the Lilipuna Road property. No additional fixtures will be added to the existing system; therefore, the Water System Facilities Charges is not applicable to this project.

Although no changes to the existing conditions are anticipated, on-site fire protection requirements will be coordinated with the Fire Prevention Bureau of the Honolulu Fire Department if it becomes necessary.

Thank you for your participation in the Environmental Assessment review process.

Sincerely,

Colette Sakoda
Senior Project Manager
APPENDIX D
BIOLOGICAL RESOURCE ASSESSMENT
BIOLOGICAL RESOURCE ASSESSMENT FOR COCONUT ISLAND INFRASTRUCTURE REHABILITATION AND REPLACEMENT PROJECT

Prepared for
Community Planning and Engineering, Inc.

Prepared by
SWCA Environmental Consultants

October 2013
BIOLOGICAL RESOURCE ASSESSMENT FOR COCONUT ISLAND INFRASTRUCTURE REHABILITATION AND REPLACEMENT PROJECT

Prepared for

Community Planning and Engineering, Inc.
1286 Queen Emma Street
Honolulu, Hawai‘i 96813
(808) 531-4252

Prepared by

SWCA Environmental Consultants
Bishop Square ASB Tower
1001 Bishop Street, Suite 2800
Honolulu, Hawai‘i 96813
(808) 548-7922
www.swca.com

SWCA Project No. 25958

October 2013
# CONTENTS

1. Introduction ................................................................................................................................. 1

2. Description of Project Site ........................................................................................................... 1
   2.1. Location and Vicinity................................................................................................................ 1

3. Methods ........................................................................................................................................ 3
   3.1. Flora Surveys .......................................................................................................................... 3
   3.2. Fauna Surveys ......................................................................................................................... 3
   3.3. Marine Surveys ....................................................................................................................... 3

4. Results .......................................................................................................................................... 3
   4.1. Flora ....................................................................................................................................... 4
   4.2. Fauna ..................................................................................................................................... 6
       4.2.1. Avifauna ........................................................................................................................ 6
       4.2.2. Hawaiian Hoary Bat ..................................................................................................... 6
       4.2.3. Other Mammals ............................................................................................................. 6
       4.2.4. Reptiles and Amphibians ............................................................................................... 7
       4.2.5. Invertebrates .................................................................................................................. 7
   4.3. Marine Community .................................................................................................................. 7
       4.3.1. Location 1, Lilipuna Pier ............................................................................................... 7
       4.3.2. Location 3, Cable Landing Site B ................................................................................... 7
       4.3.3. Location 4, Pool House and Vicinity ............................................................................. 9
       4.3.4. Location 7, Lighthouse Pier .......................................................................................... 11

5. Discussion and Workplan Recommendations .............................................................................. 13
   5.1. Flora ..................................................................................................................................... 13
   5.2. Terrestrial Fauna .................................................................................................................... 13
   5.3. Marine Organisms .................................................................................................................. 13
       5.3.1. Protection of Corals ....................................................................................................... 13
       5.3.2. Prevention of Fragmentation of Invasive Species ......................................................... 14
       5.3.3. Avoidance and Minimization Measures to Prevent Impact to Marine Mammals and
              Green Turtles ..................................................................................................................... 14
       5.3.4. Measures to Maintain Water Quality during Construction ......................................... 14
   5.4. Waters of the United States .................................................................................................... 15

6. Literature Cited ............................................................................................................................. 16
FIGURES

Figure 1. Project site with locations of proposed work. Note: Location 6 is between Location 2 and 3. ................................................................. 2
Figure 2. Vegetated slope above the parking lot near Lilipuna Pier (Location 1). .................. 5
Figure 3. Lines of ironwood trees and coconut trees in the vicinity of the pool house (Location 4). ........................................................................ 5
Figure 4. Small ironwood and milo trees, with manicured zoysia lawn at the Lighthouse Pier site (Location 7). ...................................................... 6
Figure 5. Yellow areas depict the approximate distribution of the invasive algae, gorilla ogo, within the areas surveyed (orange line). .................................................. 8
Figure 6. Benthic organisms found on gorilla ogo mats in the North Lagoon (Location 4). .......... 10
Figure 7. The west opening of North Lagoon (Location 4) with bait fish, likely nehu, in the water column. ................................................................. 10
Figure 8. Fallen slabs of concrete under the Lighthouse Pier (Location 7) with finger coral and rice coral at the seaward edge of the pier. ......................................................... 12
Figure 9. Oysters, coral, and sponges on pilings at the Lighthouse Pier (Location 7) ............ 12

APPENDICES

Appendix A. Checklist of Plants Observed at Coconut Island on September 20, 2013

Appendix B. Checklist of Birds Observed at Coconut Island on September 20, 2013

Appendix C. Checklist of Marine Organisms Observed at Coconut Island on September 20, 2013
This page intentionally blank
1. INTRODUCTION

The Hawai‘i Institute of Marine Biology (HIMB) is a 28-acre island in the southern portion of Kāne‘ohe Bay, windward O‘ahu. An additional 6 acres are enclosed in adjacent lagoons and used for research. A marine mammal pen is present off the southwestern portion of the island, close to the Lighthouse Pier. A 1.4-acre property on Lilipuna Road on the main island is composed of a parking area and Lilipuna Pier, which allows for a boat shuttle to ferry staff and students to HIMB (Figure 1).

Community Planning and Engineering, Inc. is preparing a State of Hawai‘i environmental assessment (EA) in support of the rehabilitation of the aging existing infrastructure systems at Coconut Island. The proposed improvements consist of

- infrastructure replacement from Lilipuna Pier to Coconut Island,
- a reroute of the existing gravity sewer,
- sewer pump replacement and wetwell repairs, and
- Lighthouse Pier replacement.

SWCA Environmental Consultants (SWCA) was tasked by Community Planning and Engineering, Inc. to conduct terrestrial flora and fauna surveys as well as marine surveys to document current coastal and nearshore marine natural resources that would be affected by the proposed work. SWCA will also provide a work plan for the protection of natural resources during construction.

2. DESCRIPTION OF PROJECT SITE

2.1. Location and Vicinity

The project site consists of seven general locations (see Figure 1 for approximate locations):

- Location 1, Lilipuna Pier: This area is located on the main island of O‘ahu and is the location of a horizontal directional drilling (HDD) site to run new utility lines (water, sewer, cable, and electricity) under the seafloor to HIMB.
- Location 2, cable landing site A (4.6 × 7.6 meters [m] [15 × 25 feet]): This is the landing site for one set of utility lines.
- Location 3, cable landing site B: This is the landing site for the second set of utility lines.
- Location 4, pool house and vicinity: The sewer lines are being relocated in the area and will likely require ground disturbance. A few sections of overhanging pipe around North Lagoon will also be removed.
- Location 5, sewer pump site (6.0 × 6.0 m [20 × 20 feet]): This current sewer pump will be replaced and the wetwell repaired.
- Location 6, road (4.6 m [15 feet] wide): This road between Location 2 and 3 may experience increased personnel/vehicular traffic and may partially be used for the staging of equipment during the construction period, thus was included in this survey.
- Location 7, Lighthouse Pier: The Lighthouse Pier needs to be replaced because the concrete piles have eroded and the concrete pier is no longer safe to use. The current pilings will be rehabilitated, and a new concrete slab will be placed on the rehabilitated pilings.
Figure 1. Project site with general locations of proposed work. Note: Location 6 is the road between Locations 2 and 3.
3. METHODS

SWCA conducted a review of available scientific and technical literature regarding natural resources in and near the site. This literature review encompassed a thorough search of refereed scientific journals, technical journals and reports, environmental assessments, environmental impact statements, relevant government documents, and unpublished data that provide insight into the natural history and ecology of the area. SWCA also reviewed available geospatial data, aerial photographs, and topographic maps of site.

The terrestrial and marine surveys for the various sites were conducted by three SWCA biologists on September 20, 2013.

3.1. Flora Surveys

One SWCA botanist conducted a pedestrian survey of the seven locations at the project site. All vascular plant species observed within the project site were documented and notes were made on relative abundances (e.g., “abundant,” “common,” “uncommon,” or “rare”), communities, and disturbances. Areas more likely to support native plants were more intensively examined. Ornamental species growing in pots, planters, and containers were not included in the survey.

Plants recorded during the survey are indicative of the season (“rainy” vs. “dry”) and the environmental conditions at the time of the survey. It is likely that additional surveys conducted at a different time of the year would result in minor variations in the species and abundances of plants observed.

3.2. Fauna Surveys

One SWCA biologist conducted a pedestrian survey of the seven locations at the project site. All birds, mammals, reptiles, amphibians, and invertebrate species seen or heard were noted.

3.3. Marine Surveys

Marine surveys were conducted by two SWCA marine biologists at Locations 1, 3, 4 and 7 by snorkeling or through above-surface observations. Surveys were conducted where in-water work was going to occur, such as at Location 7, the Lighthouse Pier, or in areas where the anticipated earthwork was close enough to the water that runoff could affect water quality and the marine organisms in the water (Locations 1, 3 and 4). Algal species, macroinvertebrates, corals, and fish were recorded for each location. The distribution of invasive species, if present, was also mapped at each location. Invasive species were identified based on the list provided in the State of Hawai‘i Aquatic Invasive Species Management Plan (2003). Based on our surveys, invasive species of concern were limited to two species, the gorilla ogo (Gracilaria salicornia) and the orange sponge (Mycale armata). The locations of these two species were mapped within the areas surveyed.

4. RESULTS

No threatened or endangered plant or animal or marine species nor candidate species (U.S. Fish and Wildlife Service [USFWS] 2013; National Oceanic and Atmospheric Administration [NOAA] 2013a) were found during the flora, fauna, and marine survey of the project site. The project site does not encompass any designated or proposed critical habitat for threatened or endangered species.
4.1. Flora

No state or federally listed threatened, endangered, or candidate plant species, or rare native Hawaiian plant species were observed at the project site. In all, 90 plant species were recorded at the site during the survey. Of these, only three species—naupaka (*Scaevola taccada*), hau (*Hibiscus tiliaceus*), milo (*Thespesia populnea*)—are native to the Hawaiian Islands. These indigenous species are common throughout the Hawaiian Islands (Wagner et al. 1999). Appendix A provides a list of all plant species observed by SWCA biologists in the project site during the survey.

Location 1, Lilipuna Pier: On the O‘ahu side of the project site near Lilipuna Pier, the vegetation is dominated by a mixture of various non-native grasses and herbaceous species (Figure 2). The slopes above and below the parking area are vegetated with coat buttons (*Tridax procumbens*), wedelia (*Sphagneticola trilobata*), Panama paspalum (*Paspalum fimbriatum*), wiregrass (*Eleusine indica*), Guinea grass (*Urochloa maxima*), creeping indigo (*Indigofera spicata*), and morning glory (*Ipomoea obscura*). Large milo trees occur immediately adjacent to the shoreline.

Location 2, cable landing site A: The majority of this site is barren, likely because vehicles often traverse the area. The vegetation on the edges of the site is composed of a single large milo tree and a thick mat of wedelia. Small patches of St. Augustine grass (*Stenotaphrum secundatum*) also occur at the site.

Location 3, cable landing site B: The vegetation at cable landing site B is dominated by patches of Henry's crabgrass (*Digitaria ciliaris*) and radiate fingergrass (*Chloris radiata*). Pigweed (*Portulaca oleracea*) and hairy spurge (*Euphorbia hirta*) are also present. Along the shoreline at this site, small milo trees and American mangrove (*Rhizophora mangle*) can be found.

Location 4, pool house and vicinity: The vegetation at this site is composed of ornamental plants and manicured grasses, as well as weedy non-native grasses and herbaceous plants that are common in disturbed coastal areas. Large date palms (*Phoenix* sp.) and coconut trees (*Cocos nucifera*) are widely scattered throughout the area. Red powderpuff (*Calliandra haematocephala*) shrubs and creeping fig (*Ficus pumila*) are common around the pool house. A line of small manicured ironwood trees (*Casuarina equisetifolia*) also occurs in this area (Figure 3). Grass species that are particularly abundant at the pool house and in the vicinity include pitted beardgrass (*Bothriochloa pertusa*), Henry's crabgrass (*Digitaria ciliaris*), Bermuda grass (*Cynodon dactylon*), and Zoysia grass (*Zoysia* sp.). American mangrove and pickleweed (*Batis maritima*) are common along the shoreline in this area.

Location 5, sewer pump site: The groundcover at this site supports a mix of weedy grasses and shrubs including West Indian dropseed (*Sporobolus indicus*), tick trefoil (*Desmodium triflorum*), nodeweed (*Antigonon leptopus*), and wood sorrel (*Oxalis corniculata*). The overarching canopy on the makai side is composed of milo, American mangrove, and hau.

Location 6, road: The road between cable landing site A and cable landing site B is mostly barren with weedy plants occurring along the edges. Common species on the makai side of the road include milo, Mexican creeper (*Antigonon leptopus*), koa haole (*Leucaena leucocephala*) saplings, Philippine violet (*Barleria cristata*), sourgrass (*Digitaria insularis*), and Chinese violet (*Asystasia gangetica*). On the mauka side of the road, the vegetation is dominated by Natal redtop (*Melinis repens*) and wedelia.

Location 7, Lighthouse Pier: Vegetation at the Lighthouse Pier site is mostly a manicured lawn of zoysia grass with ornamental shrubs and trees. Small milo, ironwood, and buttonwood (*Conocarpus erectus*) trees are planted on the northern side of the lighthouse (Figure 4), while naupaka and spider lily (*Crinum asiaticum*) are planted on the southern portion. Scattered non-native weedy grasses such as West Indian...
dropseed, wiregrass, and swollen fingergrass (*Chloris barbata*) are present. American mangrove saplings occur along the shoreline.

![Vegetated slope above the parking lot near Lilipuna Pier (Location 1).](image1)

Figure 2. Vegetated slope above the parking lot near Lilipuna Pier (Location 1).

![Lines of ironwood trees and coconut trees in the vicinity of the pool house (Location 4).](image2)

Figure 3. Lines of ironwood trees and coconut trees in the vicinity of the pool house (Location 4).
4.2. Fauna

4.2.1. Avifauna

The bird species observed at the project site are species typically found in gardens and parklands. In all, 12 species were documented (Appendix B). Two species were migrant shorebirds: one wandering tattler (*Tringa incana*) was observed near the North Lagoon (Location 4) and several Pacific golden plover (*Pluvialis fulva*) were observed on the grassy lawns above the pool house at Location 4. Approximately 30 individuals of the native great frigate birds (*Fregata minor*) were seen soaring above the North Lagoon. Several individuals of Hawaiian duck–like ducks (*Anas* sp.), which are likely to be mallard–Hawaiian duck hybrids, were seen swimming in the waters in the vicinity of the Lighthouse Pier (Location 7). Although not observed, black noddies (*Anous minutus*) are known to forage in Kaneohe Bay, especially when bait fish such as nehu (*Engraulis japonicus*) are abundant (Ling Ong, SWCA biologist, personal observation). Black noddies could occasionally forage in the nearshore waters of HIMB and may forage near the Lighthouse Pier (Location 7).

4.2.2. Hawaiian Hoary Bat

Surveys for Hawaiian hoary bats were not conducted; however, Hawaiian hoary bats are strong fliers and have been documented as far as 100 m (330 feet) offshore (U.S. Department of Agriculture [USDA] 2009) and therefore could be potentially fly to the island and roost or forage there occasionally. Hawaiian hoary bats typically roost in dense canopy foliage or in subcanopy when canopy is sparse, with open access for launching into flight (Frank Bonaccorso, U.S. Geological Survey, pers. comm.). Tree species such as coconut and mango (*Mangifera indica*), which are present on the island but not necessarily at the survey locations, have been documented as roost trees for the Hawaiian hoary bat (USDA 2009).

4.2.3. Other Mammals

No mammals were observed during the pedestrian surveys. Mammals that could be expected include rats (*Rattus* spp.) and mice (*Mus musculus*).
4.2.4. **Reptiles and Amphibians**

No reptiles or amphibians were observed or heard during the survey. None of the terrestrial reptiles or amphibians in Hawai‘i are native to the islands, so these are not a species of interest.

4.2.5. **Invertebrates**

Butterflies documented at the site include the introduced monarch butterfly (*Danaus plexippus*) and the introduced honey bee (*Apis mellifera*).

4.3. **Marine Community**

Marine surveys were conducted between 11:00 am and 2:00 pm. Low tide occurred at around 10:30 am at +0.15 m (+0.5 feet) with a moderate high tide at 3:00 pm at +0.55 m (+1.8 feet).

4.3.1. **Location 1, Lilipuna Pier**

The nearshore area on either side of Lilipuna Pier was surveyed from the shoreline and from the top of Lilipuna Pier. The survey area was scanned from the shoreline to 10 m (33 feet) from the shoreline. The shoreline is composed of lava rock ranging from the size of boulders to small pebbles. Coral rubble is present in the intertidal area. Immediately seawards in the subtidal zone, clumps of the invasive algae gorilla ogo were discernible (Figure 5, image “a”).

4.3.2. **Location 3, Cable Landing Site B**

Two nearshore areas were surveyed, a small cove (“Shallow Bay”) to the north of the cable landing site and the floating dock area (“Floating Dock”) to the south (Figure 5, image “b”). These two areas are downslope of the landing site of the cables and could be affected by runoff during the construction period. Visibility was approximately 4.5–6.0 m (15–20 feet). Adjacent to the seawall at “Shallow Bay,” the bottom was completely covered with gorilla ogo (Figure 5, image “b”). Large cells of the green alga, sailor’s eyeballs (*Ventricaria ventricosa*) were common, and the conspicuous sea cucumber, (*Opheodesoma spectabilis*) was very common on the surface. On the concrete seawall grapsid crabs (Family Grapsidae) and littorinid snails (Family Littorinidae) moved over the surface. Beyond the gorilla ogo–covered area approximately 10 m (33 feet) from shore, the substratum consisted of sand with scattered rubble of dead coral heads. Benthic native species were present in this area with scattered live coral heads of rice coral (*Montipora capitata*), finger coral (*Porites compressa*), and lace coral (*Pocillopora damicornis*) attached to hard surfaces. Schools of juvenile parrotfishes swam through the area. Schools of bait fish, possibly nehu, were observed in the water column.
Figure 5. Yellow areas depict the approximate distribution of the invasive algae, gorilla ogo, within the areas surveyed (orange line).
Adjacent to “Floating Dock”, SWCA surveyed the concrete seawall and shallow substratum approximately 1 m (3 feet) from the surface. Boat traffic and the floating docks prevented safe entry into the water, so the survey consisted of inspection from the seawall and dock. Several coral species were attached to the seawall; most common were the rice coral with a few small colonies of finger coral and a few colonies of crust coral (Leptastrea purpurea). The swimming anemone (Boloceroides mcmurrichi) was also fairly common. The natural substratum below the seawall had relatively greater densities of rice coral and finger coral. Algae were not conspicuous, and no invasive algae or sponges were seen. Grapsid crabs, including the rock crab (Metapograpsus thukuhar) and the dotted periwinkle (Littoraria pintado) moved over the seawall. Fishes present in the area included damsel fishes such as kupipi (Abudefduf sordidus), juveniles of the Hawaii sergeant (Abudenduf abdominalis), and perhaps possibly the Indo-Pacific sergeant (Abudefdaf vaigensis) or hybrids of the two species. Surgeonfishes such as the manini (Acanthurus triostegus) and unidentified gobies were also present. The Hawaiian dascyllus (Dascyllus albisella) have been observed at this site, but were not seen during this survey. The complete species list of marine organisms seen in Location 3 during the survey can be found in Appendix C.

4.3.3. Location 4, Pool House and Vicinity

Location 4 consists of a large oval human-made lagoon (North Lagoon). There are two openings from North Lagoon to the Coconut Island reef, one to the west side and one to the east side. The existing sewage line runs around the perimeter of the lagoon and, where the openings occur, the sewage line crosses the gap suspended by concrete structures. These suspended sections are slated to be removed. The north side of the lagoon is dominated by dense American mangrove thickets, which are considered an invasive species (Allen 1998). The south side of the lagoon is rimmed by a concrete wall. Surveys were done along the edge of the lagoon out to roughly 3 m (10 feet). Due to the fine silt, visibility was poor at depths greater than approximately 3 m (10 feet)

Most of the lagoon floor along the edge of the lagoon is covered by the invasive gorilla ogo, particularly in the southern part of the lagoon. Small amounts of another introduced algae, Acanthophora spicifera, were also present. Embedded in the gorilla ogo algal mat were other alga such as very large cells of sailor’s eyeballs and several sponge species including the introduced lobate sponge (Suberites zeteki) and invertebrates such as the feather duster worm (Sabellastarte spectabilis), glass anemone (Aiptasia pulchella), and the solitary tunicate, the black sea squirt (Phallusia nigra). The conspicuous sea cucumber was very abundant on top of the algal mats (Figure 6). Only a single small head of rice coral and another small head of lace coral were noted in the location. The mangrove roots were also colonized by green algae (Caulerpa spp.) and a variety of sponges. The silty substratum of the lagoon floor was densely occupied by burrows. Burrows constructed by gobies and acorn worms were observed. Snapping shrimp (Family Alpheidae) could be heard throughout the entire survey. Other burrow-dwelling organisms such as crabs, polychaete worms, shrimps, stomatopods (mantis shrimps), sipunculans (peanut worms) are also likely present. A survey of the soft sediment infauna was beyond the scope of this project.

Conditions were somewhat different in the vicinity of the two openings to Coconut Island reef. The sediments were coarser, consisting of sand and gravel instead of silt due to greater water motion near the openings. Very small juvenile fishes, likely new recruits, swam in the open water and included damselfishes, the Hawaii sergeant, and perhaps possibly the Indo-Pacific sergeant or hybrids of the two species, and the surgeonfish, manini. Bait fish, probably nehu, were abundant in the water column (Figure 7). Overall, fish and coral diversity and abundance were low in North Lagoon. The complete species list of marine organisms seen in Location 4 during the survey can be found in Appendix C.
Figure 6. Benthic organisms found on gorilla ogo mats in the North Lagoon (Location 4).

Figure 7. The west opening of North Lagoon (Location 4) with bait fish, likely nehu, in the water column.
4.3.4. Location 7, Lighthouse Pier

For safety reasons, no surveys were done under the pier. Concrete slabs have detached from the pier and fallen (Figure 8). The survey involved snorkeling along the seaward edge of the pier and looking under the pier to the maximum extent possible. The pier is approximately 6 m (20 feet) wide and 24 m (78 feet) long. Fish, corals, and macroalgae up to 4 m (12 feet) away from the pier were also recorded. The water depth along the long edge of the pier was approximately 2.5 m (8 feet) and sloped down to 3.7–4.6 m (12–15 feet) as one moved away from the pier. The visibility in the water was about 3 m (10 feet) at the time of the survey. The tide was at approximately 0.3 m (1 foot) and rising.

Due to the limited visibility, it was not possible to see all the way to the back of the pier. However, there appeared to be little to no coral more than 2 m (6.5 feet) under the pier, possibly due to the limited light availability. Coral cover increased from about 2 m (6.5 feet) under the edge of the pier to 4 m (12 feet) beyond the pier. High coral cover (visually estimated to be more than 50% cover) was present from the edge of the pier out onto the slope (Figure 8). Most of the coral cover consisted of large colonies of rice coral, largely plate-like in form, intermixed with some branching forms. Away from the pier where there was greater light penetration, finger coral contributed a substantial part of the high coral cover. Small colonies of lace coral and crust coral occurred throughout the area. As far as was safe, SWCA specifically searched for colonies of blue rice coral (*Montipora flabellata/dilatata/turgescens*) and spreading or sandpaper rice coral (*Montipora patula/verrilli*), which have been proposed for listing by the National Oceanic and Atmospheric Administration (NOAA 2012). We did not observe either of these coral species at this site.

Orange sponge (*Mycale armata*), an invasive alien sponge, forms very large colonies near the bases of most of the pilings that had supported the pier. This sponge was also abundant beneath the pier in shaded areas. Zonation of biota on the pilings was evident. In the upper 10–20 centimeters (cm) (4–8 inches) were very large (greater than 10-cm [4-inch]) Japanese oysters (*Crassostrea gigas*). Below the Japanese oysters, smaller oysters (*Crassostrea* sp. and *Spondylus violacescens*) were observed in high densities. Rice corals and orange sponge dominated the lowest parts of the pilings (Figure 9). The feather duster worm and the green alga *Dictyosphaeria versluyii* were also common on the pilings.

Large plate-like colonies of rice coral were observed to at least 6 m (20 feet) off the pier. Most of the living corals seemed to extend farthest out from the midpoint of the pier.

Fish diversity was highest at the Lighthouse Pier compared to all other survey locations. In all, 20 species of fish were documented. Most fish were concentrated near the corals at the edge of the pier and farther out. Few fish were seen under the pier. Damselfishes (e.g., kupipi, the Hawaiian or Indo-Pacific sergeant), surgeonfishes (e.g., manini and sailfin tangs [*Zebrasoma veliferum*]), wrasses (e.g., Hawaiian hogfish (*Bodianus bilunulatus*)), and saddle wrasse (*Thalassoma duperrey*) as well as juvenile parrotfishes were common. Many of the species present were represented by both adults and juveniles. A list of all species seen during the survey can be found in Appendix C.

While not observed in this survey, the threatened green turtle (*Chelonia mydas*) has occasionally been seen in the waters around the Lighthouse Pier. In addition, the Marine Mammal Research Program currently houses three bottlenose dolphins (*Tursiops truncates*) and one false killer whale (*Pseudorca crassidens*). These animals are kept in pens approximately 70 m (220 feet) from the Lighthouse Pier. All marine mammals are protected under the Marine Mammal Protection Act (NOAA 2007).
Figure 8. Fallen slabs of concrete under the Lighthouse Pier (Location 7) with finger coral and rice coral at the seaward edge of the pier.

Figure 9. Oysters, coral, and sponges on pilings at the Lighthouse Pier (Location 7).
5. DISCUSSION AND WORKPLAN RECOMMENDATIONS

5.1. Flora

Overall, the vegetation in the project site is disturbed from previous and current land-use activities. The vegetation types and species identified are not considered unique. Over 96% of the plant species seen are not native, and the three native species observed are common throughout the Hawaiian Islands. No threatened or endangered plants (USFWS 2013) were found during the reconnaissance, or during previous surveys in the vicinity (Char & Associates 1994, 1995), and no designated plant critical habitat occurs in the area. Therefore, the proposed project is not expected to have a significant, adverse impact on botanical resources.

SWCA recommends that native Hawaiian plants be used for landscaping around the project site to the maximum extent possible. Potential native species that may be appropriate for landscaping at the proposed project site include milo, pōhinahina (*Vitex rotundifolia*), kou (*Cordia subcordata*), and Hawaiian cotton or maʻo (*Gossypium tomentosum*). Additional information on selecting appropriate plants for landscaping can be obtained from the following websites:

- [http://www.hear.org/alternativestoinvasives/pdfs/mcaac_hpwhra_a2i_list.pdf](http://www.hear.org/alternativestoinvasives/pdfs/mcaac_hpwhra_a2i_list.pdf)
- [http://www.hear.org/oisc/oahuearlydetectionproject/pdfs/oedposterwhatnottoplant.pdf](http://www.hear.org/oisc/oahuearlydetectionproject/pdfs/oedposterwhatnottoplant.pdf)

Weedy non-native plants are common throughout the project site. However, to minimize the further spread or introduction of new invasive species in the project site, all equipment, vehicles, and material (particularly those brought from outside O‘ahu) should be properly washed and inspected prior to transportation to the project site. When possible, raw materials (e.g., gravel, rock, and soil) should be purchased from a local supplier on O‘ahu to avoid introducing non-native species not present on the island. If hydroseeding occurs, SWCA recommends that off-site sources of revegetation materials (e.g., seed mixes and mulches) are certified weed-free or inspected prior to revegetation. SWCA recommends that inspection and cleaning activities be conducted at a designated location and documented using inspection forms.

5.2. Fauna

The Pacific golden plover and wandering tattler, both migrants, were mainly observed in the vicinity of the pool house (Location 4). Construction may temporarily displace these birds if conducted during the migration season. However, it is expected that these birds would return when construction is complete; no long-term impacts are expected. Similarly, black noddies may be temporarily displaced during the rehabilitation of the Lighthouse Pier (Location 7), but the displacement is expected to be temporary and no long-term impacts are expected. Great frigate birds typically fly at high altitudes and are not expected to be affected by the project.

5.3. Marine Organisms

5.3.1. Protection of Corals

Coral cover was high at Location 7, the Lighthouse Pier, where in-water work is expected to occur. SWCA estimated that there would be about 1.8 m (6 feet) depth of water over the shallowest corals at low tide, excluding those attached to the piers. Therefore, a barge or workboat with less than a 4-foot draft
could tie off along the length of the pier at most tide states (except during minus or negative tides) without damaging living corals. However, living corals rise to much shallower depths (estimated 0.6 m or 2 feet at low tide) at the west end of the pier where the wooden boat landing ramp is attached. In-water work in that small area could potentially damage those coral heads. If coral damage in that area is determined to be likely, it would be worth considering translocating the corals that would be damaged in the course of the work.

5.3.2. Prevention of Fragmentation of Invasive Species

In-water work is only expected to occur at the Lighthouse Pier (Location 7). The invasive orange sponge occurs on the pilings at the Lighthouse Pier (Location 7), and care should be taken to minimize the creation of sponge fragments during construction to prevent the further spread of this invasive species.

5.3.3. Avoidance and Minimization Measures to Prevent Impact to Marine Mammals and Green Turtles

Construction activities may temporarily displace turtles from the water surrounding the construction area during the construction period. This displacement is expected to be temporary, and no long-term impacts to green turtles are expected. It is recommended that in-water work cease if the threatened green turtle is seen within 46 m (50 yards) of the in-water construction area. Construction may resume when the green turtle voluntarily leaves the area. Any construction-related debris that may pose an entanglement threat to turtles will be removed from the construction area at the end of each day and at the conclusion of the construction project.

Marine mammals are sensitive to loud noises that may be created by construction activities such as pile driving. Construction of this nature is not expected for this project; however, if such construction is to occur, consultation with NOAA should be conducted prior to the beginning of construction. All marine mammals are protected under the Marine Mammal Protection Act (NOAA 2007).

Workers should not attempt to feed, touch, ride, or otherwise intentionally interact with any listed species.

Any incidental take of marine protected species should be reported immediately to the lead federal agency for the project, which will in turn contact the National Marine Fisheries Service. In addition, the applicant or contractor should immediately call one of the following for any injured or stranded marine mammals and sea turtles:

Marine Mammal Response Hotline (888-256-9840)
Sea Turtle Stranding Team (808-983-5730; M–F 0700–1400 hrs)
Marine Option Program, Sea Turtles Afterhours Contractor (808-288-5685 or 808-288-0023, pagers)

5.3.4. Measures to Maintain Water Quality during Construction

The following best management practices (BMPs) to protect marine water quality are also recommended by NOAA (2013b). The applicability of these BMPs to the proposed project will depend on the site-specific construction means and methods chosen.

1. A contingency plan to control toxic materials is required.

2. Appropriate materials to contain and clean potential spills shall be stored at the work site and be readily available.
3. All project-related materials and equipment placed in the water shall be free of pollutants.

4. The project manager and heavy equipment operators shall perform daily pre-work equipment inspections for cleanliness and leaks. All heavy equipment operations shall be postponed or halted should a leak be detected, and shall not proceed until the leak is repaired and equipment cleaned.

5. Fueling of land-based vehicles and equipment shall take place at least 15 m (50 feet) away from the water, preferably over an impervious surface. Fueling of vessels shall be done at approved fueling facilities.

6. Turbidity and siltation from project-related work shall be minimized and contained through the appropriate use of erosion control practices, effective silt containment devices, and the curtailment of work during adverse weather and tidal/flow conditions.

7. A plan shall be developed to prevent debris and other wastes from entering or remaining in the marine environment during the project.

5.4. Waters of the United States

The U.S. Army Corps of Engineers (USACE) derives its regulatory authority over wetlands and waters of the United States (WoUS) from two federal laws: 1) Section 10 of the Rivers and Harbors Act of 1899 and 2) Section 404 of the Clean Water Act (33 United States Code 1251 et seq. [1972]). Dredged and fill material may not be discharged into jurisdictional waters of the U.S. (including wetlands) without a permit. Wetlands and waters subject to agency jurisdiction include traditional navigable waters (TNW), wetlands adjacent to TNW, non-navigable tributaries of TNW that are relatively permanent where the tributaries typically flow year-round or have continuous flow at least seasonally, and wetlands that abut such tributaries. Determination of jurisdictional status depends, in part, on “significant nexus” with a TNW. This is assessed by determining if the flow characteristics and function of the tributary and the functions performed by wetlands adjacent to the tributary significantly affect the chemical, physical, and biological integrity of the downstream TNW.

While SWCA’s survey did not involve determination or delineation of WoUS, several were observed in the immediate vicinity of the terrestrial project site (particularly near the sewer pump site). Any work involving the discharge of dredged or fill material into WoUS would require a permit from the Honolulu District USACE. This preliminary conclusion is subject to confirmation by the Honolulu District USACE.

To avoid the need for a permit from the Honolulu District USACE, SWCA recommends the project footprint (e.g., panels, associated facilities, and roadways) be designed to avoid potentially jurisdictional features to the maximum extent possible. The following BMPs could also be incorporated during construction to reduce impacts to nearby WoUS:

- Minimize clearing and grubbing to the amount necessary for grading, access, and equipment operation.
- Install erosion and sediment control measures prior to initiating earthmoving activities and functionality maintained throughout the construction period.
- Sequence construction to minimize the exposure time of the cleared surface area.
- Protect and stabilize areas that are disturbed during the course of construction.
- Inspect control measures (e.g., silt fences, sand bag barriers, sediment traps, geotextile mats, and other measures intended for soil/sediment trapping) once a week during dry periods and repair as necessary.
• Inspect and repair control measures, as needed, within 24 hours after a rainfall event of 0.5 inch or greater over a 24-hour period. During periods of prolonged rainfall, daily inspections shall occur, unless extended heavy rainfall makes access impossible or hazardous.
• Maintain records for all inspections and repairs on-site.
• Apply permanent soil stabilization (e.g., graveling or re-planting of vegetation) as soon as practical after final grading.

6. LITERATURE CITED
———. 2013b. 2013-April General BMPs for In-water Work NMFS-PRD. Received from Donald Hubner, Endangered Species Biologist, NOAA on 4/24/2013.
Appendix A.

CHECKLIST OF PLANTS OBSERVED AT COCONUT ISLAND ON SEPTEMBER 20, 2013
The following checklist is an inventory of plant species observed by SWCA biologists on September 20, 2013 during the survey of the Coconut Island project site. The plant names are arranged alphabetically by family and then by species into four groups: Gymnosperms, Ferns & Lycophytes, Monocots and Dicots. The taxonomy and nomenclature of the ferns and lycophytes is in accordance with Palmer (2003) and Evenhuis and Eldredge (2011). The taxonomy and nomenclature of the flowering plants are in accordance with Wagner et al. (1999), Wagner and Herbst (2003), and Staples and Herbst (2005). Recent name changes are those recorded in Wagner et al. (2012).

**Status:**
- E = endemic = native only to the Hawaiian Islands.
- I = indigenous = native to the Hawaiian Islands and elsewhere.
- P = Polynesian = introduced by Polynesians.
- X = introduced/ alien = all those plants brought to the Hawaiian Islands by humans, intentionally or accidentally, after Western contact (Cook’s arrival in the islands in 1778).

**Relative Site Abundance:**
- A = Abundant = forming a major part of the vegetation within the survey area.
- C = Common = widely scattered throughout the area or locally abundant within a portion of it.
- U = Uncommon = scattered sparsely throughout the area or occurring in a few small patches.
- R = Rare = only a few isolated individuals within the survey area.

<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Common &amp; Hawaiian Name(s)</th>
<th>Status</th>
<th>Abundance (Coconut Island)</th>
<th>Abundance (Lilipuna Pier)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GYMNOSPERMS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ARAUCARIACEAE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Araucaria columnaris  (G.Forst.) Hook.</td>
<td>cook pine</td>
<td>X</td>
<td></td>
<td>R</td>
</tr>
<tr>
<td><strong>FERNS &amp; LYCOPHYTES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LOMARIOPSIDACEAE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nephrolepis brownii   (Desv.) Hovenkamp &amp; Miyam.</td>
<td>X</td>
<td></td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>Family</td>
<td>Species</td>
<td>Common Name</td>
<td>Endangered Status</td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td>---------</td>
<td>----------------------------------</td>
<td>-------------------</td>
<td></td>
</tr>
<tr>
<td><strong>POLYPODIACEAE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phymatosorus grossus (Langsd. &amp; Fisch.) Brownlie</td>
<td>laua‘e, maile-scented fern</td>
<td>X R</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MONOCOTS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGAVACEAE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cordyline fruticosa (L.) A.Chev.</td>
<td>ti</td>
<td>P R R</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARECACEAE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cocos nucifera L.</td>
<td></td>
<td>niu, coconut</td>
<td>P C</td>
<td></td>
</tr>
<tr>
<td>Phoenix sp.</td>
<td></td>
<td>date palm</td>
<td>X C</td>
<td></td>
</tr>
<tr>
<td><strong>CYPERACEAE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyperus gracilis R.Br.</td>
<td></td>
<td>McCoy grass, mau‘u hunehune</td>
<td>X R</td>
<td></td>
</tr>
<tr>
<td>Cyperus rotundus L.</td>
<td></td>
<td>nut sedge</td>
<td>X R</td>
<td></td>
</tr>
<tr>
<td>Kyllinga brevifolia Rottb.</td>
<td></td>
<td>kili‘o’opu, kaluhā</td>
<td>X R</td>
<td></td>
</tr>
<tr>
<td>Kyllinga nemoralis (J.R.Forst. &amp; G.Forst.) Dandy ex Hutch. &amp; Dalziel</td>
<td>kili‘o’opu, mau‘u mokae</td>
<td>X R R</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LILIACEAE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crinum asiaticum L.</td>
<td></td>
<td>spider lily, giant lily</td>
<td>X R R</td>
<td></td>
</tr>
<tr>
<td><strong>ORCHIDACEAE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spathoglottis plicata Blume</td>
<td></td>
<td>Malayan ground orchid, Philippine ground orchid</td>
<td>X R</td>
<td></td>
</tr>
<tr>
<td><strong>POACEAE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bothriochloa pertusa (L.) A.Camus</td>
<td>pitted beardgrass</td>
<td>X C U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cenchrus echinatus L.</td>
<td></td>
<td>common sandbur</td>
<td>X R R</td>
<td></td>
</tr>
<tr>
<td>Chloris barbata Sw.</td>
<td></td>
<td>swollen fingergrass</td>
<td>X U U</td>
<td></td>
</tr>
<tr>
<td>Scientific Name</td>
<td>Common Name</td>
<td>Status 1</td>
<td>Status 2</td>
<td></td>
</tr>
<tr>
<td>---------------------------------</td>
<td>--------------------------------------------------</td>
<td>----------</td>
<td>----------</td>
<td></td>
</tr>
<tr>
<td><em>Chloris radiata</em> (L.) Sw.</td>
<td>radiate fingergrass, plushgrass</td>
<td>X</td>
<td>U</td>
<td></td>
</tr>
<tr>
<td><em>Cynodon dactylon</em> (L.) Pers.</td>
<td>Bermuda grass</td>
<td>X</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><em>Digitaria ciliaris</em> (Retz.) Koeler</td>
<td>Henry’s crabgrass, kūkaepua’a</td>
<td>X</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><em>Digitaria insularis</em> (L.) Mez ex Ekman</td>
<td>sourgrass</td>
<td>X</td>
<td>U</td>
<td>R</td>
</tr>
<tr>
<td><em>Eleusine indica</em> (L.) Gaertn.</td>
<td>wiregrass</td>
<td>X</td>
<td>R</td>
<td>C</td>
</tr>
<tr>
<td><em>Eragrostis amabilis</em> (L.) Wight &amp; Arn.</td>
<td>lovegrass</td>
<td>X</td>
<td>U</td>
<td></td>
</tr>
<tr>
<td><em>Melinis repens</em> (Willd.) Zizka</td>
<td>Natal redtop, Natal grass</td>
<td>X</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td><em>Paspalum conjugatum</em> P.J.Bergius</td>
<td>Hilo grass</td>
<td>X</td>
<td>U</td>
<td></td>
</tr>
<tr>
<td><em>Paspalum dilatatum</em> Poir.</td>
<td>dallis grass</td>
<td>X</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td><em>Paspalum fimbriatum</em> Kunth</td>
<td>Panama paspalum, fimbriate paspalum</td>
<td>X</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><em>Sporobolus indicus</em> (L.) R.Br.</td>
<td>West Indian dropseed, smutgrass</td>
<td>X</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><em>Stenotaphrum secundatum</em> (Walter) Kuntze</td>
<td>St. Augustine grass, buffalo grass</td>
<td>X</td>
<td>C</td>
<td>U</td>
</tr>
<tr>
<td><em>Urochloa maxima</em> (Jacq.) R. D. Webster</td>
<td>Guinea grass</td>
<td>X</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><em>Zoysia sp.</em></td>
<td>Zoysia grass, Japanese lawngrass</td>
<td>X</td>
<td>C</td>
<td></td>
</tr>
</tbody>
</table>

**STRELITZIACEAE**

<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Common Name</th>
<th>Status 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Strelitzia reginae</em> Dryander</td>
<td>bird-of-paradise</td>
<td>X</td>
</tr>
</tbody>
</table>

**ZINGIBERACEAE**

<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Common Name</th>
<th>Status 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Alpinia purpurata</em> (Vieill.) K.Schum.</td>
<td>red ginger, ‘awapuhi ‘ula‘ula</td>
<td>X</td>
</tr>
</tbody>
</table>

**DICOTS**

**ACANTHACEAE**

<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Common Name</th>
<th>Status 1</th>
<th>Status 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Asystasia gangetica</em> (L.) T. Anders.</td>
<td>Chinese violet</td>
<td>X</td>
<td>U</td>
</tr>
<tr>
<td><em>Barleria cristata</em> L.</td>
<td>Philippine violet</td>
<td>X</td>
<td>U</td>
</tr>
</tbody>
</table>

**ANACARDIACEAE**

<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Common Name</th>
<th>Status 1</th>
<th>Status 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Schinus terebinthifolius</em> Raddi</td>
<td>Christmas berry</td>
<td>X</td>
<td>R</td>
</tr>
<tr>
<td>Family</td>
<td>Species</td>
<td>Common Name</td>
<td>Hawaii Code</td>
</tr>
<tr>
<td>--------------------</td>
<td>--------------------------------------------------------------------------</td>
<td>-----------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>APOCYNACEAE</td>
<td><em>Nerium oleander</em> L.</td>
<td>oleander, ‘oleana</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td><em>Plumeria obtusa</em> L.</td>
<td>Singapore plumeria</td>
<td>X</td>
</tr>
<tr>
<td>ARALIACEAE</td>
<td><em>Schefflera actinophylla</em> (Endl.) Harms</td>
<td>octopus tree</td>
<td>X</td>
</tr>
<tr>
<td>ASTERACEAE</td>
<td><em>Bidens alba</em> (L.) DC. var. <em>radiata</em> (Sch.Bip.) Ballard ex Melchert</td>
<td>Spanish needle, beggartick</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td><em>Bidens pilosa</em> L.</td>
<td>Spanish needle, beggartick</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td><em>Calyptocarpus vialis</em> Less.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td></td>
<td><em>Coneza bonariensis</em> (L.) Cronq.</td>
<td>hairy horseweed</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td><em>Coneza canadensis</em> (L.) Cronquist var. <em>pusilla</em> (Nutt.) Cronquist</td>
<td>horseweed, lani wela, ilioha</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td><em>Cyanthillium cinereum</em> (L.) H.Rob.</td>
<td>little ironweed</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td><em>Emilia fosbergii</em> Nicolson</td>
<td>pualele</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td><em>Erigeron bellioides</em> DC.</td>
<td>fleabane</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td><em>Plucheia indica</em> (L.) Less.</td>
<td>Indian fleabane, Indian plucheia,</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td><em>Sonchus oleraceus</em> L.</td>
<td>sow thistle, pualele</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td><em>Sphagneticola trilobata</em> (L.) Pruski</td>
<td>wedelia</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td><em>Synedrella nodiflora</em> (L.) Gaertn.</td>
<td>nodeweed</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td><em>Tidax procumbens</em> L.</td>
<td>coat buttons</td>
<td>X</td>
</tr>
<tr>
<td>BATACEAE</td>
<td><em>Batis maritima</em> L.</td>
<td>pickleweed, ‘ākulikuli kai</td>
<td>X</td>
</tr>
<tr>
<td>BRASSICACEAE</td>
<td><em>Lepidium africanum</em> (Burm.f.) DC.</td>
<td>pepperwort, peppergrass</td>
<td>X</td>
</tr>
</tbody>
</table>
### CARICACEAE

<table>
<thead>
<tr>
<th>Species</th>
<th>Common Name</th>
<th>Code</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carica papaya L.</td>
<td>papaya</td>
<td>X</td>
<td>R</td>
</tr>
</tbody>
</table>

### CASUARINACEAE

<table>
<thead>
<tr>
<th>Species</th>
<th>Common Name</th>
<th>Code</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casuarina equisetifolia L.</td>
<td>ironwood</td>
<td>X</td>
<td>C</td>
</tr>
</tbody>
</table>

### COMBRETACEAE

<table>
<thead>
<tr>
<th>Species</th>
<th>Common Name</th>
<th>Code</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conocarpus erectus L.</td>
<td>buttonwood, button mangrove, sea mulberry,</td>
<td>X</td>
<td>U</td>
</tr>
</tbody>
</table>

### CONVOLVULACEAE

<table>
<thead>
<tr>
<th>Species</th>
<th>Common Name</th>
<th>Code</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ipomoea obscura (L.) Ker Gawl.</td>
<td>morning glory</td>
<td>X</td>
<td>R</td>
</tr>
</tbody>
</table>

### CUCURBITACEAE

<table>
<thead>
<tr>
<th>Species</th>
<th>Common Name</th>
<th>Code</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coccinia grandis (L.) Voigt</td>
<td>ivy gourd</td>
<td>X</td>
<td>R</td>
</tr>
</tbody>
</table>

### EUPHORBIACEAE

<table>
<thead>
<tr>
<th>Species</th>
<th>Common Name</th>
<th>Code</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Euphorbia hirta L.</td>
<td>hairy spurge, garden spurge</td>
<td>X</td>
<td>U</td>
</tr>
<tr>
<td>Euphorbia hypericifolia L.</td>
<td>graceful spurge</td>
<td>X</td>
<td>U</td>
</tr>
<tr>
<td>Euphorbia prostrata Aiton</td>
<td>prostrate spurge</td>
<td>X</td>
<td>R</td>
</tr>
<tr>
<td>Phyllanthus debilis Klein ex Wild.</td>
<td>niruri</td>
<td>X</td>
<td>U</td>
</tr>
</tbody>
</table>

### FABACEAE

<table>
<thead>
<tr>
<th>Species</th>
<th>Common Name</th>
<th>Code</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calliandra haematocephala Hasskarl</td>
<td>red powderpuff, lehua haole</td>
<td>X</td>
<td>C</td>
</tr>
<tr>
<td>Chamaecrista nictitans (L.) Moench</td>
<td>partridge pea</td>
<td>X</td>
<td>U</td>
</tr>
<tr>
<td>Crotalaria incana L.</td>
<td>fuzzy rattlepod</td>
<td>X</td>
<td>U</td>
</tr>
<tr>
<td>Desmanthus pernambucanus (L.) Thell.</td>
<td>slender mimosa, virgate mimosa</td>
<td>X</td>
<td>R</td>
</tr>
<tr>
<td>Desmodium incanum DC.</td>
<td>Spanish clover</td>
<td>X</td>
<td>U</td>
</tr>
<tr>
<td>Desmodium triflorum (L.) DC.</td>
<td>tick trefoil, tick clover</td>
<td>X</td>
<td>U</td>
</tr>
<tr>
<td>Indigofera spicata Forssk.</td>
<td>creeping indigo</td>
<td>X</td>
<td>U</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C</td>
</tr>
</tbody>
</table>
### Leucaena leucocephala (Lam.) de Wit
- **Common Name:** Koa haole
- **Family:** Goodeniaceae
- **Category:** X U U

### Scaevola taccada (Gaertn.) Roxb.
- **Common Name:** Naupaka
- **Family:** Malvaceae
- **Category:** I R R

### Abutilon grandifolium (Willd.) Sweet
- **Common Name:** Hairy abutilon
- **Family:** Malvaceae
- **Category:** X R

### Hibiscus tiliaceus L.
- **Common Name:** Hau
- **Family:** Malvaceae
- **Category:** I? R

### Malvastrum coromandelianum (L.) Garcke ssp. coromandelianum
- **Common Name:** Milo
- **Family:** Malvaceae
- **Category:** I C C

### Thespesia populnea (L.) Sol. ex Corrèa
- **Common Name:** Chinese banyan, Malayan banyan
- **Family:** Moraceae
- **Category:** X R

### Ficus microcarpa L.f.
- **Common Name:** Chinese banyan, Malayan banyan
- **Family:** Moraceae
- **Category:** X R

### Ficus pumila L.
- **Common Name:** Creeping fig
- **Family:** Moraceae
- **Category:** X C

### Ficus sp.
- **Family:** Moraceae
- **Category:** X R

### Oxalis corniculata L.
- **Common Name:** Wood sorrel
- **Family:** Oxalidaceae
- **Category:** P? U U

### Passiflora sp.
- **Family:** Passifloraceae
- **Category:** X R

### Plantago major L.
- **Common Name:** Broad-leaved plantain, common plantain
- **Family:** Plantaginaceae
- **Category:** X R

### Antigonon leptopus Hook. & Arn.
- **Common Name:** Mexican creeper, mountain rose
- **Family:** Polygonaceae
- **Category:** X U R
<table>
<thead>
<tr>
<th>Family</th>
<th>Species</th>
<th>Common Name</th>
<th>X</th>
<th>R</th>
<th>U</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORTULACACEAE</td>
<td><em>Portulaca oleracea</em> L.</td>
<td>pigweed, ‘ākulikuli kula</td>
<td>X</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Portulaca pilosa</em> L.</td>
<td>‘ākulikuli</td>
<td>X</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>PRIMULACEAE</td>
<td><em>Anagallis arvensis</em> L.</td>
<td>scarlet pimpernel</td>
<td>X</td>
<td>R</td>
<td>R</td>
</tr>
<tr>
<td>RHIZOPHORACEAE</td>
<td><em>Rhizophora mangle</em> L.</td>
<td>American mangrove, red mangrove</td>
<td>X</td>
<td>U</td>
<td></td>
</tr>
<tr>
<td>RUBIACEAE</td>
<td><em>Ixora casei</em> Hance</td>
<td>ever-blooming ixora</td>
<td>X</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Spermacoce assurgens</em> Ruiz &amp; Pav.</td>
<td>coat buttons, buttonweed</td>
<td>X</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>SOLANACEAE</td>
<td><em>Solanum lycopersicum</em> L.</td>
<td>tomato</td>
<td>X</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>URTICACEAE</td>
<td><em>Pilea microphylla</em> (L.) Liebm.</td>
<td>artillery plant, rockweed</td>
<td>X</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>VERBENACEAE</td>
<td><em>Stachytarpheta cayennensis</em> (Rich.) Vahl</td>
<td>blue rat’s-tail</td>
<td>X</td>
<td>R</td>
<td></td>
</tr>
</tbody>
</table>
Appendix B.

CHECKLIST OF BIRDS OBSERVED AT COCONUT ISLAND ON SEPTEMBER 20, 2013
The following checklist is an inventory of bird species observed by SWCA biologists on September 20, 2013, during the survey of the Coconut Island project site. The bird species names are arranged alphabetically.

I = indigenous, NN = non-native permanent resident, M = migrant

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common myna</td>
<td><em>Acridotheres tristis</em></td>
<td>NN</td>
</tr>
<tr>
<td>Mallard-Hawaiian duck hybrid</td>
<td><em>Anas sp.</em></td>
<td>-</td>
</tr>
<tr>
<td>Northern cardinal</td>
<td><em>Cardinalis cardinalis</em></td>
<td>NN</td>
</tr>
<tr>
<td>Common waxbill</td>
<td><em>Estrilda astrild</em></td>
<td>NN</td>
</tr>
<tr>
<td>Great frigatebird</td>
<td><em>Fregata minor</em></td>
<td>I</td>
</tr>
<tr>
<td>Zebra dove</td>
<td><em>Geopelia striata</em></td>
<td>NN</td>
</tr>
<tr>
<td>Red-crested cardinal</td>
<td><em>Paroaria coronata</em></td>
<td>NN</td>
</tr>
<tr>
<td>Pacific golden plover</td>
<td><em>Pluvialis fulva</em></td>
<td>M</td>
</tr>
<tr>
<td>Red-vented bulbul</td>
<td><em>Pycnonotus cafer</em></td>
<td>NN</td>
</tr>
<tr>
<td>Spotted dove</td>
<td><em>Streptopelia chinensis</em></td>
<td>NN</td>
</tr>
<tr>
<td>Wandering tattler</td>
<td><em>Tringa incana</em></td>
<td>M</td>
</tr>
<tr>
<td>Japanese white-eye</td>
<td><em>Zosterops japonicus</em></td>
<td>NN</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>
Appendix C.

CHECKLIST OF MARINE ORGANISMS OBSERVED AT COCONUT ISLAND ON SEPTEMBER 20, 2013
<table>
<thead>
<tr>
<th>Family</th>
<th>Species</th>
<th>Common Name</th>
<th>North Lagoon</th>
<th>Shallow Bay</th>
<th>Floating Dock</th>
<th>Lighthouse Pier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engraulidae (Anchovies)</td>
<td>Encrasicholina purpurea</td>
<td>Nehu</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Aulostomidae (Trumpetfishes)</td>
<td>Aulostomus chinensis</td>
<td>Trumpetfish</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Fistulariidae (Cornetfishes)</td>
<td>Fistularia commersonii</td>
<td>Cornetfish</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carangidae (Jacks)</td>
<td>Scomberoides lysan</td>
<td>Lai</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Mullidae (Goatfish)</td>
<td>Parupeneus porphyreus</td>
<td>whitesaddle goatfish (Kumu)</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Mulloluidchthys flavolineatus</td>
<td>Weke ula</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Parupeneus multifasciatus</td>
<td>Moano</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Pomacentridae (Damselfishes)</td>
<td>Abudefduf abdominalis</td>
<td>Hawaiian sergeant (Mamo)</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Abudefduf vaigiensis</td>
<td>Indo-Pacific sergeant</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Abudefduf sordidus</td>
<td>Kupipi</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Labridae (Wrasses)</td>
<td>Stethojulis balteata</td>
<td>belted wrasse (‘Omaka)</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Thalassoma duperrey</td>
<td>saddle wrasse (Hinalea lauwili)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bodianus bilunulatus</td>
<td>Hawaiian hogfish</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gomphosus varius</td>
<td>Bird wrasse</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scaridae (Parrotfishes)</td>
<td>Scarus spp.</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Chlorurus perspicillatus</td>
<td>Spectacled parrotfish</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chlorurus spilurus</td>
<td>Bullethead parrotfish</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gobbidae (Gobies)</td>
<td>Eviota epiphanes</td>
<td>Divine dwarf goby</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>unidentified gobies</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Acanthuridae (Surgeonfish)</td>
<td>Acanthurus blochii</td>
<td>ringtail surgeonfish (Palani)</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Acanthurus nigroris</td>
<td>Blue-lined surgeonfish</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acanthurus triostegus</td>
<td>Manini</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acanthurus xanthopterus</td>
<td>Yellowfin surgeonfish</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Zebrasoma veliferum</td>
<td>Sailfin tang</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Sphyraenae (Barracudas)</td>
<td>Sphyraena barracuda</td>
<td>Great barracuda</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Coral</td>
<td>Family</td>
<td>Species</td>
<td>Common Name</td>
<td>Location</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>-----------------------</td>
<td>--------------------------</td>
<td>------------------------------------</td>
<td>-------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pocillopora damicornis</td>
<td>lace coral</td>
<td>North Lagoon: X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Poritidae</td>
<td>Porites compressa</td>
<td>finger coral</td>
<td>Shallow Bay: X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acroporidae</td>
<td>Montipora capitata</td>
<td>rice coral</td>
<td>Floating Dock: X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Faviidae</td>
<td>Leptastrea purpurea</td>
<td>crust or crater coral</td>
<td>Lighthouse Pier: X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other Marine Invertebrates</th>
<th>Classification</th>
<th>Species</th>
<th>Common Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Phylum: Porifera (Sponges)</td>
<td>Mycale sp.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Callyspongia diffusa</td>
<td>Violet callysponge</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Suberites zeteki*</td>
<td>Lobate sponge</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mycale armata*</td>
<td>Orange sponge</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Order: Actinaria (Sea Anemones)</td>
<td>Boloceroides mcmurrichi</td>
<td>Swimming anemone</td>
<td>North Lagoon: X</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aiptasia pulchella</td>
<td>Glass anemone</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Class: Polychaeta (Bristleworms)</td>
<td>Sabellastarte sanctijosephi*</td>
<td>Featherduster worm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Class: Enteropneusta (Acorn worms)</td>
<td>Ptychodera sp.</td>
<td>Acorn worm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Family: Littorinidae (Periwinkles)</td>
<td>Littoraria pintado</td>
<td>Dotted periwinkle</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Family Pinnidae (Pen shells)</td>
<td>Littoraria scabra</td>
<td>Mangrove periwinkle</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Family: Isognomonidae</td>
<td>Pinna muricata</td>
<td>Prickly pen shell</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Family: Calyptraeida</td>
<td>Isognomon perna</td>
<td>Brown purse shell</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Family: Ostreidae</td>
<td>Crucibulum spinosum*</td>
<td>Spiny cup and saucer shell</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crassostrea sp.</td>
<td>Oyster</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crassostrea gigas</td>
<td>Japanese oyster</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Spondylus violacescens</td>
<td>Cliff oyster</td>
<td></td>
</tr>
</tbody>
</table>
### ALGAE

<table>
<thead>
<tr>
<th>Division</th>
<th>Species</th>
<th>Common Name</th>
<th>North Lagoon</th>
<th>Shallow Bay</th>
<th>Floating Dock</th>
<th>Lighthouse Pier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhodophyta (Red algae)</td>
<td><em>Gracilaria salicornia</em></td>
<td>Gorilla ogo</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td><em>Acanthophora spicifera</em></td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Laurencia sp.</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Chlorophyta (Green algae)</td>
<td><em>Caulerpa sp.</em></td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Dictyosphaeria versluysii</em></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Ventricaria ventricosa</em></td>
<td>Sailors eyeballs</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Caulerpa racemosa/nummularia</em></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ochrophyta (Brown algae)</td>
<td><em>Padina sp</em></td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Dictyota sp.</em></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

* introduced species