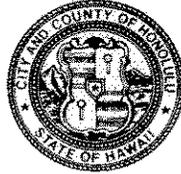


DEPARTMENT OF DESIGN AND CONSTRUCTION  
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 11<sup>TH</sup> FLOOR  
HONOLULU, HAWAII 96813  
Phone: (808) 768-8480 • Fax: (808) 768-4567  
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~~FEB 27 2010~~  
MAR 08 2010

MUFI HANNEMANN  
MAYOR



CRAIG I. NISHIMURA, P.E.  
DIRECTOR

COLLINS D. LAM, P.E.  
DEPUTY DIRECTOR

WW.P 10-040

February 22, 2010

Ms. Katherine Puana Kealoha, Director  
Office of Environmental Quality control  
235 South Beretania Street, Suite 702  
Honolulu, Hawaii 96813

Dear Ms. Kealoha:

Subject: Environmental Assessment (EA) for Ala Moana Wastewater Pump  
Station Force Main No. 3 and No. 4, Tax Map Key 2-1-15:23, 2-1-15:09,  
1-5-41:05, 1-5-41:06, Urban District, Oahu Hawaii

The Department of Design and Construction, City and County of Honolulu, has reviewed the comments received on the draft EA during the 30-day public comment period which began on September 23, 2009. The City has determined that this project will not have significant environmental effects and has issued a Finding of no Significant Impact.

Please publish this notice in the next available Office of Environmental Quality Control (OEQC) Environmental Notice.

We have enclosed a completed OEQC Publication Form and one (1) copy of the document in pdf format on a CD; and one (1) hardcopy of the Final EA. Please call Mr. Wynn Miyamoto of Fukunaga and Associates, Inc., our consultant at 944-1821 or Mr. Carl Arakaki of my staff at 768-738 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Craig I. Nishimura".

FOR Craig I. Nishimura, P.E.  
Director

Enclosures

ALA MOANA WASTEWATER PUMP STATION  
FORCE MAIN #3 AND #4

FINAL  
ENVIRONMENTAL ASSESSMENT

*Prepared for:*  
CITY AND COUNTY OF HONOLULU  
Department of Design and Construction  
Wastewater Division

February 2010

*Prepared by:*  
**FUKUNAGA AND ASSOCIATES, INC.**  
1357 Kapiolani Boulevard, Suite 1530  
Honolulu, Hawaii 96814

## PROJECT SUMMARY

Project Name: Ala Moana Wastewater Pump Station Force Main #3 and #4

Applicant: City and County of Honolulu  
Department of Design and Construction  
650 South King St, 14<sup>th</sup> Floor  
Honolulu, HI 96813

Agent: Fukunaga & Associates, Inc.  
1357 Kapiolani Blvd, Suite 1530  
Honolulu, HI 96814  
Contact: Mr. Wynn Miyamoto  
Phone: (808) 944-1821, Fax: (808) 946-9339

Approving Agency: City and County of Honolulu

Tax Map Key: 2-1-15:23, 2-1-15:09, 1-5-41:05, 1-5-41:06

State Land Use District: Urban

Existing County Zoning: Kakaako Community Development District, P-2, I-3

Development Plan Land Use Designation: Major Parks and Open Space, Industrial, District Commercial

HCDA Makai Area Plan Zoning: Public Use

Special Designation: Special Management Area (SMA), Shoreline Setback

Anticipated Determination: Finding of No Significant Impact (FONSI)

Preconsultation Parties: Board of Water Supply  
City and County of Honolulu  
Department of Planning and Permitting  
Department of Transportation Services  
Aloha Tower Development Corporation  
Department of Land and Natural Resources  
Department of Health  
Clean Air Branch  
Clean Water Branch  
Environmental Health Administration  
Solid and Hazardous Waste Branch  
Wastewater Branch  
Department of Hawaiian Homelands

Department of Business, Economic Development, &  
Tourism

Department of Transportation

Highways Division

Harbors Division

Authority in the Hawaii Community Development  
Association

Office of Hawaiian Affairs

Office of Planning

University of Hawaii, Manoa

Environmental Research Center

Water Resource Research Center

Marine Center

USDA Natural Resource Conservation Service

U.S. Department of Interior, Fish and Wildlife Service

U.S. Army Corps of Engineers

U.S. Coast Guard

Gas Company

Hawaiian Electrical Company

Hawaiian Telcom

Aloha Cargo Transport

Hawaii Stevedores, Inc.

Inchcape Shipping

Matson Navigation Company, Inc.

# TABLE OF CONTENTS

## SECTION 1: INTRODUCTION

1.1	BACKGROUND .....	1
1.2	EXISTING FACILITIES AND OPERATIONS .....	1
1.3	NEED FOR PROJECT .....	3

## SECTION 2: PROJECT DESCRIPTION

2.1	PROJECT DESCRIPTION.....	5
2.2	ALTERNATIVE ROUTES .....	5
2.2.1.	Harbor Crossing.....	5
2.2.2.	Sand Island.....	7
2.3	SELECTED ROUTE .....	8
2.4	LAND USE.....	11
2.5	PROPOSED CONSTRUCTION METHOD .....	13
2.5.1	Ala Moana WWPS Portion: Land Alignment and Harbor Crossing .....	13
2.5.2	Sand Island Portion.....	15
2.6	PROJECT SCHEDULE.....	15
2.7	CONSTRUCTION COSTS .....	15

## SECTION 3: RELATIONSHIP TO FEDERAL, STATE, AND COUNTY PLANS AND POLICIES

3.1	HAWAII STATE PLAN.....	16
3.2	STATE LAND USE LAW .....	16
3.3	KAKAAKO COMMUNITY DEVELOPMENT PLAN .....	18
3.4	CITY AND COUNTY OF HONOLULU GENERAL PLAN .....	18
3.5	CITY AND COUNTY OF HONOLULU PRIMARY URBAN CENTER DEVELOPMENT PLAN.....	19
3.6	CITY AND COUNTY ZONING.....	19
3.7	COASTAL ZONE MANAGEMENT PROGRAM.....	19
3.7.1	Special Management Area: SIRA.....	23
3.7.2	Special Management Area: Kakaako Makai Area.....	23
3.7.3	Shoreline Setback.....	23
3.8	DEPARTMENT OF THE ARMY PERMIT .....	23
3.9	DEPARTMENT OF HEATH 401WATER QUALITY CERTIFICATION.....	25
3.10	HONOLULU WATERFRONT MASTER PLAN .....	25

## SECTION 4: DESCRIPTION OF THE ENVIRONMENT

4.1	CLIMATE.....	26
4.2	TOPOGRAPHY.....	26
4.3	SOILS .....	26

4.4	FLOOD .....	26
4.5	HAZARDOUS MATERIALS .....	26
4.6	MARINE ECOLOGY .....	29
4.7	NOISE.....	29
4.8	AIR QUALITY.....	29
4.9	WATER QUALITY.....	30
4.10	TIDES AND CURRENTS.....	30
4.11	ARCHAEOLOGICAL RESOURCES.....	30
4.12	FLORA AND FAUNA .....	30
4.13	WETLANDS.....	31
4.14	INFRASTRUCTURE .....	31
4.14.1	Roads.....	31
4.14.2	Water System .....	31
4.14.3	Electrical Service .....	33
4.14.4	Gas Lines .....	33

**SECTION 5: ALTERNATIVES TO PROPOSED ACTION**

5.1	NO ACTION.....	34
5.2	REHABILITATION OF EXISTING FORCE MAINS.....	34
5.3	INSTALLATION METHOD .....	34
5.3.1	Horizontal Directional Drilling (HDD) .....	34
5.3.2	Curved Microtunneling.....	35

**SECTION 6: IMPACTS AND MITIGATION MEASURES**

6.1	SHORT TERM CONSTRUCTION IMPACTS .....	36
6.2	NOISE.....	36
6.3	AIR QUALITY.....	36
6.4	WATER QUALITY.....	37
6.5	HAZARDOUS MATERIALS .....	37
6.6	FLORA AND FAUNA .....	38
6.7	MARINE HABITATS .....	38
6.8	ARCHAEOLOGICAL RESOURCES.....	38
6.9	FLOOD AND COASTAL HAZARDS .....	38
6.10	TRAFFIC .....	39
6.10.1	Vehicular Traffic.....	39
6.10.2	Harbor Traffic .....	39
6.11	UTILITIES.....	39
6.12	SOCIO-ECONOMIC.....	39
6.13	SAND ISLAND RECREATION AREA AND RECREATIONAL RESOURCES .....	39
6.14	SCENIC AND OPEN SPACE RESOURCES.....	40
6.15	LONG TERM WATER QUALITY IMPACTS .....	40
6.16	LONG TERM MARINE HABITAT IMPACTS.....	40
6.17	LONG TERM SOCIO-ECONOMIC IMPACTS .....	40

**SECTION 7: DETERMINATION**

**SECTION 8: PERMITS AND APPROVALS**

8.1 CITY AND COUNTY OF HONOLULU..... 43  
8.2 STATE OF HAWAII..... 43  
8.3 FEDERAL AGENCIES..... 44  
8.4 APPROVALS RECEIVED ..... 44

**SECTION 9: CONSULTED PARTIES**

9.1 PRE-ENVIRONMENTAL ASSESSMENT AND DRAFT ENVIRONMENTAL ASSESSMENT ..... 45

**SECTION 10: REFERENCES**

**APPENDIX A: PRE-ENVIRONMENTAL ASSESSMENT COMMENTS AND RESPONSES**

**APPENDIX B: DRAFT ENVIRONMENTAL ASSESSMENT COMMENTS AND RESPONSES**

## LIST OF FIGURES

Figure 1-1: Ala Moana WWPS Service Area Map.....	2
Figure 1-2: Existing Ala Moana WWPS Site Plan .....	4
Figure 2.1: FM#3 – Alternate Routes .....	6
Figure 2-2: Ala Moana Force Main #3 Proposed Alignment .....	9
Figure 2.3: Ala Moana Force Main #3 Proposed Alignment – Parcel Map .....	10
Figure 2-4: Kakaako Community Development District.....	12
Figure 2-5: Microtunneling Boring Machine.....	14
Figure 3-1: State Land Use Map.....	17
Figure 3-2: Kakaako Makai Area Land Use Zones .....	19
Figure 3-3: County Zoning Map .....	21
Figure 3-4: Special Management Area Map.....	22
Figure 3-5: Approximate Shoreline Area .....	24
Figure 4-1: USDA SCS Soils Map .....	27
Figure 4-2: Flood Zone Map.....	28
Figure 4-3: Wetlands Map .....	32

## **SECTION 1**

### **Introduction**

The project was originally titled “Ala Moana Wastewater Pump Station Force Main #3” for the Draft Environmental Assessment. The project title has since been changed to “Ala Moana Wastewater Pump Station Force Main #3 and #4.” The project always has been intended to be a dual force main system and the scope has not changed. The change in project title is intended to clarify the scope of work.

#### **1.1 BACKGROUND**

The City and County of Honolulu (City) proposes to install a new dual 60-inch force main system to convey wastewater from the Ala Moana Wastewater Pump Station to the Sand Island Wastewater Treatment Plant.

An environmental review is required, pursuant to Chapter 343, Hawaii Revised Statutes. The triggers are as follows:

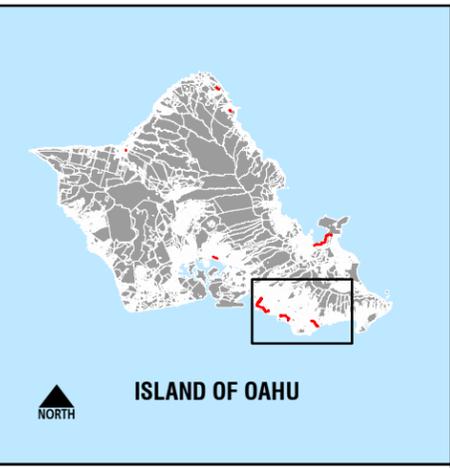
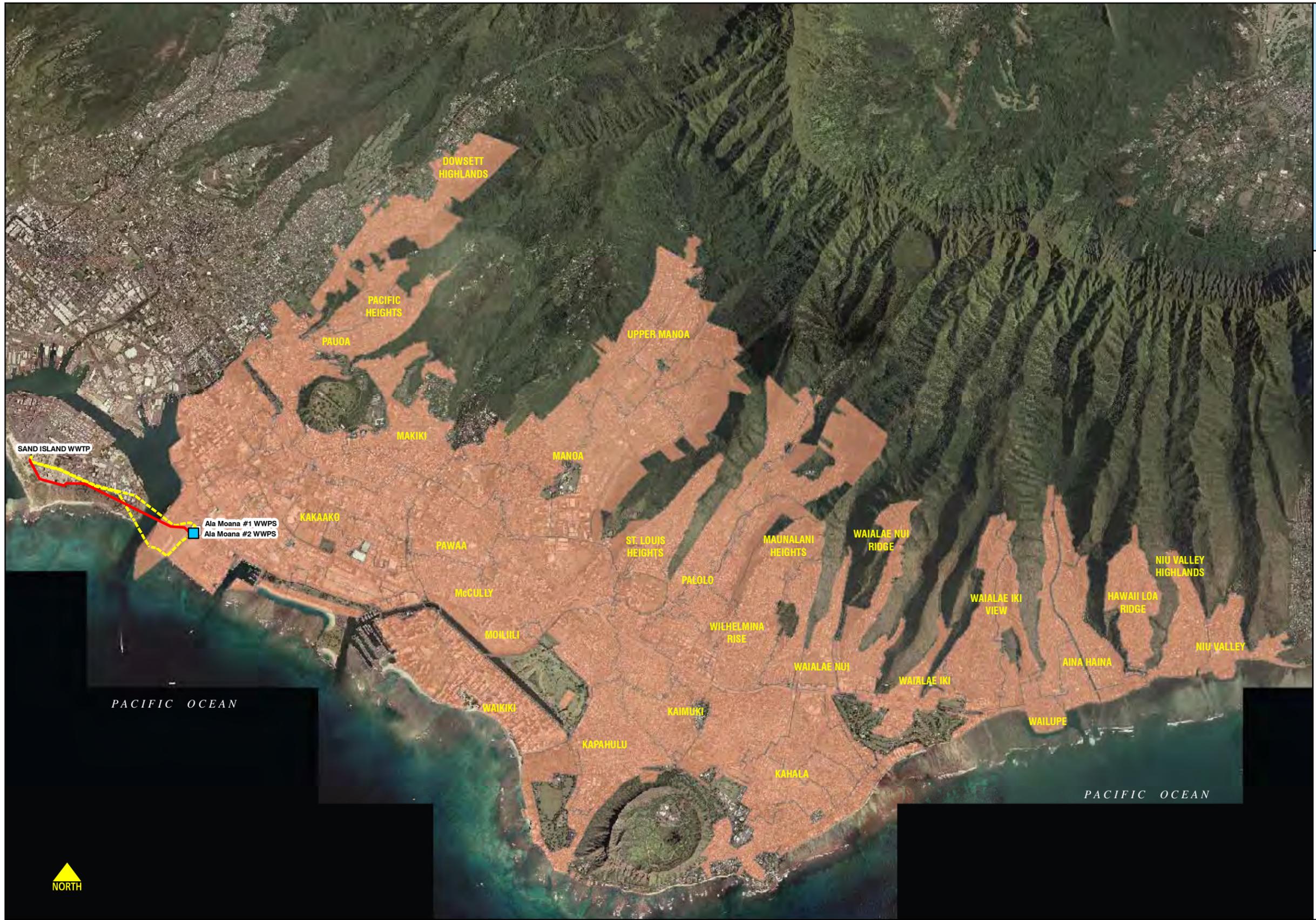
- Use of state lands and county funds;
- Use of land classified as Conservation District; and
- Use within the Special Management Area.

#### **1.2 EXISTING FACILITIES AND OPERATIONS**

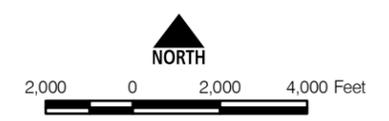
The Ala Moana Wastewater Pump Station (WWPS) and Force Main (FM) system receives wastewater generated by the area encompassing Niu Valley to Nuuanu and Kakaako, serving approximately half of the population of the island of Oahu; and conveys the wastewater to the Sand Island Wastewater Treatment Plant (WWTP). This is the largest wastewater pumping system on the island. **Figure 1-1** depicts the service area and facility locations. The average daily wastewater flow rate to the Ala Moana WWPS and FM system is approximately 48 million gallons per day (mgd). During rainy periods, flow has increased above 120 mgd.

The existing Ala Moana WWPS and FM system consists of two pump stations and two force mains, which operate in parallel. Ala Moana WWPS #1 and FM #1 were completed in 1952; FM #1 ranges in size from 54-inches to 78-inches with a total length of 8,165 feet. Ala Moana WWPS #2 and FM #2 were completed in 1983; FM #2 ranges in size from 66-inches to 78-inches with a total length of 9,299 feet. The WWPSs recently were modified and WWPS #1 and #2 have capacities of 66 mgd and 103 mgd, respectively, totaling 169 mgd with one backup pump.

The WWPS #2 FM #2 System is the primary system under normal dry weather operating conditions. The WWPS #1 FM #1 System serves as a backup to the WWPS #2 FM #2 System or is placed in operation during heavy rain storms or during shutdown of the WWPS #2 FM #2 System. WWPS #1 can pump through FM #2; and WWPS #2 can pump through FM #1, if necessary. However, no more than two pumps can be in operation when WWPS #2 pumps



- LEGEND:**
- Ala Moana WWPS Service Area
  - Existing Force Main
  - Proposed Force Main
  - Existing Wastewater Pump Stations



**Ala Moana WWPS Service Area**

**FIGURE 1-1**  
Ala Moana Pump Station Force Main #3 and #4

through FM #1, due to FM #1 pressure rating limitation. **Figure 1-2** shows a layout of the existing WWPS site.

### **1.3 NEED FOR PROJECT**

The City has a Force Main Condition Assessment Program, which provides an assessment of the wastewater force mains; and develops a criticality and risk ranking of the facilities to assist in the prioritizing and scheduling of future activities to improve the collection system performance and reliability. The criticality of force mains is defined in terms of the consequence of failure, specific impacts to the public and the environment; and the risk of that failure occurring, which is based on a comprehensive review of various factors.

The Force Main Condition Assessment Program deemed Ala Moana FM #1 and #2 as “critical”. Ala Moana FM #1 and #2 are very large; carry high sewage flows; are constructed of reinforced concrete, which is generally susceptible to corrosion; are of substantial length; convey wastewater from an extensive service area; are old; and have limited backup capacity. Furthermore, the force mains cross a water body, which is vital to the economy. Failure of the force mains, especially within Honolulu Harbor, would have significant impacts on the public and the environment.

Sufficient capacity, as well as having a backup force main, are important for any wastewater pumping system, but are paramount for the magnitude of the Ala Moana system. If there is a failure in FM #2, FM #1 can only convey 66 mgd to the WWTP; and if there is a substantial rain event, FM #1 may not be able to accommodate all of the flow necessary, which could result in a sewage spill. If FM #1 fails, FM #2 can convey up to 157 mgd. Neither of the force mains alone can transmit the 2020 peak wet weather design flow of 189 mgd.

In May 2007, the City agreed to a Stipulated Order (CV 07-00235 HG-KSC) with the Federal Environmental Protection Agency (EPA) and the State Department of Health (DOH) requiring the City to install a backup force main for the Ala Moana WWPS. The order also requires the City to execute a construction contract for FM #3 by July 31, 2012, and complete construction by December 31, 2014.



## SECTION 2 Project Description

### 2.1 PROJECT DESCRIPTION

Ala Moana FM #3 and #4 will be sized for a 50-year service life to the year 2065. The peak wet weather wastewater design flow rate is estimated to be in the range of 210 to 225 mgd. FM #3 and #4 will consist of two 60-inch parallel pipes. The proposed configuration for FM #3 and #4 will increase the Ala Moana force main system capacity to convey the 2065 peak wet weather design flow, and will also provide an essential backup line and flexibility to allow shutdown of any of the force mains for inspection, maintenance and repair work. If any one of FM #3, #4 or FM #2 must be shut down (FM #1 remains as backup), the remaining two force mains would be capable of conveying the 2065 peak wet weather design flow. The force main system will utilize the existing Ala Moana Pump Stations. Construction of a new pump station is not required. The Sand Island WWTP will not require upgrades as part of this project. As wastewater flows increase in the future and approach 2065 flows, upgrades to the pump stations and treatment plant may be required, which will be separate from this project.

### 2.2 ALTERNATIVE ROUTES

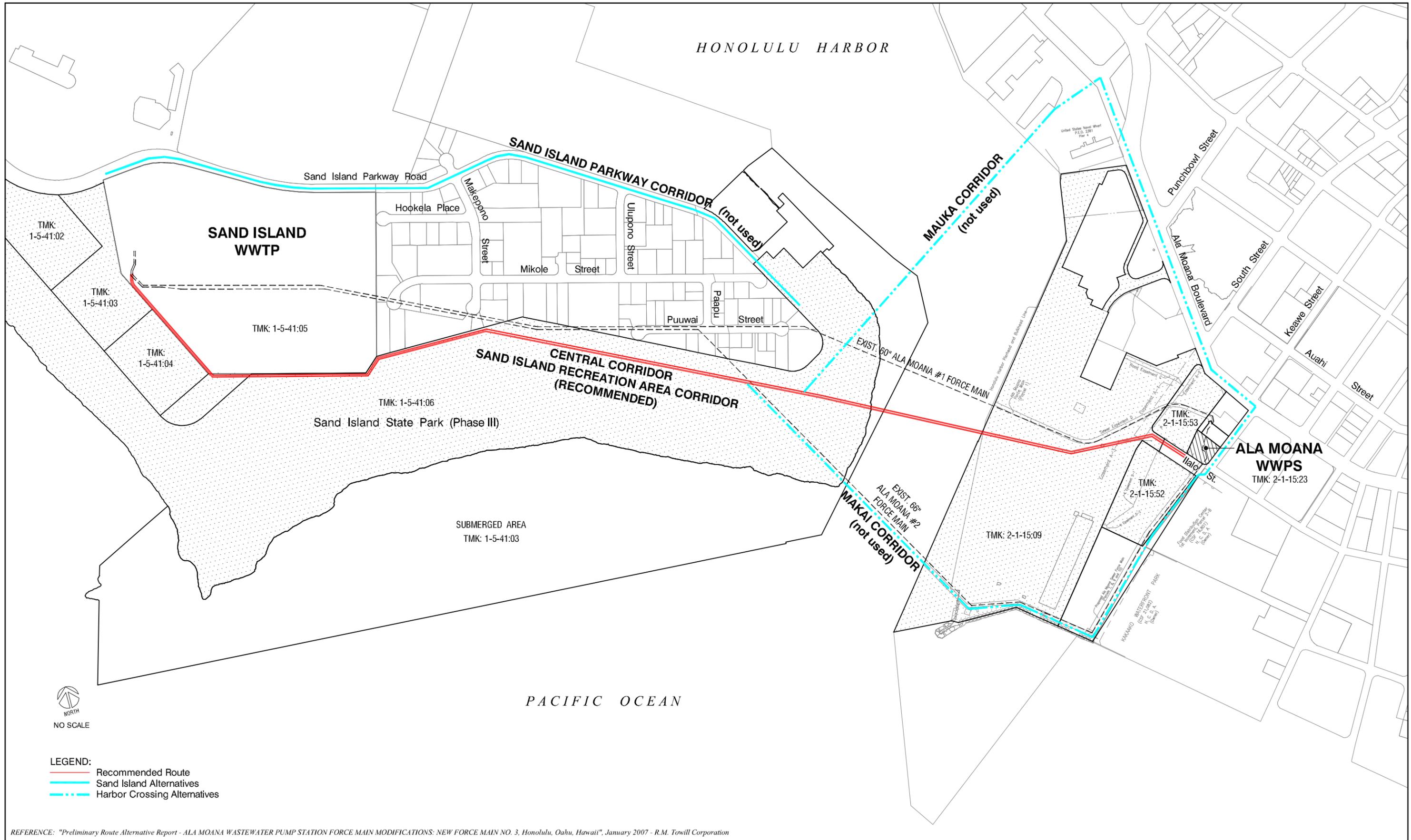
Alternative routes, as shown on **Figure 2-1**, were evaluated for the proposed Ala Moana FM #3 and #4: three alternatives for the harbor crossing and two on Sand Island. The alternatives evaluated for the harbor crossing from Ala Moana WWPS to the Sand Island Recreational Area (SIRA) include the Mauka (mountainside), Makai (oceanside), and Central Corridors. The two alternatives on Sand Island include the Sand Island Parkway Corridor and the Sand Island Recreational Area Corridor.

#### 2.2.1 Harbor Crossing

##### Mauka Corridor

The Mauka Corridor exits the WWPS on the east side, runs Mauka (North) along Keawe Street, turns left and goes Ewa (West) on Ala Moana Boulevard until the parking lot between Piers 5 and 6, where it crosses the parking lot and harbor to the Sand Island Recreational Area.

This alternative is the longest and the most expensive. Both the State Department of Transportation, Harbors Division (DOT-Harbors) and Highways Division have significant concerns with the Mauka Corridor. DOT-Harbors is concerned with potential restriction of future development in the parking lot between Piers 5 and 6. The Highways Division is concerned with the traffic impacts that would be caused by construction along Ala Moana Boulevard. This alternative will directly affect approximately 12 bus routes and will potentially affect rush hour traffic. Sections along Ala Moana Boulevard and Nimitz Highway currently operate at a level of service of E or F. Construction within this corridor will likely have a negative impact on traffic. The easement required for the force main system could potentially interfere with the future proposed rail system. Furthermore, the Mauka Corridor has the longest



REFERENCE: "Preliminary Route Alternative Report - ALA MOANA WASTEWATER PUMP STATION FORCE MAIN MODIFICATIONS: NEW FORCE MAIN NO. 3, Honolulu, Oahu, Hawaii", January 2007 - R.M. Towill Corporation

Ala Moana Force Main #3 and #4 - Alternate Routes

harbor crossing, and therefore, the highest associated construction risk. There are also several utilities along Ala Moana Boulevard, included a proposed HECO ductline. Consequently, the Mauka Corridor is not a preferred route.

### Makai Corridor

The Makai Corridor parallels the existing Ala Moana FM #2 alignment. This alternative exits the WWPS on the east side, runs Makai (south) along Keawe Street to the Honolulu Harbor entrance, then goes Ewa (West) along the coast and crosses the harbor to the Sand Island Recreational Area. The Makai Corridor alternative is 1,500 feet longer than the Central Corridor alternative. This alternative requires construction adjacent to FM #2 within a narrow corridor along the existing drainage canal and shoreline. Construction would be difficult due to the limited space, uncertain ground conditions, and risk of damage to FM #2. This alternative directly impacts one bus route along Ilalo Street, is not located in an area of existing traffic problems, and will not affect the future rail alignment. The harbor crossing is longer than that of the Central Corridor and would require a deep construction shaft in the harbor waters. Although this alternative is preferred by DOT-Harbors because impacts on their lands would be minimal, this option is not preferred by the City due to the construction risk and higher associated costs.

### Central Corridor

The Central Corridor parallels the Ala Moana FM #1 alignment. This alternative exits the WWPS on the Makai (south) side, runs Ewa (West) along Ilalo Street, through Fort Armstrong, and crosses the harbor to the Sand Island Recreational Area.

This alternative directly impacts one bus route along Ilalo Street, is not located in an area of existing traffic problems, and will not affect the future rail alignment. The Central Corridor alternative is the shortest, most direct, and most cost-effective alternative. Although it is not their preferred route, DOT-Harbors is amenable to the Central Corridor. Shaft sites have been located to minimize disruptions to DOT-Harbors operations. DOT-Harbors has indicated that one of the tenants at Pier 1 is planned to be relocated to Pier 29 when upgrades to Pier 29 have been completed. This work is projected to be completed before construction of Ala Moana Force Main #3 and #4. This will free up space within Pier 1 and reduce disruption to operations at Pier 1. The Central Corridor has been aligned to stay out of HCDA property. Therefore, HCDA has no objections to the alignment. In consideration of construction risks and economics, the Central Corridor is preferred. DOT-Harbors concerns will be addressed to their satisfaction in right-of-entry and easement negotiations.

## **2.2.2 Sand Island**

### Sand Island Parkway Corridor

Sand Island Parkway is under the jurisdiction of State DOT Highways, and is the main thoroughfare on Sand Island. Construction along this primary access road would likely encounter significant utility conflicts. This alternative does not directly impact bus routes, is not

located in an area of existing traffic problems, and will not affect the future rail alignment. However, it will negatively affect traffic. A more favorable route is available; therefore, the Sand Island Parkway Corridor alternative is not preferred.

#### Sand Island Recreational Area (SIRA) Corridor

The Sand Island Recreational Area is a State park. Construction impacts within the area are preferred over the disruption associated with the Sand Island Parkway Corridor alternative. The alignment will follow the property line where possible to minimize impacts on park use. This alternative does not directly impact bus routes, is not located in an area of existing traffic problems, and will not affect the future rail alignment.

A National Park Service (NPS) Land and Water Conservation Fund (LWCF) grant was used to fund improvements to the Sand Island State Recreation Area. Therefore, LWCF conditions apply, specifically that the park must remain available to the public for outdoor recreation. If the park, in whole or in part, is converted to other than public outdoor recreation use, replacement lands must be provided and approved by NPS. Underground utility easements that do not impact the recreational use of the park and are restored to the original surface condition may not trigger a conversion. If restoration exceeds 12 months, NPS must be consulted to determine if a conversion is triggered. The project will not impact recreational use of the park; however, construction will exceed the 12 month limit. NPS has granted the City a 2-year construction period within the park and a utility easement to maintain the force main system in the future. The 2-year construction period is granted with the following conditions:

- During the 2 year construction period, the park will remain open to the public and impacts to public outdoor recreation will be minimized. This includes minimal disruption to camping, picnicking, and shoreline activities. The contractor will insure public safety and provide detours as needed for access to recreation areas.
- Upon completion of the installation of the force main, the ground surface will be graded and grassed such that the area remains available for outdoor recreation.
- As a mitigation measure for the use of the park, the City will restore construction areas to better than the pre-existing condition. Details of the improvements will be coordinated with State Parks.
- The easement will not interfere with the use of the area for outdoor recreation once the project is completed.

### **2.3 SELECTED ROUTE**

The various alternative routes were assessed and discussed with the affected agencies. The selected route for Ala Moana FM #3 and #4 is the Central Corridor and Sand Island Recreational Area Corridor. This route is the shortest and most cost-effective alternative, with the least construction risk and associated disruption to facility operations and traffic.

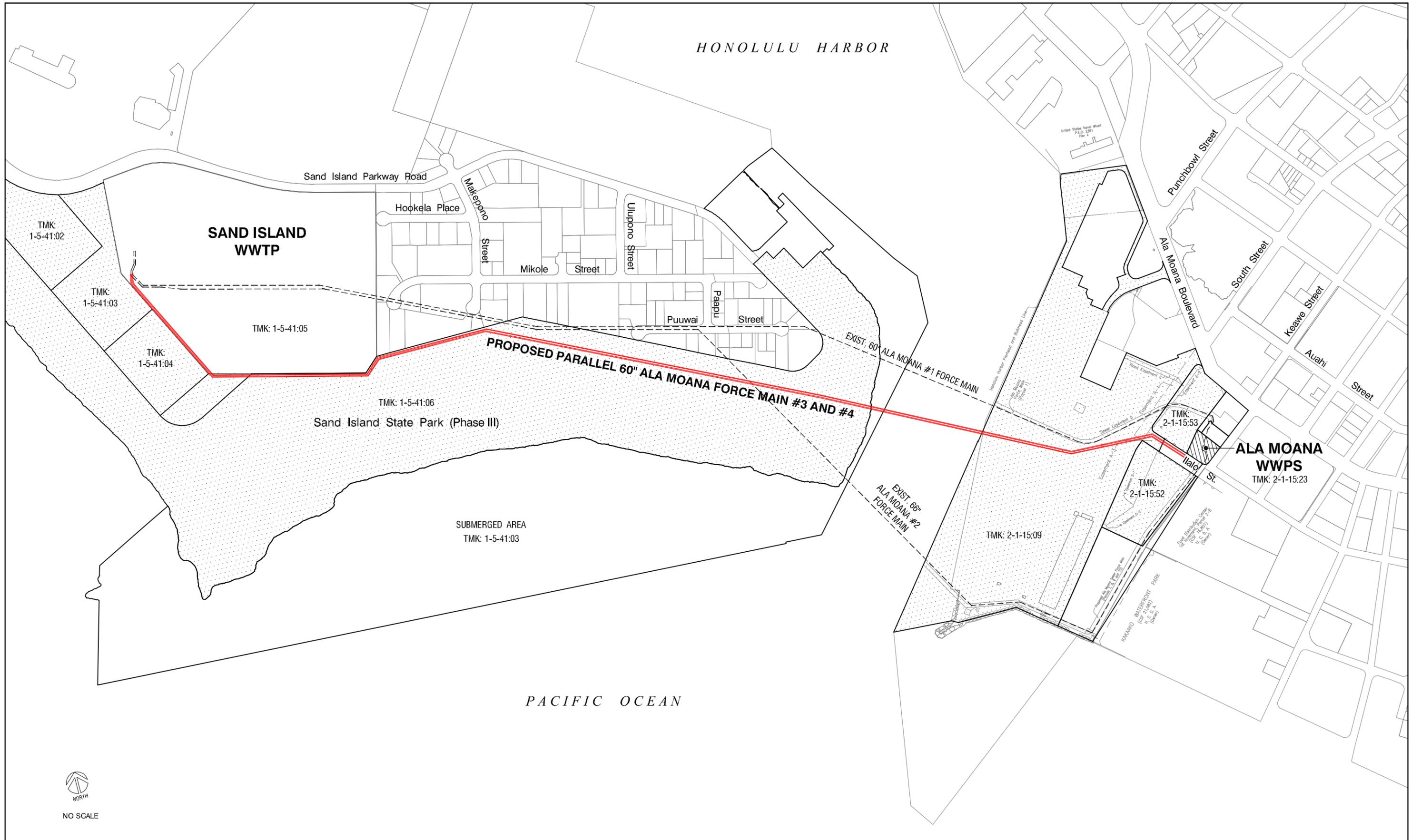
The proposed approximate alignment of the force mains and related parcel map are shown on **Figures 2-2 and 2-3**. Ala Moana WWPS is on TMK parcels 2-1-15:22 and 23. This land is



Ala Moana Force Main #3 and #4 Proposed Alignment

FIGURE 2-2

Ala Moana Pump Station Force Main #3 and #4



Ala Moana Force Main #3 and #4 Proposed Alignment - Parcel Map

owned by the State and is leased by the City. The proposed force main system will exit the Ala Moana WWPS near the intersection of Keawe Street and Ilalo Street and follow Ilalo Street (City Right of Way) to the intersection with Forrest Avenue. From Ilalo Street, the force mains will run through the DOT-Harbors Fort Armstrong container cargo terminal at Pier 1 (TMK 2-1-15:09), and cross Honolulu Harbor. The alignment will traverse the Sand Island State Recreational Area (TMK 1-5-41:6) to the Sand Island WWTP (TMK 1-5-41:5). The proposed alignment avoids HCDA property. The proposed alignment for the channel crossing was selected because the piles supporting Pier 1 were the shallowest in that area. The proposed force mains will be aligned under the piles at a sufficient depth to not interfere with the piles. If another alignment is selected, the proposed force mains may need to be deeper to avoid deeper piles, increasing difficulty of construction, risk, and cost. Coordination with DOT Harbors and State Parks will continue throughout design and construction.

## **2.4 LAND USE**

The WWPS side land alignment and harbor crossing, which is about one-third of the proposed alignment of the force mains, is within a highly urbanized area and requires careful consideration.

### Makai Area of the Kakaako Community Development District

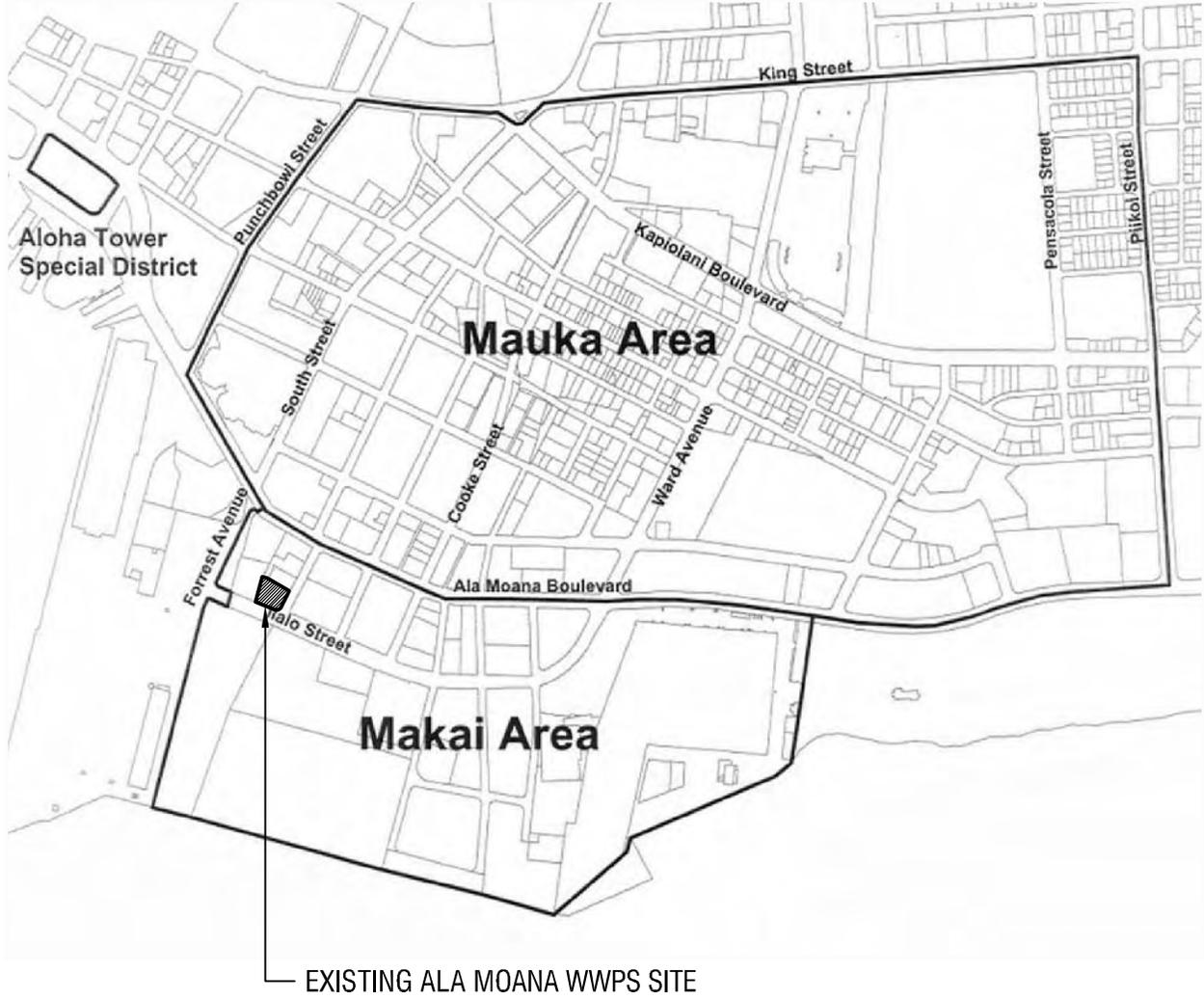
The area south of Ala Moana Boulevard to the shore, including Kewalo Basin and west to Forrest Avenue is the Makai Area of the Kakaako Community Development District. This area, depicted on **Figure 2-4**, is under the jurisdiction of the Hawaii Community Development Authority. The WWPS site and Ilalo Street are within the Kaakako Community Development District. The future Cancer Research Center of Hawaii is planned to be constructed in the area.

### Fort Armstrong (Pier 1)

The Fort Armstrong container cargo terminal at Pier 1 is used for overseas containers. Operations are currently limited by the available space, which is near capacity. However, DOT-Harbors anticipates that this will be alleviated because they are working towards relocating one of the users by the time FM #3 and #4 construction begins.

### Honolulu Harbor

According to the *Oahu Commercial Harbors 2020 Master Plan*, “It is said that 80 percent of everything Hawaii uses is imported and that 98.6 percent of these imported goods are shipped by sea. This statement underscores the importance of the port system to the State and its visitors...” The *Harbor Master Plan* further states that, “Honolulu Harbor not only continues to function as the hub of Port Hawaii, receiving, consolidating and distributing practically all overseas cargo shipments, but finds itself catering to passenger and fishing operations and distraught with countless requests for additional accommodations.” Honolulu Harbor is a life string for Hawaii, and is under the jurisdiction of the DOT, Harbors Division.



Kakaako Community Development District - July 2006

FIGURE 2-4

Ala Moana Pump Station Force Main #3 and #4

## Sand Island State Recreational Area

The Sand Island State Recreational Area is under the jurisdiction of the State Department of Land and Natural Resources, and is used for picnicking, camping, pleasure walking, shore fishing and board surfing.

### **2.5 PROPOSED CONSTRUCTION METHOD**

The construction methods for pipeline installation include open trench and trenchless methods. In general, open trench involves trenching from the ground surface, laying the pipe, backfilling, and then restoring the surface. Trenchless methods minimize ground surface disturbance, and require entry and exit pits or shafts at the beginning and end of the pipe segments.

#### **2.5.1 Ala Moana WWPS Portion: Land Alignment and Harbor Crossing**

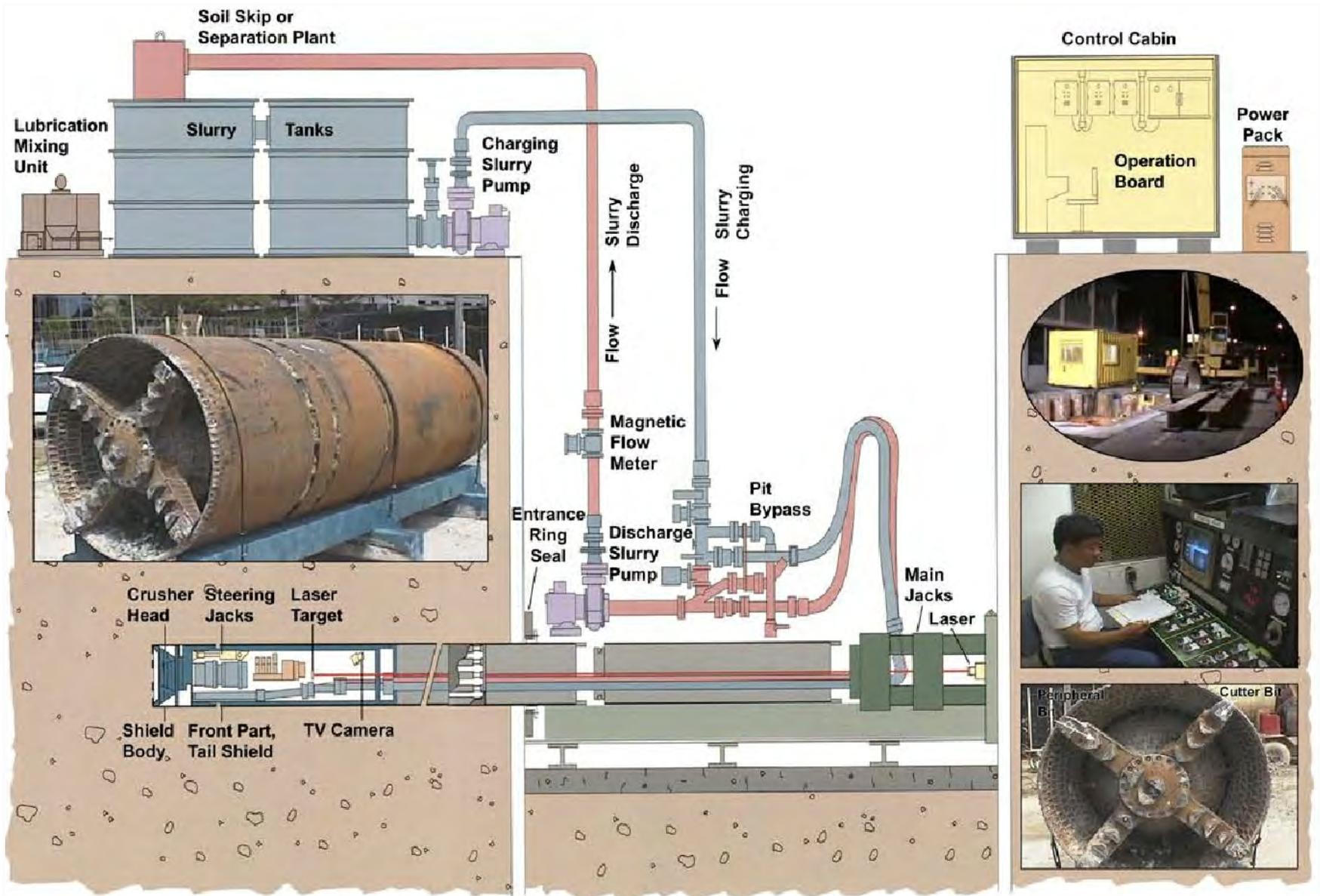
Due to the land use on the Ala Moana WWPS side land alignment and the underwater construction required for the harbor crossing, trenchless construction is the most favorable method for this segment of Ala Moana FM #3 and #4. The large pipe size required for FM #3 and #4 limits the feasible trenchless methods to microtunneling and conventional tunneling.

#### Microtunneling

Microtunneling is remote controlled pipe jacking using a laser-guided and steerable microtunnel boring machine (MTBM) without the need for man-entry into the pipe. Refer to **Figure 2-5**. A cutting and crusher head is pushed forward by a jacking unit. As the head moves forward, lengths of jacking pipe are pushed behind it to line the bored microtunnel. After installation of each pipe length, the jacking unit is retracted, a new length of pipe is connected to the previously installed pipe, and the jacking unit is reactivated. Excavated material is removed as the cutting head advances. This is accomplished with a slurry system which liquefies the excavated material into a slurry form for pumping to an above ground separation plant where the excavated spoils are removed and dewatered for disposal.

Microtunneling originated in Japan in the 1970's. "Straight" microtunneling has no curves and requires deep jacking and receiving shafts near the desired invert of the pipe. Recent advances in technology allows for curved microtunneling, which is similar to straight microtunneling, but uses more advanced guide and steering systems; and utilizes pipe joints for deflection to curve the pipe. Jacking and receiving shafts for curved microtunneling are not as deep because the pipe can be directed down to the desired invert. However, curved microtunneling is not viable for this project because the soils are too soft and cannot provide the resistance necessary to steer the MTBM.

Installation of FM #3 and #4 by straight microtunneling requires two shafts approximately 100 feet deep to install the force main below the pier piles and harbor mudline. The force mains will be approximately 25 feet below the harbor mudline. One deep shaft will be located in the SIRA and the other deep shaft will be located at the DOT-Harbors Pier 1. Three additional shafts,



Microtunneling Boring Machine

FIGURE 2-5

Ala Moana Pump Station Force Main #3 and #4

approximately 30 to 40 feet deep, also would be required. Two shallower shafts would be located in the SIRA and the other shallower shaft would be located near the intersection of Ilalo Street and Forrest Avenue, outside of DOT-Harbors property.

### Conventional Tunneling

Conventional Tunneling involves manned-entry tunneling with closed-faced earth pressure balanced (EPB) or slurry tunnel boring machine (TBM), with initial tunnel support provided by pre-cast segmental reinforced concrete liner. Installation of FM #3 and #4 by conventional tunneling requires two portals approximately 25 to 30 feet deep for entry and exit. This trenchless method is the slowest method.

### **2.5.2 Sand Island Portion**

The Sand Island Recreational Area to the WWTP segment of FM #3 and #4 may be installed by either open trench or trenchless construction methods, including microtunneling or conventional tunneling. Further evaluation of the options will be done during the design process.

## **2.6 PROJECT SCHEDULE**

Construction of Ala Moana FM #3 and #4 is expected to be completed by the end of 2014. To meet this construction completion deadline, the construction notice to proceed should be issued by January 2012.

## **2.7 CONSTRUCTION COSTS**

The estimated construction cost for the project is \$134 million. A more detailed cost estimate will be performed during design. Funding for the project will be provided by the City. Federal funds will not be used for this project.

## **SECTION 3**

### **Relationship to State and County Land Use Plans and Policies**

#### **3.1 HAWAII STATE PLAN**

The Hawaii State Plan, Chapter 226 of the Hawaii Revised Statutes, serves as a guide for the future long-range development of the State. The Plan, first adopted in 1978, identifies the goals, objectives, policies, and priorities for the State. The proposed project is in compliance with the applicable objectives and policies, which are listed below:

- §226-13 Objectives and policies for the physical environment--land, air, and water quality.
- (a)(1) Maintenance and pursuit of improved quality in Hawaii's land, air, and water resources.
  - (b)(3) Promote effective measures to achieve desired quality in Hawaii's surface, ground, and coastal waters.
- §226-14 Objective and policies for facility systems--in general.
- (a) Planning for the State's facility systems in general shall be directed towards achievement of the objective of water, transportation, waste disposal, and energy and telecommunication systems that support statewide social, economic, and physical objectives.
  - (b) To achieve the general facility systems objective, it shall be the policy of this State to:
    - (1) Accommodate the needs of Hawaii's people through coordination of facility systems and capital improvement priorities in consonance with state and county plans.
    - (2) Encourage flexibility in the design and development of facility systems to promote prudent use of resources and accommodate changing public demands and priorities.
    - (3) Ensure that required facility systems can be supported within resource capacities and at reasonable cost to the user.
    - (4) Pursue alternative methods of financing programs and projects and cost-saving techniques in the planning, construction, and maintenance of facility systems.
- §226-15 Objectives and policies for facility systems--solid and liquid wastes.
- (a) Planning for the State's facility systems with regard to solid and liquid wastes shall be directed towards the achievement of the following objectives:
    - (1) Maintenance of basic public health and sanitation standards relating to treatment and disposal of solid and liquid wastes.
    - (2) Provision of adequate sewerage facilities for physical and economic activities that alleviate problems in housing, employment, mobility, and other areas.
  - (b) To achieve solid and liquid waste objectives, it shall be the policy of this State to:
    - (1) Encourage the adequate development of sewerage facilities that complement planned growth.

#### **3.2 STATE LAND USE LAW**

The State Land Use Law, Chapter 205 of the Hawaii Revised Statutes, established the State Land Use Commission, which classifies all lands within the state into four land use districts: Urban, Rural, Agricultural and Conservation. The land portions of the project area are within the Urban District, and the area crossing the Main Channel of the Honolulu Harbor is within the Conservation District. Refer to **Figure 3-1**.

The Conservation District has five subzones administered by the State Department of Land and Natural Resources, Office of Conservation and Coastal Lands: Protective (most environmentally



sensitive), Limited, Resource, General (least environmentally sensitive) and Special (applied in special cases specifically to allow a unique land use on a specific site). All state marine waters are in the Resource Subzone. The proposed public purpose land use within the Conservation District requires a Conservation District Use Application Permit from the State Department of Land and Natural Resources, which requires approval from the Board of Land and Natural Resources.

### **3.3 KAKAAKO COMMUNITY DEVELOPMENT PLAN**

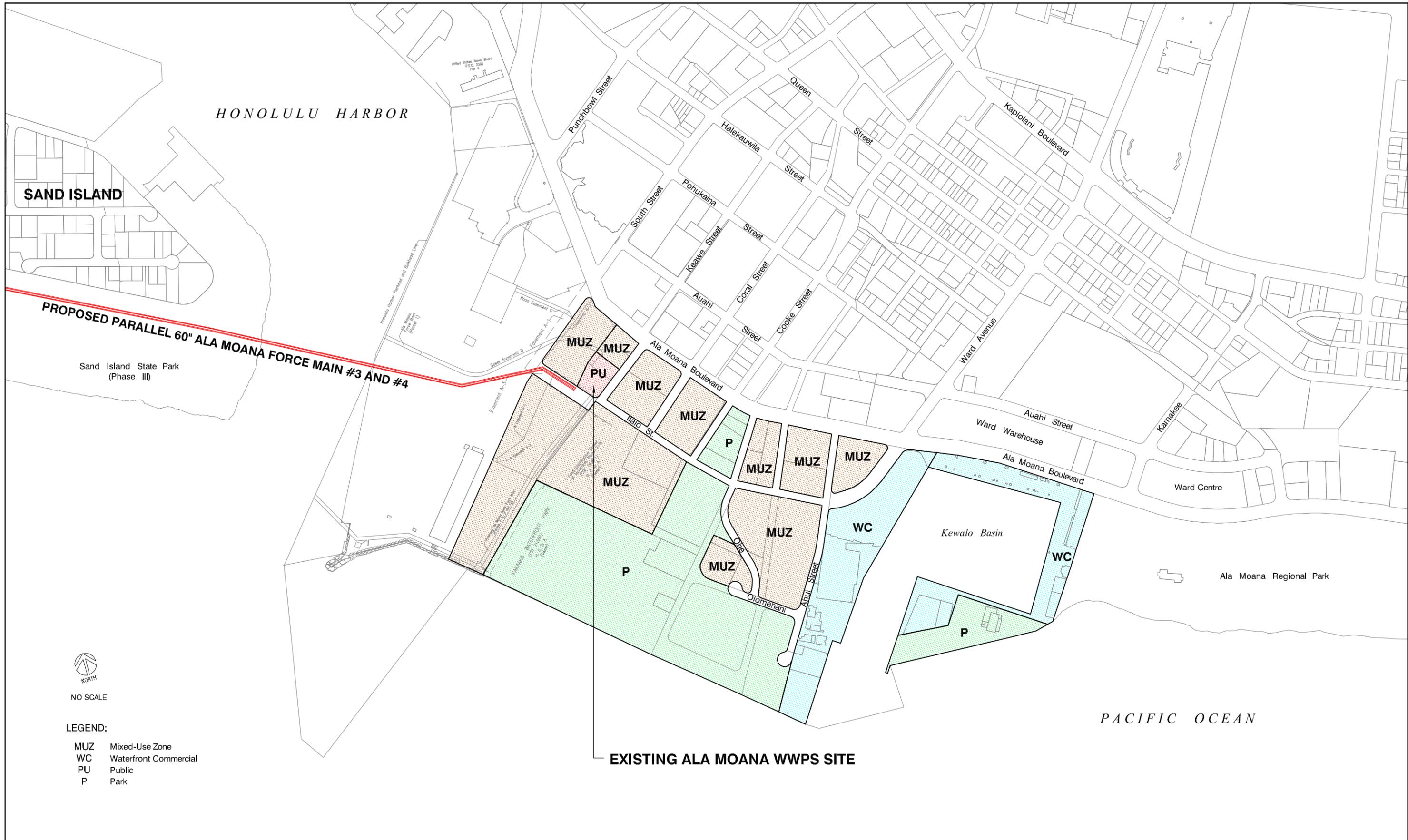
The State Legislature created the Hawaii Community Development Authority (HCDA) in 1976 to initiate and guide redevelopment and revitalization of underdeveloped urban communities. Kakaako was the first Community Development District designated. The Ala Moana WWPS and portion of the proposed project alignment to the end of Ilalo Street are within the Makai Area of the Kakaako Community Development District. The Makai Area boundary was depicted earlier in **Figure 2-4**. Work within the area will conform to the Kakaako Community Development District Rules for the Makai Area (Hawaii Administrative Rules, Title 15, Subtitle 4, Chapter 23), the Makai Area Plan and Design Guidelines. The Ala Moana WWPS is zoned as Public Use per the Kakaako Community Development District Makai Area Plan, as indicated in **Figure 3-2**. The proposed project requires a Makai Area Development Permit from HCDA.

### **3.4 CITY AND COUNTY OF HONOLULU GENERAL PLAN**

The General Plan sets forth the long-range objectives and policies for the general welfare and prosperity of the people of Oahu. The proposed project is in compliance with the applicable objectives and policies, which are listed below:

#### **TRANSPORTATION AND UTILITIES**

- Objective B:** To meet the needs of the people of Oahu for an adequate supply of water and for environmentally sound systems of waste disposal.
- Policy 5:** Provide safe, efficient, and environmentally sensitive waste-collection and waste-disposal services.
- Objective C:** To maintain a high level of service for all utilities.
- Policy 2:** Provide improvements to utilities in existing neighborhoods to reduce substandard conditions.
- Policy 3:** Plan for the timely and orderly expansion of utility systems.
- Objective D:** To maintain transportation and utility systems which will help Oahu continue to be a desirable place to live and visit.
- Policy 1:** Give primary emphasis in the capital improvement program to the maintenance and improvement of existing roads and utilities.



NO SCALE

**LEGEND:**

- MUZ Mixed-Use Zone
- WC Waterfront Commercial
- PU Public
- P Park

**EXISTING ALA MOANA WWPS SITE**

**Kakaako Makai Area Land Use Zones**

FIGURE 3-2

Ala Moana Pump Station Force Main #3 and #4

### **3.5 CITY AND COUNTY OF HONOLULU PRIMARY URBAN CENTER DEVELOPMENT PLAN**

Oahu is divided into eight planning areas, each of which has a Development Plan adopted by City Council ordinance. The development plans are more detailed than the General Plan, and specific to the region communities and neighborhoods. The proposed project area is addressed by the Primary Urban Center (PUC) Development Plan, adopted in June 2004.

The Primary Urban Center (PUC) Development Plan establishes policy for the shape and growth of PUC, including land use, transportation, infrastructure, and public utilities from Kahala to Pearl City. The proposed project is in compliance with the applicable policies, which are listed below:

- Implement wastewater collection system improvements to provide adequate service and sound facilities to existing neighborhoods and timely increase in system capacity to areas planned to undergo improvement or change in use.
- Implement adequate and timely upgrades/expansion of wastewater treatment facilities to meet the growth demands of the PUC.

### **3.6 CITY AND COUNTY ZONING**

The project area on Sand Island is zoned by the City and County of Honolulu, and the areas within the Kakaako Development District and State Conservation District are not zoned, as shown on **Figure 3-3**. The Sand Island Recreational Area is zoned as P-2, General Preservation District. The Sand Island WWTP site is zoned I-3, Waterfront Industrial District. A Zoning Waiver from the City and County of Honolulu Department of Planning and Permitting, Land Use Permits Division may be granted by the director for public utility installations and will be obtained.

### **3.7 COASTAL ZONE MANAGEMENT PROGRAM**

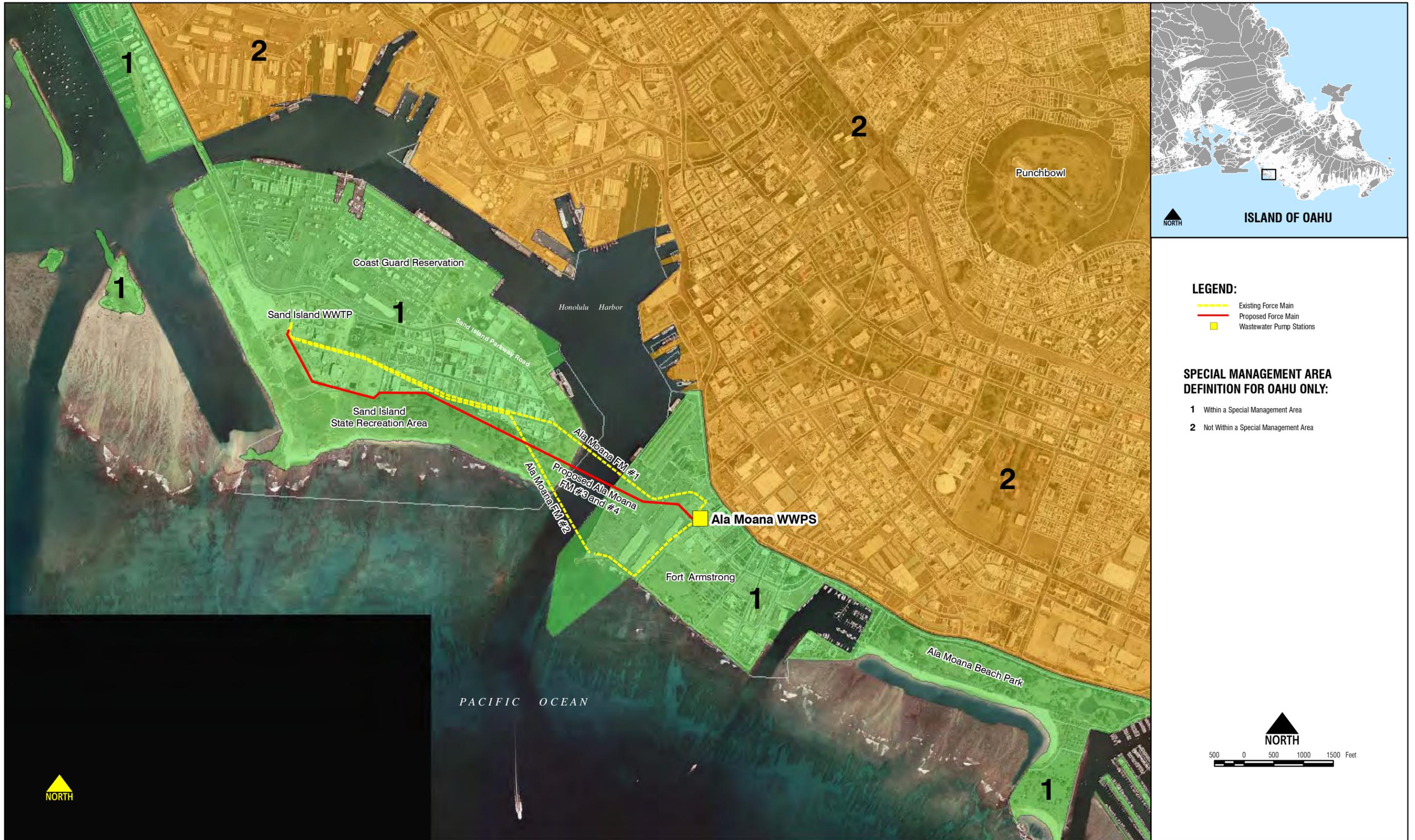
The Hawaii Coastal Zone Management (CZM) Program was enacted in 1977 by Chapter 205A, Hawaii Revised Statutes. This program was created to coordinate federal, state and county agency efforts in the comprehensive management of Hawaii's precious coastal resources. The Hawaii CZM Program is administered by the State Office of Planning. The four individual counties are responsible for administering the CZM program locally through the Special Management Area (SMA) Permit and Shoreline Setback. Within the Community Development Districts, such as Kakaako Community Development District, the State Office of Planning has the administrative authority to process the SMA Permit and Shoreline Setback. The proposed project area is within the SMA as indicated on **Figure 3-4**. There are two separate SMA permits for the proposed project. The SMA permit in the Sand Island Recreation Area is administered by the City Department of Planning and Permitting (DPP), Land Use Permits Division. The SMA permit in the Kakaako Makai Area is administered by the State Office of Planning.



County Zoning Map

FIGURE 3-3

Ala Moana Pump Station Force Main #3 and #4



Special Management Area Map

FIGURE 3-4

Ala Moana Pump Station Force Main #3 and #4

### **3.7.1 Special Management Area: SIRA**

The Special Management Area Permit in the SIRA is administered by the City and County of Honolulu DPP, Land Use Permits Division. The proposed force main system is not within an existing easement. Therefore, an SMA major permit will need to be obtained. This applies to the SMA for the Sand Island Recreation Area and separate from the SMA Permit requirements for the Kakaako Makai Area described below.

### **3.7.2 Special Management Area: Kakaako Makai Area**

Per Hawaii Administrative Rules (HAR), Chapter 15-150, an SMA Permit will be required for the work performed in the Kakaako Makai Area. This permit is administered by the State Office of Planning. This permit is separate from the SMA Permit administered by the City and County of Honolulu Department of Planning and Permitting, Land Use Permits Division, as described below.

### **3.7.3 Shoreline Setback**

HRS 13-222 defines the shoreline as “the upper reaches of the wash of the waves, other than storm and seismic waves, at high tide during the season of the year in which the highest wash of the waves occurs, usually evidenced by the edge of vegetation growth.” HRS 13-222 also states that “when a shoreline has been permanently altered by the development of a harbor, lagoon, marine, or other water facility, the shoreline shall be at the mouth of the harbor, lagoon, marina, or water facility.” The Shoreline Setback is generally located 40 feet inland from the shoreline, as shown in **Figure 3-5**. The project does not appear to be within the Shoreline Setback area. Confirmation will be obtained from the City and County of Honolulu Department of Planning and Permitting, Land Use Permits Division; and by the State Office of Planning for the Kakaako Community Development District. However, if it is determined the project is within the Shoreline Setback area, a variance will be pursued. Any proposed construction within the shoreline setback requires review and granting of a variance. In accordance with LUO Section 23-1.8(b)(2), the Director may grant a variance if the proposed construction meets the Public Interest Standard:

*Public Interest Standard. A variance may be granted for an activity or structure which is undertaken by a public agency or by a public utility regulated under HRS Chapter 269...; provided that the proposal is the practicable alternative which best conforms to the purpose of this chapter and the shoreline setback rules.*

*Public interest shall mean principally of benefit to the general public, as determined by the director.*

## **3.8 DEPARTMENT OF THE ARMY PERMIT**

The Department of the Army (DA) Permit is administered by the U.S. Army Corps of Engineers (COE), Honolulu District, whose primary mission is to protect United States aquatic resources.



Approximate Shoreline Area

FIGURE 3-5

Ala Moana Pump Station Force Main #3 and #4

Any work above, below, or within the waters of the United States requires a Department of the Army Permit. This is triggered by the proposed Ala Moana FM #3 and #4 crossing of Honolulu Harbor. The legislative authorities for which the COE is responsible to administer include the following:

- Section 10 of the Rivers and Harbors Act of 1899: any work in or over navigable waters of the United States, or which affects the course, location, condition or capacity of such waters.
- Section 404 of the Clean Water Act of 1977: discharge of dredged or fill material into the waters of the United States.
- Section 307 of the Coastal Zone Management Act of 1972: project must comply with approved State CZM program.
- Section 7 of the Endangered Species Act of 1973: action will not jeopardize the continued existence of any endangered or threatened species, or result in the destruction or adverse modification of their critical habitat.
- Section 106 of the National Historic Preservation Act: consider the effect of the undertaking on any district, site, building, structure, or object that is included in or eligible for inclusion in the National Register.
- Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972: Transportation of dredged material to be dumped in the ocean at disposal sites selected in accordance with EPA criteria.

This project will pursue a DA permit for the Harbor crossing.

### **3.9 DEPARTMENT OF HEALTH SECTION 401 WATER QUALITY CERTIFICATION**

Section 401 of the Clean Water Act is administered by the State of Hawaii, Department of Health (DOH) under Hawaii Administrative Rules, Chapter 11-54, Water Quality Standards. Honolulu Harbor is classified as Class A waters, to protect their use for recreational purposes and aesthetic enjoyment. A 401 Water Quality certification is only required if the COE deems it necessary during the Department of the Army permitting process.

### **3.10 HONOLULU WATERFRONT MASTER PLAN**

The Honolulu Waterfront Master Plan was prepared by the State of Hawaii, Office of Planning in 1989 to identify and articulate long-range vision for the Honolulu Waterfront, assure a logical and achievable phasing of improvements with minimal impacts to the environment and economy, and maximize public benefits associated with the State owned lands in the waterfront area. The Honolulu Waterfront Master Plan had planned a Parkway through SIRA along the same general alignment as the proposed force mains. However, the document is 20 years old and plans and priorities have changed, and the Parkway is no longer being planned.

## SECTION 4 Description of the Environment

### 4.1 CLIMATE

The climate in the general area is characterized by relatively constant temperatures, abundant sunshine, persistent trade winds, and moderate humidity. Average temperatures range from 73 degrees Fahrenheit (°F) in the winter to 81°F in the summer. Annual rainfall averages approximately 22 inches, with the majority of the rainfall occurring between the months of October and April. Tradewinds from the northeast prevail throughout most of the year, while occasional “Kona” winds from the south bring warm, humid air. Relative humidity ranges from 55 to 70 percent.

### 4.2 TOPOGRAPHY

The topography of the proposed Ala Moana FM #3 and #4 alignment is relatively flat ranging in elevation from 3 to 10 feet mean sea level.

### 4.3 SOILS

According to the *Soil Survey* issued in 1972 by the U.S. Department of Agriculture Soil Conservation Service (USDA-SCS), the soil throughout the proposed alignment is Fill Land, mixed (FL), as shown on **Figure 4-1**. This type of land occurs mostly near Pearl Harbor and in Honolulu, adjacent to the ocean. It consists of areas filled with material dredged from the ocean or hauled from nearby areas, garbage, and general material from other sources. This land type is used for urban development including airports, housing areas, and industrial facilities.

### 4.4 FLOOD

According to the Federal Flood Insurance Rate Map, the project area is categorized as Zone A, an area within the 100-year flood plain, and Zone X, areas determined to be outside of the 100-year flood plain. See **Figure 4-2**. Construction within Zone A requires approval by the City & County of Honolulu Department of Planning and Permitting (DPP). Per the City & County of Honolulu Land Use Ordinance, “the director may grant an exemption to utility lines based on the applicant’s satisfactory justification that no other alternative will better achieve the district’s purpose and objectives.” All applicable federal, state, and county requirements will be followed.

### 4.5 HAZARDOUS MATERIALS

A document review was performed by URS Corporation to identify areas where impacted soil and/or ground may be encountered in the project area. The following list summarizes the findings:



**LEGEND:**  
 - - - Existing Force Main  
 - - - Proposed Force Main  
 ■ Wastewater Pump Stations

**SOIL DEFINITION:**

- BS** Beaches
- EmA** Ewa silty clay loam, moderately shallow, 0-2 percent slopes
- FL** Fill land, mixed
- JaC** Jaucas sand, 0-15 percent slopes
- KaB** Kaena clay, 2-6 percent slopes
- K1B** Kawaihapai clay loam, 2-6 percent slopes
- K1aB** Kawaihapai stony clay loam, 2-6 percent slopes
- Mka** Makiki clay loam, 0-2 percent slopes
- rRK** Rock land
- TCC** Tantalus silty clay loam, 8-15 percent slopes
- TCE** Tantalus silty clay loam, 15-40 percent slopes
- W** Water > 40 acres

REFERENCE: Soil Survey of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii, United States Department of Agriculture, Soil Conservation Service, August 1972



- Ala Moana WWPS site: Low levels of lead in the groundwater were detected. However, lead is probably present within the fill material that was used to build the site and surrounding Kakaako area.
- Ilalo Street: No significant environmental impacts.
- Honolulu Harbor: Petroleum releases at the Coast Guard station have occurred. However, the site is approximately 2,000 feet north of the proposed force main and will not impact the project.
- Sand Island Recreation Area: Portions of the SIRA were previously used as an ash and trash dump.
- Sand Island WWTP: PCBs were previously detected. However, the levels were at low levels and were not migrating to the groundwater.

#### **4.6 MARINE ECOLOGY**

Alterations to the Harbor through dredge and fill operations have left little of the original biofauna intact. Generally, marine life is neither abundant nor diverse in most areas of Honolulu Harbor. The Harbor bottom is typically thick, unconsolidated sediments (mud) with occasional burrows, particularly in shallow water, and limited fish life. This substrate forms the habitat for burrowing worms, shrimp, and crabs. Most of the organisms common to the soft bottom areas are capable of rapid recolonization following disturbance. One major fish species inhabiting the mud bottom ecosystem is the juvenile hammerhead shark which feeds on mud-dwelling invertebrates.

#### **4.7 NOISE**

The two major sources of noise in the project area are from vehicular traffic and aircraft flying overhead. Of the two, aircraft noise levels have the greatest potential impact. Sand Island is in the path of tradewind aircraft departures, particularly from the Reef Runway of Honolulu International Airport (HIA), which lies approximately 8,000 feet from the end of the runway.

#### **4.8 AIR QUALITY**

Air quality in the vicinity of the project is primarily affected by emissions from vehicular, industrial, and natural sources. Air quality in the project area is considered acceptable due to the prevailing northeasterly tradewinds, which blow pollutants from inland areas out to sea. Problems of poor air quality are more likely to occur during “Kona” (southerly or southwesterly) wind conditions.

The Department of Health (DOH), Clear Air Branch, operates a network of air quality monitoring stations located at various sites around Oahu. Based on the data from the *Annual Summary of the 2007 Hawaii Air Quality Data*, both State and Federal ambient air quality standards are currently being met in the project vicinity.

#### **4.9 WATER QUALITY**

The waters of Honolulu Harbor are designated Class “A” by the State DOH. Class “A” waters are to be protected “for recreational purposes and aesthetic enjoyment.” According to the standards for this class, discharges are not permitted in Honolulu Harbor unless they have received the best degree of treatment or control compatible with the criteria established for this class of waters.

#### **4.10 TIDES AND CURRENTS**

The mean tide in Honolulu Harbor is 0.8 feet above Mean Lower Low Water (MLLW). The mean tidal range between MLLW and Mean Higher High Water (MHHW) is 1.9 feet. Historically, tides have ranged from a minimum of -1.4 feet to a maximum of 3.4 feet.

Currents and circulation in Honolulu Harbor are influenced by wind, freshwater influx, tidal direction, and shoreline configuration. Tidal currents are generally weak with no dominant direction.

#### **4.11 ARCHAEOLOGICAL RESOURCES**

A review of previous documents revealed no historic properties located in the project area. Based on consultation with State Parks, bunkers and a defense tower constructed during World War II are not listed with the Department of Land and Natural Resources (DLNR) State Historic Preservation Division (SHPD) as historic sites, but must be preserved. Therefore, work will be coordinated closely with State Parks, and the project alignment will be adjusted to avoid impacting these sites. SHPD was consulted and has found that the project will have “no effect to historic properties.”

#### **4.12 FLORA AND FAUNA**

The project site consists of urban environments providing little habitat for any terrestrial flora and fauna. Vegetation in the area is influenced by generally low rainfall, saline soil, the man-made origin of the area, and the high degree of development and human activity. Consequently, only a small variety of plant life can be found, which is characterized as drought resistant, highly salt tolerant, and hardy in dry areas. No Federal or State listed or candidate threatened or endangered plant species are currently found on any areas of the project area.

Wildlife in the project area is essentially limited to mammals and birds which have adapted to the urban environment. Mongoose, rats, mice, feral dogs, and cats are common. Most of the existing wildlife can be found in the under-utilized and more heavily vegetated areas of the island. No Federal or State listed or candidate threatened or endangered bird species are currently found in the project area.

#### **4.13 WETLANDS**

There are no wetlands identified within the immediate project area. See **Figure 4-3** for the wetlands identified in the vicinity.

#### **4.14 INFRASTRUCTURE**

##### **4.14.1 Roads**

Vehicular access to the Ala Moana WWPS is from Keawe Street. Vehicular access to the Sand Island State Recreation Area (SIRA) and the SIWWTP is from Sand Island Parkway. Vehicular access to Fort Armstrong is from Forrest Avenue. There is one bus route on Ilalo Street and Forrest Avenue. The proposed rail alignment is not along these roads.

HCDA is planning improvements to Forrest Avenue. If possible, this work will be coordinated with construction of the proposed force main system to minimize demolition and subsequent restoration of the improvements.

The HCDA Makai Area Plan includes transportation system improvements for cars, public transportation, bicycles, and pedestrians. Ilalo Street is proposed as the principal collector street for the Makai area and is planned to be extended from the present Ilalo Street-Forrest Avenue intersection to the existing Ala Moana Boulevard-Punchbowl Street intersection.

Forrest Avenue is currently owned by HCDA. Ilalo Street was dedicated to the City by HCDA. However, HCDA maintains the median along Ilalo Street. Ala Moana Boulevard and Sand Island Parkway are owned by the State.

##### **4.14.2 Water System**

Potable water is provided to the Ala Moana WWPS by a 4-inch lateral from an 8-inch Board of Water Supply (BWS) water line in Keawe Street. Daily water usage consists of sanitary fixtures, landscape irrigation, washdown and other maintenance purposes. Additional water is needed on an intermittent basis for wet well cleaning and maintenance of the odor control system.

Potable water is provided to Fort Armstrong by 6-inch and 12-inch BWS water lines. Daily water usage consists of sanitary fixtures, washdown, and other maintenance purposes.

Potable water is provided to the SIRA by a BWS water line located along Sand Island Parkway. Daily water usage consists of sanitary fixtures and landscape irrigation.

Potable water is provided to the SIWWTP through an 8-inch water line connected to a 16-inch water main located along Sand Island Parkway. Daily water usage consists of sanitary fixtures, landscape irrigation, washdown and other maintenance purposes.

There are wells in the vicinity of the project location on Sand Island. These wells are located in the industrial area adjacent to SIRA and are unused or brackish water wells and will not be affected by the project.



Wetlands Map

FIGURE 4-3

Ala Moana Pump Station Force Main #3 and #4

#### **4.14.3 Electrical Service**

Electrical power is provided to the Ala Moana WWPS by Hawaiian Electric Company (HECO) overhead service lines along Keawe Street. Pad-mounted transformers step down HECO's 11.5 kV power to 480/277 V power. In the event of a commercial power outage, emergency generators will start and essential loads automatically transfer to emergency power.

Electrical power is provided to Fort Armstrong by Hawaiian Electric Company (HECO) overhead service lines. Pad-mounted transformers step down HECO's 11.5 kV power.

Electrical power is provided to SIWWTP by two underground 11.5 kV HECO feeders. Pad-mounted transformers step down HECO's 11.5 kV power to 480/277 V power. In the event of a commercial power outage, emergency generators will start and essential loads automatically transfer to emergency power.

#### **4.14.4 Gas Lines**

There are no gas lines serving the Ala Moana WWPS, Fort Armstrong, SIRA, or SIWWTP. However, there are gas lines along Ilalo Street, Keawe Street, and Ala Moana Boulevard.

## SECTION 5 Alternatives to Proposed Action

### 5.1 NO ACTION

“No action” is not considered a feasible alternative. The existing system does not have sufficient backup capacity to convey peak wet weather flows. Furthermore, the City has agreed to a stipulated order with the EPA and DOH requiring the City to install a backup force main.

### 5.2 REHABILITATION OF THE EXISTING FORCE MAINS

The capacity of the existing Ala Moana WWPS Force Main #1 is limited by the pressure limitation. However, according to the *Technical Memorandum – Task R04: FM #1 Full Field Investigation and Task R05: FM #1 Structural Evaluation* (R.M. Towill Corporation, Rev. 2, July 5, 2002), rehabilitation of the sub-aqueous portion of FM #1 to improve its pressure rating is not recommended due to the possibility of catastrophic events such as dewatering system failure or a slipliner getting stuck under the harbor entrance requiring a dredge type excavation and blocking the harbor. Therefore, this is not an acceptable alternative.

### 5.3 INSTALLATION METHOD

Viable installation methods considered other than the proposed straight microtunneling methods include horizontal directional drilling and curved microtunneling.

#### 5.3.1 Horizontal Directional Drilling (HDD)

Horizontal Directional Drilling (HDD) is typically a preferred method of construction of pipelines and was evaluated extensively because it is usually the safest and fastest, and seemingly most cost-effective trenchless construction method. Due to the depth the force mains will be installed underwater, the pipe walls need to have sufficient strength to withstand the hydrostatic pressure, as well as the pull through the drilled hole. Therefore, the size of the pipes that can be installed via HDD is limited, which will require more pipes. Six (6) 36-inch conduits are required to convey the peak wet weather design flow. The corresponding easement width would be a minimum of 145 feet, and the valving on the six (6) force mains would be extensive.

There is some risk of impact to the pier piles if excessive material is removed under the pile tips. However, subsequent to the Hart Street WWPS Force Main Replacement project, it is understood that DOT-Harbors will not allow underpinning of the pier piles to address this risk.

The proposed force main system would be over 60 feet below the ground surface beyond Forrest Avenue and within the DOT-Harbors container yard, if constructed by HDD. Options were considered to protect the pipe and minimize construction restrictions above the proposed force main alignment around the pier. A possible option might be to install a large jet grouted ground mass along a segment of the alignment. It is anticipated that the easement beyond Forrest Avenue would not need to provide for surface access to the proposed force mains due to the

great depth, but rather to provide parameters for construction above and near the proposed force main system alignment to ensure future piles are not located near the force mains. Significant effort and challenges are anticipated to obtain the necessary permits; and jet grouting will cause disruption of pier operations which may be unacceptable to DOT-Harbors. Due to the factors presented, HDD is not recommended for this installation.

### **5.3.2 Curved Microtunneling**

Curved microtunneling is similar to straight microtunneling, but uses more advanced guide and steering systems; and utilizes pipe joints for deflection to curve the pipe. With the advancement of curved microtunneling, curved microtunneling is preferred over straight microtunneling because it would require shallower shafts. However, curved microtunneling is not viable for this project due to the presence of very soft marine sediments. These soft soils do not provide sufficient support for the microtunneling machine to turn, making curved microtunneling very difficult without substantial ground improvement measures such as jet grouting. However, grouting the soil is not recommended due to the time, money, potential disruption to harbor activity, and associated permitting requirements.

## **SECTION 6**

### **Impacts and Mitigation Measures**

#### **6.1 SHORT TERM CONSTRUCTION IMPACTS**

The primary impacts of the proposed action would occur during construction. Compounding the construction difficulties are the location of the proposed alignment through a busy pier container yard which is vital to commercial shipping for Hawaii, the need to cross the main harbor channel with marine vessel traffic, and disruption of the public at SIRA.

Installation of the proposed force main system across the harbor channel could detrimentally impact harbor operations and water quality. Therefore, alternative construction methods were examined to minimize potential disruptions to the harbor channel and water related activities. Trenchless technologies were explored as part of the preliminary engineering analysis.

#### **6.2 NOISE**

Installation of the proposed force main system may require machinery that generates a significant amount of noise. Microtunneling will involve specialized equipment which would also be covered by the noise permits. The subsurface nature of the tunneling work will significantly reduce noise impacts in the surrounding area.

In general, noise impacts are not expected to be of significant concern on the Fort Armstrong and Ala Moana WWPS side of the harbor, due to the industrial nature of the surrounding area. There are camping areas in the vicinity of the work within SIRA. Noise from construction activities may disturb campers in the area.

Mitigative Measures: Since noise levels generated by construction activity are anticipated to exceed allowable limits, a noise variance permit must be obtained from DOH.. Project activities shall comply with the Hawaii Administrative Rules of the Department of Health, Chapter 11-46, Community Noise Control.

Construction activities on Sand Island will be limited at night to minimize disruption to campers. If possible, alternate camping sites that are further from the construction site may be made available. This must be coordinated closely with State Parks.

#### **6.3 AIR QUALITY**

Construction on the land portions of the project corridor may temporarily degrade ambient air quality due to fugitive dust during trenching and tunneling. In addition, emissions from construction equipment and vehicles may slightly impact air quality in the area. Under normal tradewind conditions, dust and fumes will be dispersed away from the project site toward the ocean.

Mitigative Measures: The short-term effects on air quality during construction will be mitigated by compliance with the DOH rules on air pollution control. Control measures anticipated to reduce fugitive dust include frequent wetting down of loose soil areas with water, covering of dirt-hauling trucks, and utilization of dust screens.

#### **6.4 WATER QUALITY**

If microtunneling is used for the channel crossing, significant water quality impacts will be largely avoided since no active trenching or construction will occur in the water. Excavated material will be hauled off-site to a site selected by the contractor. A lined and/or bermed sedimentation basin will be used off-site to dry out the excavated material for re-use. If suitable, the excavated material can be used to backfill the shafts or trenches. Excavated materials not suitable for reuse will be disposed of at a site selected by the Contractor. Excavated material will not be discharged back into coastal waters.

If conventional open trenching methods are used to install the proposed force main system on the Sand Island side, dewatering of the excavated materials is likely. Water that is discharged into any drainage system or coastal waters must be treated. If the water is placed back in the trench, no treatment is required.

Mitigative Measures: Prior to construction, full compliance with State water quality requirements will be sought. Construction dewatering permits will be required by the City and County of Honolulu Department of Design and Construction and DOH pursuant to City Ordinance and Section 11-5-23.08(b) of the Hawaii Administrative Rules, respectively.

As part of the anticipated National Pollutant Discharge Elimination System Permit, water quality sampling and analyses will be undertaken for potential contaminants which may be anticipated. An effluent discharge control plan will be prepared incorporating Best Management Practices (BMP) plans, appropriate structural or non-structural mitigative methods such as containment berms and filtration or detention ponds which would control the discharge of erosion, stormwater runoff, and effluent resulting from construction and dewatering activities. The trucks used to haul excavated material will be lined to prevent leakage during transit. The contractor shall implement a monitoring program for leaks or debris falling from the trucks.

#### **6.5 HAZARDOUS MATERIALS**

There do not appear to be any hazardous materials of environmental impact within the project area. However, soils should be tested prior to reuse or disposal. Any waste generated will be handled in accordance with State solid waste disposal laws.

Mitigative Measures: All appropriate worker protection procedures should be implemented. This includes wearing proper personal protective equipment, dust and runoff controls, and soil and groundwater handling and disposal procedures. A contingency plan should be implemented to address any contaminated soil or groundwater that may be encountered during excavation activities. A soil management plan should be implemented if petroleum impacted soils are

encountered. If ash is encountered during construction, it should be tested for hazardous wastes. If encountered, all appropriate measures will be taken while handling any hazardous waste. In the event that underground storage tanks (USTs) are discovered, all appropriate measures will be followed to comply with state UST closure requirements.

## **6.6 FLORA AND FAUNA**

Construction activities may displace flora and fauna at the site. However, because the area is highly developed, disturbance of any flora or fauna is unlikely. There are no Federal or State listed endangered species on the site which would be impacted.

## **6.7 MARINE HABITATS**

Since microtunneling is planned for the channel crossing, significant impacts to marine habitats are not anticipated. Microtunneling will not disturb the channel bottom. Existing harbor activities, including tugboats and ships, already generate significant turbidity plumes.

Mitigation Measures: Excavated material will be hauled off-site to a site selected by the contractor. A lined and/or bermed sedimentation basin will be used off-site to dry out the excavated material for re-use. The trucks used to haul excavated material will be lined to prevent leakage during transit. Excavated material will not be discharged back into coastal waters.

## **6.8 ARCHAEOLOGICAL RESOURCES**

A review of previous documents revealed no historic properties located in the project area and concurrence by SHPD obtained. Based on these findings, further archaeological investigations are not required and monitoring during construction is not justified.

Mitigative Measures: In the unlikely event that subsurface archaeological materials are encountered during construction, work shall cease in the immediate area and the State Historic Preservation Division of the Department of Land and Natural Resources will be notified. Per consultation with State Parks, bunkers and defense towers constructed during World War II are not listed with DLNR, SHPD as historic sites, but must be preserved. Therefore, work will be coordinated closely with State Parks, and the project alignment will avoid impacting these sites.

## **6.9 FLOOD AND COASTAL HAZARDS**

The portion of the proposed force main system located in the SIRA is in flood zone A. The proposed force main system will be installed underground and will not be impacted by flooding or sea level rise. During construction, in the event of a tsunami, earthquake or other natural disaster, the contractor will have an evacuation plan to ensure the safety of all workers.

## **6.10 TRAFFIC**

### **6.10.1 Vehicular Traffic**

Construction activities will adversely affect vehicular traffic in the vicinity of the pipe installation work. This includes Ilalo Street, DOT Harbors Fort Armstrong container yard storage and movements, and SIRA. A traffic control plan will be prepared as part of the design process and construction work will be coordinated with DOT Harbors and State Parks to minimize traffic impacts. If oversized equipment or loads, or storage of equipment or materials are required, all appropriate permits will be obtained from DOT Highways and State Parks.

Mitigative Measures: A program to monitor leakage or falling debris from trucks shall be implemented. A copy of the program shall be submitted to DOT Highways prior to the start of construction.

### **6.10.2 Harbor Traffic**

Impacts to harbor traffic are expected to be minimal. No in-water work is expected with microtunneling. Construction work within Fort Armstrong shall be coordinated with DOT Harbors to minimize impacts to harbor traffic.

## **6.11 UTILITIES**

Numerous utilities traverse the project corridor. Utility companies shall be consulted during design to minimize conflicts and disruptions to their service. Prior to construction, all existing utility lines along and in proximity to the proposed force main system alignment will be identified and their depths located to avoid damaging them.

## **6.12 SOCIO-ECONOMIC**

Businesses along the proposed alignment may be disturbed during construction because of noise, fugitive dust, and vehicular access restrictions or detours. No businesses will be displaced as a result of the pipe installation work.

Mitigative Measures: To avoid major disruptions of businesses, the contractor shall coordinate the construction schedule with businesses in the project area to minimize construction impacts and expedite the work schedule. Furthermore, the contractor shall give ample notification to businesses in the area when construction will occur. Following construction work, the area will be restored to original condition at a minimum.

## **6.13 SAND ISLAND RECREATION AREA AND RECREATIONAL RESOURCES**

Facilities in the Sand Island Recreation Area may be affected during construction. Some of the facilities that may be affected by construction activities include, but are not exclusive to: campsites, marker tables, walking pathways, irrigation systems, paved parking areas and roadways, utilities, and boundary fencing.

Mitigative Measures: Alternate sites may be developed for displaced campsites or marker tables. Any facilities affected or damaged during construction shall be replaced and restored to better than existing condition. Replacement facilities shall meet all necessary requirements, including accessibility. Mitigative measures at SIRA shall be coordinated with State Parks.

#### **6.14 SCENIC AND OPEN SPACE RESOURCES**

The proposed force main system will be underground and will not affect any scenic or open space resources.

#### **6.15 LONG TERM WATER QUALITY IMPACTS**

Construction of Force Mains #3 and #4 will reduce the chance of a sewage spill. Therefore, the long term impacts of the proposed force main system will be beneficial to the water quality of the Harbor.

#### **6.16 LONG TERM MARINE HABITAT IMPACTS**

Construction of Force Mains #3 and #4 will reduce the chance of a sewage spill. Therefore, the long term impacts of the proposed force main system will be beneficial to the marine habitat of the Harbor.

#### **6.17 LONG TERM SOCIO-ECONOMIC IMPACTS**

The proposed force main system will accommodate projected flows to the year 2065. This will provide adequate infrastructure to support population and economic growth in the Honolulu area.

## SECTION 7 Determination

The potential effects of the proposed project are evaluated based on the significance criteria identified in the Hawaii Administrative Rules, Section 11-200-12. The following is a summary of the potential effects of the project.

- 1) *Involves an irrevocable commitment to loss or destruction of any natural or cultural resource.*

The project will not involve an irrevocable commitment to loss or destruction of any natural or cultural resource.

- 2) *Curtails the range of beneficial uses of the environment.*

The project will not permanently curtail the beneficial uses of the environment.

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

The project will be in conformance with chapter 344, HRS. The proposed project will improve force main reliability and reduce the risk of future wastewater spills.

- 4) *Substantially affects the economic or social welfare of the community or state.*

The project is not anticipated to have significant effects on the economic and social welfare of the community or state.

- 5) *Substantially affects public health.*

The project will improve force main reliability and is not anticipated to have any adverse effects on public health. It will have a positive impact on public health by reducing the risk of future wastewater spills.

- 6) *Involves substantial secondary impacts, such as population changes or effects on public facilities.*

The project is not anticipated to result in substantial secondary impacts.

- 7) *Involves a substantial degradation of environmental quality.*

The project is not anticipated to involve degradation of environmental quality.

- 8) *Is individually limited but cumulatively has considerable effect upon the environment or involves a commitment for larger actions.*

The project is not anticipated to result in cumulative effects.

- 9) *Substantially affects a rare, threatened, or endangered species, or its habitat.*

The project is not anticipated to affect any rare, threatened, or endangered species or habitat.

- 10) *Detrimentially affects air or water quality or ambient noise levels.*

The project is not anticipated to affect long term air quality, water quality, or ambient noise levels.

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

The project is located within the Special Management Area and crosses the Honolulu Harbor. However, the proposed force main system will be located underground and is not anticipated to be impacted by a tsunami. Best management practices will be used during construction to minimize any impacts on coastal waters.

- 12) *Substantially affects scenic vistas and viewplanes identified in county or state plans or studies.*

The project will not affect any scenic vistas or view planes.

- 13) *Requires substantial energy consumption.*

The project will not require substantial energy consumption. The proposed force mains will utilize the existing power source at the pump stations.

This environmental assessment has determined that the project will not have significant adverse impacts to the natural, built, or social environment. Therefore, it is determined that an Environmental Impact Statement (EIS) is not required and a Finding of No Significant Impact (FONSI) is issued for this project.

## **SECTION 8 Permits and Approvals**

### **8.1 CITY AND COUNTY OF HONOLULU**

The following permits are required by the City and County of Honolulu:

- Shoreline Setback Variance: Department of Planning and Permitting, Land Use Division (confirmation not in shoreline setback)
- Street Usage Permit: Department of Transportation Services
- Special Management Area
- Flood Zone Variance: Department of Planning and Permitting, Land Use Division
- Zoning Waiver: Department of Planning and Permitting, Land Use Division
- Street Usage Permit: Department of Transportation Services
- Grading, Grubbing, Excavation, & Stockpiling Permits: Department of Design and Construction
- Dewatering Permit: Department of Design and Construction

The following approvals are required by the City and County of Honolulu:

- Board of Water Supply
- Traffic Control Plan: Department of Transportation Services

### **8.2 STATE OF HAWAII**

The following permits are required by the State of Hawaii:

- Shoreline Setback Variance: Office of State Planning (confirmation not in shoreline setback)
- NPDES Permit for Construction Related Discharges: Department of Health
- Conservation District User Permit: Department of Land and Natural Resources
- Kakaako District Special Management Area Permit: State Office of Planning
- Makai Area Development Permit: Hawaii Community Development Authority
- Community Noise Control: Department of Health

The following approvals/reviews are required by the State of Hawaii:

- Wastewater Systems: Department of Health
- Air Pollution Control: Department of Health

### **8.3 FEDERAL AGENCIES**

The following permits are required by the Federal Government:

- Department of the Army Permit, Section 10: Army Corps of Engineers

#### **8.4 APPROVALS RECEIVED**

The following approvals have been received:

- National Park Service: Granted a 2-year construction period and utility easement for maintenance
- Department of Land and Natural Resources, State Historic Preservation Department: No effect on historic properties

**SECTION 9**  
**Consulted Parties**

**9.1 PRE-ENVIRONMENTAL ASSESSMENT AND DRAFT ENVIRONMENTAL ASSESSMENT**

Pre-environmental assessment and draft environmental assessment comments were solicited from government agencies and other organizations listed below.

**City and County of Honolulu**

Board of Water Supply  
Department of Planning and Permitting  
Department of Transportation Services

**State of Hawaii**

Aloha Tower Development Corporation  
Department of Land and Natural Resources  
Department of Health  
    Clean Air Branch  
    Clean Water Branch  
    Environmental Health Administration  
    Solid and Hazardous Waste Branch  
    Wastewater Branch  
Department of Hawaiian Homelands  
Department of Business, Economic Development, & Tourism  
Department of Transportation  
    Highways Division  
    Harbors Division  
Authority in the Hawaii Community Development Association  
Office of Hawaiian Affairs  
Office of Planning  
University of Hawaii, Manoa  
    Environmental Research Center  
    Water Resource Research Center  
    Marine Center

**Federal Agencies**

USDA Natural Resource Conservation Service  
U.S. Department of Interior, Fish and Wildlife Service  
U.S. Army Corps of Engineers  
U.S. Coast Guard

**Utility Companies**

Gas Company

Hawaiian Electric Company

Hawaiian Telcom

**Private Organizations**

Aloha Cargo Transport

Hawaii Stevedores, Inc.

Inchcape Shipping

Matson Navigation Company, Inc.

## **SECTION 10**

### **References**

Analytical Planning Consultants, Inc. *FEA Sand Island Wastewater Treatment Plant New In-Vessel Bioconversion Facility*. Prepared for the City and County of Honolulu, Department of Environmental Services. April 2003.

City & County of Honolulu, Department of Land Utilization. *Land Use Ordinance*.

City & County of Honolulu. *Development Plan*.

City & County of Honolulu. *General Plan*.

City & County of Honolulu. *Primary Urban Center Development Plan*.

Fukunaga & Associates, Inc. *Ala Moana Wastewater Pump Station Force Main #3 Revised Technical Approach*. Prepared for the City and County of Honolulu, Department of Design and Construction, November 2007.

Helber, Hastert & Kimura, Planners and R.M. Towill Corporation. *Honolulu Waterfront Master Plan*. Prepared for State of Hawaii, Office of State Planning. October 1989.

Oahu Metropolitan Planning Organization. *Congestion Management Process, State of Congestion on Oahu*. December 2006.

R.M. Towill Corporation, *Preliminary Route Alternatives Report, Ala Moana Wastewater Pump Station Force Main Modifications: New force Main No. 3*. Prepared for the City and County of Honolulu, Department of Design and Construction, January 2007.

R.M. Towill Corporation, *FEA Ala Moana Wastewater Pump Station (WWPS) Modification*. Prepared for the City and County of Honolulu, Department of Design and Construction, 2001.

State of Hawaii, Hawaii Community Development Authority. *Kakaako Community Development District Makai Area Plan*. October 2005.

State of Hawaii. *Hawaii Administrative Rules*.

State of Hawaii. *Hawaii Revised Statutes*.

United States Department of Agriculture Soil Conservation Service. *Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii*. August 1972.

Wilson Okamoto and Associates, Inc. *Hart Street Wastewater Pump Station Force Main Replacement FEA*. Prepared for the City and County of Honolulu, Department of Wastewater Mangement, 1996.

## **APPENDIX A**

# **PRE-ENVIRONMENTAL ASSESSMENT COMMENTS AND RESPONSES**

LINDA LINGLE  
GOVERNOR OF HAWAII



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
STATE HISTORIC PRESERVATION DIVISION  
601 KAMOKILA BOULEVARD, ROOM 555  
KAPOLEI, HAWAII 96707

February 23, 2009

Ms. Lynn Malingier  
1388 Kapi'olani Blvd, 2<sup>nd</sup> floor  
Honolulu, Hawai'i 96814

Dear Ms. Malingier:

**SUBJECT: Chapter 6E-8 Historic Preservation Review—  
Ala Moana Pump Station Force Main #3,  
Kona Ahupua'a, Honolulu District, Island of O'ahu, Hawai'i  
TMK (1) 2-1-15:22 and 23; 2-1-15: 09; 1-5-41:005 and 006**

Thank you for providing the opportunity for us to review the aforementioned project which we received on February 3, 2009. This project is the construction of a new wastewater force main system to supplement the existing force main capacity, and ensure adequate backup force main capacity serving the Ala Moana Wastewater Pump Stations #1 and #2. Construction consists of two 60-inch parallel pipes launched from a preexisting jacking shaft at Fort Armstrong and traversing the channel under Honolulu Harbor through Sand Island State Park to the Sand Island wastewater treatment plant.

This current submission and previous consultation with this office found that there would be **no effect to historic properties** (LOG NO: 26499/DOC NO: 0011EJ07, LOG NO: 21043/DOC NO: 9802EJ06, LOG NO: 27043/DOC NO: 0102EJ15).

Please contact Wendy Tolleson at (808) 692-8024 if you have any questions or concerns regarding this letter.

Aloha,

*Nancy A. McMahon*  
Nancy A. McMahon (Deputy SHPO)  
State Historic Preservation Officer

C. Mr. Carl Arakaki  
City and County of Honolulu  
Department of Design and Construction  
Wastewater Division  
Planning Branch  
650 South King Street, 14<sup>th</sup> floor  
Honolulu, Hawai'i 96814

LINDA LINGLE  
GOVERNOR OF HAWAII



STATE OF HAWAII  
DEPARTMENT OF HEALTH  
P.O. BOX 5376  
HONOLULU, HAWAII 96804-3378

March 02, 2009

TO: Mr. Wynn Miyamoto  
Fukunaga & Associates, Inc.

FROM: Russell S. Takata, Program Manager  
Indoor and Radiological Health Branch

SUBJECT: **Pre-Assessment Consultation for Draft Environmental Assessment  
Ala Moana Wastewater Pump Station Force Main #3**

Our comments should be printed as follows:

"Project activities shall comply with the Administrative Rules of the Department of Health:

- Chapter 11-46 Community Noise Control.

Should there be any questions, please contact me at 586-4701.

CHRYONE L. FUKUNO, M.D.  
DIRECTOR OF HEALTH

In reply, please refer to:  
File #



HAWAII COMMUNITY DEVELOPMENT AUTHORITY



KAKAOKO  
KALAELOA

Linda Lingle  
Governor

Jonathan W. Y. Lai  
Chairperson

Anthony J. H. Ching  
Executive Director

677 Ala Moana Boulevard  
Suite 1001  
Honolulu, Hawaii  
96813

Telephone  
(808) 587-2870

Facsimile  
(808) 587-8150

E-Mail  
contact@hcdaweb.org

Web site  
www.hcdaweb.org

Ref. No.: ENGR 2.6.24

March 3, 2009

Mr. Wynn Miyamoto  
Fukunaga & Associates, Inc.  
1388 Kapiolani Boulevard, 2nd Floor  
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

Re: Pre-Assessment Consultation for Draft Environmental Assessment  
for Ala Moana Wastewater Pump Station Force Main #3

Thank you for sharing the pre-assessment consultation documents with the Hawaii Community Development Authority ("HCDA"). We have reviewed the materials and offer the following comments:

1. We support the Force Main #3 alignment along Ilalo Street. However, Ilalo Street and Forrest Avenue are heavily used by traffic getting out of Kakaako Makai as well as the container yard. Therefore, we suggest that traffic issues be analyzed adequately before finalizing the locations of the jacking shafts along Ilalo Street.
2. As indicated in the proposed alignment drawing, it appears that there will be two separate easements for Force Main #1 and Force Main #3. We recommend that the alignment of Force Main #3 be as close as possible to Force Main #1 to minimize the easement required for both alignments.

We request that you keep HCDA informed on the progress of this project.

Sincerely,

  
Anthony J. H. Ching  
Executive Director

AJHC/DN:ak

LINDA LINGLE  
GOVERNOR OF HAWAII



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

March 4, 2009

Mr. Wynn Miyamoto  
Fukunaga & Associates, Inc.  
1388 Kapiolani Blvd. 2<sup>nd</sup> Floor  
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

Subject: Pre-Assessment Consultation For Draft Environmental Assessment (EA)  
for Ala Moana Wastewater Pump Station Force Main # 3  
Honolulu, Oahu, Hawaii (approx. TMK (1) 2-1-015: 043 & 044)

Thank you for allowing us the opportunity to review the above subject project which proposes the construction of a new wastewater force main system to supplement the existing force main capacity and ensure adequate backup force main capacity serving the Ala Moana Wastewater Pump Stations. We have the following comments and information on the above subject property:

We are always in favor of construction that will improve or update our existing wastewater systems to treat and dispose of domestic wastewater in a proper and feasible way. We have no concerns at this time and offer our approval of the project.

Should you have any questions, please contact the Planning & Design Section of the Wastewater Branch at 586-4294.

Sincerely,

  
TOMAS S. SEE, P.E., CHIEF  
Wastewater Branch

CHIYOME LEINAALA FUKINO, M.D.  
DIRECTOR OF HEALTH

In reply, please refer to:  
EMD / WB  
LUD-02 0 015 043



**DEPARTMENT OF BUSINESS,  
ECONOMIC DEVELOPMENT & TOURISM**

**OFFICE OF PLANNING**

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

LINDA LINGLE  
DIRECTOR  
THEODORE E. LIU  
DIRECTOR  
MARK K. ANDERSON  
DEPUTY DIRECTOR  
ABBIE SETH MAYER  
DEPUTY DIRECTOR  
OFFICE OF PLANNING

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

Ref. No. P-12461

March 4, 2009

Mr. Wynn Miyamoto  
Fukunaga & Associates, Inc.  
1388 Kapiolani Boulevard, 2<sup>nd</sup> Floor  
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

This responds to the request for pre-assessment consultation for the draft environmental assessment for Ala Moana Wastewater Pump Station Force Main #3.

The project is to construct a new wastewater force main system to supplement the existing force main capacity for the Ala Moana Wastewater Pump Stations. As the proposed and preferred corridors of Force Main #3 cross the makai area of the Kakaako Community Development District (CDD), special management area (SMA) use approval is needed from the Office of Planning in accordance with Chapter 205A, Part II, Hawaii Revised Statutes (HRS), and Chapter 15-150, Hawaii Administrative Rules. Please also consult with the Department of Planning and Permitting, City and County of Honolulu, for SMA permit requirements for proposed project areas outside of the Kakaako CDD.

The State's Coastal Zone Management (CZM) Program encompasses the entire State. Chapter 205A, HRS, requires all actions to be consistent and in compliance with the CZM objectives and policies. In this regard, the environmental assessment for the proposed project should include an assessment relative to each of the statutory objectives and their supporting policies. We believe that this is important for satisfying the requirements of Chapter 343.

If there are any other questions about this, please feel free to contact Shichao Li of our CZM Program at 587-2841.

Sincerely,  
  
Abbie Seth Mayer  
Director

**BOARD OF WATER SUPPLY**

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



March 5, 2009

Mr. Wynn Miyamoto  
Fukunaga & Associates, Incorporated  
1388 Kapiolani Boulevard, 2<sup>nd</sup> floor  
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

Subject: Your Letter Dated February 26, 2009 on the Pre-Assessment Consultation for Draft Environmental Assessment Ala Moana Wastewater Pump Station Force Main #3

Thank you for the opportunity to comment on the proposed force main system.

The construction drawings should be submitted for our approval.

If you have any questions, please contact Robert Chun at 748-5443.

Very truly yours,

KEITH S. SHIDA  
Program Administrator  
Customer Care Division

LINA LING DE  
COMMUNICATIONS  
STATE OF HAWAII



STATE OF HAWAII  
DEPARTMENT OF HAWAIIAN HOME LANDS

P.O. BOX 1879  
HONOLULU, HAWAII 96815

MICHAEL KANE  
HAWAIIAN HOMES COMMISSION  
KAILANA H PARK  
DEPUTY TO THE CHAIRMAN  
ROBERT J. HALL  
EXECUTIVE ASSISTANT

March 11, 2009

Fukunaga & Associates, Inc.  
Attn: Mr. Wynn Miyamoto, Project Engineer  
1388 Kapiolani Blvd., 2nd Floor  
Honolulu, Hawaii 96814

Dear Mr. Miyamoto

Subject: Pre-Assessment Consultation for Draft  
Environmental Assessment  
Ala Moana Wastewater Pump Station Force  
Main #3

Thank you for the opportunity to review the subject proposal.  
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 (808) 620-9480.

Aloha and mahalo,

  
Michael A. Kane, Chairman  
Hawaiian Homes Commission

DEPARTMENT OF TRANSPORTATION SERVICES  
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 3RD FLOOR  
HONOLULU, HAWAII 96813  
Phone: (808) 768-8395 Fax: (808) 523-4730 Internet: www.honolulu.gov



MUJI HANNEMANN  
MAYOR

WAYNE YOSHIOKA  
DIRECTOR

SHARON ANN THOM  
DEPUTY DIRECTOR

TP2/09-301942R

March 11, 2009

Fukunaga & Associates, Inc.  
1388 Kapiolani Blvd. 2nd floor  
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

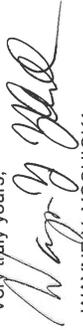
Subject: Pre-Assessment Consultation: Ala Moana Wastewater Pump  
Station Force Main #3

This responds to your letter of February 26, 2009, requesting pre-consultation in  
preparing for a Draft Environmental Assessment (DEA) related to the subject project.

We wish to reserve comment on the project pending the preparation of a traffic  
assessment study for the document. Upon completion of the study, we request a copy  
be forwarded to our department for review and comment.

Should you have any questions on the matter, you may contact Mr. Brian Suzuki,  
AICP at 768-8349.

Very truly yours,

  
WAYNE Y. YOSHIOKA  
Director

cc: James Burke, PTD  
Mark Kikuchi, TE  
Faith Miyamoto, RTD



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

CHYONE L. FUKINO, M.D.  
DIRECTOR OF HEALTH

In reply, please refer to:  
DHC/CWB

03051PSS.09

March 12, 2009

Mr. Wynn Miyamoto  
Fukunaga and Associates, Inc.  
1388 Kapiolani Boulevard, 2<sup>nd</sup> Floor  
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

Subject: **Pre-Assessment Consultation for Draft Environmental Assessment For  
Ala Moana Wastewater Pump Station Force Main #3  
Honolulu, Island of Oahu, Hawaii**

The Department of Health, Clean Water Branch (CWB), has reviewed the subject document and offers these comments on your project. Please note that our review is based solely on the information provided in the subject document and its compliance with 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 <http://www.hawaii.gov/health/environmental/envy-planning/landuse/CWB-standardcomment.pdf>.

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. The Army Corps of Engineers should be contacted at (808) 438-9258 to see if this project requires a Department of the Army (DA) permit. Permits may be required for work performed in, over, and under navigable waters of the United States. Projects requiring a DA permit also require a Section 401 Water Quality Certification (WQC) from our office.
3. 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

Mr. Wynn Miyamoto  
March 12, 2009  
Page 2

03051PSS.09

(HAR, Chapter 11-55). For the following types of discharges into Class A or Class 2 State waters, you may apply for NPDES general permit coverage by submitting the applicable Notice of Intent (NOI) form:

- a. Storm water associated with construction activities, including excavation, grading, clearing, demolition, uprooting of vegetation, equipment staging, and storage areas that result in the disturbance of equal to or greater than one (1) acre 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. An NPDES permit is required before the start of the construction activities.
- b. Discharges of hydrotesting water.
- c. Discharges of construction activity dewatering.

You must submit a separate NOI form for each type of discharge at least 30 calendar days prior to the start of the discharge activity, except when applying for coverage for discharges of storm water associated with construction activity. For this type of discharge, the NOI must be submitted 30 calendar days before the start of construction activities. The NOI forms may be picked up at our office or downloaded from our website at <http://www.hawaii.gov/health/environmental/water/cleanwater/forms/geni-index.html>.

4. For types of wastewater discharges not covered by an NPDES general permit, you may need an NPDES individual permit. An application for an NPDES individual permit must be submitted at least 180 calendar days before the commencement of the discharge. The NPDES application forms may be picked up at our office or downloaded from our website at <http://www.hawaii.gov/health/environmental/water/cleanwater/forms/indiv-index.html>.
5. You must also submit a copy of the NOI or NPDES permit application to the State DLNR, State Historic Preservation Division (SHPD), or demonstrate to the satisfaction of the CWB that SHPD has or is in the process of evaluating your project. Please submit a copy of your request for review by SHPD or SHPD's determination letter for the project along with your NOI or NPDES permit application, as applicable.
6. Please note that all discharges related to the project construction or operation activities, whether or not NPDES permit coverage and/or Section 401 Water Quality Certification are required, must comply with the 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.

JINDA LINGLE  
GOVERNOR

BRENNON T. MORIOKA  
DIRECTOR

Deputy Directors  
MICHAEL D. FORNEY  
FRANCIS PAUL KEENO  
BRUNN H. SENGUCHI  
JIRO A. SUMIDA

IN REPLY REFER TO:

HWY-PS  
2-1252



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
869 PUNCHBOWL STREET  
HONOLULU, HAWAII 96813-5097

March 12, 2009

03051PSS.09

Mr. Wynn Miyamoto  
March 12, 2009  
Page 3

7. That area of Honolulu Harbor is identified as a Low Priority, Category 3 and 5 water in the Clean Water Act, Section 303(d) list of impaired water bodies in Chapter IV of the 2006 *State of Hawaii Water Quality Monitoring and Assessment Report*.

Any NPDES permit(s) for discharges into these water bodies will incorporate the requirement for the Permittee to develop and implement a facility/project-specific Waste Load Allocation (WLA) implementation and monitoring plan when a Total Maximum Daily Load (TMDL) which specifies WLAs applicable to the Permittee's project is approved by the U.S. Environmental Protection Agency (EPA). The Permittee shall incorporate and implement the facility/project-specific WLA implementation and monitoring plan as part of the project's Storm Water Pollution Control Plan or Site-Specific Best Management Practices (BMPs) Plan, as appropriate. The facility/project-specific WLA implementation and monitoring plan shall include Data Quality Objectives (DQO) and Quality Assurance (QA) and Quality Control (QC) methods. The purpose and goal of DQO process can be found at <http://www.hamford.gov/dqo>. Information on the DOH WLA Implementation and TMDLs are available on the DOH Environmental Planning Office website at <http://hawaii.gov/health/environmental/env-planning/wqm/awqm.html> (see *TMDL Technical Reports and Implementation Plans for approved TMDLs are available here for download in pdf format*).

If you have any questions, please contact Mr. Shane Sumida of the Engineering Section, CWB, at 586-4309.

Sincerely,

  
ALEC WONG, P.E., CHIEF  
Clean Water Branch

SS:cu

Mr. Wynn Miyamoto  
Fukunaga & Associates, Inc.  
1388 Kapiolani Boulevard, 2<sup>nd</sup> Floor  
Honolulu, Hawaii 96813

Dear Mr. Miyamoto:

Subject: Pre-Assessment Consultation for Draft Environmental Assessment  
Ala Moana Wastewater Pump Station Force Main #3  
City and County of Honolulu, Department of Design and Construction

Thank you for consulting us on the subject project. We have the following comments:

The Draft Environmental Assessment (EA) should discuss and evaluate project impacts on our State highway facilities (Ala Moana Boulevard, Nimitz Highway, and Sand Island Access Road) such as but not limited to:

1. construction vehicle and heavy equipment type that will be used at the job site.  
Note: A permit is required from Highways Division to transport oversized equipment/overweight loads within our State highway facilities;
2. project impacts of applicant's operation in disposing excavated material, especially from the open trench excavation for the two 60-inch force main in the Sand Island State Recreation Area;
3. since the projected completion time for this project is year 2014 (2 ½ years of construction), there should be a monitoring maintenance program regarding leakage or falling debris/materials from truck loads on our highways;
4. inconvenience to the motoring public, bicyclists, pedestrians, joggers, park users etc.

Mr. Wynn Miyamoto  
Page 2

HWY-PS  
2.1252

5. dust/noise pollution;
6. possible inconvenience to embarking/departing ships passing through the Honolulu Harbor during the microtunneling operation under the harbor;
7. emergency plans in case Honolulu Harbor has to be closed; and
8. construction activity hours.

If there are any questions, please contact Robert Miyasaki, Systems Planning Engineer, Highways Division, at 587-6336.

Very truly yours,



GLENN M. YASUI  
Administrator  
Highways Division

PHONE (808) 594-1888

FAX (808) 594-1865



**STATE OF HAWAII**  
**OFFICE OF HAWAIIAN AFFAIRS**  
711 KAPIOLANI BOULEVARD, SUITE 500  
HONOLULU, HAWAII 96813

HRD09/4204

March 13, 2009

Wynn Miyamoto  
Fukunaga & Associates, Inc  
1388 Kapiolani Blvd., 2<sup>nd</sup> Floor  
Honolulu, HI 96814

**RE: Pre-Assessment Consultation for Draft Environmental Assessment Ala Moana Wastewater Pump Station Force Main #3.**

Aloha e Wynn Miyamoto,

The Office of Hawaiian Affairs (OHA) is in receipt of the above-mentioned letter, which is dated February 26, 2009. The City and County of Honolulu Department of Design and Construction proposes to construct a new wastewater force main system (FM #3) to supplement the current force main capacity, and ensure adequate backup force main capacity serving the Ala Moana Wastewater Pump Stations (WWPS) 1 and 2. The Ala Moana WWPS located in Kaka'ako currently serves nearly half of O'ahu's population from Niu Valley to Nu'uannu and Kaka'ako through two force mains: FM #1 and FM#2. The new proposed force main system would run from the Ala Moana WWPS to the Sand Island wastewater treatment plant (WWTP). Areas that would be most affected by construction include Honolulu Harbor's Fort Armstrong Container Yard and Harbor Channel, and the Sand Island State Recreation Area. The project also proposes alternate routes for each segment, construction methods, easements, and economic impacts. OHA has reviewed the project and offers the following comments.

OHA has substantive obligations to protect the cultural and natural resources of Hawai'i for its beneficiaries, the people of this land. The Hawaii Revised Statutes mandate that OHA "[s]erve as the principal public agency in the State of Hawaii responsible for the performance, development, and coordination of programs and activities relating to native Hawaiians and Hawaiians; . . . and [t]o assess the policies and practices of other agencies impacting on native Hawaiians and Hawaiians, and conducting advocacy efforts for native Hawaiians and Hawaiians." (HRS § 10-3)



**STATE OF HAWAII**  
DEPARTMENT OF HEALTH  
ENVIRONMENTAL MANAGEMENT DIVISION  
SOLID AND HAZARDOUS WASTE BRANCH  
519 ALA MOANA BLVD., #212  
HONOLULU, HAWAII 96814

In reply, please refer to:  
EMDS#MB

March 16, 2009 S0331LO

Wynn Miyamoto  
March 13, 2009  
Page 2

Chapter 343 of the Hawaii Revised Statutes (HRS) requires that the Draft EA include a Cultural Impact Assessment (CIA). The CIA should include information relating to the traditional and customary practices and beliefs of the area's Native Hawaiians, and the community should be involved in this assessment. Consideration must also be afforded to any individuals accessing the project area for constitutionally protected traditional and customary purposes, in accordance with the Hawai'i State Constitution, Article XII, Section 7.

OHA requests clarification whether an archaeological inventory survey for the project will be submitted to the State Historic Preservation Division for review and approval. If so, OHA should be allowed the opportunity to comment on the criteria assigned to any cultural or archaeological sites identified within the archaeological inventory survey.

We further request the applicant's assurances that should iwi kūpuna or Native Hawaiian cultural or traditional deposits be found during the construction of the project, work will cease, and the appropriate agencies will be contacted pursuant to applicable law.

OHA also asks if FM#3 is being constructed in the anticipation of increased input due to heightened construction and population increase in the surrounding area. If so, will the Sand Island WWTP be capable of supporting the potential additional wastewater, or will this facility also require upgrades? These answers should be included in the cumulative impact section of the forthcoming Draft Environmental Assessment (EA).

Thank you for the opportunity to comment, and we look forward to providing a more detailed review of the forthcoming Draft EA. If you have further questions, please contact Heidi Guth by phone at (808) 594-1962 or e-mail her at [heidig@oha.org](mailto:heidig@oha.org).

'O wau iho nō me ka 'ōia 'i'ō,

Clyde W. Nāmu 'o  
Administrator

Mr. Wynn Miyamoto  
Fukunaga & Associates, Inc.  
1388 Kapiolani Blvd., 2nd Floor  
Honolulu, HI 96814

Dear Mr. Miyamoto:

**SUBJECT:** Draft Environmental Assessment  
Ala Moana Wastewater Pump Station Force Main #3

Thank you for the opportunity to review and comment on this document. The Hazardous Waste, Solid Waste, and Underground Storage Tank Sections of the Department of Health (DOH), Solid and Hazardous Waste Branch have reviewed the document and offer the following comments.

Solid Waste

The alignment for the proposed Force Main #3 (FM #3) has three alternatives for the harbor crossing and two alternatives for the Sand Island segment. Our comments:

*Harbor Crossing Alternative 1-Central Corridor*

The Central Corridor appears to traverse the northern end of the Foreign Trade Zone to the Ala Moana Pump Station across one or both of TMK plats 1st, 2-1-59 and 1st, 2-1-60. No records of inactive municipal solid waste landfill sites were found on either plat.

*Harbor Crossing Alternative 2-Mauka Corridor*

The Mauka Corridor appears to traverse the Ewa end of TMK plat 1st, 2-1-1 and continue along Ala Moana Boulevard, ending at the Ala Moana Pump Station at the Ewa end of TMK plat 1st, 2-1-15. No records of inactive municipal solid waste landfill sites were found on either plat.

Mr. Wynn Miyamoto  
March 16, 2009  
Page 2

*Harbor Crossing Alternative 3-Makai Corridor*

The Makai Corridor traverses the southern end of the Foreign Trade Zone parcel and appears to proceed up Keawe Street to the Ala Moana Pump Station on TMK plats 1st, 2-1-59 and 1st, 2-1-60. No records of inactive municipal solid waste landfill sites were found on either plat.

*Sand Island Alignment Alternatives*

Both Sand Island Alignment Alternative segments of the proposed FM #3 appear to traverse the Sand Island Ash Dump located within the Sand Island State Recreational Area on TMK parcel 1st, 1-5-41:006. According to the URS study, "Oahu Inactive Landfills Relative Risk Evaluation: Final Report" (Dec. 2006), the multi-use Sand Island dumping area is located on the southern portion of Sand Island south of the sewage treatment plant and associated disposal pond, and is now a portion of Sand Island State Park. The study also states that the site received open dumping of ash and municipal solid waste since 1934, with ash dumping starting around 1965. A 1984 aerial photograph showed the State Recreational Area had been developed and that the disposal activity ceased. However, incidences of open dumping of household garbage, discarded scrap metal, cars, tires, refrigerators, burn areas, and other assorted solid wastes were observed in 1999 and 2000.

An Executive Summary and detailed information on the Sand Island Ash Dump, both from the URS study, are attached. In addition to the old landfill, Sand Island consists of fill material, so testing of the soil may be prudent prior to any reuse/disposal of the material. Finally, any waste generated from this project should be handled in accordance with state solid waste laws and regulations.

Hazardous Waste

Being that the old landfill is believed to contain ash, it is advised that any ash encountered during construction should be tested for hazardous wastes, and that appropriate measures be taken for the handling of any confirmed hazardous waste.

Underground Storage Tanks

The state regulations on underground storage tanks (USTs), Chapter 11-281, Hawaii Administrative Rules, became effective on January 28, 2000. The state UST regulations include, among other things, specific requirements that UST owners and operators must meet when installing and permanently closing their UST system and addressing releases from USTs.

Mr. Wynn Miyamoto  
March 16, 2009  
Page 3

In the event that USTs are discovered during the project, we have developed a guidance manual entitled "Technical Guidance Manual for Underground Storage Tank Closure and Release Response" (dated March 2000) to assist responsible parties and their consultants and contractors in complying with the state UST closure requirements and release response activities.

Copies of the technical manual and the state regulations are found on the DOH website at [www.state.hi.us/doh/eh/shwb](http://www.state.hi.us/doh/eh/shwb).

Please contact Mr. Lane Otsu of our Solid Waste Section at (808) 586-4226 with any questions regarding our comments.

Sincerely,



STEVEN Y.K. CHANG, P.E., CHIEF  
Solid and Hazardous Waste Branch

Attachments (2)



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

March 16, 2009



Fukumaga & Associates, Inc.  
1388 Kapiolani Blvd 2nd Floor  
Honolulu, Hawaii 96814

Attention: Mr. Wynn Miyamoto  
Ladies and Gentlemen:

Subject: Pre-Assessment Consultation for Draft Environmental Assessment for Ala Moana Wastewater Pump Station Force Main #3

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 comment.

Other than the comments from Commission on Water Resource Management, Engineering Division, Division of Boating & Ocean Recreation, Land Division-Oahu District, the Department of Land and Natural Resources has no other comments to offer on the subject matter. Should you have any questions, please feel free to call our office at 587-0433. Thank you.

Sincerely,

*Morris M. Atta*  
Morris M. Atta  
Administrator

RECEIVED  
09 MAR 2 P 3: 58  
COMMISSION ON WATER RESOURCE MANAGEMENT



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

February 27, 2009

MEMORANDUM

TO:

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

FROM: Morris M. Atta

*Morris M. Atta*

SUBJECT: Pre-Assessment Consultation for Draft Environmental Assessment - Ala Moana Wastewater pump Station Force Main #3

LOCATION: Honolulu, Oahu

APPLICANT: Fukumaga & Associates, Inc.

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by March 16, 2009.

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 my office at 587-0433. Thank you.

Attachments

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

Signed: \_\_\_\_\_  
Date: \_\_\_\_\_



RECEIVED  
LAND DIVISION  
2009 MAR 11  
LINDA LINGLE  
GOVERNOR OF HAWAII  
LAURA H. THELEN  
RESIDENT J. CHING  
MEREDITH A. FRAZIER  
NEAL S. FUJIWARA  
CHIEF OF BUREAU  
DONNA FAY K. KOTOSAKI, P.E.  
DORCEY W. MIKE, M.D., J.D.  
KEN C. KAWAHARA, P.E.  
DEPUTY DIRECTOR

STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCE MANAGEMENT  
LAND DIVISION  
P.O. BOX 621  
HONOLULU, HAWAII 96809

March 11, 2009

REF: WWPMS FM3

TO: Morris Atta, Administrator  
Land Division

FROM: Ken C. Kawahara, P.E., Deputy Director  
Commission on Water Resource Management

SUBJECT: Pre-Assessment Consultation for Draft Environmental Assessment - Ala Moana Wastewater Pump Station Force Main #3

FILE NO: N/A  
TMK NO:

Thank you for the opportunity to review the subject document. The Commission on Water Resource Management (CWRM) is the agency responsible for administering the State Water Code (Code). Under the Code, all waters of the State are held in trust for the benefit of the citizens of the State, therefore, all water use is subject to legally protected water rights. CWRM strongly promotes the efficient use of Hawaii's water resources through conservation measures and appropriate resource management. For more information, please refer to the State Water Code, Chapter 174C, Hawaii Revised Statutes, and Hawaii Administrative Rules, Chapters 13-167 to 13-171. These documents are available via the Internet at <http://www.hawaii.gov/dlnr/cwrm>.

Our comments related to water resources are checked off below.

- 1. We recommend coordination with the county to incorporate this project into the county's Water Use and Development Plan. Please contact the respective Planning Department and/or Department of Water Supply for further information.
- 2. We recommend coordination with the Engineering Division of the State Department of Land and Natural Resources to incorporate this project into the State Water Projects Plan.
- 3. We recommend coordination with the Hawaii Department of Agriculture (HDOA) to incorporate the reclassification of agricultural zoned land and the redistribution of agricultural resources into the State's Agricultural Water Use and Development Plan (AWUDP). Please contact the HDOA for more information.
- 4. We recommend that water efficient fixtures be installed and water efficient practices implemented throughout the development to reduce the increased demand on the area's freshwater resources. Reducing the water usage of a home or building may earn credit towards Leadership in Energy and Environmental Design (LEED) certification. More information on LEED certification is available at <http://www.usgbc.org/leed>. A listing of fixtures certified by the EPA as having high water efficiency can be found at <http://www.epa.gov/watersense/pp/index.htm>.



RECEIVED  
LAND DIVISION

STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION  
POST OFFICE BOX 621  
HONOLULU, HAWAII 96809  
2009 MAR -5 P 3:30  
DEPT. OF LAND & NATURAL RESOURCES  
STATE OF HAWAII

February 27, 2009

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

FROM: Morris M. Atta

SUBJECT: Pre-Assessment Consultation for Draft Environmental Assessment - Ala Moana Wastewater Pump Station Force Main #3

LOCATION: Honolulu, Oahu  
APPLICANT: Fukunaga & Associates, Inc.

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by March 16, 2009.

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 my office at 587-0433. Thank you.

Attachments

( ) We have no objections.  
( ) We have no comments.  
(x) Comments are attached.  
Signed: *M. M. Atta*  
Date: 3/5/09



RECEIVED  
LAND DIVISION

2009 MAR -5 P 1:32

STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION  
POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

DEPARTMENT OF LAND AND NATURAL RESOURCES  
STATE OF HAWAII

February 27, 2009



DEPARTMENT OF LAND AND NATURAL RESOURCES  
ENGINEERING DIVISION

LD/MorrisAtta  
PreAssessConsultationDEAAIaMoanaWWFSP#3  
Oahu.662

COMMENTS

- ( ) We confirm that the project site, according to the Flood Insurance Rate Map (FIRM), is located in Flood Zone.
- (X) Please take note that the project site according to the Flood Insurance Rate Map (FIRM), is located in Zones X and A. The National Flood Insurance Program (NFIP) does not regulate developments within Zone X, however, it has strict development regulations within Zone A as indicated in bold letters below.
- ( ) Please note that the correct Flood Zone Designation for the project site according to the Flood Insurance Rate Map (FIRM) is \_\_\_\_\_.
- (X) 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:
- (X) Mr. Robert Sumitomo at (808) 768-8097 or Mr. Mario Siu Li at (808) 768-8098 of the City and County of Honolulu, Department of Planning and Permitting.
- ( ) Mr. Kelly Gomes at (808) 961-8327 (Hilo) or Mr. Kiran Emier at (808) 327-3530 (Kona) of the County of Hawaii, Department of Public Works.
- ( ) Mr. Francis Cerizo at (808) 270-7771 of the County of Maui, Department of Planning.
- ( ) Mr. Mario Antonio at (808) 241-6620 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 applicants should provide the water demands and calculations to the Engineering Division so it can be included in the State Water Projects Plan Update.
- ( ) Additional Comments: \_\_\_\_\_
- ( ) Other: \_\_\_\_\_

Should you have any questions, please call Ms. Suzie S. Agraan of the Planning Branch at 587-0258.

Signed:   
ERIC T. HIRANO, CHIEF ENGINEER

Date: 3/5/09

MEMORANDUM

TO:

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

FROM: Morris M. Atta

SUBJECT: Pre-Assessment Consultation for Draft Environmental Assessment – Ala Moana Wastewater pump Station Force Main #3

LOCATION: Honolulu, Oahu

APPLICANT: Fukunaga & Associates, Inc.

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by March 16, 2009.

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 my office at 587-0433. Thank you.

Attachments

- ( ) We have no objections.
- (X) We have no comments. Comments are attached.
- ( )

Signed:   
Date: 3/5/09

REC-10348-03000-00



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

March 18, 2009



MEMORANDUM

TO: *ML*

DLNR Agencies:

- Div. of Aquatic Resources
- Div. of Boating & Ocean Recreation
- Engineering Division
- Div. of Forestry & Wildlife
- Div. of State Parks
- Commission on Water Resource Management
- Office of Conservation & Coastal Lands
- Land Division - Oahu District

FROM: *ML*

Morris M. Atta

SUBJECT: Pre-Assessment Consultation for Draft Environmental Assessment – Ala Moana Wastewater Pump Station Force Main #3

LOCATION: Honolulu, Oahu

APPLICANT: Fukumaga & Associates, Inc.

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by March 16, 2009.

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 my office at 587-0433. Thank you.

Attachments

- We have no objections.
- We have no comments.
- Comments are attached.

Signed: *Tina Lee*  
Date: *3/18/09*

A land disposition is required from the Land Board for this project.



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

February 27, 2009

Fukumaga & Associates, Inc.  
1388 Kapiolani Blvd 2nd Floor  
Honolulu, Hawaii 96814

Attention: Mr. Wynn Miyamoto

Ladies and Gentlemen:

Subject: Pre-Assessment Consultation for Draft Environmental Assessment for Ala Moana Wastewater Pump Station Force Main #3

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 Division of Aquatic Resources for their review and comment.

The Department of Land and Natural Resources has no other comments to offer on the subject matter. Should you have any questions, please feel free to call our office at 587-0433. Thank you.

Sincerely,

*Charles E. Lindler*  
for Morris M. Atta  
Administrator



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION  
POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

February 27, 2009

MEMORANDUM

TO: D.LNR Agencies:  
 Div. of Aquatic Resources  
 Div. of Boating & Ocean Recreation  
 Engineering Division  
 Div. of Forestry & Wildlife  
 Div. of State Parks  
 Commission on Water Resource Management  
 Office of Conservation & Coastal Lands  
 Land Division - Oahu District

FROM: Morris M. Atta  
SUBJECT: Pre-Assessment Consultation for Draft Environmental Assessment - Ala Moana Wastewater pump Station Force Main #3  
LOCATION: Honolulu, Oahu  
APPLICANT: Fukunaga & Associates, Inc.

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by March 16, 2009.  
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 my office at 587-0433. Thank you.

Attachments

- We have no objections.
- We have no comments.
- Comments are attached.

Signed: *Morris M. Atta*  
Date: 3-17-09



AQUATIC RESOURCES: 06-2731

DIRECTOR	
COMM. FISH.	
AQ RESERV	
PLANNER	
STAFF SVCS	
RC/H/WH	
STATISTICS	
AFRC/FED/AID	
EDUCATION	
SECRETARY	
OFFICE SVCS	
TECH ASST	
Return to:	
No. Copies	
Copies to:	
Due Date:	

Hawaiian Telecom

March 20, 2009

Fukunaga & Associates, Inc.  
1388 Kapiolani Boulevard, 2<sup>nd</sup> Floor  
Honolulu, Hawaii 96814  
Attention: Mr. Wynn Miyamoto

Dear Mr. Miyamoto:

Subject: Pre-Assessment Consultation for Draft Environmental Assessment - Ala Moana Wastewater Pump Station Force Main #3

Thank you for the opportunity to review and comment on the subject project in preparation of the Environmental Assessment.

Hawaiian Telecom does not have any comments to offer at this time. Because Hawaiian Telecom has underground and aerial facilities within the project site, 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 Les Loo at 546-7761.

Sincerely,

*Lyrette Yoshida*

Lyrette Yoshida  
Section Manager - OSP Engineering  
Network Engineering & Planning

cc: File [Alakea/Kalihi]



## HAWAII STEVEDORES, INC.

P.O. Box 2160 • Honolulu, Hawaii 96805-2160 • Phone (808) 527-3400

Wynn Miyamoto  
Fukunaga & Associates, Inc.

March 25, 2009

Subject: Pre-Assessment Consultation for Draft Environmental Assessment  
Ala Moana Wastewater Pump Station Force Main #3

Dear Ms. Miyamoto,

We have reviewed your letter dated February 26, 2009. The only concern Hawaii Stevedores, Inc. has with the proposed Harbor Crossing Alternative 1 – Central Corridor is the interruption which is likely to take place in our operation at Pier 1.

We would hope the Hawaii State Department of Transportation Harbor's Division would accommodate our needs to insure the flow of commerce is not interrupted during the construction period.

Sincerely,

  
Jeff Brennan  
General Manager  
Hawaii Stevedores, Inc.

DEPARTMENT OF PLANNING AND PERMITTING  
**CITY AND COUNTY OF HONOLULU**  
650 SOUTH KING STREET, 7TH FLOOR • HONOLULU, HAWAII 96813  
PHONE: (808) 768-8000 • FAX: (808) 768-6041  
DEPT. WEB SITE: [www.honolulu.gov](http://www.honolulu.gov) • CITY WEB SITE: [www.honolulu.gov](http://www.honolulu.gov)



MUFI HANNEMANN  
MAYOR

DAVID K. TANIGUE  
DIRECTOR  
ROBERT M. SUMITOMO  
DEPUTY DIRECTOR

2009/ELOG-489(MH)

March 25, 2009

Mr. Wynn Miyamoto  
Fukunaga & Associates, Inc.  
1388 Kapiolani Boulevard, 2<sup>nd</sup> Floor  
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

Subject: Pre-Assessment Consultation for Draft Environmental Assessment, Ala Moana Wastewater Pump Station Force Main #3

In response to your request for comments of February 26, 2009 regarding the preparation of the Draft Environmental Assessment (DEA) for the subject project, we have the following comments:

1. The DEA should include a discussion of how the proposed project is consistent with the objectives and policies of Section V (Transportation and Utilities) in the City and County of Honolulu's General Plan. Refer to objectives B and C, and applicable policies of this referenced section.
2. The DEA should also discuss how the proposed project is consistent with Section 4.2.1 (Existing Conditions, Issues and Trends), Section 4.2.2 (Policies), and Section 4.2.3 (Guidelines of the Primary Urban Center Development Plan).
3. A Special Management Area Use Permit (SMP) would be needed, if work in the Special Management Area is outside existing utility easements, e.g. across Sand Island Recreation Area.
4. The proposed project may also require a Shoreline Setback Variance within shoreline areas. Therefore, the DEA should address the location of the current shoreline relevant to any proposed work.
5. The DEA should include a complete listing of required permits and approvals.



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

REPLY TO  
ATTENTION OF:

Mr. Wynn Miyamoto  
Fukunaga & Associates, Inc.  
March 25, 2009  
Page 2

Regulatory Branch

File No. POH-2009-92

March 26, 2009

Should you have any questions, please contact Matt Higashida of our staff at 768-8045.

Very truly yours,

for David K. Tanoué, Director  
Department of Planning and Permitting

DKT:js

cc: Office of Environmental Quality Control  
Department of Design and Construction

P:\DW\Function\Ea-eis\2009\Pre-Assessment Consultation for DEA, Ala Moana WWPS Force Main 3.doc

Dear Mr. Miyamoto:

This letter is in response to your request, received March 11, 2009, for early consultation comments on the preparation of the Draft Environmental Assessment (DEA) for the **Ala Moana Wastewater Pump Station Force Main # 3** project located in Honolulu, Island of Oahu, Hawaii'i.

Based on the information furnished to our office, we understand there are two segments of the proposed Force Main (FM) #3 project, the Harbor Crossing Segment and the Sand Island Segment. You have provided three alternatives for the Harbor Crossing segment and two alternatives for the Sand Island segment. As all in-water work requiring Department of the Army (DA) authorization will require compliance with the April 10, 2008 Federal Mitigation Rule, you are encouraged to implement the alternatives with the least impact on the aquatic environment.

At a minimum, the proposed microtunnel boring under the Fort Armstrong Channel of the Honolulu Harbor for the Ala Moana Wastewater Pump Station Force Main # 3 Harbor Crossing Segment will require a DA Permit pursuant to Section 10 of the Rivers and Harbors Act (RHA) of 1899 (33 U.S.C. 403).

The DEA should include site-specific information pertaining to the occurrence of water resources and features within the project area, such as USGS designated blue-line streams and wetlands. The boundaries of wetlands that may exist on-site or adjacent to the project site should be delineated based on the procedures set forth in the Army Corps of Engineers' 1987 *Wetland Delineation Manual*. Similarly, for coastal areas and tidally influenced waters within the project area, the environmental document should clearly demarcate or otherwise identify the mean high water line and high tide line [as described at 33 C.F.R. 328.3(d)]. Within coastal areas within Hawaii we have established the mean higher high water mark as the ordinary high water mark for Corps jurisdiction. We recommend that your document identify both the mean higher high water mark as well as the certified shoreline or vegetation line so to provide reference for the respective Federal and State jurisdictional boundaries with respect to existing and proposed improvements at the project location.



PO Box 3000  
Honolulu, Hawaii 96802-3000

March 27, 2009

Fukunaga & Associates, Inc.  
1388 Kapiolani Blvd., 2<sup>nd</sup> Floor  
Honolulu, Hawaii 96814

Attention: Mr. Wynn Miyamoto

Gentlemen:

Subject: Draft Environmental Assessment  
Pre-Assessment Consultation for Draft Environmental Assessment  
Ala Moana Wastewater Pump Station Force Main #3

Please be advised that The Gas Company, LLC maintains underground utility gas mains in the project vicinity, which serves commercial and residential customers in the area. We would appreciate your consideration during the project planning and design process to minimize any potential conflicts with the existing gas facilities in the project area.

Thank you for the opportunity to comment on the Draft Environmental Assessment. Should there be any questions, or if additional information is desired, please call Stason Nishimura at 594-5689.

Sincerely,

Charles E. Calvet, P. E.  
Manager, Engineering

CEC:ks  
09-121

The DEA should also describe all proposed construction activities that would result in the discharge (placement) of dredged and/ or fill material into jurisdictional waters pursuant to our authorities under Section 404 of the Clean Water Act (CWA) of 1972 (33 U.S.C. 1344) which will also require DA authorization. We suggest the DEA include the following information, as applicable:

- The source and volume of dredged or fill material;
- The method and timing for any discharge (placement) of dredged or fill material;
- The location of disposal sites for excavated materials from the microtunnel boring. If such sites are other than existing landfill operations, the DEA should also identify impacts associated with the disposal of such materials at those sites;
- An estimation of the total construction period; and
- A detailed description of the short- and long-term maintenance activities associated with Force Main #3.

We appreciate the opportunity to provide input into the preparation of your DEA. If you have any questions, please contact Ms. Meris Bantilan-Smith, of my Regulatory staff at 808-438-7701 (FAX: 808-438-4060) or by electronic mail at [Meris.Bantilan-Smith@usace.army.mil](mailto:Meris.Bantilan-Smith@usace.army.mil) and reference File No. POH-2009-92 with regards to this project.

Sincerely,

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



**ALOHA TOWER DEVELOPMENT CORPORATION**  
 TOPA Financial Center, Bishop Street Tower, 700 Bishop Street, Suite 1701, Honolulu, Hawaii 96813  
 Mailing Address: P.O. Box 2552, Honolulu, Hawaii 96804  
 Website: [www.alohatower.com](http://www.alohatower.com)

LINDA LINGLE  
 GOVERNOR OF HAWAII



**STATE OF HAWAII**  
**DEPARTMENT OF LAND AND NATURAL RESOURCES**  
 LAND DIVISION

POST OFFICE BOX 621  
 HONOLULU, HAWAII 96809

March 30, 2009

March 30, 2009

Mr. Wynn Miyamoto  
 Fukunaga & Associates, Inc.  
 1388 Kapiolani Blvd., 2<sup>nd</sup> Floor  
 Honolulu, Hawaii 96814

Fukunaga & Associates, Inc.  
 1388 Kapiolani Blvd 2nd Floor  
 Honolulu, Hawaii 96814

Dear Mr. Miyamoto,

Attention: Mr. Wynn Miyamoto

Ladies and Gentlemen:

**Subject:** Pre-Assessment Consultation for Draft Environmental Assessment  
 Ala Moana Wastewater Pump Station Force Main #3

**Subject:** Pre-Assessment Consultation for Draft Environmental Assessment for Ala Moana  
 Wastewater Pump Station Force Main #3

Thank you for the opportunity to review the subject report.

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 Office of Conservation & Coastal Lands for their review and comment.

On page 3, paragraph 2, it notes that, "The alignment remains within the City right of way on Ilalo Street... and avoids HCDA property." Please check with HCDA on that portion of Ilalo Street at the commencement of the force main line, that it has indeed been dedicated to the City. I worked on the dedication documents and my recollection is that the Ilalo Street dedication may have ended at Ilalo and Keawe Street. Many years have passed, and my memory may be bad, so if I am mistaken please forgive me. It would be good to check on this information, as it may affect your easement acquisition requirements.

The Department of Land and Natural Resources has no other comments to offer on the subject matter. Should you have any questions, please feel free to call our office at 587-0433. Thank you.

I have no other comments, and appreciate the early collaboration that you have provided on this project.

Sincerely,

Should you have any questions, please call me at 586-2521.

Sincerely,

*Sandra Pfund*  
 Sandra Pfund

*Michelle E. Under*  
 Morris M. Atta  
 Administrator

LAURA H. THIRLLEN  
GOVERNOR OF HAWAII



RECEIVED  
LAND DIVISION

STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES

LAND DIVISION

POST OFFICE BOX 621

HONOLULU, HAWAII 96809

February 27, 2009

DEPT. OF LAND & NATURAL RESOURCES  
STATE OF HAWAII

MEMORANDUM

TO:

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

FROM: Morris M. Atta

SUBJECT: Pre-Assessment Consultation for Draft Environmental Assessment - Ala Moana Wastewater pump Station Force Main #3

LOCATION: Honolulu, Oahu

APPLICANT: Fukunaga & Associates, Inc.

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by March 16, 2009.

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 my office at 587-0433. Thank you.

Attachments

- We have no objections.
- We have no comments.
- Comments are attached.

Signed: Dawn Hegger  
Date: 3/17/09

JANDA LINGLE  
GOVERNOR OF HAWAII



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES

OFFICE OF CONSERVATION AND COASTAL LANDS

POST OFFICE BOX 621

HONOLULU, HAWAII 96809

REF:OCCL:DH

MEMORANDUM

TO: Morris Atta, Administrator  
Land Division

FROM: Samuel J. Lemmo, Administrator  
Office of Conservation and Coastal Lands

THROUGH: Dawn Hegger, Senior Planner

REGARDING: Pre-Assessment Consultation for Draft Environmental Assessment - Ala Moana Wastewater Pump Station Force Main # 3, Honolulu, Oahu

The OCCL notes that the City and County of Honolulu, Department of Design and Construction is preparing the Draft Environmental Assessment (DEA) for the Ala Moana Wastewater Pump Station Force Main # 3. The purpose is to construct a new wastewater force main system to supplement the existing force main capacity, and ensure adequate backup force main capacity serving the Ala Moana Wastewater Pump Stations. Several alignment segments are proposed via Honolulu Harbor and Sand Island. For the Harbor crossing, three alternatives are proposed - Central Corridor, Mauka Corridor and Makai Corridor; the central corridor is considered the best alternative. The Sand Island alignment considers two alignments - Sand Island Recreation Area, and Sand Island Parkway.

The OCCL notes the Sand Island alignment is not located in the Land Use (SLU) Conservation District so we do not have comments. However, for the harbor crossing alternatives the land is located in the Conservation District, Resource subzone. Therefore, any proposed use within submerged lands would require that a Conservation District Use Application (CDUA) will need to be submitted, processed, and approved by the Board of Land and Natural Resources (BLNR).

The OCCL notes the proposed use is an identified land use, pursuant to Hawaii Administrative Rules (HAR), Section 13-5-22, P-6, PUBLIC PURPOSE USES, D-1, "land uses undertaken by the State of Hawaii or the counties to fulfill a mandated governmental function, activity, or service for public benefit and in accordance with public policy and the purpose of conservation district. Such land uses may include transportation systems, water systems, communications systems, and recreational facilities." The OCCL reminds notes that all land uses of Conservation District lands are subject to the discretion of the BLNR.

LAURA H. THIRLLEN  
BOARD OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCES MANAGEMENT  
RUSSELL Y. TSUI  
VICE CHAIRMAN  
NOI KAWAHA  
DEPUTY DIRECTOR, WATER  
QUALITY RESOURCES  
BOATING AND OCEAN RECREATION  
COMMISSION ON WATER RESOURCES MANAGEMENT  
COMMISSION ON WATER RESOURCES MANAGEMENT  
CONSERVATION AND RESOURCES DEVELOPMENT  
FORESTRY AND WILDLIFE  
MAUKA MAUKA RECREATION COMMISSION  
STATE PARKS



Correspondence: OA-09-167

MAR 30 2009

*[Handwritten signature]*

RECEIVED  
OFFICE OF CONSERVATION AND COASTAL LANDS  
2009 MAR -2 P 2:22

DEPT. OF LAND & NATURAL RESOURCES  
STATE OF HAWAII

09-09-167

1357 KAPOLANI BLVD. / SUITE 1530 / HONOLULU, HI 96814 / PH. (808) 944-1821 / FAX (808) 946-9339 / office@lukunagaengineers.com  
September 11, 2009

Meris Bantlian-Smith  
U.S. Army Corps of Engineers, Honolulu District  
Regulatory Branch  
Fort Shafter, HI 96858-5440

**SUBJECT:** Response to Comments on Pre-Assessment Consultation for  
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Ms. Bantlian-Smith,

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,  
FUKUNAGA & ASSOCIATES, INC.

  
Wynne Miyamoto

JN/LKM/WRM/  
cc Carl Atrakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



1357 KAPOLANI BLVD. / SUITE 1530 / HONOLULU, HI 96814 / PH. (808) 944-1821 / FAX (808) 946-9339 / office@lukunagaengineers.com  
September 11, 2009

Mr. Morris Atta, Administrator  
DLNR Land Division  
1151 Punchbowl Street, Room 220  
Honolulu, HI 96813

**SUBJECT:** Response to Comments on Pre-Assessment Consultation for  
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Atta:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,  
FUKUNAGA & ASSOCIATES, INC.

  
Wynne Miyamoto

JN/LKM/WRM/  
cc Carl Atrakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



1357 KAPIOLANI BLVD. / SUITE 1530 / HONOLULU, HI 96814 / PH. (808) 944-1821 / FAX (808) 946-9339 / office@fukunagaengineers.com  
September 11, 2009

Heidi Guth  
Office of Hawaiian Affairs  
711 Kapiolani Boulevard, Suite 500  
Honolulu, HI 96813

SUBJECT: Response to Comments on Pre-Assessment Consultation for  
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Ms. Guth:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,  
FUKUNAGA & ASSOCIATES, INC.

  
Wynn Miyamoto

JN/LKM/WRM/  
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



1357 KAPIOLANI BLVD. / SUITE 1530 / HONOLULU, HI 96814 / PH. (808) 944-1821 / FAX (808) 946-9339 / office@fukunagaengineers.com  
September 11, 2009

Anthony Ching, Executive Director  
Hawaii Community Development Association  
677 Ala Moana Boulevard, Suite 1001  
Honolulu, HI 96813

SUBJECT: Response to Comments on Pre-Assessment Consultation for  
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Ching:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,  
FUKUNAGA & ASSOCIATES, INC.

  
Wynn Miyamoto

JN/LKM/WRM/  
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



September 11, 2009

Ms. Sandra S. Pfund, Chief Executive Officer  
Aloha Tower Development Corporation  
Pier 10 Terminal  
600 Fort Street, 2nd Floor  
Honolulu, HI 96813

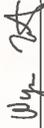
SUBJECT: Response to Comments on Pre-Assessment Consultation for  
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Ms. Pfund:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,  
FUKUNAGA & ASSOCIATES, INC.

  
Wynne Miyamoto

JN/LKM/WRM/  
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



September 11, 2009

Mr. Abbey Mayer, Director  
Office of Planning  
P.O. Box 2339  
Honolulu, Hawaii 96804

SUBJECT: Response to Comments on Pre-Assessment Consultation for  
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Mayer:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,  
FUKUNAGA & ASSOCIATES, INC.

  
Wynne Miyamoto

JN/LKM/WRM/  
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



September 11, 2009

Robert Miyasaki, Systems Planning Engineer  
DoT Highways Division  
869 Punchbowl Street, Room 513  
Honolulu, HI 96813

SUBJECT: Response to Comments on Pre-Assessment Consultation for  
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Miyasaki:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,  
FUKUNAGA & ASSOCIATES, INC.

  
Wynn Miyamoto

JN/LKM/WRM/  
cc Carl Atakaki, DDC



September 11, 2009

Rouen Liu, Project Management Division  
Hawaiian Electric Company  
P.O. Box 2750  
Honolulu, HI 96740

SUBJECT: Response to Comments on Pre-Assessment Consultation for  
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Liu:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,  
FUKUNAGA & ASSOCIATES, INC.

  
Wynn Miyamoto

JN/LKM/WRM/  
cc Carl Atakaki, DDC



September 11, 2009

Shane Sumida  
DoH Clean Water Branch  
919 Ala Moana Boulevard, Room 301  
Honolulu, HI 96814

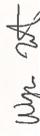
**SUBJECT:** Response to Comments on Pre-Assessment Consultation for  
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Sumida:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,  
FUKUNAGA & ASSOCIATES, INC.

  
Wynne Miyamoto

JN/LKM/WRM/  
cc Carl Atakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



September 11, 2009

Lane Olsu  
DoH Solid and Hazardous Waste Branch  
919 Ala Moana Boulevard, Room 212  
Honolulu, HI 96814

**SUBJECT:** Response to Comments on Pre-Assessment Consultation for  
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Olsu:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,  
FUKUNAGA & ASSOCIATES, INC.

  
Wynne Miyamoto

JN/LKM/WRM/  
cc Carl Atakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



Mr. Russel Takata, Chief  
DoH Indoor and Radiological Health Branch  
591 Ala Moana Boulevard, Room 133  
Honolulu, HI 96813

SUBJECT: Response to Comments on Pre-Assessment Consultation for  
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Takata:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,  
FUKUNAGA & ASSOCIATES, INC.

  
Wynn Miyamoto

JN/LKM/WRM/  
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



Brian Suzuki  
Department of Transportation Services  
650 South King St, 3rd Floor  
Honolulu, HI 96813

SUBJECT: Response to Comments on Pre-Assessment Consultation for  
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Suzuki:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,  
FUKUNAGA & ASSOCIATES, INC.

  
Wynn Miyamoto

JN/LKM/WRM/  
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



September 11, 2009

Matt Higashida  
Department of Planning and Permitting  
650 South King St.  
Honolulu, HI 96813

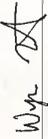
SUBJECT: Response to Comments on Pre-Assessment Consultation for  
Draft Environmental Assessment : Ala Moana Wastewater Pump Station Force Main #3

Dear Mr. Higashida:

Thank you for taking the time to comment on the preparation of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Draft EA or will be addressed during design.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,  
FUKUNAGA & ASSOCIATES, INC.

  
Wynn Miyamoto

JN/LKM/WRM/  
cc Carl Arakaki, DDC



## **APPENDIX B**

# **DRAFT ENVIRONMENTAL ASSESSMENT COMMENTS AND RESPONSES**

LINDA LINGLE  
GOVERNOR OF HAWAII



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
DIVISION OF STATE PARKS  
POST OFFICE BOX 601  
HONOLULU, HAWAII 96809



LAURA R. THILEN  
CHAIRPERSON  
BOARD OF WATER RESOURCE MANAGEMENT  
COMMISSION OF WATER RESOURCE MANAGEMENT  
RUSSELL V. TSUJI  
FIRST DEPUTY  
KEN C. KAWAHAMA  
DEPUTY CHAIRPERSON  
BOARD OF WATER RESOURCE MANAGEMENT  
HEATING AND DELAY REACTION  
COMMISSION OF WATER RESOURCE MANAGEMENT  
CONSERVATION AND RESTORATION INTERVENTION  
FORREST W. HARRIS  
DIRECTOR, PRESERVATION DIVISION  
LAND AND NATURAL RESOURCES  
STATE OF HAWAII

Mr. Wynn Miyamoto  
Fukunaga & Associates, Inc.  
1357 Kapi'olani Blvd., Suite 1530  
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

SUBJECT: Draft Environmental Assessment for Ala Moana Wastewater Force Main #3  
TMK: 2-1-15-9, 23; 2-1-41-5, 6; Honolulu, O'ahu

Thank you for the opportunity to review the subject document. Our comments involve two areas of concern: 1) the 6(f) protected status of the Sand Island State Recreation Area (SRA), and 2) impacts to the Sand Island SRA during construction, including potential damage to facilities and public use of the park.

6(f) Protected Park Property

Sand Island SRA is a 6(f) protected park property because of the previous use of federal funds for outdoor recreation through the Land and Water Conservation Fund (LWCF) Program administered by the National Park Service. This status and current approvals from NPS are summarized on page 8 of the DEA. However, the conditions of this approval are not indicated. These conditions were outlined in our letter of February 19, 2009 to Mr. Eugene Lee of the City and County of Honolulu:

- During the 2 year construction period, the park will remain open to the public and impacts to public outdoor recreation will be minimized. This includes minimal disruption to camping, picnicking, and shoreline activities. The contractor will insure public safety and provide detours as needed for access to recreation areas.
- Upon completion of the installation of the underground force main, the ground surface will be leveled and grassed such that the area remains available for outdoor recreation.
- As a mitigation measure for the use of the park, the City will restore construction areas to a better than the pre-existing condition. We expect to work out the details of these improvements as the project planning moves forward.
- The 45-foot wide easement will not interfere with the use of the area for outdoor recreation.

Impacts and Mitigation for Sand Island SRA

Although there are brief references in Section 6 to the impacts and mitigation of noise, dust, and traffic on the park, the full range of impacts and mitigation has not been addressed. One consideration is a sub-section (eg. 6.12) on parks and recreation to detail that mitigation measures required by NPS and State Parks, including camping facilities, walkways, landscaping and irrigation, parking and roadways. Park concerns and mitigation measures proposed by State Parks are as follows:

Mr. Wynn Miyamoto  
October 27, 2009  
Page 2

Section 6.9.1 - Traffic/Vehicular Traffic

The DEA should indicate that approvals and permits may be needed from State Parks for work within the park in regards to oversized equipment or loads. Large equipment will require the use of the entire park roadway which may restrict public vehicular traffic entering and exiting the park. The storage of equipment and material may warrant a special use permit.

New Section 6.12 - Sand Island State Recreation Area and Recreational Resources

- Camping facilities. Campsites and marker tables will be displaced during the construction. Mitigation measures should involve the development of alternate sites for the duration of the project and shall include restoring these areas back to their original condition. Marker tables need to be replaced with concrete foundations and accessibility requirements.
- Walking pathways. These areas will likely be damaged by machinery, equipment, and/or excavated materials. In the event of damage, mitigation measures shall include the clean up, replacement, and repaving of affected walkways, along with the replacement of any benches and tables affected by the project.
- Landscaping and irrigation. The area to be used for the tunnel shaft and open trenching areas is expected to damage irrigation lines in the project area. Mitigation measures shall involve restoring these areas to their original condition including grading, regrassing, and replacement of the irrigation system.
- Parking areas and roadways. These areas will be affected and potentially damaged from the project activities. Mitigation measures shall include the replacement, repaving and restriping of all sections affected by the project. This would include the roadway from the park entry to the area where equipment and materials will be stored.
- Other infrastructure systems. There is a possibility that existing water, sewer and electrical lines and systems will be affected by construction activities. Mitigation measures shall include the repair and replacement of sections that are damaged or destroyed by the project.
- Park boundaries. A significant portion of the force main will traverse along the park boundary with adjacent landowners and tenants. Mitigation measures should include a survey of the park boundary to insure that the force main is kept within the designated easement areas. Any fencing or boundary implement used to separate the park from adjacent properties damaged by the project shall be replaced.

If we can be of further assistance, please contact Martha Yent, LWCF Coordinator, at 587-0287 or Russell Kumabe, Parks Development Branch, at 587-0305.

Very truly yours,

DANIEL S. QUINN  
State Parks Administrator



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

October 27, 2009



Fukumaga & Associates, Inc.  
1357 Kapiolani Boulevard Suite 1530  
Honolulu, Hawaii 96814

Attention: Mr. Wynn Miyamoto  
Ladies and Gentlemen:

Subject: Draft Environmental Assessment for Ala Moana Wastewater Pump Station Force Main #3

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 Land Division-Oahu District for their review and comment.

The Department of Land and Natural Resources has no other comments to offer on the subject matter. Should you have any questions, please feel free to call our office at 587-0433. Thank you.

Sincerely,

*Charlene E. Untch*  
Morris M. Atta  
Administrator



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

October 26, 2009

MEMORANDUM

To: Morris M. Atta  
Administrator

Through: Barry Cheung  
Oahu District Land Agent

From: Steve Lau  
Land Agent

Subject: Fukumaga & Associates, Inc., Draft Environmental Assessment for Ala Moana Wastewater Pump Station Force Main # 3, Honolulu, Oahu.

The proposed subject project would consist of the installation of a new dual 60-inch force main to convey wastewater from the Ala Moana Wastewater Pump Station (WWPS) to the Sand Island Wastewater Treatment Plant.

Any improvements from the Ala Moana Wastewater Pump Station and force main (FM) system to the Sand Island Wastewater Treatment Plant (WWTP) which are located on State lands would require a disposition from the Land Board.

LINDA LINGLE  
GOVERNOR



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
869 PUNCHBOWL STREET  
HONOLULU, HAWAII 96813-5097

BRENNON T. MORIOKA  
DIRECTOR

Deputy Directors  
MICHAEL D. FORBAY  
FRANCIS PAUL KEENO  
BRIAN H. SEKIGUCHI  
JIRO A. SUMIDA

IN REPLY REFER TO:

STP 8.3433

October 20, 2009

Mr. Wynn Miyamoto  
Fukunaga & Associates, Inc.  
1357 Kapiolani Boulevard, Suite 1530  
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

Subject: Ala Moana Wastewater Pump Station Force Main #3  
Draft Environmental Assessment (DEA)  
TMK: 2-1-15: 23; 2-1-15-09; 1-5-41: 05; 1-5-41: 06

Thank you for providing the subject project for the State Department of Transportation's (DOT) review.

DOT understands that the subject City & County of Honolulu project proposes to install a new dual 60-inch force main to convey wastewater from the Ala Moana Wastewater Pump Station to the Sand Island Wastewater Treatment Plant. The project includes a harbor crossing of Honolulu Harbor. Given that the subject project impacts DOT transportation facilities, the following comments are offered.

1. Section 6.4 Water Quality, Section 6: Impacts and Mitigation Measures, page 36. The DEA states that, "The contractor shall implement a monitoring program for leaks or debris falling from the trucks." The project will be under construction for two or more years. Therefore, the applicant shall provide a copy of the monitoring maintenance program to DOT Highways Division prior to the start of construction.
2. Section 2.2.1 Harbor Crossing, Central Corridor, page 7 and Section 2.6 Project Schedule, page 15. The DEA states, "DOT-Harbors has indicated that one of the tenants at Pier 1 is planned to be relocated to Pier 29 when upgrades to Pier 29 have been completed. This work is projected to be completed before construction of Ala Moana Force Main #3. This will free up space at Pier 1 and reduce disruption to operations at Pier 1." The applicant should note that according to the current construction schedule, the target completion date for the Pier 29 yard project is the end of 2011. It is uncertain how soon after this that the tenant would be able to relocate from Pier 1 to Pier 29. DOT requests that the applicant continue to coordinate the project with the DOT Harbors Division to minimize any disruptions.

Mr. Wynn Miyamoto  
Page 2

STP 8.3433

October 20, 2009

3. Section 4.14.1 Roads, page 31 and Section 6.9.1 Vehicular Traffic, page 37. DOT notes that Hawaii Community Development Association (HCDA) is planning improvements to Forrest Avenue, for which a traffic control plan will be prepared. Construction work will be coordinated with DOT Harbors Division to minimize traffic impacts. DOT supports this effort.

DOT appreciates the opportunity to provide comments. If there are any questions, please contact Mr. David Shimokawa of the DOT Statewide Transportation Planning Office at telephone number (808) 587-2356.

Very truly yours,

*Foran via Paul Keeno*  
BRENNON T. MORIOKA, Ph.D., P.E.  
Director of Transportation

c: Katherine Kealoha, Office of Environmental Quality Control

DEPARTMENT OF TRANSPORTATION SERVICES  
CITY AND COUNTY OF HONOLULU

850 SOUTH KING STREET, 3RD FLOOR  
HONOLULU, HAWAII 96813  
Phone: (808) 768-8305 • Fax: (808) 523-4730 • Internet: www.honolulu.gov



MUFI HANNEMANN  
MAYOR

WAYNE YOSHIOKA  
DIRECTOR  
SHARON ANN THOM  
DEPUTY DIRECTOR

TP9/09-334466R

October 23, 2009

Ms. Wynn Miyamoto  
Fukunaga & Associates, Inc.  
1357 Kapiolani Boulevard, Suite 1530  
Honolulu, Hawaii 96814

Dear Ms. Miyamoto:

Subject: Ala Moana Wastewater Pump Station Force Main #3 DEA

This responds to your letter of September 24, 2009, requesting consultation and comments on a Draft Environmental Assessment for the subject project. Our comments are as follows:

- Section 2.2.2, paragraphs 1 and 2, state that each alternative "does directly impact bus routes" – this should read "does not directly impact bus routes."
- Section 4.14.1 indicates that no buses operate on Ilalo Street and Forrest Avenue. This is incorrect – route 65 operates on these roads. We ask that the following construction note appear on plans that would impact transit operations on these roads: "This project will affect bus routes, bus stops, and para-transit operations; therefore, the Contractor shall notify the Department of Transportation Services, Public Transit Division at 768-8396 and Oahu Transit Services, Inc. (bus operations: 848-4578 or 848-6016 and para-transit operations: 454-5041 or 454-5020) of the scope of work, location, proposed closure of any street, traffic lane, sidewalk, or bus stop and duration of project at least two weeks prior to construction."
- The ownership of the area streets should be identified in the Final EA.
- As the project proceeds, the area neighborhood board, nearby residents, and local businesses should be kept apprised of construction schedules and potential disruption to area traffic.

Thank you for the opportunity to review this matter. Should you have any further questions on the matter, you may contact Mr. Brian Suzuki of my staff at 768-8349.

Very truly yours,

  
WAYNE Y. YOSHIOKA  
Director

cc: Office of Environmental Quality Control



Commander,  
Fourteenth Coast Guard District

300 Ala Moana Blvd. 9-216  
Honolulu, HI 96850-4882  
Staff Symbol: (dow)  
Phone: (808) 523-3412  
Fax: (808) 541-2309

16450

OCT 22 2009

Mr. Wynn Miyamoto  
Fukunaga & Associates, INC.  
1357 Kapiolani BLVD, Suite 1530  
Honolulu, HI 96814

Dear Mr. Miyamoto,

We have completed our review of the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 project and concur that the project, as proposed, would have a de minimus impact on the safe navigation of Honolulu Harbor. As such we have no objections to the project moving ahead as proposed in the Draft Environmental Assessment dated September 2009.

Should the scope of the project change or introduce a water component it is requested that you contact this office for further review and determination. Failure to do so could result in fines and or delays.

If you have any questions, please contact LT Douglas Miller at (808) 535-3412.

Sincerely,



D. V. Shephardson  
Lieutenant Commander, U.S. Coast Guard  
Chief, Waterways Management Branch  
By direction

Copy: Sector Honolulu



**DEPARTMENT OF BUSINESS,  
ECONOMIC DEVELOPMENT & TOURISM**

LINDA LINGLE  
GOVERNOR  
THEODORE E. LIU  
DIRECTOR  
MARK K. ANGLIM  
DEPUTY DIRECTOR  
ABBIE SETH MAYER  
DIRECTOR  
OFFICE OF PLANNING

**OFFICE OF PLANNING**

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

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

Ref. No. P-12790

October 2, 2009

Mr. Wynn Miyamoto  
Fukunaga & Associates, Inc.  
1357 Kapiolani Boulevard, Suite 1530  
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

We have the following comments on the draft environmental assessment (EA) for Ala Moana wastewater pump station (WWPS) force main #3.

It is important to note that the Office of Planning (OP) has special management area (SMA) permit authority for development in the makai area of the Kakaako community development district (CDD). The preferred corridor to install the proposed backup force main for the Ala Moana WWPS will cross into the makai area of the Kakaako CDD, which is situated in the SMA. We believe it is premature and perhaps incorrect for the draft EA to assert that a SMA permit is not required. The project will need to be submitted to us for that determination. In addition, the citation of LUO Chapter 25, should be replaced with Chapter 15-150, Hawaii Administrative Rules (HAR).

The State's Coastal Zone Management (CZM) area encompasses the entire State, and Chapter 205A, Hawaii Revised Statutes, requires all actions to be consistent and in compliance with the CZM objectives and policies. In this regard, the environmental assessment for the proposed project should include an assessment of the proposed action relative to each statutory CZM objective and its supporting policies. Pursuant to Section 11-200-17(l), HAR, this is important for satisfying the requirements of Chapter 343.

If there are any other questions about this, please feel free to contact Shichao Li of our CZM Program at 587-2841.

Sincerely,

*Mary Lou Kotayade for*

Abbey Seth Mayer  
Director



**DEPARTMENT OF THE ARMY**  
U.S. ARMY CORPS OF ENGINEERS, HONOLULU DISTRICT  
FORT SHAFTER, HAWAII 96859-5440

September 30, 2009

REPLY TO  
ATTENTION OF:

Regulatory Branch

Mr. Wynn Miyamoto  
Fukunaga and Associates, Inc.  
1388 Kapiolani Blvd., 2<sup>nd</sup> Floor  
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

This letter is in response to your request, dated September 24, 2009, for our review of the Draft Environmental Assessment (DEA) prepared pursuant to Chapter 343 of the Hawaii Revised Statutes (HRS) and Section 11-200 of the Hawaii Administrative Rules (HAR) for the proposed Ala Moana Wastewater Pump Station Force Main #3 project Honolulu, Island of Oahu, Hawaii (TMKs: 121015023 & 009, 115041005 & 006).

We have reviewed the above cited project information with respect to the Corps' authority to issue Department of Army (DA) permits pursuant to Section 10 of the Rivers and Harbors Act of 1899 (Section 10) and Section 404 of the Clean Water Act of 1972 (Section 404). Based on the information furnished to our office, a DA permit will be required prior to undertaking the work in and under navigable waters of the U.S. Please complete and submit for our review a complete DA permit application, located at [http://www.poh.usace.army.mil/EC-R/EC-R.htm#Apply\\_for\\_a\\_Permit](http://www.poh.usace.army.mil/EC-R/EC-R.htm#Apply_for_a_Permit). Please include with your DA permit application:

- Project drawings including vicinity maps, cross-section views and plan views;
- The location of disposal sites for excavated materials from the microtunnel boring. If such sites are other than existing landfill operations, identify impacts associated with the disposal of such materials at those sites;
- Description of any use of equipment that will be placed in navigable waters of the U.S.;
- An estimation of the total construction period;
- Site specific best management practices; and
- A detailed description of the short- and long-term maintenance activities associated with Force Main #3;

Section 10 requires that a DA permit be obtained for structures or work in or affecting navigable waters (e.g., Pacific Ocean) of the U.S. (33 U.S.C. 403). Section 404 requires that a DA permit be obtained for the discharge (placement) of dredge and/or fill material into waters of the U.S., including jurisdictional wetlands. The Corps defines wetlands as those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and under normal circumstances do support a prevalence of vegetation typically adapted for life in saturated soil conditions.

DA File No. POH-2009-0092



HAWAII COMMUNITY DEVELOPMENT AUTHORITY



KAKAIAKO

Linda Lingle  
Governor

C. Scott Bradley  
Chairperson

Anthony J. H. Ching  
Executive Director

677 Ala Moana Boulevard  
Suite 1001  
Honolulu, Hawaii  
96813

Telephone  
(808) 587-2870

Facsimile  
(808) 587-8150

E-Mail  
contact@hcdaweb.org

Web site  
www.hcdaweb.org

Ref. No.: PL WD 11.7a.4

October 13, 2009

Mr. Wynn Miyamoto  
Fukunaga & Associates, Inc.  
1357 Kapiolani Boulevard, Suite 1530  
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

Re: Ala Moana Wastewater Pump Station Force Main #3  
TMKs: 2-1-15: 23, 2-1-15: 09, 1-5-41: 05, 1-5-41: 06  
Draft Environmental Assessment

Thank you for the opportunity to review the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3.

After a review of the subject documents, we have the following comments to offer at this time:

Project Summary

1. The existing Hawaii Community Development Authority ("HCDA") Makai Area Plan and Rules designates the zoning as Public (PU) and MUZ (Mixed-Use Zone).
2. On Preconsultation Parties, Association should be replaced with Authority in the Hawaii Community Development Association. This comment is also applicable to page 43.

TOC-1 and TOC-4

The HCDA Makai Area Plan and Rules zoning should be included.

Kakaako Community Development Plan

Page 18, Section 3.3. The Kakaako Community Development Plan should include the zoning as MUZ-1 and PU for the area on TMK: 2-1-15: 09 and TMK: 2-1-15: 23, respectively.

Mr. Wynn Miyamoto  
Page Two  
October 13, 2009

HCDA Zoning Map

Include a zoning map for the Kakaako Makai Area similar to County Zoning Map on page 20.

Design and Location

1. The design and location of the proposed Ala Moana Wastewater Pump Station Force Main #3 should accommodate future infrastructure improvements along the Ilalo Street/Punchbowl Street Extension from Keawe Street to Ala Moana Boulevard.
2. We would like to propose a closer parallel alignment between the existing Force Main #1 and proposed Force main #3 to minimize the easement required on TMK: 2-1-15: 09.
3. The HCDA staff was informed in a previous meeting with the Department of Design and Construction and R.M. Towill Corporation that a gravity sewer system was also being proposed as an alternative to the existing forced main system. What is the status of that proposal?

Other

Page 11. There is a proposal by the University of Hawaii to relocate the proposed Cancer Research Center to the current site of the John A. Burns School of Medicine on TMKs: 2-1-60: 07, 09, and 10.

If there are any questions regarding this matter, please contact Arnold Imaoka at 587-2870.

Sincerely,

Anthony J. H. Ching  
Executive Director

AJHC/AJ:ak



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

October 20, 2009

Fukumaga & Associates, Inc.  
1357 Kapiolani Boulevard Suite 1530  
Honolulu, Hawaii 96814

Attention: Mr. Wynn Miyamoto

Ladies and Gentlemen:

Subject: Draft Environmental Assessment for Ala Moana Wastewater Pump Station Force Main #3

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 comment.

Other than the comments from Division of Aquatic Resources, Office of Conservation & Coastal Lands, Engineering Division, the Department of Land and Natural Resources has no other comments to offer on the subject matter. Historic Preservation will be submitting comments through a separate letter. Should you have any questions, please feel free to call our office at 587-0433. Thank you.

Sincerely,

*Charles E. Urotici*  
for Morris M. Atta  
Administrator



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

September 28, 2009

MEMORANDUM

TO: DLNR Agencies:  
 Div. of Aquatic Resources  
 Div. of Boating & Ocean Recreation  
 Engineering Division  
 Div. of Forestry & Wildlife  
 Div. of State Parks  
 Commission on Water Resource Management  
 Office of Conservation & Coastal Lands  
 Land Division - Oahu District



FROM: Morris M. Atta  
SUBJECT: Draft Environmental Assessment for Ala Moana Wastewater Pump Station Force Main #3

LOCATION: Island of Oahu

APPLICANT: Fukunaga and Associates, Inc. on behalf of the Department of Design & Construction, Wastewater Division

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by October 20, 2009.

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 my office at 587-0433. Thank you.

Attachments

- We have no objections.
- We have no comments.
- Comments are attached.

Signed: *[Signature]*  
Date: 6 OCT 2009

AQUATIC RESOURCES: 2694

DIRECTOR	
COMM. FISH.	
AO RES/ENV	
AO REC	
PLANNER	
STAFF SVCS	
REG/REG	
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APR/PED AID	
EDUCATION	
SECRETARY	
OFFICE SVCS	
TECH ASST	
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Director	



OK-10-60



LAURA L. THIELSEN  
GOVERNOR OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
OFFICE OF CONSERVATION AND COASTAL LANDS  
HONOLULU, HAWAII 96809

2009 SEP 29 A 9 59

STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION  
POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

September 28, 2009

MEMORANDUM

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

FROM: Morris M. Atta  
SUBJECT: Draft Environmental Assessment for Ala Moana Wastewater Pump Station Force Main #3

LOCATION: Island of Oahu  
APPLICANT: Fukunaga and Associates, Inc. on behalf of the Department of Design & Construction, Wastewater Division

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by October 20, 2009.

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 my office at 587-0433. Thank you.

Attachments

- We have no objections.
- We have no comments.
- Comments are attached.

Signed: *[Signature]*  
Date: 9/28/09



LAURA L. THIELSEN  
GOVERNOR OF HAWAII  
COMMISSION ON WATER RESOURCES MANAGEMENT  
RUSSELL V. TSUI  
KEN C. KAWAHARA  
DIRECTOR, WATER  
QUALITY RESOURCES  
DIVISION  
BUREAU OF CONSERVATION  
AND COASTAL LANDS  
CONSULTATION AND MANAGEMENT  
CONSULTATION AND MANAGEMENT  
ENGINEERING  
HISTORIC PRESERVATION  
MARINE RECREATION COMMISSION  
STATE PARKS

STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
OFFICE OF CONSERVATION AND COASTAL LANDS  
POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

REF:OCCL:TM

MEMORANDUM

TO: Morris M. Atta, Administrator  
Land Division

FROM: Samuel J. Lemmo, Administrator  
Office of Conservation and Coastal Lands

SUBJECT: Draft Environmental Assessment for the Proposed Ala Moana Wastewater Pump Station Force Main #3, Sand Island to Ala Moana, Oahu

Correspondence: OA 10-60  
OCT - 1 2009

*[Signature]*

The Office of Conservation and Coastal Lands (OCCL) has reviewed the subject document and as noted within the draft Environmental Assessment, the filing of a Conservation District Use Application (CDUA) is required for the proposed microtunneling under the Fort Armstrong Channel of Honolulu Harbor. The proposed public purpose use requires a Board permit therefore the decision to approve, deny or modify the project lies with the Board of Land and Natural Resources.

The OCCL requests that the proposed work within the Fort Armstrong Channel be describe more thoroughly. At what depth is the proposed tunneling taking place under the channel? Where are the two proposed 100-foot depths shafts? Where are the two additional receiving shafts at ≈ 30-40 feet depth? Where will excavated material be disposed? What best management practices will be observed?

In regards to Figure 2-2 and Figure 3-4, what are those squares delineated very near the shore on Sand Island and on Pier 1 near the #1 Force Main? As the proposed work takes place near the coast, discussion of the potential affects, if any, and mitigation of coastal hazards such as tsunami, earthquake, sea-level rise, storm and erosion on the proposed system should be included.

Should you have any questions regarding this correspondence contact Tiger Mills of our Office at (808) 587-0382.

LINDA JUNGLE  
GOVERNOR OF HAWAII



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION  
POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

RECEIVED  
LAND DIVISION  
2009 OCT 20 A 9 50

Laura H. Thelen  
Chairperson  
Board of Water Resource Managers  
Water Resource Management

September 28, 2009

MEMORANDUM

- TO:
- DLNR Agencies:
    - Div. of Aquatic Resources
    - Div. of Boating & Ocean Recreation
    - Engineering Division
    - Div. of Forestry & Wildlife
    - Div. of State Parks
    - Commission on Water Resource Management
    - Office of Conservation & Coastal Lands
    - Land Division - Oahu District

FROM: Morris M. Atta  
SUBJECT: Draft Environmental Assessment for Ala Moana Wastewater Pump Station Force Main #3

LOCATION: Island of Oahu  
APPLICANT: Fukunaga and Associates, Inc. on behalf of the Department of Design & Construction, Wastewater Division

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by October 20, 2009.

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 my office at 587-0433. Thank you.

Attachments

- We have no objections.
- We have no comments.
- Comments are attached.

Signed: *[Signature]*  
Date: 10/19/09

DEPARTMENT OF LAND AND NATURAL RESOURCES  
ENGINEERING DIVISION

LD/MorisAtta  
Ref.: DEAAIaMoanaWastewaterPumpStation#3  
Oahu.726

- 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. Robert Sumitomo (808) 768-8097 or Mr. Mario Siu Li at (808) 768-8098 of the City and County of Honolulu, Department of Planning and Permitting.
  - Mr. Frank DeMarco at (808) 961-8042 of the County of Hawaii, Department of Public Works.
  - Mr. Francis Cerizo at (808) 270-7771 of the County of Maui, Department of Planning.
  - Mr. Mario Antonio at (808) 241-6620 of the County of Kauai, Department of Public Works.

The applicant should include water demands and infrastructure required to meet project needs. Please note that projects within State lands requiring water service from the Honolulu Board of Water Supply system will be required to pay a resource development charge, in addition to Water Facilities Charges for transmission and daily storage. The applicant should provide the water demands and calculations to the Engineering Division so it can be included in the State Water Projects Plan Update.

- Additional Comments: \_\_\_\_\_
- Other: Our previous comments dated March 5, 2009 which was attached in the Draft Environmental Assessment document, still apply.

Should you have any questions, please call Ms. Suzie S. Agraan of the Planning Branch at 587-0258.

Signed: *[Signature]*  
CARY CHANG, ACTING CHIEF ENGINEER  
Date: 10/19/09

09 SEP 29 AM 10:40 ENGINEERING

DEPARTMENT OF PLANNING AND PERMITTING  
**CITY AND COUNTY OF HONOLULU**

650 SOUTH KING STREET, 7TH FLOOR - HONOLULU, HAWAII 96813  
TELEPHONE (808) 768-8000 - FAX (808) 768-5041  
DEPT. WEB SITE www.honolulu.gov - CITY WEB SITE www.honolulu.gov



MUFI HANNEMANN  
MAYOR

DAVID K. TANOUÉ  
DIRECTOR  
ROBERT M. SUMITOMO  
DEPUTY DIRECTOR

2009/ELOG-2309(MH)

October 29, 2009

Mr. Wynn Miyamoto  
Fukunaga & Associates, Inc.  
1357 Kapiolani Boulevard, Suite 1530  
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

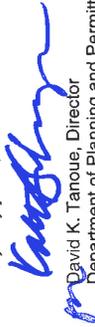
Subject: Draft Environmental Assessment for Ala Moana  
Wastewater Pump Station Force Main #3

In response to your request for comments of September 24, 2009 regarding the Draft Environmental Assessment (DEA) for the subject project, we have the following comments:

1. Section 3.7.1 of the Final Environmental Assessment (FEA) should disclose that since the proposed force main is not within the existing corridor, a Special Management Area Use Permit (SMP) will be required. The Department of Planning and Permitting will process the SMP for areas outside of the Kakaako District.
2. Please discuss the Wastewater Pump Station (WWPS) requirements of the proposed Force Main #3 if either WWPS #1 or #2 is to be used. A new WWPS would require a Public Infrastructure Map revision.

Should you have any questions, please contact Matt Higashida of our staff at 768-8045.

Very truly yours,

  
David K. Tanoué, Director  
Department of Planning and Permitting

DKT:js

cc: Office of Environmental Quality Control  
Department of Design and Construction

AlaMoanaFM#3

LINDA LINGLE  
GOVERNOR OF HAWAII



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

October 1, 2009

Mr. Wynn Miyamoto  
Fukunaga & Associates, Inc.  
1357 Kapiolani Blvd. Suite 1530  
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

Subject: Draft Environmental Assessment (DEA)  
for Ala Moana Wastewater Pump Station Force Main # 3  
TMK (1) 2-1-015: 023, 2-1-015: 009, 1-5-041: 005 and 1-5-041: 006  
Honolulu, Hawaii

Thank you for allowing us the opportunity to review the above subject project proposed to construct a new wastewater force main system to supplement the existing force main capacity and ensure adequate back up force main capacity serving the Ala Moana Wastewater Pump Station. We have the following comments and information on the above subject property:

We have no objections to the construction of the new wastewater force main and offer our approval. We are always satisfied to have improvements done to our existing wastewater systems. We encourage the developer to work with the City and utilize recycled water for irrigation and other non-potable water purposes wherever possible. Further, any means to reduce green house gas emissions, practice renewable energy and a reduction in waste is highly recommended.

Should you have any questions, please contact the Planning & Design Section of the Wastewater Branch at 586-4294.

Sincerely,

  
TOMAS SEE, P.E., CHIEF  
Wastewater Branch

c: City & County of Honolulu's DPP  
DOH's Environmental Planning Office, Jiakai Liu

CHYOME LEINAALA FUKINO, M.D.  
DIRECTOR OF HEALTH

In reply, please refer to:  
EMD / WB  
LUD-02 1 015 023  
DEA Ala Moana WWPS FM#3



October 7, 2009

Fukunaga & Associates, Inc.  
1388 Kapiolani Boulevard, 2nd Floor  
Honolulu, Hawaii 96814  
Attention: Mr. Wynn Miyamoto

Dear Mr. Miyamoto:

Subject: **Draft Environmental Assessment - Ala Moana Wastewater Pump Station Force Main #3**

Thank you for the opportunity to review and comment on the subject project in preparation of the Environmental Assessment.

Hawaiian Telcom does not have any comments to offer at this time. To avoid any conflicts with Hawaiian Telcom's underground and aerial facilities within the project site, 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 - OSP Engineering  
Network Engineering & Planning

cc: File [Alakea/Kalihi]

**BOARD OF WATER SUPPLY**

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



October 8, 2009

Ms. Wynn Miyamoto  
Fukunaga & Associates, Incorporated  
1357 Kapiolani Boulevard, Suite 1530  
Honolulu, Hawaii 96814

Dear Ms. Miyamoto:

Subject: **Letter Dated September 24, 2009 Requesting Comments on the Draft Environmental Assessment for Ala Moana Wastewater Pump Station Force Main #3. TMK: 2-1-15:009 & 023; 2-1-15:006 & 009, Honolulu**

Thank you for the opportunity to comment on the proposed project.

The comments in our letter dated March 5, 2009, which is included in Appendix A of the Pre-Environmental Assessment Comments and Responses, are still applicable.

If you have any questions, please contact Robert Chun at 748-5443.

Very truly yours,

KEITH S. SHIDA  
Program Administrator  
Customer Care Division

MUF HANNEMANN, Mayor  
RANDALL S. CHUNG, Chairman  
ALYCE A. HAYATA  
ALLY J. PARK  
ROBERT K. CUNDIFF  
WILLIAM K. MAHOE  
JEFFREY S. CUDJAMAT, Ex-Officio  
BRENNONT. MORIOKA, Ex-Officio  
WAYNE M. HASSISO, P.E.  
Manager and Chief Engineer  
DEAN A. MAKANO  
Deputy Manager and Chief Engineer



October 29, 2009

Mr. Wynn Miyamoto  
Fukunaga & Associates, Inc.  
1357 Kapiolani Boulevard - Suite 1530  
Honolulu, HI 96814

Dear Mr. Miyamoto:

**Re: Ala Moana Wastewater Pump Station  
Force Main #3  
TMKS 2-1-15: 23 & 09, 2-1-41: 05 & 06**

Thank you for the opportunity to review and comment on the DEA of the above-referenced project. The DEA acknowledges our existing facilities within the project area and that new work will be coordinated with all affected utilities. Hawaiian Electric Company, Inc. (HECO) has no objections at this time.

We appreciate your efforts to keep us apprised of the planning process. Please continue to keep us informed as the project progresses. To ensure HECO's continuing input in this project, please continue to work directly with our point of contact, Rouen Liu (543-7245). Thank you again for the opportunity to comment.

Sincerely,

Kirk S. Tomita  
Senior Environmental Scientist

cc: Ms. Katherine P. Kealoa (OEQC)  
R. Liu/K. Wong/R. Uemura  
I. Lee/M. Lum  
J. Hardisty/P. Nakagawa/M. Simmonds

KAULANA H. R. PARK  
HAWAIIAN HOME LANDS  
DEPARTMENT  
1515 KALANANAKU  
AVENUE, SUITE 1000  
HONOLULU, HAWAII 96813



**STATE OF HAWAII**  
DEPARTMENT OF HAWAIIAN HOME LANDS  
P.O. BOX 1875  
HONOLULU, HAWAII 96818

October 14, 2009

Mr. Wynn Miyamoto  
Fukunaga & Associates, Inc.  
1357 Kapiolani Boulevard, Suite 1530  
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

Subject: Draft Environmental Assessment; Ala Moana  
Wastewater Pump Station Force Main #3

Thank you for providing the Department of Hawaiian Home Lands (DHHL) the opportunity to review and comment on the subject Draft Environmental Assessment (DEA).

After a cursory review of the DEA we find that the planned action has no direct impact on Hawaiian home lands, therefore DHHL has no comments. However, we believe that the new upgrades will provide a better wastewater system for the area served by the Ala Moana Pump Station and we support those efforts.

Should you need further clarification, you may contact the undersigned at 620-9451.

Aloha and mahalo,

Linda Chinn, Administrator  
Land Management Division



PO Box 3000  
Honolulu, Hawaii 96802-3000  
www.hawaiigas.com

October 30, 2009

Mr. Wynn Miyamoto  
Fukunaga & Associates, Inc.  
1357 Kapiolani Blvd., Suite 1530  
Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

Subject: Draft Environmental Assessment (DEA) for  
Ala Moana Wastewater Pump Station Force Main #3

Based on our review of the Draft Environmental Assessment, it has been determined that the selected route for Ala Moana FM #3 is currently clear of utility gas facilities.

Thank you for the opportunity to review the DEA for the proposed project. Should there be any questions or if additional information is desired, please feel free to contact Karen Lung at 594-5008.

Sincerely,

The Gas Company, LLC

Charles E. Calvet, P.E.  
Manager, Engineering

CEC:ks  
09-171



Laura R. Thierren  
Honolulu, Hawaii  
Conservation and Natural Resources  
Department  
State of Hawaii

STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE HISTORIC PRESERVATION DIVISION  
601 KAMOKILA BOULEVARD, ROOM 555  
KAPOLEI, HAWAII 96707

November 24, 2009

Wynn Miyamoto  
Fukunaga & Associates  
1357 Kapiolani Blvd Site 1530  
Honolulu, HI 96814

LOG# 2009 4391  
DOC# 0911PA09

Dear Mr. Miyamoto:

RE: Draft Environmental Assessment (DEA)  
Ala Moana Wastewater Pump Station Force Main #3.  
Honolulu, Kona, O'ahu  
TMK (1) 2-1-15:23, 2-1-15:09, 1-5-41:05, 1-5-41:06

Thank you for your letter requesting comment on the above referenced project. We received your letter on September 30, 2009, and have missed the 30 day comment period. We apologize for our delayed response.

Section 4.11 notes that SHPD had been previously consulted and proved a "no effect to historic properties" determination.

This project proposes to add a third force main the Ala Moana Pumping Station to ensure sufficient capacity to carry wastewater for the greater Honolulu area. The project goes through highly developed areas consisting of fill lands that have been excavated in the past. As such, the project will have "no effect to historic properties."

Sincerely,

Nancy McMahon  
State Archaeologist

January 19, 2010

Mr. Daniel Quinn, State Parks Administrator  
DLNR Division of State Parks  
P.O. Box 621  
Honolulu, HI 96809

SUBJECT: Draft Environmental Assessment (DEA) for Ala Moana Wastewater Pump Station Force  
Main #3, TMK 2-1-15:23, 2-1-15:09, 1-5-41:05, 1-5-41:06, Honolulu, Oahu, Hawaii

Dear Mr. Quinn:

Thank you for taking the time to comment on the Draft Environmental Assessment for the Ala Moana  
Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and  
Construction. The following text has been added to section 2.2.2, describing the conditions of the 2 year  
construction period within SIRA:

*"The 2-year construction period is granted with the following conditions:*

- *During the 2 year construction period, the park will remain open to the public and impacts to public outdoor recreation will be minimized. This includes minimal disruption to camping, picnicking, and shoreline activities. The contractor will insure public safety and provide detours as needed for access to recreation areas.*
- *Upon completion of the installation of the force main, the ground surface will be leveled and grassed such that the area remains available for outdoor recreation.*
- *As a mitigation measure for the use of the park, the City will restore construction areas to better than the pre-existing condition. Details of the improvements will be coordinated with State Parks.*
- *The easement will not interfere with the use of the area for outdoor recreation once the project is completed."*

The following text has been added to section 6.10.1 regarding storage of equipment and material warranting a special use permit.

*"If oversized equipment or loads, or storage of equipment or materials are required, all appropriate permits will be obtained from DOT Highways and State Parks."*

A new section 6.13 has been added regarding impacts and mitigative measures for recreation areas.

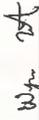
*"Facilities in the Sand Island Recreation Area may be affected during construction. Some of the facilities that may be affected by construction activities include, but are not exclusive to: campsites, marker tables, walking pathways, irrigation systems, paved parking areas and roadways, utilities, and boundary fencing."*



*Mitigative Measures: Alternate sites may be developed for displaced campsites or marker tables. Any facilities affected or damaged during construction shall be replaced and restored to better than existing condition. Replacement facilities shall meet all necessary requirements, including accessibility. Mitigative measures at SIRA shall be coordinated with State Parks."*

Thank you for your time and cooperation. Please call us if you have any questions.

Sincerely,

  
Wynn Miyamoto

JN/LKM/WRM/  
cc Carl Arakaki, DDC



January 19, 2010

Mr. Morris Atta, Administrator  
DLNR Land Division  
1151 Punchbowl Street, Room 220  
Honolulu, HI 96813

**SUBJECT:** Draft Environmental Assessment (DEA) for Ala Moana Wastewater Pump Station Force  
Main #3, TMK 2-1-15-23, 2-1-15-09, 1-5-41-05, 1-5-41-06, Honolulu, Oahu, Hawaii

Dear Mr. Atta:

Thank you for taking the time to comment on the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. The responding DLNR Agency comments have been addressed in the Final EA or will be addressed during design.

Land Division comments

The following text has been added to section 3.2 regarding Board of Land and Natural Resources approval:  
*"The proposed public purpose land use within the Conservation District requires a Conservation District Use Application Permit from the State Department of Land and Natural Resources, which requires approval from the Board of Land and Natural Resources."*

Office of Conservation and Coastal Lands comments

The following text has been added to section 3.2 regarding Board of Land and Natural Resources approval:  
*"The proposed public purpose land use within the Conservation District requires a Conservation District Use Application Permit from the State Department of Land and Natural Resources, which requires approval from the Board of Land and Natural Resources."*

The following text has been added to section 2.5.1 regarding microtunneling activities:

*"Installation of FM #3 and #4 by straight microtunneling requires two shafts approximately 100 feet deep to install the force main below the pier piles and harbor mudline. The force main will be approximately 25 feet below the harbor mudline. One deep shaft will be located in the SIRA and the other deep shaft will be located at the DOT-Harbors Pier 1. Two additional shafts, approximately 30 to 40 feet deep, also would be required. One of the shallower shafts would be located in the SIRA and the other shallower shaft would be located near the intersection of Ilalo Street and Forrest Avenue, outside of DOT-Harbors property."*

Best management practices are addressed in the Draft EA section 6.4.



Proposed shaft locations have been added to figure 2-2.

A new section 6.9 has been added to address coastal hazards:

*"The portion of the force main located in the SIRA is in flood zone A. The proposed force main will be installed underground and will not be impacted by flooding or sea level rise. During construction, in the event of a tsunami, earthquake or other natural disaster, the contractor will have an evacuation plan to ensure the safety of all workers."*

Engineering Division comments

The previous comments from the Draft EA Preconsultation regarding the flood zone is addressed in the Draft EA section 4.4.

Thank you for your time and cooperation. Please call us if you have any questions.

Sincerely,

Wynn Miyamoto

JN/LKM/WRM/

cc Carl Arakaki, DDC



January 19, 2010

Mr. Anthony Ching, Executive Director  
Hawaii Community Development Association  
677 Ala Moana Boulevard, Suite 1001  
Honolulu, HI 96813  
Attention: Mr. Arnold Imaoka

SUBJECT: Draft Environmental Assessment (DEA) for Ala Moana Wastewater Pump Station Force  
Main #3, TMK 2-1-15:23, 2-1-15:09, 1-5-41:05, 1-5-41:06, Honolulu, Oahu, Hawaii

Dear Mr. Ching,

Thank you for taking the time to comment on the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed as follows:

- The following text has been added to section 3.3 regarding the Kakaako Makai land use zoning: *"The Ala Moana WPPS is zoned as Public Use per the Kakaako Community Development District Makai Area Plan"*. The Kakaako Makai land use zoning for the pump station (TMK 2-1-15:23) has also been added to the project summary and added as figure 3-2. The Kakaako Makai land use zoning for Pier 1 and 2 (TMK 2-1-15:09) has not been added since Pier 1 and 2 are no longer in the jurisdiction of HCDA, pursuant to Act 165 (SLH 2006) as indicated on the HCDA website.
- The name under Preconsultation Parties has been changed to "Authority in the Hawaii Community Development Association" in the project summary and section 9.
- The location of the proposed Cancer Research Center does not appear finalized so the TMK has been removed. The text in section 2.4 now reads: *"The future Cancer Research Center of Hawaii is planned to be constructed in the area."*
- Under the section "Design and Location," the following are our comments:
  - o The proposed force mains will be coordinated with HCDA to minimize the affect on future infrastructure. Any necessary repairs will be made.
  - o The alignment of the proposed force main through TMK 2-1-15:09 was selected because the piles supporting Pier 1 were the shallowest in that location. Another alignment might require the channel crossing to be deeper, making construction more difficult. To protect Force Main #1 from potential damage, we do not want the alignment of the proposed force main to be too close to the existing. Also, the force main will be at sufficient depth that it should not affect future facilities at Pier 1.
  - o The gravity tunnel is a separate project that will have a separate EA if it is pursued.

FUKUNAGA & ASSOCIATES, INC.



Thank you for your time and cooperation. Please call us if you have any questions.

Sincerely,

  
Wynn Miyamoto

JN/LKM/WRM/  
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



January 19, 2010

Mr. Abbey Mayer, Director  
Department of Business, Economic Development, & Tourism: Office of Planning  
P.O. Box 2359  
Honolulu, Hawaii 96804  
Attention: Mr. Shichao Li

SUBJECT: Draft Environmental Assessment (DEA) for Ala Moana Wastewater Pump Station Force  
Main #3, TMK 2-1-15:23, 2-1-15:09, 1-5-41:05, 1-5-41:06, Honolulu, Oahu, Hawaii

Dear Mr. Mayer:

Thank you for taking the time to comment on the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Final EA or will be addressed during design. The following text from Section 3.7 has been modified to clarify the difference between the SMA in SIR4 and the SMA in the Kakaako Makai Area. Both SMA permits shall be pursued.

3.7.2 Special Management Area: Kakaako Makai Area

*Per Hawaii Administrative Rules (HAR), Chapter 15-150, an SMA Permit will be required for the work performed in the Kakaako Makai Area. This permit is administered by the State Office of Planning. This permit is separate from the SMA Permit administered by the City and County of Honolulu, Department of Planning and Permitting, Land Use Permits Division, as described below.*

The objectives and policies of the CZAM have been addressed as listed below:

- The following section 6.13 has been added to address recreational areas:  
"Facilities in the Sand Island Recreation Area may be affected during construction. Some of the facilities that may be affected by construction activities include, but are not exclusive to: campsites, marker tables, walking pathways, irrigation systems, paved parking areas and roadways, utilities, and boundary fencing.

Mitigative Measures: Alternate sites may be developed for displaced campsites or marker tables. Any facilities affected or damaged during construction shall be replaced and restored to better than existing condition. Replacement facilities shall meet all necessary requirements, including accessibility. Mitigative measures at SIR4 shall be coordinated with State Parks."

- Historic resources are addressed in the Draft EA section 6.8.

FUKUNAGA & ASSOCIATES, INC.



• The following section 6.14 has been added to address scenic and open spaces:

*"The proposed force main will be underground and will not affect any scenic or open space resources."*

- Coastal ecosystems are addressed in the Draft EA sections 6.4, 6.7, 6.15, and 6.16.
- Economic uses are addressed in the Draft EA section 6.12.
- The following section 6.9 has been added to address coastal hazards:

*"The portion of the force main located in the SIR4 is in flood zone A. The proposed force main will be installed underground and will not be impacted by flooding or sea level rise. During construction, in the event of a tsunami, earthquake or other natural disaster, the contractor will have an evacuation plan to ensure the safety of all workers."*

- The Environmental Review process includes identifying potential short and long term impacts of the proposed project, which fulfills the Managing development policy.
- Public participation is part of the Environmental Review process.
- Beach protection is addressed in the Draft EA section 3.9, which states that the project is not believed to be in the Shoreline Setback Area.
- Marine resources are addressed in the Draft EA sections 6.4, 6.7, 6.15, and 6.16.

Thank you for your time and cooperation. Please call us if you have any questions.

Sincerely,



Wynn Miyamoto

JN/LKM/WRM/

cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



January 19, 2010

Mr. George Young, Regulatory Branch Chief  
U.S. Army Corps of Engineers, Pacific Ocean Division  
U.S. Army Engineer District, Honolulu, Building 230  
Fort Shafter, HI 96858-5440  
Attention: Ms. Meris Bantilan-Smith

SUBJECT: Draft Environmental Assessment (DEA) for Ala Moana Wastewater Pump Station Force  
Main #3, TMK 2-1-15-23, 2-1-15-09, 1-5-41:05, 1-5-41:06, Honolulu, Oahu, Hawaii

Dear Mr. Young:

Thank you for taking the time to comment on the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. As stated in the Draft EA section 3.10, a Department of the Army permit is required for this project and will be obtained. The requirements listed in your comments shall be addressed.

Thank you for your time and cooperation. Please call us if you have any questions.

Sincerely,



Wynn Miyamoto

JN/LKM/WRM/  
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



January 19, 2010

Dr. Brennon Morioka, Director of Transportation  
DoT Highways Division  
869 Punchbowl Street, Room 513  
Honolulu, HI 96813  
Attention: Mr. David Shimokawa

SUBJECT: Draft Environmental Assessment (DEA) for Ala Moana Wastewater Pump Station Force  
Main #3, TMK 2-1-15-23, 2-1-15-09, 1-5-41:05, 1-5-41:06, Honolulu, Oahu, Hawaii

Dear Mr. Morioka

Thank you for taking the time to comment on the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Final EA or will be addressed during design. The following text has been added to section 6.10.1 to address the requirement for contractors to submit a copy of the monitoring maintenance program to DOT Highways:

*"A program to monitor leakage or falling debris from trucks shall be implemented. A copy of the program shall be submitted to DOT Highways prior to the start of construction."*

We will continue to coordinate with DOT Harbors through design and construction to minimize impacts. Requirements for a traffic control plan are in the Draft EA section 6.10.1.

Thank you for your time and cooperation. Please call us if you have any questions.

Sincerely,



Wynn Miyamoto

JN/LKM/WRM/  
cc Carl Arakaki, DDC

FUKUNAGA & ASSOCIATES, INC.



January 19, 2010

Mr. Wayne Yoshioka, Director  
City and County of Honolulu, Department of Transportation Services  
650 South King St, 3rd Floor  
Honolulu, HI 96813  
Attention: Mr. Brian Suzuki

SUBJECT: Draft Environmental Assessment (DEA) for Ala Moana Wastewater Pump Station Force  
Main #3, TMK 2-1-15:23, 2-1-15:09, 1-5-41:05, 1-5-41:06, Honolulu, Oahu, Hawaii

Dear Mr. Yoshioka:

Thank you for taking the time to comment on the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Final EA or will be addressed during design. Section 2.2.2 has been modified to state that each alternative on Sand Island "does not directly impact bus routes." Section 4.14.1 has been corrected to read "There is one bus route on Ilalo Street and Forrest Avenue." The construction note shall be included in design documents. The following text has been added to section 4.14.1 regarding ownership of roads in the area: "Forrest Avenue is currently owned by HCDA. Ilalo Street was dedicated to the City by HCDA. However, HCDA maintains the median along Ilalo Street. Ala Moana Boulevard and Sand Island Parkway are owned by the State." We will continue to coordinate with agencies and businesses within the area through design and construction.

Thank you for your time and cooperation. Please call us if you have any questions.

Sincerely,



Wynn Miyamoto

JN/LKM/WRM/

cc Carl Arakaki, DDC



January 19, 2010

Mr. David Tanoue, Director  
Department of Planning and Permitting  
650 South King St, 7th Floor  
Honolulu, HI 96813  
Attention: Mr. Matt Higashida

SUBJECT: Draft Environmental Assessment (DEA) for Ala Moana Wastewater Pump Station Force  
Main #3, TMK 2-1-15:23, 2-1-15:09, 1-5-41:05, 1-5-41:06, Honolulu, Oahu, Hawaii

Dear Mr. Tanoue:

Thank you for taking the time to comment on the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. Your comments have been addressed in the Final EA. The following text has been added to section 3.7.1 regarding the SMA permit in the Sand Island Recreation Area:  
*"The proposed force main is not within an existing easement. Therefore, an SMA major permit will need to be obtained."*

The following text has been added to section 2.1 regarding the use of the existing pump stations:

*"The force main system will utilize the existing Ala Moana Pump Stations. Construction of a new pump station is not required."*

Thank you for your time and cooperation. Please call us if you have any questions.

Sincerely,



Wynn Miyamoto

JN/LKM/WRM/

cc Carl Arakaki, DDC



January 19, 2010

Clyde Namuo, Administrator  
Office of Hawaiian Affairs  
711 Kapiolani Boulevard, Suite 500  
Honolulu, HI 96813  
Attention: Mr. Grant Arnold

**SUBJECT:** Draft Environmental Assessment (DEA) for Ala Moana Wastewater Pump Station Force Main #3, TMK 2-1-15:23, 2-1-15:09, 1-5-41:05, 1-5-41:06, Honolulu, Oahu, Hawaii

Dear Mr. Namuo:

Thank you for taking the time to comment on the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station Force Main #3 for the City and County of Honolulu Department of Design and Construction. The following text has been added to section 2.1 regarding the capacity of the Sand Island WWTP:

*"The Sand Island WWTP will not require upgrades as part of this project. As wastewater flows increase in the future and approach 2065 flows, upgrades to the pump stations and treatment plant may be required, which will be separate from this project."*

Thank you for your time and cooperation. Please call us if you have any questions.

Sincerely,

  
Wynn Miyamoto

JN/LKM/WRM/  
cc Carl Arakaki, DDC

