

MAY 19 2014

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May 19, 2014

Director  
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Department of Health  
State of Hawaii  
235 South Beretania Street, Suite 702  
Honolulu, Hawaii 96813

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OFFICE OF ENVIRONMENTAL  
QUALITY CONTROL

14 MAY 27 P1:24

RECEIVED

**SUBJECT: FINAL ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT (FONSI) FOR THE PROPOSED NORTH SHORE GREENWAY-PHASE IV PROJECT, PAIA, MAUI, HAWAII**

Dear Director:

With this letter, the County of Maui, Department of Public Works hereby transmits the Final Environmental Assessment (FEA) and Finding of No Significant Impact (FONSI) for the proposed North Shore Greenway-Phase IV situated on the makai side of Hana Highway between Ulupua Place and Baldwin Park in Paia on the Island of Maui for publication in the next available edition of The Environmental Notice.

Enclosed is a completed OEQC Publication Form, two (2) copies of the FEA, an Adobe Acrobat PDF file of the same, and an electronic copy of the publication form in MS Word. Simultaneous with this letter, we have submitted the summary of the action in a text file by electronic mail to your office.

Should you have any questions, please do not hesitate to contact our consultant, Colleen Suyama, at Munekiyo & Hiraga, Inc. at (808) 244-2015.

Sincerely,

DAVID C. GOODE  
Director of Public Works

DG/KW:gq(ED14-719)

S:\ENGINEERING\12-35 North Shore Greenway\EA Documents\OEQC\_Final EA\OEQCtrans.fromDPW.docx

Enclosures

cc: Kurt Watanabe, County of Maui, Department of Public Works, Engineering Division  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.  
Colleen Suyama, Munekiyo & Hiraga, Inc.

**AGENCY ACTIONS  
SECTION 343-5(B), HRS  
PUBLICATION FORM (FEBRUARY 2013 REVISION)**

**Project Name** North Shore Greenway--Phase IV  
**Island:** Maui  
**District:** Wailuku and Makawao  
**TMK:** (2)2-5-005:046(por.); (2)3-8-001:(Hana Highway Parcel); and (2)3-8-001:071(por.)  
**Permits:** National Pollutant Discharge Elimination System Permit, as applicable; Department of Health Community Noise Permit, as applicable; Special Management Area Assessment; Special Flood Hazard Development Permit, as applicable; Work to Perform in State Right-of-Way Permit; and Construction Permits (Grading and Grubbing)

**Proposing/Determination**

**Agency:** County of Maui, Department of Public Works  
*(Address,* 200 South High Street  
Wailuku, Hawaii 96793  
*Contact Person,* Contact: David Goode, Director  
*Telephone)* Phone No.: (808) 270-7845

REC'D OF ENVIRONMENTAL QUALITY CONTROL  
14 MAY 27 P 1:25  
PROJECT

**Accepting Authority:**

*(for EIS submittals only)*

**Consultant:** Munekiyo & Hiraga, Inc.  
*(Address,* 305 South High Street, Suite 104  
Wailuku, Hawaii 96793  
*Contact Person,* Contact: Colleen Suyama, Senior Associate  
*Telephone)* Phone No.: (808) 244-2015

**Status (check one only):**

- DEA-AFNSI Submit the proposing agency notice of determination/transmittal on agency letterhead, a hard copy of DEA, a completed OEQC publication form, along with an electronic word processing summary and a PDF copy (you may send both summary and PDF to [oeqchawaii@doh.hawaii.gov](mailto:oeqchawaii@doh.hawaii.gov)); a 30-day comment period ensues upon publication in the periodic bulletin.
- XFEA-FONSI Submit the proposing agency notice of determination/transmittal on agency letterhead, a hard copy of the FEA, an OEQC publication form, along with an electronic word processing summary and a PDF copy (send both summary and PDF to [oeqchawaii@doh.hawaii.gov](mailto:oeqchawaii@doh.hawaii.gov)); no comment period ensues upon publication in the periodic bulletin.
- \_\_FEA-EISPN Submit the proposing agency notice of determination/transmittal on agency letterhead, a hard copy of the FEA, an OEQC publication form, along with an electronic word processing summary and PDF copy (you may send both summary and PDF to [oeqchawaii@doh.hawaii.gov](mailto:oeqchawaii@doh.hawaii.gov)); a 30-day consultation period ensues upon publication in the periodic bulletin.
- \_\_Act 172-12 EISPN Submit the proposing agency notice of determination on agency letterhead, an OEQC publication form, and an electronic word processing summary (you may send the summary to [oeqchawaii@doh.hawaii.gov](mailto:oeqchawaii@doh.hawaii.gov)). NO environmental assessment is required and a 30-day consultation period upon publication in the periodic bulletin.
- \_\_DEIS The proposing agency simultaneously transmits to both the OEQC and the accepting authority, a hard copy of the DEIS, a completed OEQC publication form, a distribution list, along with an electronic word processing summary and PDF copy of the DEIS (you may send both the summary and PDF to [oeqchawaii@doh.hawaii.gov](mailto:oeqchawaii@doh.hawaii.gov)); a 45-day comment period ensues upon publication in the periodic bulletin.
- \_\_FEIS The proposing agency simultaneously transmits to both the OEQC and the accepting authority, a hard copy of the FEIS, a completed OEQC publication form, a distribution list,

along with an electronic word processing summary and PDF copy of the FEIS (you may send both the summary and PDF to [oeqchawaii@doh.hawaii.gov](mailto:oeqchawaii@doh.hawaii.gov)); no comment period ensues upon publication in the periodic bulletin.

\_\_\_ Section 11-200-23  
Determination

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

\_\_\_ Section 11-200-27  
Determination

The accepting authority simultaneously transmits its notice to both the proposing agency and the OEQC that it has reviewed (pursuant to Section 11-200-27, HAR) the previously accepted FEIS and determines that a supplemental EIS is not required. No EA is required and no comment period ensues upon publication in the periodic bulletin.

\_\_\_ Withdrawal (explain)

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

The North Shore Greenway-Phase IV will be the final phase of bikepath which will run east from Ulupua Place and connect with the existing path directly east of H.A. Baldwin Park in Paia, Maui, Hawaii. The proposed project runs on the makai side of Hana Highway with two (2) proposed easements affecting Maui Country Club and H.A. Baldwin Park. The purpose of the proposed project is to complete the North Shore Greenway project in order to create an alternative route of transportation for pedestrians and bikers. The proposed project involves a new eight (8) foot wide asphaltic concrete pavement set approximately 7.5 feet away from the lane of vehicular travel. The proposed project also involves the construction of a bridge crossing to enable the Greenway to traverse the Kailua Gulch.

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# **Final Environmental Assessment**

## **PROPOSED NORTH SHORE GREENWAY–PHASE IV (TMK (2)2-5-005:046(por.), (2)3-8-001:(Hana Highway Parcel), and (2)3-8-001:071(por.))**

**Prepared for:**

**County of Maui**

**Department of Public Works**

**Approving Agency:**

**County of Maui**

**Department of Public Works**

**May 2014**

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## **List of Acronyms**

A&B	Alexander and Baldwin Company
AFNSI	Anticipated Finding of No Significant Impact
AIS	Archaeological Inventory Survey
ALISH	Agricultural Lands of Importance to the State of Hawaii
AMP	Archaeological Monitoring Plan
ASL	Above Sea Level
BMP	Best Management Practice
CFS	Cubic Feet per Second
CWA	Clean Water Act
CWRM	Commission on Water Resource Management
CZM	Coastal Zone Management
DA	U.S. Department of the Army
DHHC	Department of Housing and Human Concerns
DLNR	Department of Land and Natural Resources
DOE	Department of Education
DOH	Department of Health
DPR	Department of Parks and Recreation
DPW	Department of Public Works
DWS	Department of Water Supply
EA	Environmental Assessment
FEMA	Federal Emergency Management Agency

FIRM	Flood Insurance Rate Map
FONSI	Finding of No Significant Impact
GPM	Gallons per Minute
HAR	Hawaii Administrative Rules
HC&S	Hawaiian Commercial & Sugar Company
HCZMP	Hawaii Coastal Zone Management Program
HRS	Hawaii Revised Statutes
IaA	Iao Silty Clayp
LSB	Land Study Bureau
LUC	Land Use Commission
MGD	Million Gallons per Day
Mg/L	Milligram per Liter
MIP	Maui Island Plan
MSL	Mean Sea Level
MuA	Molokai Silty Clay Loam (0 to 3 percent slope)
MuB	Molokai Silty Clay Loam (3 to 7 percent slope)
NPDES	National Pollutant Discharge Elimination System
NSG	North Shore Greenway
OHWL	Ordinary High Water Mark
PpA	Pulehu Silt Loam (0 to 3 percent slope)
PpB	Pulehu Silt Loam (3 to 7 percent slope)
RGB	Rural Growth Boundary
SCS	Scientific Consultant Service

SDOT	State Department of Transportation
SHPD	State Historic Preservation Division
SMA	Special Management Area
SRB	Small Town Boundaries
TMK	Tax Map Key
UGB	Urban Growth Boundary
USDA	U.S. Department of Agriculture
WKWRF	Wailuku Kahului Wastewater Reclamation Facility

## **Executive Summary**

<b>Project Name:</b>	Proposed North Shore Greenway--Phase IV
<b>Type of Document:</b>	Final Environmental Assessment
<b>Legal Authority:</b>	Chapter 343, Hawaii Revised Statutes
<b>Anticipated Determination:</b>	Finding of No Significant Impact (FONSI)
<b>Applicable Environmental Assessment review "Trigger":</b>	Use of State and County Lands and County Funds
<b>Location:</b>	Maui Island Wailuku and Makawao Districts, Maui TMK Nos. (2)2-5-005:046(por.), (2)3-8-001:(Hana Highway Parcel), and (2)3-8-001:071(por.)
<b>Landowner:</b>	<ol style="list-style-type: none"><li>1. TMK (2)2-5-005:046(por.): A&amp;B Hawaii, Inc. (Leased to County of Maui)</li><li>2. TMK (2)3-8-001:(Hana Highway Parcel): State of Hawaii</li><li>3. TMK (2)3-8-001:071(por.): Maui Country Club</li></ol>
<b>Applicant:</b>	County of Maui, Department of Public Works 200 South High Street Wailuku, Hawaii 96793 Contact: David Goode, Director Phone: (808) 270-7845
<b>Approving Agency:</b>	County of Maui, Department of Public Works 200 South High Street Wailuku, Hawaii 96793 Contact: David Goode, Director Phone: (808) 270-7845

**Consultant:**

Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawai'i 96793  
Contact: Colleen Suyama, Senior Associate  
Phone: (808) 244-2015

**Project Summary:**

The County of Maui, Department of Public Works is proposing Phase IV of the North Shore Greenway that stretches from Ulupua Place to H.A. Baldwin Park where it will connect with the existing bike path. The project will be constructed on the west bound shoulder of Hana Highway (TMK (2)3-8-001) with a portion traversing the Maui Country Club (TMK (2)3-8-001:071) and the H.A. Baldwin Park (TMK (2)2-5-005:046).

Phase IV is the final phase of the North Shore Greenway project and will replace the existing westbound bike lane on Hana Highway. The bike path will be eight (8) feet wide with asphaltic concrete pavement. The new bike path will be aligned approximately 7 ½ feet from the pavement edge of Hana Highway.

A portion of the bike path will cross Kailua Stream as it nears H.A. Baldwin Park. An existing 4.2 feet by 9.7 feet box culvert crosses under Hana Highway to allow stormwater runoff to cross the highway. The proposed project will include the installation of a con/span or approved equal system that will enable the Greenway to bridge Kailua Stream.

The use of State and County lands and County funds are triggers for Chapter 343, Hawaii Revised Statutes (HRS) environmental review requirements. As such, an Environmental Assessment (EA) is being prepared to disclose the project's technical characteristics, alternatives, potential impacts, and proposed mitigation measures. A portion of the project site is located in the Special Management Area (SMA) of the island of Maui and the EA will serve as the supporting technical document for the SMA Assessment Application.

# I. PROJECT OVERVIEW

# I. PROJECT OVERVIEW

## A. PROJECT LOCATION, EXISTING USE, AND LAND OWNERSHIP

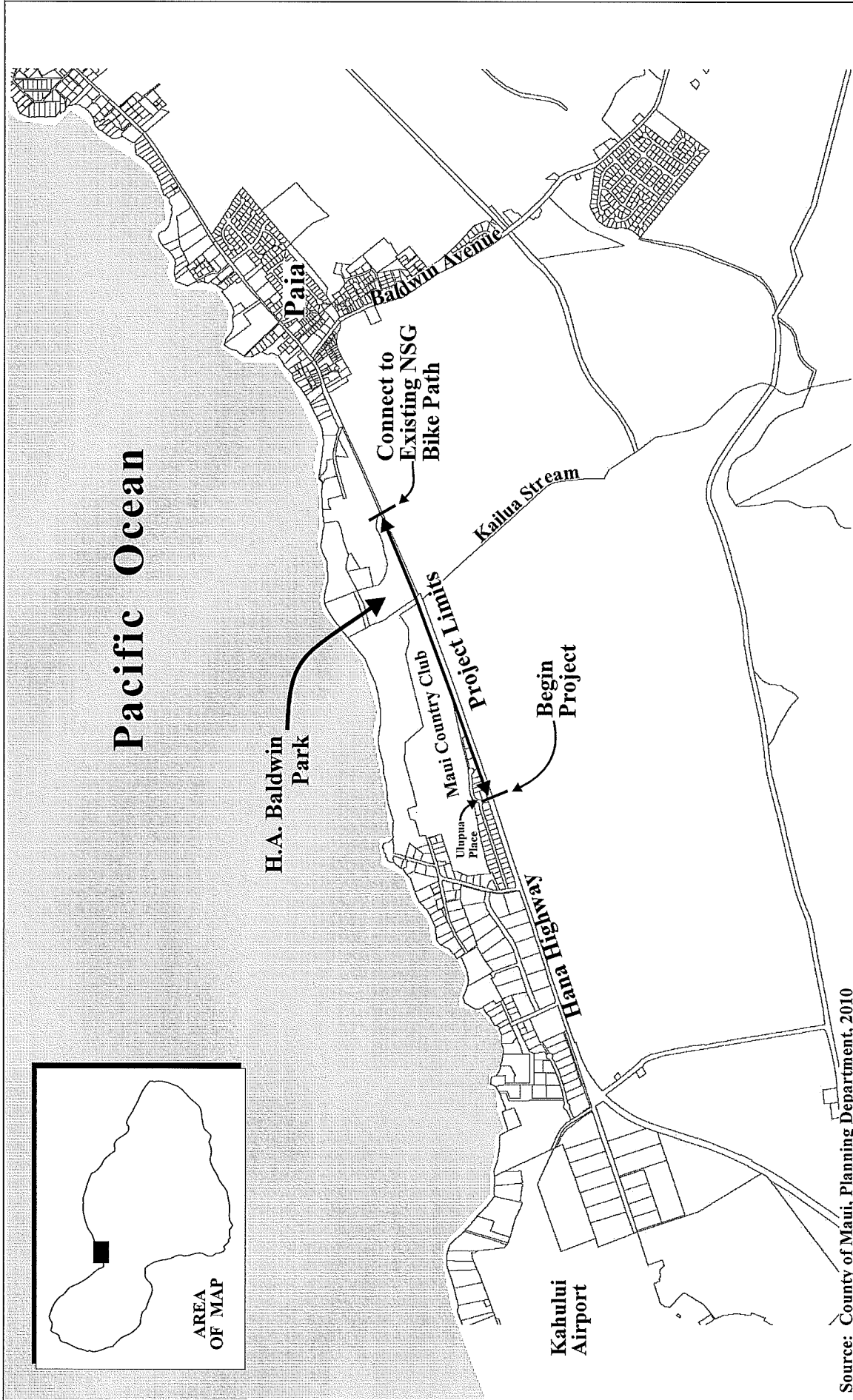
The applicant, the County of Maui, Department of Public Works (DPW), is proposing Phase IV of the North Shore Greenway (NSG) that stretches from Ulupua Place, Paia, Maui, Hawaii to H.A. Baldwin Park where it will connect with the existing bike path. See **Figure 1**. The project will be constructed on the westbound shoulder of Hana Highway (TMK (2)3-8-001:(Hana Highway parcel)) with a portion traversing the Maui Country Club (TMK (2)3-8-001:071) and H.A. Baldwin Park (TMK (2)2-5-005:046). Hana Highway is a State of Hawaii roadway facility while the Maui Country Club owns the golf course and A&B Hawaii, Inc. holds title to lands underlying H.A. Baldwin Park.

The Hana Highway right-of-way, within which a large segment of the Phase IV alignment is located, falls within the State Land Use “Agricultural” district. Those segments of the project falling within the Maui Country Club property and H.A. Baldwin Park are located within the State Land Use “Urban” district. The Wailuku-Kahului Community Plan designates the golf course portion of the Phase IV alignment as “Park”, with the Paia-Haiku Community Plan also designating the H.A. Baldwin Park portion as “Park”. Hana Highway falls within the Community Plans’ “Agricultural” land use designation. The golf course portion of the subject property is designated as “Pk-4, Golf Course Park District”, and the H.A. Baldwin Park portion is designated as “Pk-2, Community Park District” by Maui County zoning. Hana Highway is zoned by the County of Maui as “Agricultural”.

It is noted that the northern or makai right-of-way limits of Hana Highway delineates the County of Maui’s Special Management Area (SMA). Areas lying north of the Hana Highway right-of-way, therefore, fall within the SMA and are subject to the Maui Planning Commission’s SMA Rules. Segments of the Phase IV project which are subject to SMA permitting include that which traverses the Maui Country Club and H.A. Baldwin Park.

## B. PROJECT BACKGROUND

The NSG is a seven (7) mile pedestrian and bike path that runs from Kahului to Paia. See **Figure 2**. Phase IV is the final link to complete the path. This final phase will link Spreckelsville to H.A. Baldwin Park where it will connect to the existing bike path.



Source: County of Maui, Planning Department, 2010

**Figure 1** Proposed North Shore Greenway-Phase IV  
Regional Location Map

NOT TO SCALE



Prepared for: County of Maui, Department of Public Works



MUNEKIYO & HIRAGA, INC.  
RTTanaka\NS GreenwayPhIV\Regional Location





Source: Google Earth

## Figure 2 Proposed North Shore Greenway-Phase IV

Aerial View of Entire North Shore Greenway



NOT TO SCALE

Prepared for: County of Maui, Department of Public Works



MUNEKIYO & HIRAGA, INC.

RTTanakaNS GreenwayPHIV Aerial

The County of Maui, along with community advocates, have been planning and developing this bike path over the past twenty years. The purpose for the bike path is to accommodate bicyclists and pedestrians through the provision of their own safe lane of transportation.

**C. PROPOSED ACTION**

The proposed NSG–Phase IV is the final phase of the NSG project. The Phase IV component of the Greenway will stretch from Ulupua Place to H.A. Baldwin Park where it will connect with the existing bike path. See Figure 3. This project will replace the current westbound bike lane on Hana Highway. The typical section depicts an 8 foot-wide bicycle asphaltic concrete pathway set approximately 7½ feet away from the current lane of vehicle travel. See **Figure 4**.

Approximately 360 feet west of H.A. Baldwin Park lies Kailua Stream. Currently, a 4.2 feet x 9.7 feet box culvert runs under Hana Highway to allow stormwater runoff to cross the highway. Refer to **Figure 3**. The proposed project proposes the installation of a con/span or approved equal system that will enable the Greenway to bridge Kailua Stream.

**D. PROJECT NEED**

Over the past twenty years, the County of Maui has been constructing the NSG to provide alternate modes of transportation, via walking and biking, from Kahului to Paia. This project will complete the project by connecting Spreckelsville and H.A. Baldwin Park. The completed NSG will provide a safer lane of travel for bikers and pedestrians.

**E. REGULATORY REQUIREMENTS**

The proposed Phase IV of the NSG will involve the use of State and County lands and will be funded by the County of Maui, DPW. The use of State and County lands and County funds triggers the preparation of an Environmental Assessment (EA), pursuant to Chapter 343, Hawaii Revised Statutes (HRS) and Chapter 200 of Title 11, Department of Health (DOH), Hawaii Administrative Rules (HAR). The Draft EA has been prepared to evaluate the technical characteristics, environmental impacts and alternatives, as well as advance findings relative to the significance of the project. The Approving Agency for the EA is the DPW.

As previously noted, a bridge crossing over Kailua Stream is proposed to accommodate the construction of the Greenway. Work over the Kailua Stream may trigger requirements of the U.S. Department of the Army (DA) pursuant to Section 404 of the



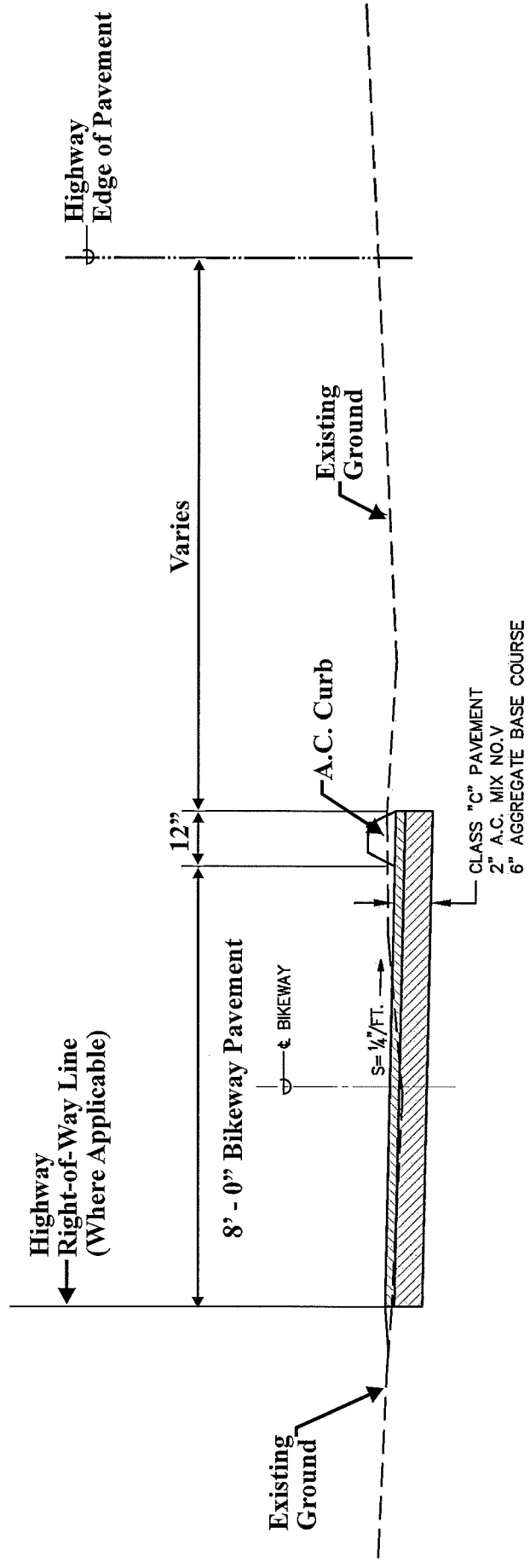
Source: Pictometry

**Figure 3** Proposed North Shore Greenway-Phase IV  
Project Location Map

NOT TO SCALE



Prepared for: County of Maui, Department of Public Works



Source: R.T. Tanaka Engineers, Inc.

**Figure 4** Proposed North Shore Greenway-Phase IV  
Typical Section of Greenway

NOT TO SCALE



Prepared for: County of Maui, Department of Public Works



MUNEKIYO & HIRAGA, INC.

RTTanaka\NS GreenwayPhIV\Typical Section

Clean Water Act (CWA). Coordination will be undertaken with the DA to confirm whether the proposed bridge crossing will be deemed an action falling under the jurisdiction of the DA. Installation of a con/span or approved equal system to accommodate the bridge crossing at Kailua Stream may also require a Stream Channel Alteration Permit from the Department of Land and Natural Resources (DLNR), Commission on Water Resources Management (CWRM).

Inasmuch as portions of the project alignment falls within the County's SMA, a SMA permit will be required.

**F. PROJECT FUNDING AND SCHEDULING**

The total estimated construction cost of the proposed project is \$1.75 million. Assuming all necessary approvals and entitlements are obtained, construction of the proposed improvements is expected to begin in early 2016, with an estimated construction duration of six (6) to nine (9) months.

## **II. DESCRIPTION OF THE EXISTING ENVIRONMENT, POTENTIAL IMPACTS AND MITIGATION MEASURES**

## II. DESCRIPTION OF THE EXISTING ENVIRONMENT, POTENTIAL IMPACTS AND MITIGATION MEASURES

### A. PHYSICAL SETTING

#### 1. Surrounding Land Uses

##### a. Existing Conditions

The North Shore Greenway (NSG)–Phase IV project is located along the northern coast of Maui, between Spreckelsville and the H.A. Baldwin Park in Paia. Spreckelsville is a small community that sits in between Kahului and Paia, and is known historically as a community where plantation owners, managers, sugarcane field workers, and their families lived. Phase IV of the NSG begins at Ulupua Street which serves the Maui Country Club Subdivision.

Paia is a small town oriented around a commercial core originally surrounded by various plantation camps. Many of these camps disappeared when the Kahului Town Development “Dream City” provided home ownership to these plantation workers. New residential developments have replaced the camps and surround the small shops, restaurants, and galleries located within the town of Paia. The primary agricultural activity in and around Paia is sugarcane cultivation. H.A. Baldwin Park represents the gateway entrance into this small town. H.A. Baldwin Park is a County of Maui beach park with a pavilion, restroom, and open field areas.

The proposed project runs along the north side of Hana Highway, adjacent to single-family residences and the Maui Country Club Golf Course. The County of Maui Department of Water Supply (DWS) maintains a pump station on the north side of the highway as well. Lands bordering Hana Highway to the south encompasses agricultural lands. The agricultural lands are utilized for sugarcane cultivation by Hawaiian Commercial & Sugar Company (HC&S). Kailua Stream traverses Hana Highway through the Phase IV corridor near H.A. Baldwin Park.

**b. Potential Impacts and Mitigation Measures**

Phase IV of the NSG encompasses an approximately 4,300 lineal foot bike and pedestrian path. The majority of the proposed greenway facility falls within the existing Hana Highway right-of-way. At the DWS's pump station location, the Greenway facility veers to the north, circumnavigating the pump station facility which lies within the Hana Highway right-of-way. This routing scenario requires that the bikeway be placed along the southern edge of the Maui Country Club Golf Course. An approximately 65 lineal foot section of the Greenway will fall within the Country Club boundary. Design coordination will be undertaken with the Maui Country Club to ensure that golf operations are not adversely affected by this segment of the Greenway.

At H.A. Baldwin Park, the path falls within the Park boundaries, traveling parallel with Hana Highway.

The path will be eight (8) feet wide with a one (1) foot wide curbing on the roadside edge. For the majority of the path, the Hana Highway travelway will be approximately 7 ½ feet away from the paved vehicular travelway. The proposed Greenway will improve bicycle and pedestrian safety along this segment of Hana Highway by providing a separate paved travelway for non-motorized vehicles and pedestrians. There are no adverse land use impacts associated with the proposed project.

The project corridor lies on the north side of the Hana Highway right-of-way and is not expected to adversely impact the surrounding agricultural uses in the vicinity.

**2. Climate**

**a. Existing Conditions**

Hawaii's tropical location results in uniform weather conditions throughout the year. Climatic conditions on Maui are characterized by mild year-round temperatures, moderate humidity, and steady northeasterly tradewinds. Variations in Maui's weather are attributable to regional topographic climatic conditions.

Paia is situated on the north coast of the island. Between 1981 and 2010, the average annual rainfall for the area, measured at Kahului Airport



located to the west of the project area, was approximately 18.49 inches per year. The wettest month is January while the driest month is June. Temperature recorded at the Kahului Airport range from an average daily low of 67.3 degrees Fahrenheit to an average daily high of 83.8 degrees Fahrenheit. The warmest month in the region is August while the coolest month is February (County of Maui, Office of Economic Development, 2012).

**b. Potential Impacts and Mitigation Measures**

The proposed project is limited to the construction of the fourth phase of the NSG. Significant adverse impacts to climatic conditions are not anticipated with implementation of this proposed project.

**3. Topography and Soils**

**a. Existing Conditions**

The project site is located at the transition between urban land uses and agricultural land uses. South of Hana Highway are sugarcane fields while land uses to the north include the Maui Country Club Subdivision, Maui Country Club Golf Course, and H.A. Baldwin Park. The elevation of the Hana Highway section which encompasses the Phase IV Greenway is approximately 11 to 31 feet above mean sea level (msl). The surrounding lands slope gently towards the Pacific Ocean.

Underlying the project area are soils belonging to the Pulehu-Ewa-Jaucas Association and the Waiakoa-Keahua-Molokai Association. See **Figure 5**. The Pulehu-Ewa-Jaucas Association is characterized by well drained, excessively drained, medium-textured, moderately fine textured, and coarse-textured soils on alluvial fans and in basins. These soils are nearly level to moderately sloping. The Waiakoa-Keahua-Molokai Association is characterized by well-drained and moderately fine textured soils on low uplands. These soils are nearly level to moderately steep (U.S. Soil Conservation Service, 1972).

There are multiple soil types underlying the project area. See **Figure 6**. They are Molokai silty clay loam (MuA, 0 to 3 percent slopes), Molokai silty clay loam (MuB, 3 to 7 percent slopes), Iao silty clay (IaA, 0 to 3 percent slopes), Pulehu silt loam (PpA, 0 to 3 percent slopes), and Pulehu silt loam (PpB, 3 to 7 percent slopes).

# LEGEND

- |  |                                     |
|--|-------------------------------------|
| ① Pulehu-Ewa-Jaucas association                | ⑦ Hana-Makaalae-Kailua association  |
| ② Waiakoa-Keahua-Molokai association           | ⑧ Pauwela-Haiku association         |
| ③ Honolua-Olelo association                    | ⑨ Laumaia-Kaipoi-Olinda association |
| ④ Rock land-Rough mountainous land association | ⑩ Keawakapu-Makena association      |
| ⑤ Puu Pa-Kula-Pane association                 | ⑪ Kamaole-Oanapuka association      |
| ⑥ Hydrandepts-Tropaquods association           |                                     |

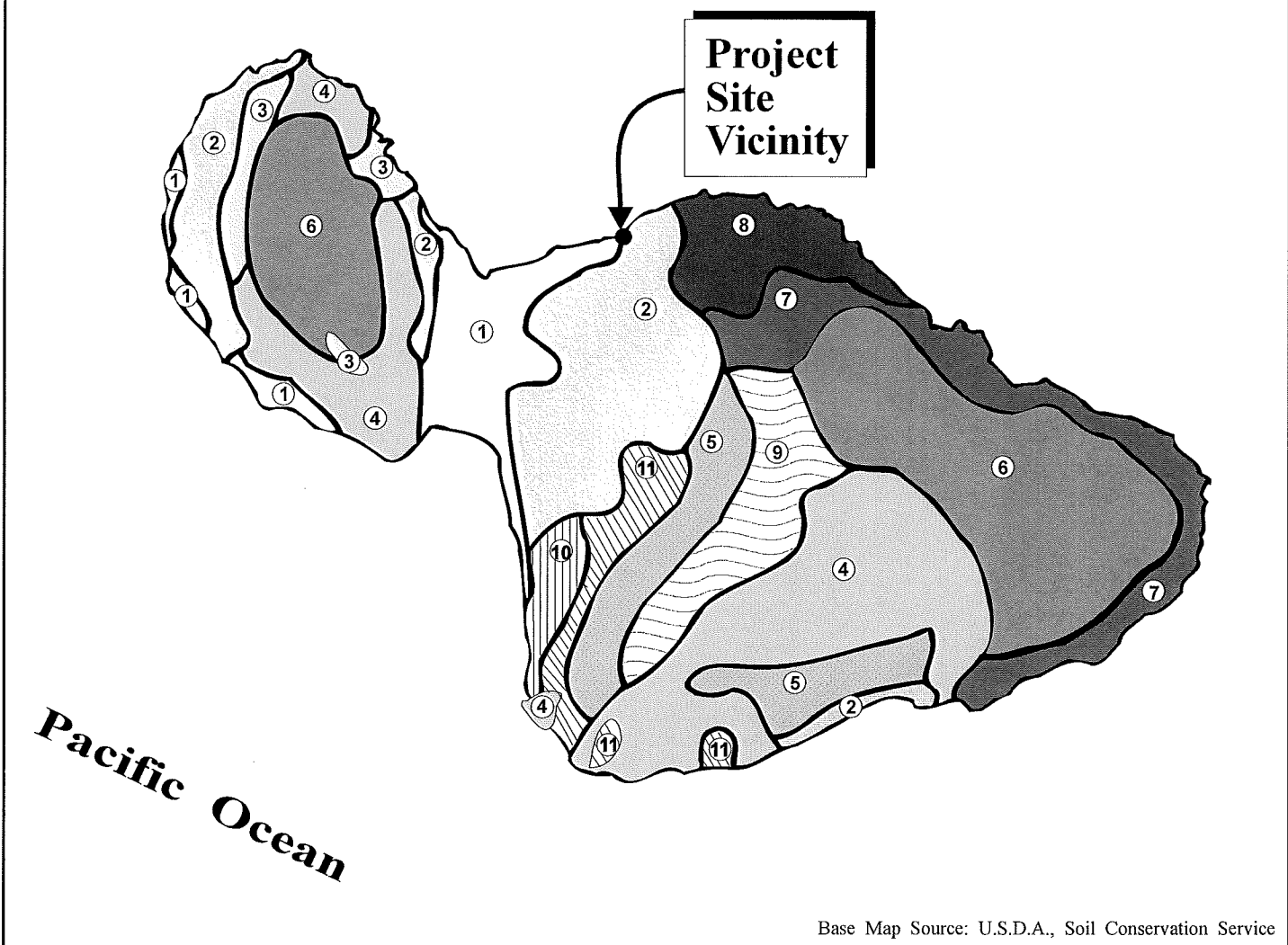


Figure 5

Proposed North Shore  
Greenway-Phase IV  
Soil Association Map

NOT TO SCALE

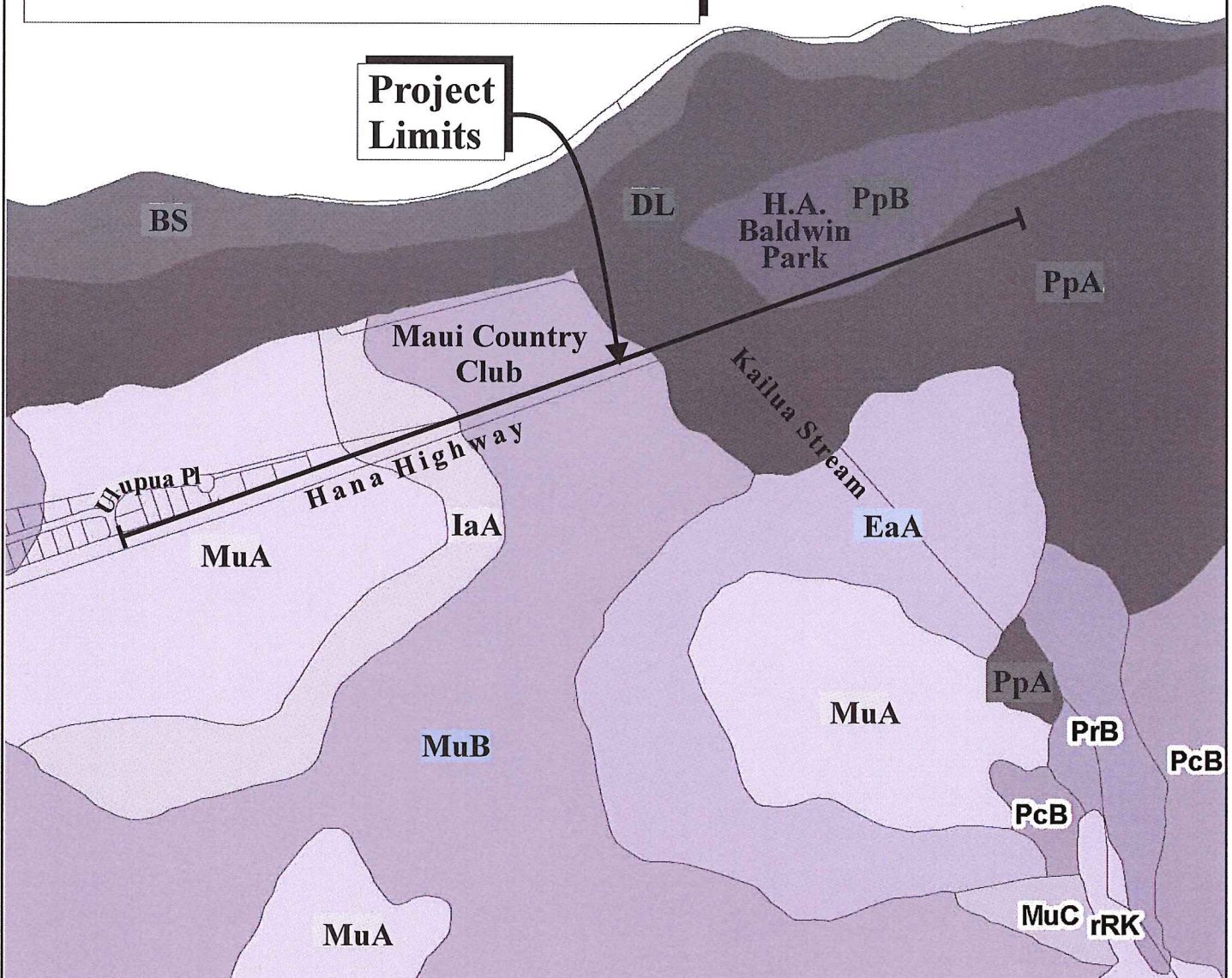


**Legend**

- BS Beach Sand
- DL Dune Land
- EaA Ewa silty clay loam, 0 to 3 percent slopes
- IaA Iao silty clay, 0 to 3 percent slopes
- MuA Molokai silty clay loam, 0 to 3 percent slopes
- MuB Molokai silty clay loam, 3 to 7 percent slopes
- MuC Molokai silty clay loam, 7 to 15 percent slopes
- PcB Paia silty clay, 3 to 7 percent slopes
- PpA Pulehu silt loam, 0 to 3 percent slopes
- PpB Pulehu silt loam, 3 to 7 percent slopes
- PrB Pulehu cobbly silt loam, 3 to 7 percent slopes
- rRK Rock Land

Pacific Ocean

**Project Limits**



Source: USDA Natural Resources Conservation Service, Soil Survey Geographic Database, 2006

Figure 6

Proposed North Shore  
Greenway-Phase IV  
Soil Classification Map



Prepared for: County of Maui, Department of Public Works

**b. Potential Impacts and Mitigation Measures**

There are no geologic or soil hazard limitations associated with the project area. As such, the proposed greenway is compatible with its underlying soil characteristics.

**4. Agriculture**

**a. Existing Conditions**

The State Department of Agriculture has established three (3) categories of Agricultural Lands of Importance to the State of Hawaii (ALISH). The ALISH system classifies lands into “Prime”, “Unique”, and “Other Important Agricultural Land”. The remaining lands are “Unclassified”. Utilizing modern farming methods, “Prime” agricultural lands have the soil quality, growing season, and moisture supply needed to produce sustained crop yields economically, while “Unique” agricultural lands possess a combination of soil quality, location, growing season, and moisture supply currently used to produce sustained high yields of a specific crop. “Other Important Agricultural Land” includes those which have not been rated as “Prime” or “Unique”. The project sites are located on lands defined as both “Prime” and “Unclassified” agricultural lands by the ALISH rating system. See **Figure 7**.





In addition, the University of Hawaii, Land Study Bureau (LSB) classifies productivity characteristics on a scale of “A” through “E”. Lands designated as “A” reflects the highest productivity and “E” represent lands with the lowest productivity. Lands underlying the project site within the Hana Highway right-of-way have been designated as “A” by the LSB. See **Figure 8**.

**b. Potential Impacts and Mitigation Measures**

The proposed NSG–Phase IV will be constructed on the north shoulder of Hana Highway. There are no agricultural activities along this side of the highway. Additionally, the installation of the NSG–Phase IV is not expected to adversely affect or limit agricultural operations along the southern extent of Hana Highway.

# Pacific Ocean

## Legend

-  Unclassified
-  Prime Lands
-  Unique Lands
-  Other Lands

H.A.  
Baldwin  
Park

Kailua Stream

Project Limits

Maui Country Club

Hana Highway

Waimo Place

Source: State Department of Agriculture, 1977; U.S. Department of Agriculture, Soil Conservation Service, University of Hawaii College of Tropical Agriculture

**Figure 7** Proposed North Shore Greenway-Phase IV  
Agricultural Lands of Importance in the State of Hawaii Map



NOT TO SCALE



Pacific Ocean

Project Limits

H.A. Baldwin Park






Maui Country Club

Kaiua Stream

Hana Highway

Uluoua Place

**Legend**

-  A
-  B
-  C
-  D
-  E

Source: University of Hawaii Land Study Bureau, 1967 and 1998

Figure 8

Proposed North Shore  
Greenway-Phase IV  
Land Study Bureau Map

NOT TO SCALE



Prepared for: County of Maui, Department of Public Works



RTTanaka\NS GreenwayPhIVLSB

5. **Flood and Tsunami Conditions**

a. **Existing Conditions**

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM), the project area is located in Flood Zone X, AE and AEF. Flood Zone AE is located at Kailua Stream and H.A. Baldwin Park. See **Figure 9**. Flood Zone X represents areas of minimal flooding and Flood Zone AE represents areas subject to inundation by the one (1) percent annual chance flood. The one (1) percent annual flood (100-year flood) is also known as the base flood. The base flood has a one (1) percent chance of being equaled or exceeded in any given year. Flood Zone AEF identifies floodway areas in Zone AE. The floodway is the channel of the stream and any adjacent flood plain areas that must be kept free of encroachments.

This project area is also located within a tsunami evacuation zone.

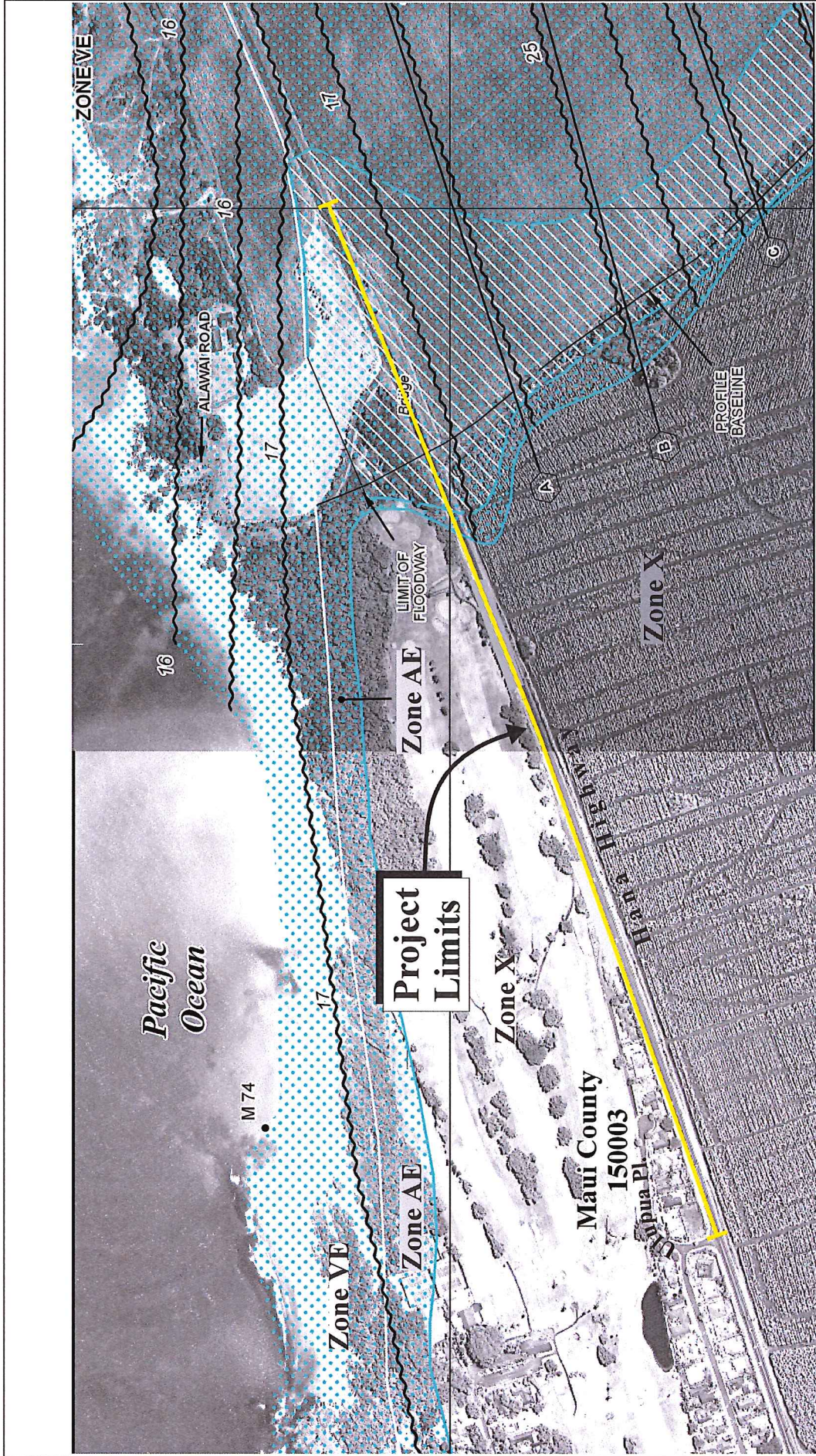
b. **Potential Impacts and Mitigation Measure**

The majority of the proposed project is located within an area of minimal flooding. However, part of the project site near Kailua Stream and H.A. Baldwin Park is located within Flood Zone AE. A base flood elevation of 17 feet has been established along the stream, in the vicinity of the project's alignment. The proposed NSG-Phase IV project involves the installation of a paved bicycle and pedestrian pathway. This improvement is not expected to adversely impact flooding conditions, nor will it increase the threat of flood or tsunami hazard to surrounding properties.

6. **Streams and Wetlands**

a. **Existing Conditions**

Kailua Stream is a non-perennial stream located approximately 3,240 feet east of Ulupua Place. The stream is approximately 16.9 miles long beginning in the upper reaches of Haleakala at an elevation of 6,867 feet and outlets at the ocean at H.A. Baldwin Park. In the upper watershed the stream is steep and with little embayment. Near the project area the stream narrows as it crosses the highway (Atlas of Hawaiian Watersheds, 2008). Hana Highway crosses Kailua Stream at approximately 20 feet



Source: Federal Emergency Management Agency, FIRM Panel Nos. 1500030408E and 1500030404E

# Figure 9 Proposed North Shore Greenway-Phase IV Flood Insurance Rate Map



NOT TO SCALE

Prepared for: County of Maui, Department of Public Works



above sea level (asl). A 4.2 feet x 9.7 feet box culvert provides passage of flow under the highway. Flow in the stream at the culvert is infrequent.

The Ordinary High Water Mark (OHWM) at the culvert is elevation 8.5 ft. (AECOS, 2014).

There are no wetlands along or in the vicinity of the project corridor. However, a small stagnant pool was found in Kailua Stream Makai of Hana Highway near the outlet into the ocean (AECOS, 2014).

**b. Potential Impacts and Mitigation Measures**

The proposed NSG–Phase IV project will require a bridge crossing at the Hana Highway culvert crossing of Kailua Stream to accommodate the paved bicycle and pedestrian path. Additionally, any construction or work below the OHWM will require a Department of the Army (DA) permit. The proposed bridge crossing will be constructed above the OHWM. The DA, by letter dated February 20, 2014, has determined no DA permit is required for the project. See **Appendix “A”**. Also, the Commission on Water Resource Management, by letter dated April 28, 2014, determined a Stream Channel Alteration Permit is not required for the project. See **Appendix “B”**. During construction Best Management Practices (BMPs) will be implemented to prevent the degradation of water quality in Kailua Stream and the nearshore waters. As such, adverse impacts on Kailua Stream and water quality are not anticipated.

**7. Flora and Fauna**

**a. Existing Conditions**

The NSG–Phase IV project is located within the Hana Highway right-of-way, with portions to be aligned within the Maui Country Club and H.A. Baldwin Park. The shoulder area of the highway is mowed and is subject to regular maintenance by the State Department of Transportation (SDOT). Vegetation along the NSG-Phase IV alignment is primarily introduced and ruderal species, such as grasses and roadside weeds. Guinea grass (*Urochloa maxima*) and koa haole (*Leucaena leucocephala*) dominate the vegetation in the gulch and surrounding roadway. Of the 27 species observed in the lower reaches, native species is limited to the ‘uhaloa (*Waltheria indica*). Also, the tree tobacco (*Nicotiana glauca*)

plant was observed in the project area, which is a non-native habitat for the Blackburn's sphinx moth (*Manduca blackburni*). See **Appendix "C"**.

Streamlife in the project area was not present and, as a result, no fishes, crustaceans, or mollusks were observed. However, in a previous 2011 study, aquatic animals were observed only in ditches connecting to Kailua Stream and aquatic insects (adult damselflies and dragonflies) were observed flying in the gulch. In 2011, one (1) individual adult damselfly (*Ischnura ramburii*) was observed flying in the project area. Only the larvae of damselflies are aquatic.

Urban species such as dogs and cats can be expected to be found along this section of the project. On occasion, mongoose can be seen along this stretch of highway.

**b. Potential Impacts and Mitigation Measure**

There are no rare, endangered, or threatened species of flora and fauna along the project corridor. However, the non-native tree tobacco plant was observed in the project area which provides habitat for the endangered Blackburn's sphinx moth. Removal of any tree tobacco plants during construction will be coordinated with the U.S. Fish and Wildlife Service. With appropriate mitigation, implementation of the NSG-Phase IV project is not anticipated to have adverse impacts upon these environmental parameters.

**8. Archaeological Resources**

**a. Existing Conditions**

On November 6, 2013, an archaeological field survey was conducted by Scientific Consultants Services, Inc. (SCS). See **Appendix "D"**. The survey encompassed a pedestrian walk through which noted that the ground surface in the NSG-Phase IV alignment has been graded and covered with grass. Portions of the area near the Maui Country Club golf course contain imported fill material. During the filed inspection, no surface cultural features or deposits were observed.

**b. Potential Impacts and Mitigation Measures**

Based on the archaeological field survey, SCS determined that the proposed project will not have an adverse effect on historic properties. However, as a precautionary measure, SCS recommended archaeological monitoring during ground-altering work. An Archaeological Monitoring Plan was prepared and approved by the Department of Land and Natural Resources (DLNR), State Historic Preservation Division (SHPD). See **Appendix “D-1”** and **Appendix “D-2”**.

In accordance with Section 6E-43.6, Hawaii Revised Statutes (HRS) and Chapter 13-300, Hawaii Administrative Rules (HAR), if any significant cultural deposits or human skeletal remains are encountered during ground-altering activities, work will stop in the immediate vicinity of the find and the SHPD will be contacted to identify the appropriate level of mitigation.

**9. Cultural Assessment**

**a. Existing Conditions**

Paia is located on the north side of Haleakala in a region of sloping *kula* lands that are intersected by small stream gulches. There is little direct information about the ahupua`a of Paia. Traditionally, there were trails that extended along the coast and from the coast to the mountains, linking the two (2) for economic as well as social reasons. The *Alaloa*, or the around-the-island road built by Kiha-a-pi`ilani, extended along the coastal region from Waiehu, passing Paia and extending on, crossing streams where the gulches emerged from the shore (Munekiyō & Hiraga, 2010).

The combined arid conditions and lack of reliable water sources, except for Maliko Stream, resulted in the importance of the expansive upland dry land field system. This area of Maui was described by E.S. Craighill Handy (Handy, 1940) as suitable for dry land taro and he surmised that it was well populated and cultivated because of the abundance of *kula* lands (Scientific Consultant Service (SCS), 2008).

In the 1800s sugarcane became a major industry with the Hawaiian Commercial Company, owned by Claus Spreckles, developing most of the flat lands of central and eastern Maui along with Alexander and Baldwin Company (A&B). During the mid 1870s, A&B incorporated as the Paia

Plantation. The importance of sugar was augmented by the importation of foreign workers. Plantation camp communities were situated throughout the sugar lands and plantation towns appeared at the end of the 20<sup>th</sup> century at Paia, Spreckelsville, and Puunene. Around 1880, a railroad was built at the same time a mill was being constructed at the Paia Village Camp (SCS, 2008).

Paia Town was established around 1896, with small shops which provided goods to the many immigrant workers and their families in the town and surrounding camps. At one time, it was one of Maui's largest plantation towns with 10,000 residents (Steele 2004). The combination of backgrounds and cultures created a unique and rich environment that is reflected in the town's architecture. Despite a fire in 1930 and tsunami of 1946, many of the historic structures remain and continue to be used as commercial property today (SCS, 2008).

**b. Potential Impacts and Mitigation Measures**

To assess cultural impacts associated with the proposed project, interviews were conducted with two (2) people with ties to the project area. See **Appendix "E"**. Summaries of the interview with Raymond Hew, a member of the nearby Maui Country Club, and Reverend Ryoza Yamaguchi, minister of the nearby Paia Rinzai Zen Mission, are presented below.

**RAYMOND HEW**

Raymond Hew is the President and general manager of Ah Fooks Supermarket. Mr. Hew's ties to Paia are through his grandparents. His grandfather owned the two-story house on Hana Highway located just past the basketball courts and Paia Youth Center. Mr. Hew remembered the Paia-Kuau area as a plantation town with only a few homes. The area has since changed, with a number of new homes and businesses in the area.

As a youth Mr. Hew remembers swimming and fishing along the shoreline from the Lime Kiln area east of Baldwin Beach Park to the bunkers and the Iwamoto Factory area in Paia Town. Although Mr. Hew no longer swims or fishes in the area, these activities still continue today. At the Maui Country Club near the tennis courts there is a protected area in the

ocean that families with small children use. The area from the Country Club to Paia Town is used by beach goers.

Mr. Hew's connection to the area is also as a member of the Maui Country Club. Mr. Hew voiced concern for the project since the high volume of vehicular traffic and speeding along Hana Highway toward Kahului is a problem in the area. Mr. Hew voiced his concern whether there was enough room along the highway for the bike path to keep it safely away from the highway, especially in the area where the wiliwili trees are located.

Mr. Hew voiced concern that the path could affect the golf course. The path will cross the entrance of the golf course's maintenance road and affect the property's fencing. Mr. Hew also, voiced concern that holes number 6 and 15 running along the highway will pose a safety problem to users of the path. There is the potential for golf balls being hit toward the path and highway. Users of the path should be made aware of this potential problem. Mr. Hew noted that County of Maui will need to coordinate with the Maui Country Club, to ensure that proper design mitigation measures are included in the plans.

Regarding possible burials or cultural sites, Mr. Hew was not aware of any burials, cultural sites, or cultural practices in the area of the proposed project.

### **REVEREND RYOZO YAMAGUCHI**

Reverend Yamaguchi arrived on Maui in 1987 to become the minister of the nearby Paia Rinzai Zen Mission. The Paia Rinzai Zen Mission was established in 1932 by the Okinawan plantation community. The current church is the third church built on the site. The original church was destroyed by a tsunami in 1946 and the second church by fire in 1987. The current church was built in 1989.

As a historian Reverend Yamaguchi obtained his knowledge of the area by listening to the older members of his church and the community. During the plantation days workers lived near their work place. At one time there was a camp at the nearby Lime Kiln area made up of Japanese and Korean workers and their families. A cemetery for these plantation families is located adjacent to the Paia Rinzai Zen church property.

Alawai Road which connects to Hana Highway and runs through Baldwin Beach Park currently ends at the church property. While the Lime Kiln was in operation, an unimproved portion of the roadway provided access to the Lime Kiln area and was used by the plantation trucks. This portion of the roadway is no longer in existence.

Reverend Yamaguchi noted that the beach sand areas along this stretch of the shoreline from Spreckelsville to Paia contain Hawaiian burials that are periodically exposed by shoreline erosion. During discussion of a shoreline alignment of the bikeway he and other community members walked along the proposed alignment. Community members noted their concerns that the undisturbed sand may contain Hawaiian burials.

Other than the Hawaiian burials in the beach sand, Reverend Yamaguchi was not aware of any traditional Hawaiian traditions or culture in the area. However, the shoreline area is heavily used for recreation. Reverend Yamaguchi felt construction of the greenway was a wonderful improvement that would not affect users of H.A. Baldwin Park.

In summary, the exercise of native Hawaiian rights related to gathering, access, or other customary activities will not be affected within the project area, and no significant adverse effects are anticipated.

## **10. Air and Noise Quality**

### **a. Existing Conditions**

Air quality in the vicinity of the project site is generally good. However, temporary degradation in air quality is expected due to the surrounding sugarcane cultivation activities. In particular, dust generation and cane burning on adjacent fields may result in degradation of air quality. Between harvests and before new crops are planted, sugarcane fields remain open for a few weeks. During this time, the fields are prone to dust generation as winds can carry dust. In addition, field preparations such as tilling prior to planting can also contribute to dust generation.

Harvesting of sugarcane also creates temporary disruptions to normal air quality in the vicinity. HC&S burns the sugarcane fields as part of the harvest methodology to get rid of dried leaves, which have accumulated over the 2-year growing period. By reducing the extraneous leafy material delivered to the mill, HC&S is able to increase the quantity and quality of

sugar it recovers. It also reduces the number of hauling trucks crossing Maui's highways (HC&S, 2011). The maturation process for sugarcane is approximately 24 months. As such, sugarcane burning in the vicinity of the project site would occur approximately every two (2) years.

The principal source of noise generated in this area may be attributed to agricultural activities and traffic on area roadways.

**b. Potential Impacts and Mitigation Measures**

Airborne particulates, including dust, may be generated during site preparation and construction activities. However, dust control measures, such as regular watering and sprinkling, will be implemented as needed to minimize wind-blown emissions. In the long term, the project will not adversely impact local and regional ambient air quality conditions.

As with air quality, ambient noise conditions will be temporarily impacted by construction activities. Construction equipment will be the dominant source of noise during site construction. Construction generated noise will be mitigated through BMPs, and construction activities will be limited to daylight work hours only. The contractor will coordinate with the State Department of Health (DOH) to ensure that noise permits are obtained, as appropriate.

**11. Scenic and Open Space Resources**

**a. Existing Conditions**

The project site stretches from Spreckelsville to Paia. The NSG-Phase IV will be constructed adjacent to the westbound lane of traffic on Hana Highway. The existing area is surrounded by sugarcane fields cultivated by HC&S, single-family residences, Maui Country Club and golf course, and H.A. Baldwin Park. Views from Hana Highway traveling east include the vast expanse of sugarcane fields, as well as Haleakala. Views from Hana Highway traveling west include the agricultural lands and portions of the West Maui Mountains. The project site is not part of a scenic view corridor.

**b. Potential Impacts and Mitigation Measures**

The proposed project primarily involves the construction of the bike and pedestrian path. An eight (8) foot wide multi-use path will stretch from Ulupua Place to H.A. Baldwin Park. The proposed project involves no vertical construction and is an at-grade improvement which will not adversely affect existing view conditions, and which will not adversely detract from the existing visual conditions along the affected segment of Hana Highway.

**B. SOCIO-ECONOMIC ENVIRONMENT**

**1. Population and Economy**

**a. Existing Conditions**

The population of the County of Maui has exhibited a slight growth over the past couple years. In 2010, there were 155,036 residents in the county, a 20.4 percent increase of the resident population in 2000 of 128,754 (U.S. Census Bureau, 2000 and 2010). The Paia-Haiku region has experienced more modest growth over the past decade. The approximately 12,800 residents living in Paia-Haiku in 2010 represent an eight (8) percent increase since 2000 (U.S. Census Bureau, 2000 and 2010). The population of the County is anticipated to grow to 199,850 residents by 2030, including approximately 13,860 residents in the Paia-Haiku region (County of Maui, Planning Department, 2006).

The unemployment rate (not seasonally adjusted) for Maui County was 4.6 percent in December 2013. This represents a decrease of 0.6 percent from 5.2 percent for the County in December 2012. Maui Island's unemployment rate for December 2013 was 4.5 percent, a decrease of 0.5 percent from December 2012 rate of 5.0 percent (Department of Labor and Industrial Relations, 2014).

**b. Potential Impacts and Mitigation Measures**

Short-term economic benefits associated with construction labor and expenditures for the NSG-Phase IV are anticipated. There are no significant project-related economic impacts from a long-term perspective.



The proposed project is not a direct population generator. Thus, there are no anticipated long-term impacts on population parameters.

## **C. PUBLIC SERVICES**

### **1. Police and Fire Protection**

#### **a. Existing Conditions**

The County of Maui's Police Department headquarters are located in Wailuku. There are three (3) patrol divisions on the island of Maui. These are the Wailuku, Lahaina, and Hana divisions. The Wailuku division covers Central Maui, Paia-Haiku, Kihei-Makena, and Upcountry Maui.

Fire prevention, suppression, and protection services for the project area are provided by the County Department of Fire and Public Safety. The Paia Fire Station is located approximately one (1) mile away from the project site along Hana Highway in Paia Town.

#### **b. Potential Impacts and Mitigation Measures**

The construction of the NSG-Phase IV will not extend the service limits for emergency services. Police and fire protection services are not anticipated to be adversely impacted by the proposed project. The proposed project will improve public safety conditions through the provision of a separate travelway for bicyclists, joggers, and walkers.

### **2. Medical Facilities**

#### **a. Existing Conditions**

Maui Memorial Medical Center is currently the only major medical facility on the island. Acute, general, and emergency care services are provided by the 231-bed facility. In addition, both Central Maui and Paia have medical and dental clinics to service local community residents.

#### **b. Potential Impacts and Mitigation Measures**

The proposed project is not anticipated to have adverse impacts on existing medical facilities or services in the region.

3. **Solid Waste**

a. **Existing Conditions**

Single-family solid waste collection service is provided by the County of Maui on a weekly or twice-a-week basis. Solid waste collected by County refuse crews and private collection companies is disposed at the Central Maui Landfill.

b. **Potential Impacts and Mitigation Measures**

A solid waste management plan will be developed and implemented to minimize the volume of construction waste material being disposed of at the Central Maui Landfill. Upon completion of construction, the NSG will not be a solid waste generator. Therefore, from a long-term perspective, the proposed project will not have an impact on solid waste collection services nor will it affect the capacity of the Central Maui Landfill.

4. **Recreational Resources**

a. **Existing Conditions**

A primary facility catering to the recreational needs of area residents is the Paia Community Center. This center provides community rooms, as well as park space and athletic fields. Coastal recreational resources in the region include H.A. Baldwin Park. H.A. Baldwin Park includes baseball and softball fields, a pavilion, parking, picnic areas, restrooms, a soccer field, and ocean recreation opportunities. Hookipa Beach Park, an internationally recognized park known for its excellent surf and windsurfing is also located in the Paia region. Other recreational facilities include Maui Country Club, Lower Paia Park, Paia Gym, and Rainbow Park.

It is noted that the County of Maui's Kaunoa Senior Services is located approximately 0.7 mile west of the project's Ulupua Street terminus. The Senior Center is a division of the County of Maui's Department of Housing and Human Concerns (DHHC). It provides opportunities for seniors to learn and grow through a variety of programs.

**b. Potential Impacts and Mitigation Measures**

The proposed construction of the project will utilize lands within the Maui Country Club and H.A. Baldwin Park. Coordination will be undertaken with the Maui Country Club to ensure that the proposed NSG–Phase IV alignment affecting the golf course will not adversely affect its operations. Similarly, coordination will be undertaken with the County’s Department of Parks and Recreation (DPR) to ensure that park operations and facilities are not adversely affected by the proposed project.

The project itself is viewed as a recreational facility, serving as a safe pathway for bicyclists and pedestrians.

**5. Educational Facilities**

**a. Existing Facilities**

The State of Hawaii, Department of Education (DOE) operates eight (8) public schools in East Maui and Upcountry Maui. They are Makawao Elementary School, Kalama Intermediate School, Pukalani Elementary School, Kula Elementary School, Haiku Elementary School, Paia Elementary School, King Kekaulike High School, and Hana High and Elementary School.

The region is also served by privately operated Montessori School of Maui, Doris Todd, Haleakala Waldorf School, Seabury Hall, Kamehameha Schools Maui Campus, and the Carden Academy of Maui.

**b. Potential Impacts and Mitigation Measures**

As previously noted, the project in and of itself is not considered a population generator and will not place added demands on education facilities or services.

**D. INFRASTRUCTURE**

**1. Roadways**

**a. Existing Conditions**

The project region is served by a number of arterial roadways, including Hana Highway and Baldwin Avenue. Hana Highway is a State of Hawaii

roadway that serves as the principal linkage between Central Maui and East Maui, to Hana and beyond. It is a predominantly two-lane, two-way roadway generally oriented in the east-west direction. Baldwin Avenue is a County of Maui roadway that serves as the main commercial corridor of Paia Town. Baldwin Avenue originates at Hana Highway, east of the project site, and continues south, terminating in Makawao Town.

Local roadways in the project vicinity include Ulupua Place and Alawai Road. Ulupua Place is a two (2) lane road that runs perpendicular and parallel to Hana Highway. Ulupua Place provides access into the Maui Country Club Subdivision in Spreckelsville. Alawai Road is also a two (2) lane road that generally runs perpendicular to Hana Highway and provides access to H.A. Baldwin Park and the Paia Rinzai Zen Mission.

**b. Potential Impacts and Mitigation Measures**

The proposed action will improve traffic safety condition by providing a separate travelway for bicyclists and pedestrians. The proposed NSG–Phase IV project is not a traffic generator and will not affect existing vehicular traffic conditions along Hana Highway.

**2. Water System**

**a. Existing Conditions**

Water to the Wailuku-Kahului region is provided by the Maui County, DWS Central Maui System which also serves the South Maui and Paia areas. The main sources of water for this system include the Iao and Waihee aquifers, the Iao Tunnel, and the Iao-Waikapu Ditch.

The project site is located within the Iao Aquifer System, which has a sustainable yield of 20 million gallons per day (MGD). In 2003, the CWRM designated the Iao Aquifer System as a groundwater management area and limited groundwater withdrawal from the aquifer to 90 percent of its sustainable yield. The current total water use permit allocation for the Iao Aquifer is 19.095 MGD. The current withdrawal from the Iao Aquifer System is approximately 16.1 MGD on a 12-month moving average basis.

**b. Potential Impacts and Mitigation Measures**

The proposed project will not require the use of water for its operation and maintenance. However, the DWS has indicated that construction plans will need to be reviewed and, as necessary, water valve covers must be lifted to match the finished grade of the Greenway. There are no irrigation systems along the Hana Highway right-of-way along this segment of the highway. There are no anticipated impacts to the County's water system attributed to the proposed action. See **Appendix "F"**.

**3. Wastewater System**

**a. Existing Conditions**

Wastewater generated in the Spreckelsville to Paia region is conveyed to the Wailuku-Kahului Wastewater Reclamation Facility (WKWRF). The WKWRF has a design capacity of 7.9 million gallons per day. An existing 10-inch County sewer force main runs along Hana Highway.

**b. Potential Impacts and Mitigation Measures**

The proposed construction of the NSG-Phase IV will not generate any wastewater flow and will not affect existing wastewater collection and treatment systems in the area. Refer to **Appendix "F"**. However, the Department of Environmental Management has indicated that project plans shall show the County's existing 10-inch force main along Hana Highway.

**4. Drainage**

**a. Existing Conditions**

There are no drainage improvements in the project area. Stormwater runoff sheet flows into the grassed areas along the highway, the Maui Country Club golf course, and the H.A. Baldwin Park. Near H.A. Baldwin Park, Kailua Stream crosses under Hana Highway.

**b. Potential Impacts and Mitigation Measures**

According to the drainage assessment, the proposed greenway will be graded to maintain the existing drainage flow patterns in the area. Refer to **Appendix "F"**. During construction appropriate BMPs for erosion and

sediment control will be implemented, such as, but not limited to, protection of natural vegetation and using wind and water erosion control measures. The NSG–Phase IV project is not anticipated to create any adverse impacts on adjacent and downstream properties.

**5. Electrical, Telephone, and Cable Services**

**a. Existing Conditions**

Electrical, telephone, and cable television services in the project area are provided by Maui Electric Company, Hawaiian Telecon, and Oceanic Time Warner Cable, respectively.

The proposed NSG–Phase IV project will not require the use of electrical, telephone, or cable services. There are no plans for lighting of the project, nor are there any communication system requirements associated with the project.

**b. Potential Impacts and Mitigation Measures**

There are no adverse impacts to power and communications systems attributed to the proposed NSG–Phase IV project.

**E. CUMULATIVE AND SECONDARY IMPACTS**

**1. Context for Cumulative and Secondary Impact Analysis**

The term “cumulative impact” is defined as the impact on the environment which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency or person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time.

The term “secondary impact” means effects which are caused by the action and are later in time or farther removed in distance, but are still reasonably foreseeable. Indirect effects may include growth inducing effects and other effects related to induced changes in the pattern of land use, population density or growth rate, and related effects on air and water and other natural systems, including ecosystems.

The proposed NSG–Phase IV project is the final phase of the overall NSG project which stretches from Kahului Airport to Paia. There are no other components of the project nor are there similar actions in the vicinity which would yield an adverse cumulative impact to the surrounding environs. Similarly, there are no discernible secondary or indirect impacts arising from the project, such as those relating to growth inducement or land use trends and patterns.

# **III. RELATIONSHIP TO LAND PLANS, POLICIES, AND CONTROLS**



### **III. RELATIONSHIP TO LAND PLANS, POLICIES, AND CONTROLS**

#### **A. STATE LAND USE DISTRICTS**

Chapter 205, Hawaii Revised Statutes (HRS), relating to the Land Use Commission (LUC), establishes the four (4) major land use districts in which lands in the State are placed. These districts are “Urban”, “Rural”, “Agricultural”, and “Conservation”.

The project site is located within both the State “Agricultural” and “Urban” districts. See **Figure 10**. It is noted that each county may define accessory agricultural uses and services permitted in State Land Use “Agricultural” districts through their zoning ordinances (Chapter 205-5-(b), HRS). The same may be noted for State Land Use “Urban” districts. The proposed NSG–Phase IV project will, for the most part, be located within the Hana Highway right-of-way and is a permitted use. In the Urban lands underlying the Maui Country Club and H.A. Baldwin Park, the proposed Greenway is also a permitted use.

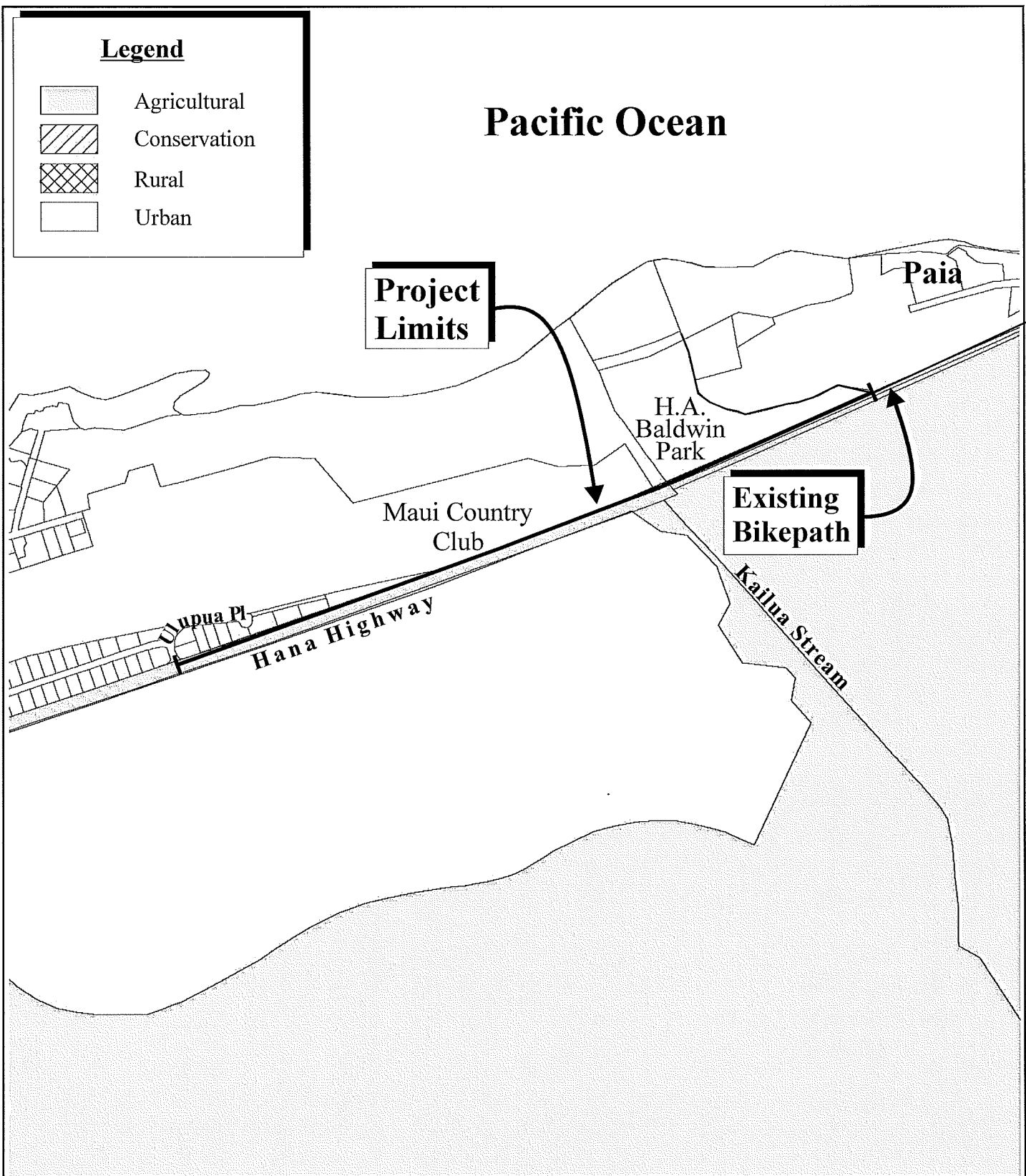
#### **B. CHAPTER 226, HRS, HAWAII STATE PLAN**

Chapter 226, HRS, also known as the Hawaii State Plan, is a long-range comprehensive plan which serves as a guide for the future long-range development of the State by identifying goals objectives, policies, and priorities, as well as implementation mechanisms. The proposed project is consistent with the following goals of the Hawaii State Plan:

- *A desired physical environment, characterized by beauty, cleanliness, quiet, stable natural systems, and uniqueness, that enhances the mental and physical well-being of the people.*
- *Physical, social, and economic well-being, for individuals and families in Hawaii, that nourishes a sense of community responsibility, of caring, and of participation in community life.*

##### **1. Objectives and Policies of the Hawaii State Plan**

The proposed project is consistent with the following objectives and policies of the Hawaii State Plan:



Source: State Land Use Commission, 2010

Figure 10

Proposed North Shore  
Greenway-Phase IV  
State Land Use District Classification Map

NOT TO SCALE



**Chapter 226-11, HRS, Objectives and policies for the physical environment-land based, shoreline, and marine resources**

*226-11 (b)(3), HRS: Take into account the physical attributes of areas when planning and designing activities and facilities.*

*226-11 (b)(9), HRS: Promote increased accessibility and prudent use of inland and shoreline areas for public recreational, educational, and scientific purposes.*

**Chapter 226-13, HRS, Objectives policies for the physical environment-land, air, and water quality**

*226-13 (b)(6), HRS: Encourage design and construction practices that enhance the physical qualities of Hawaii's communities.*

**Chapter 226-14, HRS, Objective and policies for facility systems-in general**

*226-14 (b)(1), HRS: Accommodate the needs of Hawaii's people through coordination of facility systems and capital improvement priorities in consonance with state and county plans.*

**Chapter 226-17, HRS, Objectives and policies for facility systems-transportation**

*226-17 (a)(1), HRS: An integrated multi-modal transportation system that services statewide needs and promotes the efficient, economical, safe, and convenient movement of people and goods.*

*226-17 (b)(1), HRS: Design, program, and develop a multi-modal system in conformance with desired growth and physical development as stated in this chapter.*

*226-17 (b)(2), HRS: Coordinate state, county, federal, and private transportation activities and programs toward the achievement of statewide objectives.*

*226-17 (b)(11), HRS: Encourage safe and convenient use of low-cost, energy-efficient, non-polluting means of transportation.*

**Chapter 226-23, HRS: Objective and policies for socio-cultural advancement-leisure.**

*226-23 (b)(3), HRS: Enhance the enjoyment of recreational experiences through safety and security measures, educational opportunities, and improved facility design and maintenance.*

*226-23 (b)(5), HRS: Ensure opportunities for everyone to use and enjoy Hawaii's recreational resources.*

**C. GENERAL PLAN OF THE COUNTY OF MAUI**

As indicated by the Maui County Charter, the purpose of the general plan shall be to:

*... indicate desired population and physical development patterns for each island and region within the county; shall address the unique problems and needs of each island and region; shall explain opportunities and the social, economic, and environmental consequences related to potential developments; and shall set forth the desired sequence, patterns and characteristics of future developments. The general plan shall identify objectives to be achieved, and priorities, policies, and implementing actions to be pursued with respect to population density; land use maps, land use regulations, transportation systems, public and community facility locations, water and sewage systems, visitor destinations, urban design, and other matters related to development.*

Chapter 2.80B of the Maui County Code, relating to the General Plan and Community Plans, implements the foregoing Charter provision through enabling legislation which calls for a Countywide Policy Plan and a Maui Island Plan. The Countywide Policy Plan was adopted as Ordinance No. 3732 on March 24, 2010, while the Maui Island Plan, which delineates areas for future urban and rural growth as part of a Directed Growth Strategy, was adopted as Ordinance No. 4004 on December 28, 2012.

The following sections identify pertinent objectives, policies, implementing actions and related provisions set forth in the Countywide Policy Plan and the Maui Island Plan. It is recognized that both documents are comprehensive in nature and address a number of functional planning areas which apply to all programs, plans, and projects. However, for purposes of addressing General Plan compliance requirements, policy considerations which are deemed most relevant in terms of compatibility and consistency are addressed in this report section.

**1. Countywide Policy Plan**

With regard to the Countywide Policy Plan, Section 2.80B.030 of the Maui County Code states the following.

*The countywide policy plan shall provide broad policies and objectives which portray the desired direction of the County's future. The countywide policy plan shall include:*

- 1. A vision for the County;*
- 2. A statement of core themes or principles for the County; and*
- 3. A list of countywide objectives and policies for population, land use, the environment, the economy, and housing.*

Core principles set forth in the Countywide Policy Plan are listed as follows:

- 1. Excellence in the stewardship of the natural environment and cultural resources;*
- 2. Compassion for and understanding of others;*
- 3. Respect for diversity;*
- 4. Engagement and empowerment of Maui County residents;*
- 5. Honor for all cultural traditions and histories;*
- 6. Consideration of the contributions of past generations as well as the needs of future generations;*
- 7. Commitment to self-sufficiency;*
- 8. Wisdom and balance in decision making;*
- 9. Thoughtful, island appropriate innovation; and*
- 10. Nurturance of the health and well-being of our families and our communities.*

Congruent with these core principles, the Countywide Policy Plan identifies goals objectives, policies and implementing actions for pertinent functional planning categories, which are identified as follows:

- 1. Natural environment*

2. *Local cultures and traditions*
3. *Education*
4. *Social and healthcare services*
5. *Housing opportunities for residents*
6. *Local economy*
7. *Parks and public facilities*
8. *Transportation options*
9. *Physical infrastructure*
10. *Sustainable land use and growth management*
11. *Good governance*

With respect to the proposed NSG–Phase IV, the following goals, objectives, policies and implementing actions are illustrative of the project’s compliance with the Countywide Policy Plan.

**Goal:**

*A full range of island-appropriate public facilities and recreational opportunities will be provided to improve the quality of life for residents and visitors.*

**Objective:**

*Expand access to recreational opportunities and community facilities to meet the present and future needs of residents of all ages and physical abilities.*

**Policies:**

*Expand and enhance the network of parks, multi-use paths, and bikeways.*

*Assist communities in developing recreational facilities that promote physical fitness.*

**Objective:**

*Reduce the reliance on the automobile and fossil fuels by encouraging walking, bicycling, and other energy-efficient and safe alternative modes of transportation.*

**Policies:**

*Make walking and bicycling transportation safe and easy between and within communities.*

*Design new and retrofit existing rights-of-way with adequate sidewalks, bicycle lanes, or separated multi-use transit corridors.*

*Support the development of a countywide network of bikeways, equestrian trails, and pedestrian paths.*

**2. Maui Island Plan**

The Maui Island Plan (MIP), is applicable to the island of Maui only, providing more specific policy-based strategies for population, land use, transportation, public and community facilities, water and sewage systems, visitor destinations, urban design, and other matters related to future growth.

As provided by Chapter 2.80B, the MIP shall include the following components:

1. *An island-wide land use strategy, including a managed and directed growth plan*
2. *A water element assessing supply, demand and quality parameters*
3. *A nearshore ecosystem element assessing nearshore waters and requirements for preservation and restoration*
4. *An implementation program which addresses the County's 20-year capital improvement requirements, financial program for implementation, and action implementation schedule*
5. *Milestone indicators designed to measure implementation progress of the MIP*

It is noted that the Ordinance No. 4004 does not address the component relating to the implementation program. Chapter 2.80B of the Maui County Code, relating to the General Plan, was amended via Ordinance No. 3979, October 5, 2012, to

provide that the implementation program component be adopted no later than one (1) year following the effective date of Ordinance No. 4004. The implementation program component of the MIP was extended to March 31, 2014 by Council Resolution No. 13-50 adopted on December 20, 2013.

The MIP addresses a number of planning categories with detailed policy analysis and recommendations which are framed in terms of goals, objectives, policies, and implementing actions. These planning categories address the following areas:

1. *Population*
2. *Heritage Resources*
3. *Natural Hazards*
4. *Economic Development*
5. *Housing*
6. *Infrastructure and Public Facilities*
7. *Land Use*

Additionally, an essential element of the MIP is its directed growth plan which provides a management framework for future growth in a manner that is fiscally, environmentally, and culturally prudent. Among the directed growth management tools developed through the MIP process are maps delineating urban growth boundaries (UGB), small town boundaries (SRB), and rural growth boundaries (RGB). The respective boundaries identify areas appropriate for future growth and their corresponding intent with respect to development character.

The portion of the NSG–Phase IV from Ulupua Place to the eastern most lot of the Maui Country Club subdivision is located within the UGB. However, the proposed project is limited to the transportation infrastructure and does not represent development or growth guided by the directed growth strategy.

The proposed NSG–Phase IV advances the following MIP objective and policy:

**Objective:**

6.42 *Safe, interconnected transit, roadway, bicycle, equestrian, and pedestrian network.*



**Policy:**

*6.4.2.f Support the implementation of the Central Maui Pedestrian & Bicycle Master Plan (March 2012), when consistent with the MIP.*

In summary, the proposed project is consistent with the themes and principals of both the Countywide Policy Plan and the Maui Island Plan.

**D. COMMUNITY PLANS**

Within Maui County, there are nine (9) community plan regions. From a General Plan implementation standpoint, each region is governed by a Community Plan which sets forth desired land use patterns as well as goals, objectives, policies, and implementing actions for a number of functional areas.

**1. Paia-Haiku Community Plan**

A portion of the project site is located within the Paia-Haiku region and occupies lands designated as “AG, Agriculture” and “Pk, Park” in the Community Plan. See **Figure 11**.

The proposed project is consistent with the following goals, policies, and objectives of the Paia-Haiku Community Plan:

**PHYSICAL INFRASTRUCTURE**

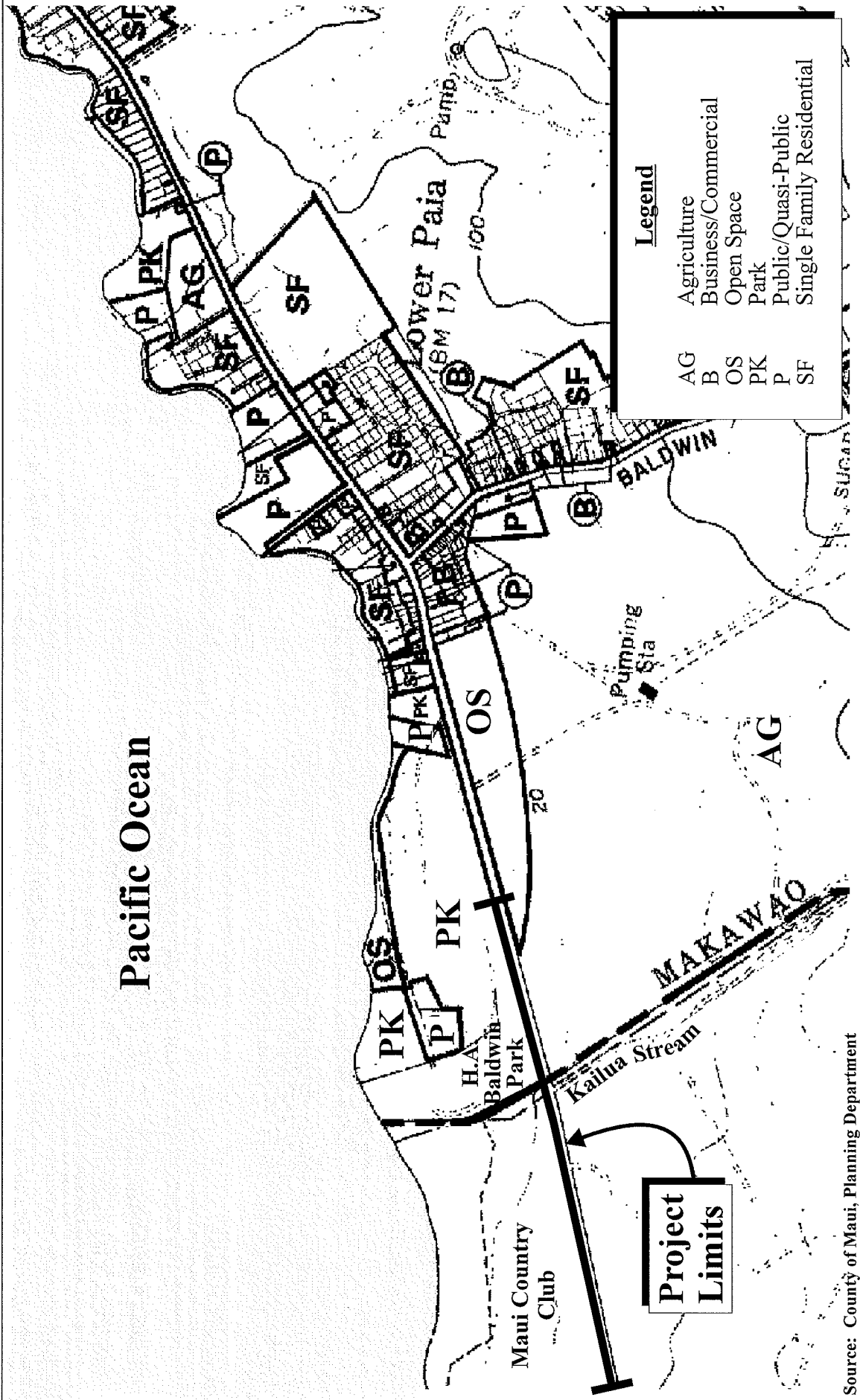
**Transportation**

**Goal**

*Transportation systems that facilitate the safe and efficient movement of people, produce and goods within and outside the region.*

**Objectives**

- *Establish a regional network of bikeways and pedestrian paths. This should include providing adequate space to accommodate bicycle traffic throughout the Paia Town area, including along Baldwin Avenue from Paia to Makawao.*
- *Encourage convenient pedestrian and bicycle access between residences and neighborhood commercial areas,*



**Legend**

AG	Agriculture
B	Business/Commercial
OS	Open Space
PK	Park
P	Public/Quasi-Public
SF	Single Family Residential

Source: County of Maui, Planning Department

**Figure 11** Proposed North Shore Greenway-Phase IV  
 Paia-Haiku Community Plan Land Use Map



NOT TO SCALE

Prepared for: County of Maui, Department of Public Works



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*parks and public facilities, in order to minimize use of the automobile within residential communities.*

2. **Wailuku-Kahului Community Plan**

A portion of the project site is also located within the Wailuku-Kahului region and occupies lands designated as “AG, Agriculture” and “Pk, Park” in the community plan. See Figure 12.

The proposed project is consistent with the following goals, policies, and objectives of the Wailuku-Kahului Community Plan:

**SOCIAL INFRASTRUCTURE**

**Recreation**

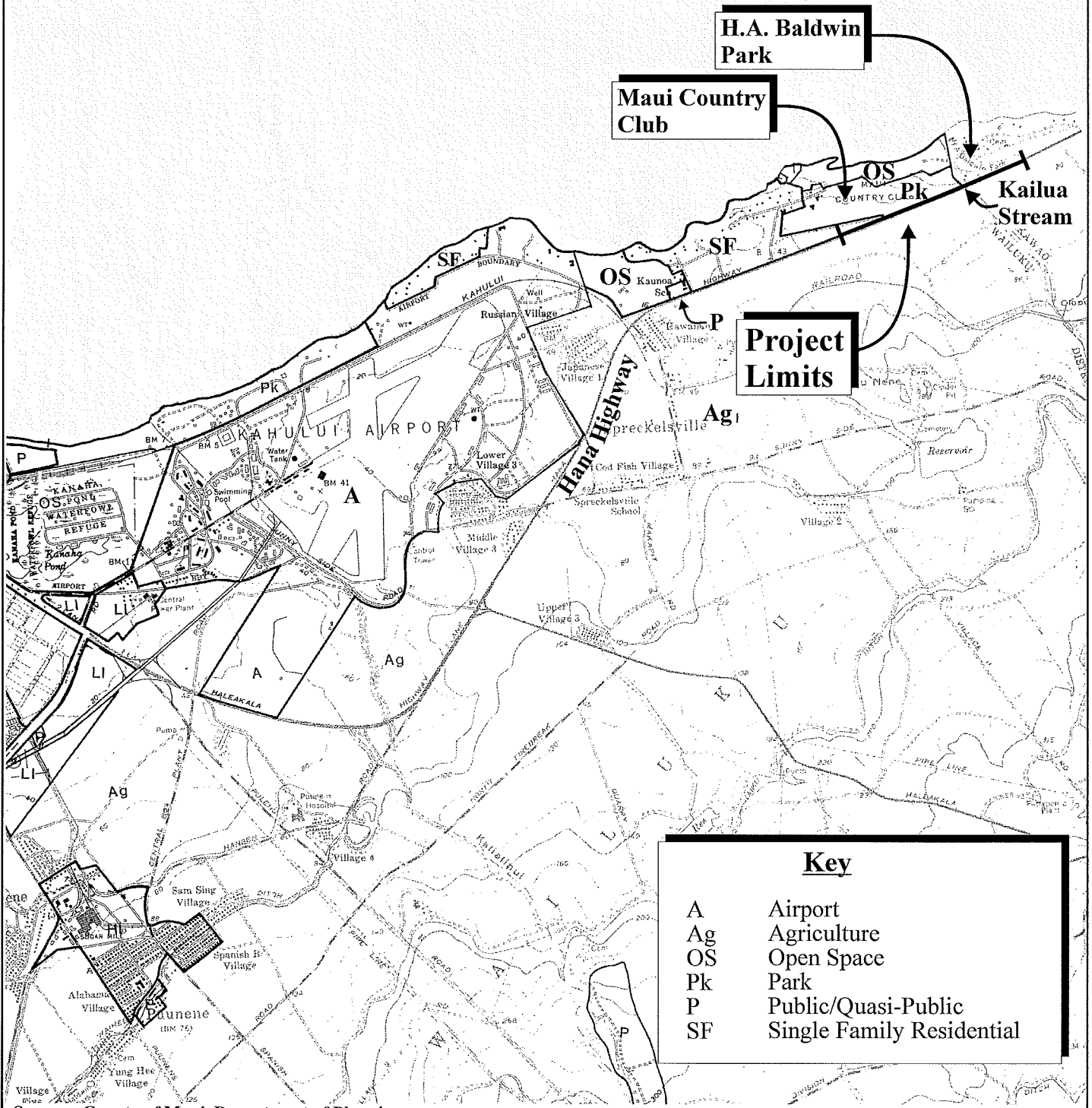
**Goal**

*Develop and maintain an efficient and responsive system of public services which promotes a safe, healthy and enjoyable lifestyle, accommodates the needs of young, elderly, disabled and disadvantaged persons, and offers opportunities for self-improvement and community well-being.*

**Objectives and Policies**

- *Ensure the development of the North Shore greenway project is done in a manner that respects the dune system and cultural sensitivity of the area. Specifically, the project should:*
  - o *Minimize the excavating, grading, and grubbing for the project, and instead use minimal fill (as necessary to meet engineering standards), especially in the area near Baldwin Beach Park;*
  - o *Provide appropriate protection to prevent unnecessary traversing of the dune system mauka-makai;*
  - o *Use the greenway as an opportunity to interpret the significant cultural and historic sites in the area; and*

# Pacific Ocean



H.A. Baldwin Park

Maui Country Club

Project Limits

Key	
A	Airport
Ag	Agriculture
OS	Open Space
Pk	Park
P	Public/Quasi-Public
SF	Single Family Residential

Source: County of Maui, Department of Planning

Figure 12

## Proposed North Shore Greenway-Phase IV

NOT TO SCALE



### Wailuku-Kahului Community Plan Land Use Map

- o *Have the archaeological inventory survey and the design plans for the project reviewed by the Cultural Resources Commission prior to the issuance of the necessary development permits.*

## **INFRASTRUCTURE**

### **Transportation**

#### **Goal**

*Timely and environmentally sound planning, development and maintenance of infrastructure systems which serve to protect and preserve the safety and health of the region's residents, commuters and visitors through the provision of clean water, effective waste disposal and drainage systems, and efficient transportation systems which meet the needs of the community.*

#### **Objectives and Policies**

- *Provide bikeway and walkway systems in the Wailuku-Kahului area which offer safe and pleasant means of access, particularly along routes accessing residential district, major community facilities and activity centers, school sites, and the shoreline between Kahului Harbor and Paia.*
- *Accommodate bicycle and pedestrian ways within planned roadway improvements.*

## **E. ZONING**

The Hana Highway right-of-way is Agricultural zoned, while the Maui Country Club and H.A. Baldwin Park are zoned by the County as "PK-4, Golf Course" and "PK-2, Community Park", respectively. The proposed NSG-Phase IV is permitted by Maui County Zoning.

## **F. COASTAL ZONE MANAGEMENT OBJECTIVES AND POLICIES**

The Hawaii Coastal Zone Management Program (HCZMP), as formalized in Chapter 205A, HRS, establishes objectives and policies for the preservation, protection, and restoration of natural resources of Hawaii's coastal zone. The project site lies less than one (1) mile away from the coast. While the segment of the NSG-Phase IV project within the Hana Highway right-of-way lies outside of the County of Maui's Special

Management Area (SMA), those segments which fall within the Maui Country Club and H.A. Baldwin Park are located within the SMA. See **Figure 13**.

This section addresses the project's relationship to applicable coastal zone management considerations, set forth in Chapter 205A, HRS. Inasmuch as a SMA permit will be needed for the segments of the project located makai of Hana Highway, the section below also addresses the Maui Planning Commission's SMA Rules.

## **CHAPTER 205A, HRS**

### **1. Recreational Resources**

#### **Objective:**

*Provide coastal recreational opportunities accessible to the public.*

#### **Policies:**

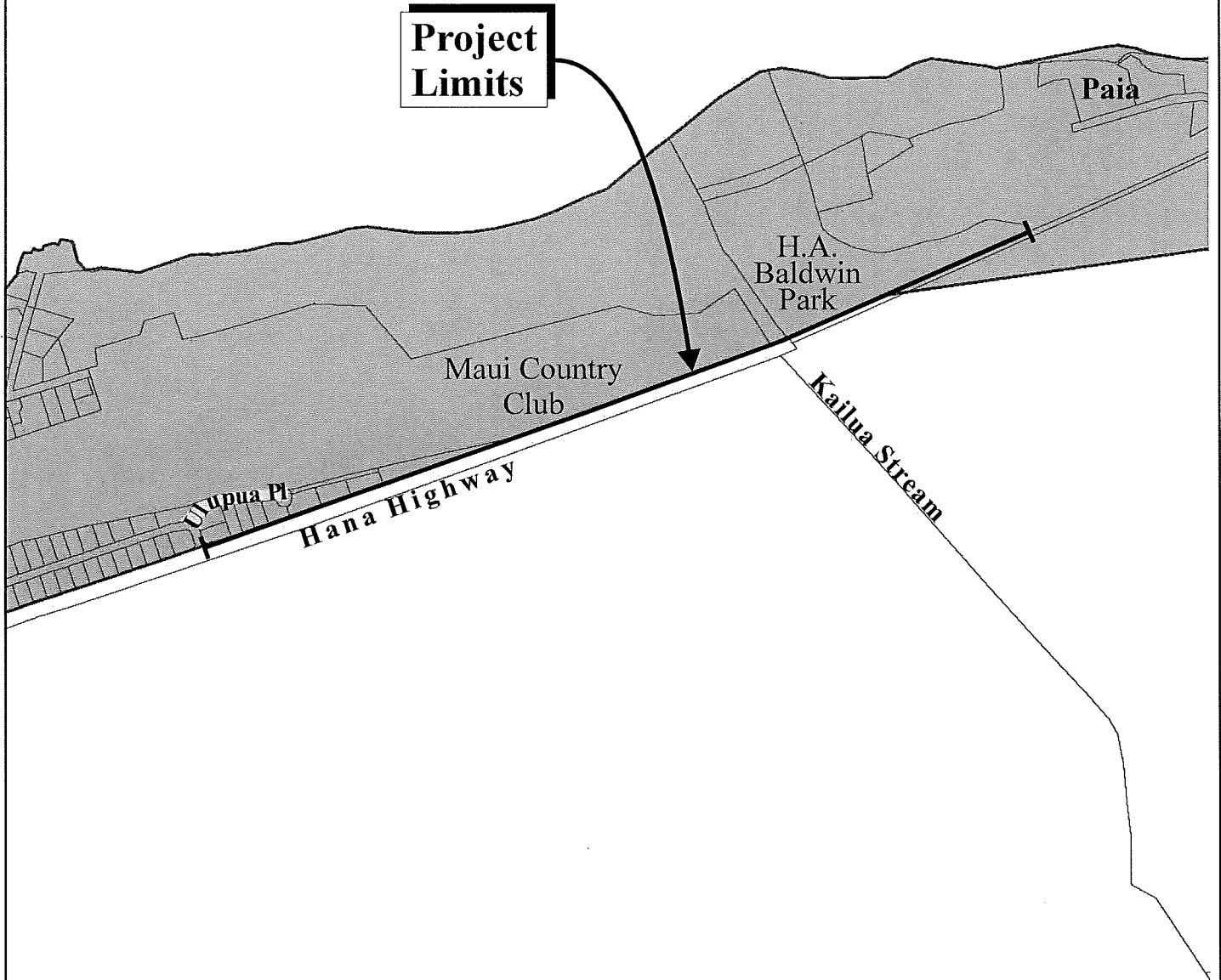
- a. *Improve coordination and funding of coastal recreational planning and management; and*
- b. *Provide adequate, accessible, and diverse recreational opportunities in the coastal zone management area by:*
  - i. *Protecting coastal resources uniquely suited for recreational activities that cannot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

**Legend**

 SMA Area

**Pacific Ocean**

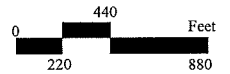
**Project Limits**



Source: County of Maui, Planning Department, 2007

**Figure 13**

**Proposed North Shore  
Greenway-Phase IV  
Special Management Area Map**



Prepared for: County of Maui, Department of Public Works

  
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- vi. *Adopting water quality standards and regulating point and non-point sources of pollution to protect, and where feasible, restore the recreational value of coastal waters;*
- vii. *Developing new shoreline recreational opportunities, where appropriate, such as artificial lagoons, artificial beaches, and artificial reefs for surfing and fishing; and*
- viii. *Encouraging reasonable dedication of shoreline areas with recreational value for public use as part of discretionary approvals or permits by the land use commission, board of land and natural resources, and county authorities; and crediting such dedication against the requirements of Section 46-6.*

**Response:** The proposed project complements coastal recreational resources by providing infrastructure which enhances non-vehicular traffic to coastal destinations, including H.A. Baldwin Park. In addition, the NSG–Phase IV project advances the overall plan of implementation for the NSG, a regional recreational infrastructure component.

## 2. **Historic Resources**

### **Objective:**

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

### **Policies:**

- a. *Identify and analyze significant archeological resources;*
- b. *Maximize information retention through preservation of remains and artifacts or salvage operations; and*
- c. *Support state goals for protection, restoration, interpretation, and display of historic resources.*

**Response:** The proposed project is not anticipated to have an adverse effect on historic or cultural resources. An archaeological field inspection conducted for the proposed project did not find any surface features or deposits. Based on the field survey, it was determined that the project would not have an adverse impact on historic properties. However, as a precautionary measure, an Archaeological



Monitoring Plan has been prepared and will be implemented during ground-altering work. Refer to **Appendix “D”** and **“Appendix “D-1”**.

Should any cultural or historical materials be uncovered during construction-related activities, work shall be halted in the area of the find and the SHPD shall be notified for determination of appropriate mitigation measures.

The Cultural Impact Assessment concludes that the proposed project does not impact traditional Hawaiian practices or culture in the area.

### 3. **Scenic and Open Space Resources**

#### **Objective:**

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

#### **Policies:**

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

**Response:** The proposed project primarily involves the north side shoulder of Hana Highway along with some land that is being utilized within the Maui Country Club and H.A. Baldwin Park properties. The at-grade improvements will not create adverse view impacts to and along the shoreline, nor will they detract from the open space views along Hana Highway. As such, adverse impacts to scenic and open space resources are not anticipated as a result of the proposed project.

#### 4. Coastal Ecosystems

##### Objective:

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

##### Policies:

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

**Response:** The proposed project is not anticipated to result in significant, adverse impacts to coastal ecosystems. Best Management Practices (BMPs) will be implemented during the construction of the proposed improvements to mitigate potential impacts to the coastal environment.

#### 5. Economic Uses

##### Objective:

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

##### Policies:

- a. *Concentrate coastal dependent development in appropriate areas;*
- b. *Ensure that coastal dependent development such as harbors and ports, and coastal related development such as visitor industry*

*facilities and energy generating facilities, are located, designed, and constructed to minimize adverse social, visual, and environmental impacts in the coastal zone management area; and*

- c. Direct the location and expansion of coastal dependent developments to areas presently designated and used for such developments and permit reasonable long-term growth at such areas, and permit coastal dependent development outside of presently designated areas when:
  - i. Use of presently designated locations is not feasible;*
  - ii. Adverse environmental effects are minimized; and*
  - iii. The development is important to the State's economy.**

**Response:** The proposed project is not a coastal dependent development. Instead, it is considered an infrastructure component which enhances the community's ability to access and enjoy Maui's coastal recreational resources. The project will provide short-term economic benefits during the construction phase. From a long-term perspective, there are no long-term adverse economic impacts envisioned.

## 6. **Coastal Hazards**

### **Objective:**

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

### **Policies:**

- a. Develop and communicate adequate information about storm wave, tsunami, flood, erosion, subsidence, and point and nonpoint source pollution hazards;*
- b. Control development in areas subject to storm wave, tsunami, flood, erosion, hurricane, wind, subsidence, and point and nonpoint source pollution hazards;*
- c. Ensure that developments comply with requirements of the Federal Flood Insurance Program; and*
- d. Prevent coastal flooding from inland projects.*

**Response:** There are parts of the subject properties that lie within the tsunami evacuation zone. The majority of the project lies within Flood Zone X, an area of

minimal flooding action and without development restrictions. A small portion of the project, near the Kailua Stream, lies in Flood Zone AE, an area with a base flood elevation for a 100-year flood. While the proposed project will include the installation of a bridge crossing at Kailua Stream's Hana Highway crossing, this action does not hold adverse impact implications to downstream streamflow or stormwater runoff patterns.

7. **Managing Development**

**Objective:**

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

**Policies:**

- a. *Use, implement, and enforce existing law effectively to the maximum extent possible in managing present and future coastal zone development;*
- b. *Facilitate timely processing of applications for development permits and resolve overlapping or conflicting permit requirements; and*
- c. *Communicate the potential short and long-term impacts of proposed significant coastal developments early in their life cycle and in terms understandable to the public to facilitate public participation in the planning and review process.*

**Response:** Opportunities for public involvement will be provided as part of the Chapter 343 Environmental Assessment (EA) review process for the proposed project. In particular, interested agencies and organizations will be offered the opportunity to provide input via early consultation coordination and review of the Draft EA document.

8. **Public Participation**

**Objective:**

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

**Policies:**

- a. *Promote public involvement in coastal zone management processes;*

- b. *Disseminate information on coastal management issues by means of educational materials, published reports, staff contact, and public workshops for persons and organizations concerned with coastal issues, developments, and government activities; and*
- c. *Organize workshops, policy dialogues, and site-specific mediations to respond to coastal issues and conflicts.*

**Response:** As mentioned above, public awareness and participation opportunities will be facilitated through the Chapter 343 HRS, EA process for the subject project.

## 9. **Beach Protection**

### **Objective:**

*Protect beaches for public use and recreation.*

### **Policies**

- a. *Locate new structures inland from the shoreline setback to conserve open space, minimize interference with natural shoreline processes, and minimize loss of improvements due to erosion;*
- b. *Prohibit construction of private erosion-protection structures seaward of the shoreline, except when they result in improved aesthetic and engineering solutions to erosion at the sites and do not interfere with existing recreational and waterline activities; and*
- c. *Minimize the construction of public erosion-protection structures seaward of the shoreline.*

**Response:** The proposed project is located away from shoreline areas and will not impact natural beach processes.

## 10. **Marine Resources**

### **Objective:**

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

**Policies:**

- a. *Ensure that the use and development of marine and coastal resources are ecologically and environmentally sound and economically beneficial;*
- b. *Coordinate the management of marine and coastal resources and activities to improve effectiveness and efficiency;*
- c. *Assert and articulate the interests of the State as a partner with federal agencies in the sound management of ocean resources within the United States exclusive economic zone;*
- d. *Promote research, study, and understanding of ocean processes, marine life, and other ocean resources in order to acquire and inventory information necessary to understand how ocean development activities relate to and impact upon ocean and coastal resources; and*
- e. *Encourage research and development of new, innovative technologies for exploring, using, or protecting marine and coastal resources.*

**Response:** The project is not located in the vicinity of the shoreline. The use of appropriate BMPs will be implemented during the construction of the proposed NSG–Phase IV project to mitigate any potential impacts to marine resources.

In addition to the foregoing objectives and policies, HRS Section 205A-30.5 Prohibitions, provides specifications for the limitation of lighting in coastal shoreline areas in relation to the granting of SMA permits:

*No special management area use permit or special management area minor permit shall be granted for structures that allow artificial light from floodlights, uplights, or spotlights used for decorative or aesthetic purposes when the light:*

- (1) *Directly illuminates the shoreline and ocean waters; or*
- (2) *Is directed to travel across property boundaries toward the shoreline and ocean waters.*
- (c) *Subsection (a) shall not apply to special management area use permits for structures with:*
  - (1) *An outdoor lighting fixture that is located on the grounds of a hotel, hotel-condominium or*

*condominium-hotel as defined in section 486K-1; provided that:*

- (A) The outdoor lighting fixture is located underwater or is directed downward and illuminates a limited area of no more than thirty feet into the shoreline and ocean waters; or*
- (B) The outdoor lighting fixture is the only practicable means of ensuring the safety and security of guests, visitors, and employees;*
- (3) Artificial lighting provided by a government agency or its authorized users for government operations, security, public safety, or navigational needs; provided that a government agency or its authorized users shall make reasonable efforts to properly position or shield lights to minimize adverse impacts.*

**Response:** There are no lighting improvements proposed in connection with the proposed project. As such, there are no adverse lighting-related impacts associated with the project.

The project site is also subject to Chapter 202, SMA Rules of the Maui Planning Commission. Pursuant to Section 12-202-12(e), the project has been evaluated in accordance with the following 12 criteria.

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

The project alignment encompasses parts of the Maui Country Club, H.A. Baldwin Park, and Hana Highway. There are no sensitive natural resources which will be affected by the proposed action.

An archaeological field inspection and cultural impact assessment were prepared for the proposed project. No archaeological, historic, or cultural sites were uncovered. However, as a precaution, archaeological monitoring during ground-altering work is recommended. Additionally, no traditional cultural practices were found. As such, the proposed project will not involve an irrevocable commitment or destruction of any natural or cultural resources.

**2. Significantly curtails the range of beneficial uses of the environment.**

The proposed NSG-Phase IV project is limited in scope and scale and will not significantly curtail the range of beneficial uses of the environment.

**3. Conflicts with the county's or the state's long-term environmental policies or goals.**

The proposed project is consistent with and does not conflict with the State's and County's long-term environmental policies and goals.

**4. Substantially affects the economic or social welfare and activities of the community, county, or state.**

The proposed action advances transportation alternatives for bicyclists and pedestrians and will not substantially affect the economic or social welfare and activities of the community, County, or State.

**5. Involves substantial secondary impacts, such as population changes and increased effects on public facilities, streets, drainage, sewage, and water systems and pedestrian walkways.**

The proposed action will provide an alternative infrastructure component for bicyclists and pedestrians. The project is not a population generator and does not have adverse implications with respect to secondary impacts.

**6. In itself has no significant adverse effects but cumulatively has considerable effect upon the environment or involves a commitment for larger actions.**

The project area is identified as a proposed action in the Wailuku-Kahului Community Plan and the Paia-Haiku Community Plan. The proposed project is not linked to any other action and is not anticipated to result in cumulative impacts.

**7. Substantially affects a rare, threatened, or endangered species of animal or plant, or its habitat.**

No rare, threatened, or endangered species of animal or plant are found within the project's limits. However, the tobacco tree plant was observed in the project area, which is a non-native host of the endangered Blackburn's sphinx moth. Removal of any tobacco trees will be coordinated with the U.S. Fish and Wildlife Service. As such, with appropriate mitigation the project will not adversely impact these environmental parameters.



**8. Is contrary to the state plan, county's general plan, appropriate community plans, zoning and subdivision ordinances.**

The proposed project is in compliance with the State Plan, County's General Plan, Wailuku-Kahului Community Plan, Paia-Haiku Community Plan, and zoning. Project design will be in compliance with all applicable governmental regulations.

**9. Detrimentially affects air or water quality or ambient noise levels.**

During construction of the proposed project, there may be short-term impacts to air, water, and noise quality. Appropriate BMPs will be implemented to minimize these short-term impacts, which will not extend into the long-term. The proposed project is not anticipated to have a detrimental effect on air or water quality or ambient noise levels.

**10. Affects an environmentally sensitive area, such as flood plain, shoreline, tsunami zone, erosion-prone area, geologically hazardous land, estuary, fresh waters, or coastal waters.**

A portion of the proposed project alignment is located in Flood Zone AE at Kailua Stream and H.A. Baldwin Park. As an at-grade paved pathway, the NSG-Phase IV is not considered to have an adverse impact on drainage or flooding conditions.

**11. Substantially alters natural land forms and existing public views to and along the shoreline.**

As an at-grade improvement with no vertical structures, the proposed project is not anticipated to substantially alter natural land forms or affect existing public views to and along the shoreline.

**12. Is contrary to the objectives and policies of chapter 205A, HRS.**

As noted previously, the proposed project is not contrary to the objectives and policies of Chapter 205A, HRS.

**G. OTHER REGULATORY CONSIDERATIONS**

As noted previously, the Kailua Stream crosses Hana Highway in the vicinity of the NSG-Phase IV project. As a result, a bridge crossing is proposed on the makai side of Hana Highway to accommodate the paved greenway. The installation of the bridge crossing may trigger other permit requirements, such as a National Pollutant Discharge Elimination System (NPDES) Permit and Community Noise Permit. Coordination will be

undertaken with the appropriate agencies to obtain permit jurisdictional confirmations. As applicable, permit applications will be filed to address the foregoing regulatory requirements.

**IV. SUMMARY OF ADVERSE  
ENVIRONMENTAL EFFECTS  
WHICH CANNOT BE  
AVOIDED**

## **IV. SUMMARY OF ADVERSE ENVIRONMENTAL EFFECTS WHICH CANNOT BE AVOIDED**

Project construction may result in certain unavoidable construction-related impacts, including noise-generated impacts and air quality impacts associated with the operation of construction equipment. Air quality may also be temporarily impacted by dust generated from site work. The construction-related impacts will be temporary and mitigated through implementation of appropriate Best Management Practices (BMPs).

The development of the proposed project will involve the commitment of approximately 26,000 sq. ft. of land currently utilized as the Maui Country Club and H.A. Baldwin Park for construction of the North Shore Greenway (NSG)–Phase IV. In addition, the proposed action would involve a commitment of fuel, labor, funding, and material resources. However, the commitment of resources necessary to implement the proposed project is considered justified, given the benefits associated with the completion of the NSG.

In the long term, the completion of the NSG is not anticipated to result in significant, long-term environmental effects.

## **V. ALTERNATIVES TO THE PROPOSED ACTION**

## V. ALTERNATIVES TO THE PROPOSED ACTION

### A. PREFERRED ALTERNATIVE

The proposed project involves the construction of the North Shore Greenway (NSG)–Phase IV to complete a pedestrian and bike path from Kahului to Paia for recreational and alternative transportation use. It creates a safe alternate route for pedestrians and bikers. The proposed project’s alignment following along or near Hana Highway is considered a workable solution based on right-of-way availability and the ability to minimize impacts to existing land uses.

### B. NO ACTION ALTERNATIVE

The “No Action” alternative would leave the NSG project in an incomplete condition. The recreational, public access, and public safety benefits of the project would, therefore, not be realized. In the context of the overall North Shore Greenway plan and its development process, the “No Action” option is not viewed as a reasonable alternative.

### C. DEFERRED ACTION ALTERNATIVE

The “Deferred Action” alternative would yield a similar result as the “No Action” alternative. Opportunity for a time-certain implementation schedule for the project would be lost and leave the project’s completion in a probable state of uncertainty. Given the need for the project at this time, the “Deferred Action” alternative was not considered by the Department of Public Works.

### D. ALTERNATIVE GREENWAY ALIGNMENT

A coastal route for the Greenway, following the shoreline, makai of the Maui Country Club was also considered as a potential alignment for the NSG–Phase IV project. Limitations associated with this route, however, included potential adverse environmental impacts associated with the existing coastal sand dune, as well as the potential effects to cultural resources. The sand dune area is considered to be of higher sensitivity as it represents a valued coastal resource. Importantly, the sand dune also holds potential for encountering inadvertent burials. For these reasons, the coastal alignment was not considered viable.

# **VI. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF RESOURCES**

## **VI. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF RESOURCES**

The proposed construction of the North Shore Greenway--Phase IV is anticipated to result in the irreversible and irretrievable commitment of land and fiscal resources. Other resource commitments include labor and material sources. Impacts relating to the use of these resources are anticipated to be minimal, especially when weighed against the expected positive recreational and public safety benefits to be derived from the project, versus the consequences of taking no action.

In addition, the proposed project is not anticipated to require a substantial commitment of government services, nor is it anticipated to place additional demands on other services, such as police, medical, and social care.



# **VII. SIGNIFICANCE CRITERIA ASSESSMENT**

## VII. SIGNIFICANCE CRITERIA ASSESSMENT

The proposed project includes the use of State and County lands and the use of County funds. Since State and County lands and County funds are being utilized for the project, an Environmental Assessment (EA) has been prepared pursuant to Chapter 343, Hawaii Revised Statutes (HRS) and Chapter 200 of Title 11, Hawaii Administrative Rules (HAR) of the State Department of Health, Environmental Impact State Rules.

The “Significance Criteria” Section 12, of the HAR, Title 11, Chapter 200, Environmental Impact Statement Rules, were reviewed and analyzed to determine whether the proposed project will have significant impacts to the environment. The following analysis is provided:

1. **No Irrevocable Commitment to Loss or Destruction of any Natural or Cultural Resources Would Occur as a Result of the Project**

The project alignment encompasses parts of the Maui Country Club, H.A. Baldwin Park, and Hana Highway. There are no sensitive natural resources which will be affected by the proposed action.

An archaeological field inspection and cultural impact assessment were prepared for the proposed project. No archaeological, historic, or cultural sites were identified. However, as a precaution, archaeological monitoring during ground-altering work is recommended. Additionally, no traditional cultural practices were found. As such, the proposed project will not involve an irrevocable commitment or destruction of any natural or cultural resources.

2. **The Proposed Action Would Not Curtail the Range of Beneficial Uses of the Environment**

The subject project is limited in scope and scale. The proposed action, as a bicycle and pedestrian facility, will not significantly curtail the range of beneficial uses of the environment.

3. **The Proposed Action Does Not Conflict with the State’s Long-Term Environmental Policies or Goals or Guidelines as Expressed in Chapter 344, Hawaii Revised Statutes**

The State’s Environmental Policy and Guidelines are set forth in Chapter 344, HRS. The proposed action is in consonance with the policies and guidelines of Chapter 344, HRS.

4. **The Economic or Social Welfare of the Community or State Would Not Be Substantially Affected**

The proposed action will provide direct, short-term economic benefits during the construction phase. There are no long-term economic or social welfare impacts associated with the proposed action.

5. **The Proposed Action Does Not Affect Public Health**

The North Shore Greenway project will provide a bicycle/pedestrian path to establish the final link in this project. When this phase of the Greenway is opened to public, it will link Spreckelsville to Paia and provide bikers and pedestrians an alternative route of travel. No adverse impacts to public health are anticipated.

6. **No Substantial Secondary Impacts, Such as Population Change or Effects on Public Facilities are Anticipated**

The proposed project will provide an alternative path for bicyclists and pedestrians. The proposed project is not a population generator and will not result in substantial secondary impacts.

7. **No Substantial Degradation of Environmental Quality is Anticipated**

During project construction, appropriate Best Management Practices (BMPs) will be utilized to mitigate potential adverse environmental impacts. The proposed action will have no substantial adverse impact to environmental quality over the long term.

8. **The Proposed Action Does Not Involve a Commitment to Larger Actions, Nor Would Cumulative Impacts Result in Considerable Effects on the Environment**

The proposed project is limited in scope and scale and is not anticipated to result in any cumulative impacts.

9. **No Rare, Threatened or Endangered Species or Their Habitats Would Be Adversely Affected By the Proposed Action**

There are no rare, threatened, or endangered species of animal or plant which will be affected by the proposed action. However, the tobacco tree plant was observed in the project area, which is a non-native host of the Blackburn's sphinx moth. Removal of any tobacco trees will be coordinated with the U.S. Fish and Wildlife Service. As such, with appropriate mitigation the project will not adversely impact rare, threatened, or endangered species or their habitats.

10. **Air Quality, Water Quality, or Ambient Noise Levels Would Not Be Detrimentially Affected by the Proposed Project**

During the construction of the proposed project, there may be short-term impacts to air, water, and noise quality. Appropriate BMPs will be implemented to minimize these short-term impacts, which will not extend into the long term. The proposed project is not anticipated to have any long-term effects on air or water quality or ambient noise levels.

11. **The Proposed Project Would Not Affect Environmentally Sensitive Areas, Such as Flood Plains, Tsunami Zones, Erosion-prone Areas, Geologically Hazardous Lands, Estuaries, Fresh Waters or Coastal Waters**

The project site is located in Flood Zones X, AE and AEF. A flood hazard district permit may be necessary. The project area is located within a tsunami evacuation zone. There are no adverse impacts to flooding or tsunami patterns anticipated as a result of project implementation.

Potential impacts to downstream properties will be mitigated through appropriate BMPs during construction-related activities.

12. **The Proposed Action Would Not Substantially Affect Scenic Views and Viewplanes Identified in County Plans or Studies**

The proposed project involves the construction of a multi-use path from Spreckelsville to Paia on the makai side of Hana Highway. The project site abuts a residential subdivision, Maui Country Club, and H.A. Baldwin Park on the makai side of Hana Highway. Agricultural fields are planted on the mauka side of the highway. As an at-grade improvement with no vertical structures, the project is not anticipated to adversely impact visual resources in the area.

13. **The Proposed Action Would Not Require Substantial Energy Consumption**

The proposed action will involve the short-term commitment of fuel for equipment, vehicles, and machinery during construction activities. However, there will not be energy consumption associated with the use of the NSG-Phase IV in the long term.

Based on the foregoing findings, the proposed action will not result in any significant adverse impact. Accordingly, this Final Environmental Assessment is being processed as a Finding of No Significant Impact (FONSI) by the Department of Public Works.

# **VIII. LIST OF PERMITS AND APPROVALS**

## VIII. LIST OF PERMITS AND APPROVALS

The following permits and approvals are anticipated to be needed for project implementation.

### **Federal**

1. Department of the Army Jurisdictional Determination

### **State of Hawaii**

1. Department of Health, National Pollutant Discharge Elimination System Permit, as applicable
2. Department of Health, Community Noise Permit, as applicable

### **County of Maui**

1. Compliance with Chapter 343, Hawaii Revised Statutes
2. Special Management Area Assessment
3. Flood Hazard District Permit, as applicable
4. Construction Permits (Grubbing, Grading and Work to Perform on State Highway), as applicable

**IX. PARTIES CONSULTED  
DURING THE PREPARATION  
OF THE DRAFT  
ENVIRONMENTAL  
ASSESSMENT; LETTERS  
RECEIVED AND RESPONSES  
TO SUBSTANTIVE  
COMMENTS**

# IX. PARTIES CONSULTED DURING THE PREPARATION OF THE DRAFT ENVIRONMENTAL ASSESSMENT; LETTERS RECEIVED AND RESPONSES TO SUBSTANTIVE COMMENTS

The following agencies were consulted during preparation of the Draft Environmental Assessment (EA). Comment letters received, as well as responses to substantive comments, are included herein.

## FEDERAL AGENCIES

1. Ranae Ganske-Cerizo, Soil Conservationist  
Natural Resources Conservation Service  
**U.S. Department of Agriculture**  
77 Hookele Street, Suite 202  
Kahului, Hawaii 96732
2. George Young, Chief, Regulatory Branch  
**U.S. Department of the Army**  
U.S. Army Engineer District, Honolulu  
Regulatory Branch, Building 230  
Fort Shafter, Hawaii 96858-5440
3. Loyal A. Mehrhoff, Field Supervisor  
**U. S. Fish and Wildlife Service**  
300 Ala Moana Blvd., Rm. 3-122  
Box 50088  
Honolulu, Hawaii 96813

## STATE AGENCIES

4. Dean H. Seki, Comptroller  
**Department of Accounting and General Services**  
1151 Punchbowl Street, #426  
Honolulu, Hawaii 96813
5. Russell Kokubun, Chair  
**Department of Agriculture**  
1428 South King Street  
Honolulu, Hawaii 96814-2512

6. Richard C. Lim, Director  
State of Hawaii  
**Department of Business, Economic Development and Tourism**  
P.O. Box 2359  
Honolulu, Hawaii 96804
7. Kathryn Matayoshi, Superintendent  
State of Hawaii  
**Department of Education**  
P.O. Box 2360  
Honolulu, Hawaii 96804
8. Heidi Meeker, Planning Division  
Office of Business Services  
**Department of Education**  
c/o Kalani High School  
4680 Kalaniana'ole Highway, #T-B1A  
Honolulu, Hawaii 96821
9. Jobie Masagatani, Chairperson  
**Hawaiian Home Lands Commission**  
P.O. Box 1879  
Honolulu, Hawaii 96805
10. Alec Wong, P.E., Chief  
Clean Water Branch  
State of Hawaii  
**Department of Health**  
919 Ala Moana Blvd., Room 300  
Honolulu, Hawaii 96814
11. Patti Kitkowski, District Environmental Health Program Chief  
State of Hawaii  
**Department of Health**  
Maui Sanitation Branch  
54 South High Street, Room 300  
Wailuku, Hawaii 96793



12. Laura McIntyre, AICP, Office Manager  
Environmental Planning Office  
**Department of Health**  
919 Ala Moana Blvd., Suite 312  
Honolulu, Hawaii 96814

13. Lene Ichinotsubo  
Environmental Management Division  
State of Hawaii  
**Department of Health**  
919 Ala Moana Blvd., Room 212  
Honolulu, Hawaii 96814

14. William J. Aila, Jr., Chairperson  
State of Hawaii  
**Department of Land and Natural Resources**  
P. O. Box 621  
Honolulu, Hawaii 96809

15. Nicki Thompson, Interim Administrator  
State of Hawaii  
**Department of Land and Natural Resources**  
State Historic Preservation Division  
601 Kamokila Blvd., Room 555  
Kapolei, Hawaii 96707

16. Jenny Pickett, Maui Archaeologist  
State of Hawaii  
**Department of Land and Natural Resources**  
State Historic Preservation Division  
130 Mahalani Street  
Wailuku, Hawaii 96793

17. Glenn Okimoto, Director  
State of Hawaii  
**Department of Transportation**  
869 Punchbowl Street  
Honolulu, Hawaii 96813

cc: Ferdinand Cajigal, Maui District  
Engineer

18. Genevieve Salmonson, Acting Director  
**Office of Environmental Quality Control**  
235 S. Beretania Street, Suite 702  
Honolulu, Hawaii 96813

19. Dr. Kamana`opono Crabbe, Chief  
Executive Officer  
**Office of Hawaiian Affairs**  
711 Kapiolani Boulevard, Suite 500  
Honolulu, Hawaii 96813

20. Jesse Souki, Director  
State of Hawaii  
**Office of Planning**  
P. O. Box 2359  
Honolulu, Hawaii 96804

#### COUNTY AGENCIES

21. Teena Rasmussen, Coordinator  
County of Maui  
**Office of Economic Development**  
2200 Main Street, Suite 305  
Wailuku, Hawaii 96793

22. Anna Foust, Management Officer  
**Maui Civil Defense Agency**  
200 South High Street  
Wailuku, Hawaii 96793

23. Jeffrey A. Murray, Fire Chief  
County of Maui  
**Department of Fire and Public Safety**  
200 Dairy Road  
Kahului, Hawaii 96732

24. Jo-Ann Ridao, Director  
County of Maui  
**Department of Housing and Human Concerns**  
One Main Plaza  
2200 Main Street, Suite 546  
Wailuku, Hawaii 96793

25. Glenn Correa, Director  
County of Maui  
**Department of Parks and Recreation**  
700 Halia Nakoia Street, Unit 2  
Wailuku, Hawaii 96793

26. William Spence, Director  
County of Maui  
**Department of Planning**  
2200 Main Street, Suite 315  
Wailuku, Hawaii 96793

27. Gary Yabuta, Chief  
County of Maui  
**Police Department**  
55 Mahalani Street  
Wailuku, Hawaii 96793

28. Kyle Ginoza, Director  
County of Maui  
**Department of Environmental Management**  
One Main Plaza  
2200 Main Street, Suite 100  
Wailuku, Hawaii 96793
29. Jo Anne Johnson Winer, Director  
County of Maui  
**Department of Transportation**  
200 South High Street  
Wailuku, Hawaii 96793
30. David Taylor, Director  
County of Maui  
**Department of Water Supply**  
200 South High Street  
Wailuku, Hawaii 96793
31. **Kaunoa Senior Center**  
County of Maui  
401 Alakapa Place  
Paia, Hawaii 96779

#### UTILITIES

32. Dan Takahata, Manager -- Engineering  
**Maui Electric Company, Ltd.**  
P.O. Box 398  
Kahului, Hawaii 96733
33. **Hawaiian Telcom**  
60 South Church Street  
Wailuku, Hawaii 96793

#### COMMUNITY ORGANIZATIONS

34. **Maui Country Club**  
48 Nonohe Street  
Spreckelsville, Maui, Hawaii 96779
35. Ryozo Yamaguchi  
**Paia Rinzai Zen Mission**  
120 Alawai Road  
Paia, Hawaii 96779
36. **Paia Youth and Cultural Center**  
P.O. Box 790999  
Paia, Hawaii 96779

NEIL ABERCROMBIE  
GOVERNOR



OCT 16 2013

Dean H. Seki  
Comptroller

Maria E. Zielinski  
Deputy Comptroller

**STATE OF HAWAII**  
**DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES**

P.O. BOX 119, HONOLULU, HAWAII 96810-0119

(P)1232.3

OCT 14 2013

Ms. Colleen Suyama, Senior Associate  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

Dear Ms. Suyama:

Subject: Consultation Request for Proposed North Shore Greenway Phase IV  
Paia, Maui, Hawaii; DPW Job No. 12-35  
TMK: (2) 3-8-001:071 (por), (2) 3-8-001  
Hana Highway Right-of-Way, (2) 2-5-005:046 (por).

Thank you for the opportunity to provide comments for the subject project.

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

If you have any questions, please call me at 586-0400 or your staff may call Mr. Alva Nakamura of the Public Works Division at 586-0488.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Seki".

DEAN H. SEKI  
Comptroller

c: Mr. Kurt Watanabe, County of Maui, Dept. of Public Works



MICHAEL T. MUNEKIYO  
PRESIDENT

KARLYNN FUKUDA  
EXECUTIVE VICE PRESIDENT

OWEN OHASHI HIRAGA  
SENIOR VICE PRESIDENT

MITSURO "MICH" MURANO  
SENIOR VICE PRESIDENT

MARK ALEXANDER BOY  
VICE PRESIDENT

March 7, 2014

Dean Seki, Comptroller  
Department of Accounting and General Services  
State of Hawaii  
P.O. Box 119  
Honolulu, Hawaii 96810

SUBJECT: Early Consultation Request for Proposed North Shore Greenway—Phase IV, Paia, Maui, Hawaii; DPW Job No. 12-35; TMK (2)3-8-001:071(por.), (2)3-8-001(Hana Highway Right-of-Way), and (2)2-5-005:046(por.) ((P)1232.3)

Dear Mr. Seki:

Thank you for your letter dated October 14, 2013, providing early consultation comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway—Phase IV project. On behalf of the County of Maui, Department of Public Works (DPW), we acknowledge that the Department of Accounting and General Services does not have any comments at this time.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Draft EA. In the meantime, if there are any questions or if additional information is needed, please feel free to contact me at (808) 244-2015.

Very truly yours,

Colleen Suyama, Senior Associate

CS:la

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.

K:\DATA\RTTanaka\NS Greenway\PH\Tech\Response Letters\DAGS.ltr.docx

MAUI

305 High St., Suite 104 Wailuku, Hawaii 96793

PH: (808)244-2015 FAX: (808)244-8729

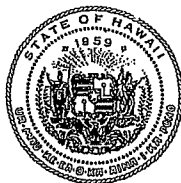
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OCT 22 2013

LORETTA J. FUDDY, A.C.S.W., M.P.H.  
DIRECTOR OF HEALTH

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

In reply, please refer to:  
EMD/CWB

10066PJF.13

October 18, 2013

Ms. Colleen Suyama  
Senior Associate  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

Dear Ms. Suyama:

**SUBJECT: Comments on Early Consultation Request for the  
Proposed North Shore Greenway Phase IV Project  
Paia, Island of Maui, Hawaii**

The Department of Health (DOH), Clean Water Branch (CWB), acknowledges receipt of your letter, dated October 4, 2013, requesting comments on your project. The DOH-CWB has reviewed the subject document and offers these comments. Please note that our review is based solely on the information provided in the subject document and its compliance with the Hawaii Administrative Rules (HAR), Chapters 11-54, and 11-55. You may be responsible for fulfilling additional requirements related to our program. We recommend that you also read our standard comments on our website at: <http://health.hawaii.gov/epo/files/2013/05/CWB-standardcomment.pdf>.

1. Any project and its potential impacts to State waters must meet the following criteria:
  - a. Anti-degradation policy (HAR, Section 11-54-1.1), which requires that the existing uses and the level of water quality necessary to protect the existing uses of the receiving State water be maintained and protected.
  - b. Designated uses (HAR, Section 11-54-3), as determined by the classification of the receiving State waters.
  - c. Water quality criteria (HAR, Sections 11-54-4 through 11-54-8).
2. You may be required to obtain a National Pollutant Discharge Elimination System (NPDES) permit for discharges of wastewater, including storm water runoff, into State surface waters (HAR, Chapter 11-55). An application for an NPDES individual permit must be submitted at least 180 calendar days before the commencement of the discharge. To request NPDES permit coverage, you must submit the CWB Individual

NPDES Form through the e-Permitting Portal and the hard copy certification statement with \$1,000 filing fee. Please open the e-Permitting Portal website at: <https://eha-cloud.doh.hawaii.gov/epermit/View/home.aspx>. You will be asked to do a one-time registration to obtain your login and password. After you register, click on the Application Finder tool and locate the "CWB Individual NPDES Form." Follow the instructions to complete and submit this form.


3. If your project involves work in, over, or under waters of the United States, it is highly recommended that you contact the Army Corp of Engineers, Regulatory Branch (Tel: 438-9258) regarding their permitting requirements.

Pursuant to Federal Water Pollution Control Act [commonly known as the "Clean Water Act" (CWA)], Paragraph 401(a)(1), a Section 401 Water Quality Certification (WQC) is required for "[a]ny applicant for Federal license or permit to conduct any activity including, but not limited to, the construction or operation of facilities, which may **result** in any discharge into the navigable waters..." (emphasis added). The term "discharge" is defined in CWA, Subsections 502(16), 502(12), and 502(6); Title 40 of the Code of Federal Regulations, Section 122.2; and HAR, Chapter 11-54.

4. Please note that all discharges related to the project construction or operation activities, whether or not NPDES permit coverage and/or Section 401 WQC are required, must comply with the State's Water Quality Standards. Non-compliance with water quality requirements contained in HAR, Chapter 11-54, and/or permitting requirements, specified in HAR, Chapter 11-55, may be subject to penalties of \$25,000 per day per violation.

If you have any questions, please visit our website at:  
<http://health.hawaii.gov/cwb>, or contact the Engineering Section, CWB, at (808) 586-4309.

Sincerely,

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

JF:rh



MICHAEL T. MUNEKIYO  
PRESIDENT

KARLYNN FUKUOA  
EXECUTIVE VICE PRESIDENT

BWEN OHASHI HIRAGA  
SENIOR VICE PRESIDENT

MITSURU "MICH" HIRANO  
SENIOR VICE PRESIDENT

MARK ALEXANDER ROY  
VICE PRESIDENT

March 7, 2014

Alec Wong, P.E., Chief  
Clean Water Branch  
Department of Health  
State of Hawaii  
P.O. Box 3378  
Honolulu, Hawaii 96801-3378

SUBJECT: Early Consultation Request for Proposed North Shore Greenway--  
Phase IV, Paia, Maui, Hawaii; DPW Job No. 12-35; TMK (2)3-8-  
001:071(por.), (2)3-8-001(Hana Highway Right-of-Way), and (2)2-  
5-005:046(por.) (10066PJF.13)

Dear Mr. Wong:

Thank you for your letter dated October 18, 2013, providing early consultation comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway--Phase IV project. As recommended, the Department of Public Works (DPW) and design consultant have reviewed the standard comments on your website and applicable comments will be complied with. Further, on behalf of the DPW we offer the following information, which addresses your comments in the order listed in your letter:

1. We acknowledge that the project must meet the Department of Health (DOH) water quality requirements of Hawaii Administrative Rules (HAR), Chapter 11-54.
2. As may be required, a National Pollutant Discharge Elimination System (NPDES) permit application will be submitted to the DOH for approval prior to the initiation of construction.
3. We acknowledge that work in, over, or under waters of the United States may require additional permitting from the Army Corps of Engineers (ACE), Regulatory Branch. In this regard, the DPW has initiated coordination with the ACE.

MAUI

305 High St., Suite 104 Wailuku, Hawaii 96793

PH: (808)244-2015 FAX: (808)244-8729

MAUI

735 Bishop St., Suite 238 Honolulu, Hawaii 96813 | PH: (808)983-1233

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73

Alec Wong, P.E., Chief  
March 7, 2014  
Page 2

4. We acknowledge the project must comply with the State's Water Quality Standards and non-compliance may be subject to penalties of \$25,000.00 per day per violation.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Draft EA. In the meantime, if there are any questions or if additional information is needed, please feel free to contact me at (808) 244-2015.

Very truly yours,



Colleen Suyama, Senior Associate

CS:la

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.

K:\DATA\RTTanaka\NS GreenwayPh\lecl\Response Letters\DOH CWB.ltr.docx





**STATE OF HAWAII  
DEPARTMENT OF HEALTH  
MAUI DISTRICT HEALTH OFFICE**  
54 HIGH STREET  
WAILUKU, HAWAII 96793

October 16, 2013

Ms. Colleen Suyama  
Senior Associate  
Munekiyō & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

Dear Ms. Suyama:

**Subject: Early Consultation Request for Proposed North Shore  
Greenway Phase IV, Paia, Maui, HI; DPW Job No. 12-  
35; TMK (2) 3-8-001:071 (por.), (2) 3-8-001:(Hana  
Highway Right of Way, (2) 2-5-005:046 (por.)**

Thank you for the opportunity to review this project. We have the following comments to offer:

1. National Pollutant Discharge Elimination System (NPDES) permit coverage maybe required for this project. The Clean Water Branch should be contacted at 808 586-4309.
2. The noise created during the construction phase of the project may exceed the maximum allowable levels as set forth in Hawaii Administrative Rules (HAR), Chapter 11-46, "Community Noise Control." A noise permit may be required and should be obtained before the commencement of work. The Indoor & Radiological Health Branch should be contacted at 808 586-4700.

It is strongly recommended that the Standard Comments found at the Department's website: [www.state.hi.us/health/environmental/env-planning/landuse/landuse.html](http://www.state.hi.us/health/environmental/env-planning/landuse/landuse.html) be reviewed and any comments specifically applicable to this project should be adhered to.

Ms. Colleen Suyama  
October 16, 2013  
Page 2

Should you have any questions, please call me at 808 984-8230 or E-mail me at [patricia.kitkowski@doh.hawaii.gov](mailto:patricia.kitkowski@doh.hawaii.gov).

Sincerely,

A handwritten signature in cursive script that reads "Patti Kitkowski".

Patti Kitkowski  
District Environmental Health Program Chief  
c:EPO



MICHAEL T. MUNEKIYO  
PRESIDENT

KARLYNN FUKUDA  
EXECUTIVE VICE PRESIDENT

GWEN OHASHI HIRAGA  
SENIOR VICE PRESIDENT

MITSUBU "MICH" HIRANO  
SENIOR VICE PRESIDENT

MARK ALEXANDER ROY  
VICE PRESIDENT

March 7, 2014

Ms. Patti Kitkowski  
Maui District Health Office  
Department of Health  
State of Hawaii  
54 High Street  
Wailuku, Hawaii 96793

**SUBJECT:** Early Consultation Request for Proposed North Shore Greenway—Phase IV, Paia, Maui, Hawaii; DPW Job No. 12-35; TMK (2)3-8-001:071(por.), (2)3-8-001(Hana Highway Right-of-Way), and (2)2-5-005:046(por.)

Dear Ms. Kitkowski:

Thank you for your letter dated October 16, 2013, providing early consultation comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway—Phase IV project. On behalf of the County of Maui, Department of Public Works (DPW), we offer the following information in response to your comments:

1. As may be required, a National Pollutant Discharge Elimination System (NPDES) permit application will be submitted to the Department of Health.
2. As may be required, in compliance with Chapter 11-46 "Community Noise Control" a noise permit will be obtained prior to the commencement of work.
3. The DPW will comply with applicable comments and conditions found at the Department's website.

MAUI

305 High St., Suite 104 Wailuku, Hawaii 96793

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77

Ms. Patti Kitkowski  
March 7, 2014  
Page 2

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Draft EA. In the meantime, if there are any questions or if additional information is needed, please feel free to contact me at 244-2015.

Very truly yours,



Colleen Suyama, Senior Associate

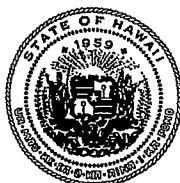
CS:la

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.

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OCT 21 2013

NEIL ABERCROMBIE  
GOVERNOR OF HAWAII



LORETTA J. FUDDY, A.C.S.W., M.P.H.  
DIRECTOR OF HEALTH

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

In reply, please refer to:  
File:

13-191  
Greenway Phase IV

October 14, 2013

Ms. Colleen Suyama  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

Dear Ms. Suyama:

**SUBJECT: EARLY CONSULTATION REQUEST FOR PROPOSED NORTH SHORE  
GREENWAY PHASE IV, PAIA, MAUI, HAWAII; DPW JOB NO. 12-35;  
TMK: (2) 3-8-001: 071 (POR.), (2) 3-8-001: (HANA HIGHWAY RIGHT-OF-WAY),  
(2) 2-5-005: 046 (POR.)**

The Department of Health (DOH), Environmental Planning Office (EPO), acknowledges receipt of your letter dated October 4, 2013. Thank you for allowing us to review and comment on the subject document. The document was routed to DOH's Maui District Health Office. They will provide specific comments to you if necessary. EPO recommends that you review the Standard Comments found on our website: <http://health.hawaii.gov/epo/home/landuse-planning-review-program/>. You are required to adhere to all Standard Comments specifically applicable to this application.

EPO appreciates your work to create healthy, active, and sustainable communities.

We wish to receive notice of the environmental assessment's availability when it is completed. We request a written response confirming receipt of this letter and any other letters you receive from DOH in regards to this submission. You may mail your response to: 919 Ala Moana Blvd., Ste. 312, Honolulu, Hawaii 96814. However, we would prefer an email submission to [epo@doh.hawaii.gov](mailto:epo@doh.hawaii.gov). We anticipate that our letter(s) and your response(s) will be included in the final document. If you have any questions, please contact me at (808) 586-4337.

Mahalo,

A handwritten signature in black ink, appearing to read "Laura Leialoha Phillips McIntyre".

Laura Leialoha Phillips McIntyre, AICP  
Manager, Environmental Planning Office



MICHAEL T. MUNEKIYO  
PRESIDENT

KARLYNN FUKUDA  
EXECUTIVE VICE PRESIDENT

GWEN OHASHI HIRAGA  
SENIOR VICE PRESIDENT

MITSURU "MIGH" HIRANO  
SENIOR VICE PRESIDENT

MARK ALEXANDER ROY  
VICE PRESIDENT

March 7, 2014

Ms. Laura Leialoha Phillips McIntyre, AICP  
Environmental Planning Office  
Department of Health  
State of Hawaii  
P.O. Box 3378  
Honolulu, Hawaii 96801

SUBJECT: Early Consultation Request for Proposed North Shore Greenway—  
Phase IV, Paia, Maui, Hawaii; DPW Job No. 12-35; TMK (2)3-8-  
001:071(por.), (2)3-8-001(Hana Highway Right-of-Way), and (2)2-  
5-005:046(por.) (13-191 Greenway Phase IV)

Dear Ms. McIntyre:

Thank you for your letter dated October 14, 2013, providing early consultation comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway—Phase IV project. On behalf of the County of Maui, Department of Public Works (DPW), as recommended, the DPW and design consultant will review the standard comments pertaining to land use and sustainable design to support healthy, active and sustainable communities. The DPW will comply with applicable comments and conditions.

MAUI

305 High St., Suite 104 Wailuku, Hawaii 96793

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Laura Leialoha Phillips McIntyre, AICP  
March 7, 2014  
Page 2

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Draft EA. In the meantime, if there are any questions or if additional information is needed, please feel free to contact me at (808) 244-2015.

Very truly yours,



Colleen Suyama, Senior Associate

CS:la

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.

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001 25 2013

NEH, ADERCROMBIE  
GOVERNOR OF HAWAII



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



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

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

October 25, 2013

Munekiyo & Hiraga, Inc.  
Attention: Ms. Colleen Suyama, Senior Associate  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

via email: [colleen@mhplanning.com](mailto:colleen@mhplanning.com)

Dear Ms. Suyama;

**SUBJECT:** Early Consultation Request for Proposed North Shore Greenway Phase IV, DPW  
Job No. 12-35

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

At this time, the DLNR has no comments to offer on the subject matter. If you have any questions, please feel free to call Lydia Morikawa at 587-0410. Thank you.

Sincerely,

Russell Y. Tsuji  
Land Administrator

cc: Central Files



OCT 28 2013

NEIL ABERCROMBIE  
GOVERNOR OF HAWAII



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



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

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

October 28, 2013

Munekiyo & Hiraga, Inc.  
Attention: Ms. Colleen Suyama, Senior Associate  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

via email: [colleen@mhplanning.com](mailto:colleen@mhplanning.com)

Dear Ms. Suyama;

**SUBJECT:** Early Consultation Request for Proposed North Shore Greenway Phase IV, DPW  
Job No. 12-35

Thank you for the opportunity to review and comment on the subject matter. In addition to the comments previously sent you on October 25, 2013, enclosed are comments from the Engineering Division on the subject matter. Should you have any questions, please feel free to call Lydia Morikawa at 587-0410. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Russell Y. Tsuji".

Russell Y. Tsuji  
Land Administrator

Enclosure(s)

cc: Central Files



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

October 9, 2013

MEMORANDUM

TO: FR:

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 - Maui District
- Historic Preservation

RECEIVED  
LAND DIVISION  
2013 OCT 25 PM 2:55  
DEPT. OF LAND &  
NATURAL RESOURCES  
STATE OF HAWAII

FROM: *FR*  
SUBJECT:

Russell Y. Tsuji, Land Administrator  
Early Consultation Request for Proposed North Shore Greenway Phase IV,  
DPW Job No. 12-35

LOCATION: Paia, Island of Maui; TMK: (2) 3-8-001 & 071 (por.), (2) 2-5-005:046 (por.)

APPLICANT: County of Maui, Department of Public Works

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 23, 2013.

If no response is received by this date, we will assume your agency has no comments. If you have any questions about this request, please contact Lydia Morikawa at 587-0410. Thank you.

Attachments

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

Signed:

Print Name:

Date:

*[Signature]*  
Cary S. Chang, Chief Engineer  
10/25/13

cc: Central Files

**DEPARTMENT OF LAND AND NATURAL RESOURCES  
ENGINEERING DIVISION**

**LD/LydiaMorikawa**  
**Ref.:NorthShoreGreenwayEarlyConsultation**  
**Maui: 611**

**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 project site, according to the Flood Insurance Rate Map (FIRM), is located in Zones X and AE Floodway (AEF). The National Flood Insurance Program does not regulate activities under Zone X, however, it does regulate developments AEF 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:

- ( ) Mr. Mario Siu Li at (808) 768-8098 and Ms. Ardis Shaw-Kim at (808) 768-8296 of the City and County of Honolulu, Department of Planning and Permitting.
- ( ) Mr. Frank DeMarco at (808) 961-8042 of the County of Hawaii, Department of Public Works.
- (X) Ms. Carolyn Cortez at (808) 270-7813 of the County of Maui, Department of Planning.
- ( ) Mr. Stanford Iwamoto at (808) 241-4884 of the County of Kauai, Department of Public Works.
  
- ( ) The applicant should include 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.
- (X) **Additional Comments: Because portion of this project is being conducted in a flood zone designated as AEF, strict adherence to the NFIP regulations, specifically 44CFR §60.3(d)(3), must be followed.**
- ( ) Other: \_\_\_\_\_

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

Signed:   
CARY S. CHANG, CHIEF ENGINEER

Date: 10/25/19 \_\_\_\_\_

NEIL ABERCROMBIE  
GOVERNOR OF HAWAII



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



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

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

November 14, 2013

Munekiyo & Hiraga, Inc.  
Attention: Ms. Colleen Suyama, Senior Associate  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

via email: [colleen@mhplanning.com](mailto:colleen@mhplanning.com)

Dear Ms. Suyama;

**SUBJECT: Early Consultation Request for Proposed North Shore Greenway Phase IV, DPW  
Job No. 12-35**

Thank you for the opportunity to review and comment on the subject matter. In addition to the comments previously sent you on October 25 and October 28, 2013, enclosed are comments from the Commission on Water Resources Management on the subject matter. Should you have any questions, please feel free to call Lydia Morikawa at 587-0410. Thank you.

Sincerely,

  
Russell Y. Tsuji  
Land Administrator

Enclosure(s)  
cc: Central Files

NEIL ABERCROMBIE  
GOVERNOR OF HAWAII



WILLIAM J. AILA, JR.  
CHAIRPERSON  
WILLIAM D. BALFOUR, JR.  
KAMANA BEAMER  
LORETTA J. FUDDY, A.C.S.W., M.P.H.  
MILTON D. PAVAO  
JONATHAN STARR  
TED YAMAMURA  
WILLIAM M. TAM  
DEPUTY DIRECTOR

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

November 5, 2013

RECEIVED  
LAND DIVISION  
2013 NOV 13 PM 1:44  
DEPT. OF LAND &  
NATURAL RESOURCES  
STATE OF HAWAII

TO: Russell Tsuji, Administrator  
Land Division  
FROM: William M. Tam, Deputy Director *WMT*  
Commission on Water Resource Management  
SUBJECT: Paia North Shore Greenway Early Consult for EA, Paia, Maui  
FILE NO.: N/A  
TMK NO.: (2) 3-8-001 & 071 (por), (2) 2-5-005:046 (por)

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/>.
- 5. We recommend the use of best management practices (BMP) for stormwater management to minimize the impact of the project to the existing area's hydrology while maintaining on-site infiltration and preventing polluted runoff from storm events. Stormwater management BMPs may earn credit toward LEED certification. More information on stormwater BMPs can be found at <http://hawaii.gov/dbedt/czm/initiative/lid.php>.
- 6. We recommend the use of alternative water sources, wherever practicable.
- 7. We recommend participating in the Hawaii Green Business Program, that assists and recognizes businesses that strive to operate in an environmentally and socially responsible manner. The program description can be found online at <http://energy.hawaii.gov/programs/achieving-efficiency/green-business-program>

- 8. We recommend adopting landscape irrigation conservation best management practices endorsed by the Landscape Industry Council of Hawaii. These practices can be found online at [http://landscapehawaii.org/library/documents/lich\\_irrigation\\_conservation\\_bmps.pdf](http://landscapehawaii.org/library/documents/lich_irrigation_conservation_bmps.pdf)
- 9. There may be the potential for ground or surface water degradation/contamination and recommend that approvals for this project be conditioned upon a review by the State Department of Health and the developer's acceptance of any resulting requirements related to water quality.

Permits required by CWRM:

Additional information and forms are available at [http://hawaii.gov/dlnr/cwrm/info\\_permits.htm](http://hawaii.gov/dlnr/cwrm/info_permits.htm).

- 10. The proposed water supply source for the project is located in a designated water management area, and a Water Use Permit is required prior to use of water. The Water Use Permit may be conditioned on the requirement to use dual line water supply systems for new industrial and commercial developments.
  - 11. A Well Construction Permit(s) is (are) required before any well construction work begins.
  - 12. A Pump Installation Permit(s) is (are) required before ground water is developed as a source of supply for the project.
  - 13. There is (are) well(s) located on or adjacent to this project. If wells are not planned to be used and will be affected by any new construction, they must be properly abandoned and sealed. A permit for well abandonment must be obtained.
  - 14. Ground water withdrawals from this project may affect streamflows, which may require an instream flow standard amendment.
  - 15. A Stream Channel Alteration Permit(s) is (are) required before any alteration(s) can be made to the bed and/or banks of a stream channel.
  - 16. A Stream Diversion Works Permit(s) is (are) required before any stream diversion works is (are) constructed or altered.
  - 17. A Petition to Amend the Interim Instream Flow Standard is required for any new or expanded diversion(s) of surface water.
  - 18. The planned source of water for this project has not been identified in this report. Therefore, we cannot determine what permits or petitions are required from our office, or whether there are potential impacts to water resources.
- OTHER:  
Unable to comment; what is "greenway"? Any water use or impact?

If there are any questions, please contact Charley Ice at 587-0218.

NEIL ABERCROMBIE  
GOVERNOR OF HAWAII



10/17/13

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



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

October 9, 2013

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 – Maui District
- Historic Preservation

2013 OCT 11 PM 9:58

FROM:

Russell Y. Tsuji, Land Administrator

SUBJECT:

Early Consultation Request for Proposed North Shore Greenway Phase IV, DPW Job No. 12-35

LOCATION:

Paia, Island of Maui; TMK: (2) 3-8-001 & 071 (por.), (2) 2-5-005:046 (por.)

APPLICANT:

County of Maui, Department of Public Works

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 23, 2013.

If no response is received by this date, we will assume your agency has no comments. If you have any questions about this request, please contact Lydia Morikawa at 587-0410. Thank you.

Attachments

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

Signed:

Print Name:

Date:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

cc: Central Files



MICHAEL T. MUNEKIYO  
PRESIDENT

KARLYNN FUKUDA  
EXECUTIVE VICE PRESIDENT

GWEN OHASHI HIRAGA  
SENIOR VICE PRESIDENT

MITSUBU "MICH" HIRANO  
SENIOR VICE PRESIDENT

MARK ALEXANDER ROY  
VICE PRESIDENT

March 7, 2014

Russell Y. Tsuji, Land Administrator  
Department of Land and Natural Resources  
State of Hawaii  
P.O. Box 621  
Honolulu, Hawaii 96809

SUBJECT: Early Consultation Request for Proposed North Shore Greenway—  
Phase IV, Paia, Maui, Hawaii; DPW Job No. 12-35; TMK (2)3-8-  
001:071(por.), (2)3-8-001(Hana Highway Right-of-Way), and (2)2-  
5-005:046(por.)

Dear Mr. Tsuji:

Thank you for your letters dated October 25 and 28, 2013 and November 14, 2013, providing early consultation comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway—Phase IV project. On behalf of the County of Maui, Department of Public Works (DPW), we acknowledge the following:

**Engineering Division**

1. The project site is located in Zones X and AE of the Flood Insurance Rate Map.
2. The project will comply with applicable provisions of the National Flood Insurance Program.

**Commission on Water Resources Management**

1. The project does not need to be incorporated into the County's Water Use and Development Plan since the pedestrian and bicycle path does not involve long-term use of water for irrigation purposes. Landscaping is limited to grass in exposed areas of the construction limits and once established, the grass will not require ongoing irrigation for its upkeep.

MAUI

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2. As recommended best management practices for stormwater management will be implemented to minimize impacts of the project.
3. Consideration will be given to using a water tank with reclaimed water from the County's Wailuku-Kahului Wastewater Reclamation Facility to temporarily irrigate the grass.
4. As previously noted, landscaping is limited to grass in exposed areas of the construction limits.
5. As previously noted, there will be no long-term use of water for irrigation purposes.
6. The term "greenway" is used to describe the pedestrian/bike path separated from the roadway pavement by a grassed area involving no long-term use of water for irrigation purposes.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your comment letter will be included in the Draft EA. In the meantime, if there are any questions or if additional information is needed, please feel free to contact me at (808) 244-2015.

Very truly yours,



Colleen Suyama, Senior Associate

CS:la

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.

K:\DATA\RTTanaka\NS GreenwayPhi\Recl\Response Letters\DLNR.ltr.docx

OCT 23 2013

NEIL ABERCROMBIE  
GOVERNOR



GENEVIEVE SALMONSON  
INTERIM DIRECTOR

**STATE OF HAWAII  
OFFICE OF ENVIRONMENTAL QUALITY CONTROL**

**Department of Health**  
235 South Beretania Street, Suite 702  
Honolulu, Hawaii 96813  
Telephone (808) 586-4185  
Facsimile (808) 586-4186  
Email: oeqchawaii@doh.hawaii.gov

October 21, 2013

Colleen Suyama, Senior Associate  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

**SUBJECT:** Early consultation Request for Proposed North Shore Greenway  
Phase IV, Paia, Maui, Hawaii; DPW Job No. 12-35; TMK (2)3-8-001:071  
(por.), (2)3-8-001:(Hana Highway Right-of-Way), (2)2-5-005:045 (por.)

Dear Ms. Suyama:

The Office of Environmental Quality Control is in receipt of your October 4, 2013 letter about the subject project, requesting comments in accordance with Chapter 11-200, Hawaii Administrative Rules (HAR).

We understand that the County of Maui, Department of Public Works (DPW) proposes to construct Phase IV of the North Shore Greenway, a seven-mile long path for both pedestrian and bike use that stretches from Paia to Kahului. The use of county funds and lands will require the preparation of an environmental assessment, pursuant to Chapter 343, Hawaii Revised Statutes.

According to your letter, the North Shore Greenway is seven miles long. However, a review of Figure 1 and Figure 2, attached to your letter, shows that the project area is less than a mile in length.

OEQC recommends that whatever option DPW uses to meet Chapter 343, Hawaii Revised Statutes (HRS), all seven miles of the North Shore Greenway must be considered as one project.

Section 11-200-7, HAR, Multiple or Phased Applicant or Agency Action states that, "A group of actions proposed by an agency or an applicant shall be treated as a single action when:

- A. The component actions are phases or increments of a larger total undertaking;
- B. An individual project is a necessary precedent for a larger project;
- C. An individual project represents a commitment to a larger project; or
- D. The actions in question are essentially identical and a single statement will adequately address the impacts of each individual action and those of the group of actions as a whole."

Clearly, the project limits identified and shown on Figures 1 and 2 is only a part of the seven-mile pedestrian and bike path. Therefore, please discuss all seven miles of the path instead of just a section of the path in the environmental assessment. If sections of the path have already been completed, include those in the EA and discuss how those path sections (if any) cleared Chapter 343 requirements.

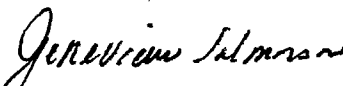
There are three options DPW can take to fulfill Chapter 343 requirements:

- 1. Exemption Declaration;
- 2. Finding of No Significant Impact (FONSI) supported by a Final Environmental Assessment (FEA); or
- 3. Mayoral acceptance of a Final Environmental Impact Statement.

Please discuss all approvals and permits the project requires, as well as a discussion of impacts and mitigation, besides the other content requirements in the EA.

Thank you very much for the opportunity to provide comments to subject project. Feel free to contact Herman Tuiolosega at (808) 586-4185, if you have further questions.

Sincerely,

  
GENEVIEVE SALMONSON  
Interim Director

ALAN M. ARAKAWA  
Mayor

DAVID C. GOODE  
Director

ROWENA M. DAGDAG-ANDAYA  
Deputy Director

Telephone: (808) 270-7745  
Fax: (808) 270-7975



COUNTY OF MAUI  
**DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION**

200 SOUTH HIGH STREET  
WAILUKU, MAUI, HAWAII 96793

GLEN A. UENO, P.E., P.L.S.  
Development Services Administration

CARY YAMASHITA, P.E.  
Engineering Division

BRIAN HASHIRO, P.E.  
Highways Division

March 7, 2014

Jessica Wooley, Acting Director  
Office of Environmental Quality Control  
Department of Health  
State of Hawaii  
235 South Beretania Street, Suite 702  
Honolulu, Hawaii 96813

**SUBJECT:** Early Consultation Request for Proposed North Shore Greenway–Phase IV, Paia, Maui, Hawaii; DPW Job No. 12-35; TMK (2)3-8-001:071(por.), (2)3-8-001(Hana Highway Right-of-Way), and (2)2-5-005:046(por.)

Dear Ms. Wooley:

Thank you for your letter dated October 21, 2013, providing early consultation comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway–Phase IV project.

We note your comment relative to the relationship of the North Shore Greenway-Phase IV project to the overall North Shore Greenway project. The Phase IV component of the North Shore Greenway is the final phase of construction of the overall North Shore Greenway. The initial phases of the project were constructed and completed over a number of years, between 1996 and 2010. Those previous phases were implemented incrementally, based on the availability of County funding. In this regard, while there was no guarantee that the project would be completed as originally conceived, as funds became available over the 14 year timeframe, our department undertook design and construction to extend the length of the Greenway.

Each phase was evaluated with respect to its scope and its applicability to Chapter 343, Hawaii Revised Statutes (HRS). For example, the last segment (Phase III) of the North Shore Greenway, which traverses through H.A. Baldwin Park, was constructed in 2010 when funding became available. A Finding of No Significant Impact (FONSI) was determined for the project on August 2, 2007.

We hope that the implementation circumstances of the project clarify the focus of the subject EA to the Phase IV component only.

Jessica Wooley, Acting Director  
March 7, 2014  
Page 2

Thank you for your participation in the Chapter 343, HRS review process. A copy of your comment letter will be included in the Draft EA. In the meantime, if there are any questions or if additional information is needed, please feel free to contact our consultant, Colleen Suyama of Munekiyo & Hiraga, Inc., at (808) 244-2015.

Sincerely,

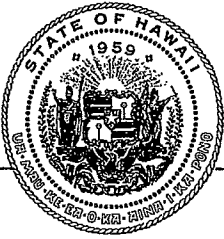


DAVID C. GOODE  
Director of Public Works

cc: Colleen Suyama, Munekiyo & Hiraga, Inc.  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.  
Kurt Watanabe, Engineering Division

DG/KW:gq(ED14-0401)

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## OFFICE OF PLANNING STATE OF HAWAII

NEIL ABERCROMBIE  
GOVERNOR

JESSE K. SOUKI  
DIRECTOR  
OFFICE OF PLANNING

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

Telephone: (808) 587-2846  
Fax: (808) 587-2824  
Web: <http://planning.hawaii.gov/>

Ref. No. P-14147

October 23, 2013

Ms. Colleen Suyama  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

Dear Ms. Suyama:

**Subject:** Early Consultation Request for Proposed North Shore Greenway Phase IV, Paia, Maui, TMK: (2) 3-8-001:071 (por), (2) 3-8-001 (Hana Highway Right-of-Way), and (2) 2-5-005:046 (por)

Thank you for the opportunity to provide comments on the North Shore Greenway pedestrian and bike path project being proposed by the County of Maui Department of Public Works.

We have reviewed the documents submitted to our office by letter dated October 4, 2013, and have the following comments to offer.

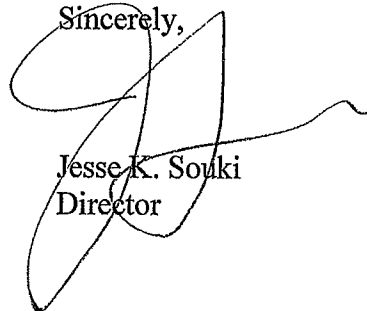
1. The entire state is defined to be within the Coastal Zone Management Area, see Hawaii Revised Statutes (HRS) §205A-1 (definition of "coastal zone management area"). The Draft Environmental Assessment (Draft EA) should include a discussion of the proposed project's ability to meet the objectives and policies set forth in HRS §205A-2.
2. A portion of the proposed project may lie within the Special Management Area (SMA) delineated by the County of Maui. Typically the planning departments of the various county administrations are charged with assessing the requirements for SMA use and Shoreline Setback Variances. Please consult with the County of Maui Planning Department on where your project lies within the designated SMA, and whether an SMA permit is required for this project.
3. CZM federal consistency review by the Hawaii CZM Program may be required if a Department of the Army Permit from the U.S. Army Corps of Engineers is required for any portion of the project.

Ms. Colleen Suyama  
Page 2  
October 23, 2013

4. The construction project may have nonpoint pollution impacts on coastal waters. Please review the Hawaii Watershed Guidance, which provides a summary and links to management measures that may be implemented to minimize coastal nonpoint pollution impact. Specifically, please examine the section on “Urban Areas” (page 109). The *Watershed Guidance* can be viewed or downloaded from the Office of Planning website at <http://files.hawaii.gov/dbedt/op/czm/initiative/nonpoint/HIWatershedGuidanceFinal.pdf>.
5. The Draft EA should include the Coastal Zone Management Act, HRS Chapter 205A, in the list of “Relationship to Land Use Plans, Policies, and Controls.”
6. The Draft EA would benefit from the depiction of an area map that displays the entire length of the planned pedestrian/bike path, including implementation schedule and any associated facilities.

If you have any questions regarding this comment letter, please contact Josh Hekekoa of our Hawaii CZM Program at (808) 587-2845.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jesse K. Souki', with a long horizontal flourish extending to the right.

Jesse K. Souki  
Director



MICHAEL T. MUNEKIYO  
PRESIDENT

KARLYNN FUKUDA  
EXECUTIVE VICE PRESIDENT

GWEN OHASHI HIRAGA  
SENIOR VICE PRESIDENT

MITSURU "MICH" HIRANO  
SENIOR VICE PRESIDENT

MARK ALEXANDER ROY  
VICE PRESIDENT

March 7, 2014

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

**SUBJECT:** Early Consultation Request for Proposed North Shore Greenway—Phase IV, Paia, Maui, Hawaii; DPW Job No. 12-35; TMK (2)3-8-001:071(por.), (2)3-8-001(Hana Highway Right-of-Way), and (2)2-5-005:046(por.) (P-14147)

Dear Mr. Souki:

Thank you for your letter dated October 23, 2013, providing early consultation comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway—Phase IV project. On behalf of the County of Maui, Department of Public Works (DPW), we offer the following information in response to your comments:

1. We acknowledge that the entire state is defined to be within the Coastal Zone Management (CZM) Area. Included in the Draft EA will be a discussion of the proposed project's relationship to the objectives and policies set forth in Hawaii Revised Statutes (HRS), Chapter 205A-2.
2. We understand that a portion of the proposed project lies within the Special Management Area (SMA) delineated by the County of Maui. A SMA permit application will be prepared for filing with the Planning Department.
3. We acknowledge that a CZM federal consistency review by the Hawaii CZM Program may be required if a Department of the Army Permit from the U.S. Army Corp of Engineers is required. Coordination with the Department of the Army has been initiated.
4. We acknowledge that the construction project may have nonpoint pollution impacts on coastal waters. We have forwarded your comments to the project's

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MAHI Planning & Consulting, Inc.



Jesse K. Souki, Director  
March 7, 2014  
Page 2

civil engineer for consideration of the Hawaii Watershed Guidance management measures.

5. The Draft EA will include the CZM Act, HRS Chapter 205A, in the list of "Relationship to Land Use Plans, Policies, and Controls."
6. The Draft EA will include an area map that displays the entire length of the planned pedestrian/bike path and any associated facilities. This is the last phase of the North Shore Greenway.

Again, thank you for your participation in the Chapter 343, HRS review process. A copy of your comment letter will be included in the Draft EA. In the meantime, if there are any questions or if additional information is needed, please feel free to contact me at (808) 244-2015.

Very truly yours,



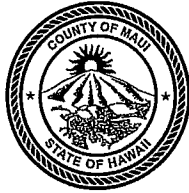
Colleen Suyama, Senior Associate

CS:la

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.

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ALAN M. ARAKAWA  
MAYOR



OCT 15 2013  
JEFFREY A. MURRAY  
CHIEF

ROBERT M. SHIMADA  
DEPUTY CHIEF

**COUNTY OF MAUI**  
DEPARTMENT OF FIRE AND PUBLIC SAFETY  
FIRE PREVENTION BUREAU

313 MANEA PLACE + WAILUKU, HAWAII 96793  
(808) 244-9161 + FAX (808) 244-1363

October 10, 2013

To : Munekiyo & Hiraga, Inc.  
Attention: Colleen Suyama  
305 High Street, Suite 104  
Wailuku, HI 96793

Re : **Proposed North Shore Greenway Phase IV**  
**DPW Job No. 12-35**  
**Paia, HI**  
**(2) 3-8-001: 071 (por), (2) 3-8-001: (Hana Hwy. Right-of-Way), (2) 2-5-005: 046 (por)**

Dear Colleen:

Thank for the allowing the Department of Fire and Public Safety the opportunity to comment on the referenced subject. At this time, our office does not have any comments.

If there are any questions or comments, please feel free to contact me at 244-9161 ext. 23.

Sincerely,

A handwritten signature in black ink, appearing to read "Paul Haake".

Paul Haake  
Captain, Fire Prevention Bureau



MICHAEL T. MUNEKIYO  
PRESIDENT

KARLYNN FUKUDA  
EXECUTIVE VICE PRESIDENT

GWEN OHASHI HIRAGA  
SENIOR VICE PRESIDENT

MITSURU "MICH" HIRANO  
SENIOR VICE PRESIDENT

MARK ALEXANDER ROY  
VICE PRESIDENT

March 7, 2014

Captain Paul Haake  
Fire Prevention Bureau  
Department of Fire and Public Safety  
County of Maui  
313 Manea Place  
Wailuku, Hawaii 96793

**SUBJECT:** Early Consultation Request for Proposed North Shore Greenway–  
Phase IV, Paia, Maui, Hawaii; DPW Job No. 12-35; TMK (2)3-8-  
001:071(por.), (2)3-8-001(Hana Highway Right-of-Way), and (2)2-  
5-005:046(por.)

Dear Captain Haake:

Thank you for your letter dated October 10, 2013, providing early consultation comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway–Phase IV project. On behalf of the County of Maui, Department of Public Works (DPW), we acknowledge that the Department of Fire and Public Safety Fire Prevention Bureau does not have any comments at this time.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Draft EA. In the meantime, if there are any questions or if additional information is needed, please feel free to contact me at 244-2015.

Very truly yours,

Colleen Suyama, Senior Associate

CS:la

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.

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DEPARTMENT OF  
**HOUSING AND HUMAN CONCERNS**  
HOUSING DIVISION  
COUNTY OF MAUI

ALAN M. ARAKAWA  
Mayor  
JO-ANN T. RIDAO  
Director  
JAN SHISHIDO  
Deputy Director

35 LUNALILO STREET, SUITE 102 • WAILUKU, HAWAII 96793 • PHONE (808) 270-7351 • FAX (808) 270-6284

October 18, 2013

Mr. Michael Munekiyo, AICP, Principal  
Munekiyo & Hiraga, Inc.  
305 High Street  
Wailuku, HI 96793

Dear Mr. Munekiyo:

**Subject: Early Consultation Request for Proposed North Shore  
Greenway Phase IV, Paia, Maui, Hawaii; DPW Job 12-35; TMK  
(2) 3-8-001: 071 (por.), (2) 3-8-001: (Hana Highway Right-of-  
Way), (2) 2-5-005: 046 (por.)**

The Housing Department has reviewed the request for Early Consultation for the above subject project. Based on our review, we have determined that the subject project is not subject to Chapter 2.96, Maui County Code. At the present time, the Department has no additional comments to offer.

Please call me at 270-7355 if you have any questions.

Sincerely,

WAYDE T. OSHIRO  
Housing Administrator

cc: Director of Housing and Human Concerns



MICHAEL T. MUNEKIYO  
PRESIDENT

KARLYNN FUKUDA  
EXECUTIVE VICE PRESIDENT

GWEN OHASHI HIRAGA  
SENIOR VICE PRESIDENT

MITSURU "MICH" HIRANO  
SENIOR VICE PRESIDENT

MARK ALEXANDER ROY  
VICE PRESIDENT

March 7, 2014

Wayde T. Oshiro, Housing Administrator  
Department of Housing and  
Human Concerns  
County of Maui  
35 Lunalilo Street, Suite 102  
Wailuku, Hawaii 96793

SUBJECT: Early Consultation Request for Proposed North Shore Greenway--  
Phase IV, Paia, Maui, Hawaii; DPW Job No. 12-35; TMK (2)3-8-  
001:071(por.), (2)3-8-001(Hana Highway Right-of-Way), and (2)2-  
5-005:046(por.)

Dear Mr. Oshiro:

Thank you for your letter dated October 18, 2013, providing early consultation comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway--Phase IV project. On behalf of the County of Maui, Department of Public Works (DPW), we acknowledge that the Department of Housing and Human Concerns has determined that the project is not subject to Chapter 2.96, Maui County Code and has no additional comments at this time.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Draft EA. In the meantime, if there are any questions or if additional information is needed, please feel free to contact me at 244-2015.

Very truly yours,

Colleen Suyama, Senior Associate

CS:la

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.

MAUI K:\DATA\RTTanaka\NS Greenway\Phi\1\1\Response Letters\DHHC.ltr.docx

305 High St., Suite 104 Wailuku, Hawaii 96793

PH: (808)244-2015 FAX: (808)244-8729

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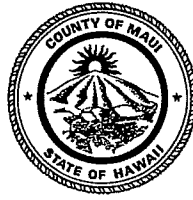
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OCT 23 2013

ALAN M. ARAKAWA  
Mayor



GLENN T. CORREA  
Director

BRIANNE SAVAGE  
Deputy Director

(808) 270-7230  
FAX (808) 270-7934

**DEPARTMENT OF PARKS & RECREATION**

700 Hali'a Nakoa Street, Unit 2, Wailuku, Hawaii 96793

October 17, 2013

Colleen Suyama, Senior Associate  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, HI 96793

Dear Ms. Suyama:

**SUBJECT: Early Consultation Request for Proposed North Shore Greenway Phase IV, Paia, Maui, Hawaii; DPW Job No. 12-35; TMK (2)3-8-001:071 (por), (2)3-8-001 (Hana Highway Right-of -Way), (2)2-5-005:046 (por)**

Thank you for the opportunity to comment on Early Consultation for the subject development. We have no objections or comment to offer at this time.

Should you have any questions or need of additional information, please feel free to contact me, or Steve Grogan, Capital Improvements Project Coordinator, at 270-6158, or [Stephen.Grogan@co.maui.hi.us](mailto:Stephen.Grogan@co.maui.hi.us).

Sincerely,

<sup>FOR</sup> GLENN T. CORREA  
Director of Parks & Recreation

c: Robert Halvorson, Chief of Planning & Development

GTC:RH:sg



MICHAEL T. MUNEKIYO  
PRESIDENT

KARLYNN FUKUDA  
EXECUTIVE VICE PRESIDENT

GWEN OHASHI HIRAGA  
SENIOR VICE PRESIDENT

MITSURU "MICH" HIRANO  
SENIOR VICE PRESIDENT

MARK ALEXANDER ROY  
VICE PRESIDENT

March 7, 2014

Glenn T. Correa, Director  
Department of Parks & Recreation  
County of Maui  
700 Hali'a Nakoa Street, Unit 2  
Wailuku, Hawaii 96793

**SUBJECT:** Early Consultation Request for Proposed North Shore Greenway--  
Phase IV, Paia, Maui, Hawaii; DPW Job No. 12-35; TMK (2)3-8-  
001:071(por.), (2)3-8-001(Hana Highway Right-of-Way), and (2)2-  
5-005:046(por.)

Dear Mr. Correa:

Thank you for your letter dated October 17, 2013, providing early consultation comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway--Phase IV project. On behalf of the County of Maui, Department of Public Works (DPW), we acknowledge that you have no objections or comments to offer at this time.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your comment letter will be included in the Draft EA. In the meantime, if there are any questions or if additional information is needed, please feel free to contact me at 244-2015.

Very truly yours,

Colleen Suyama, Senior Associate

CS:la

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.

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305 High St., Suite 104 Wailuku, Hawaii 96793

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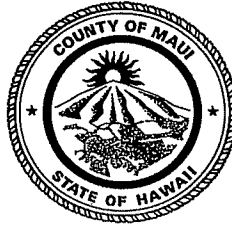
105

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OCT 25 2013

TRACY TAKAMINE, P.E.  
Solid Waste Division  
ERIC NAKAGAWA, P.E.  
Wastewater Reclamation Division

ALAN M. ARAKAWA  
Mayor  
KYLE K. GINOZA, P.E.  
Director  
MICHAEL M. MIYAMOTO  
Deputy Director



**COUNTY OF MAUI  
DEPARTMENT OF  
ENVIRONMENTAL MANAGEMENT**  
2200 MAIN STREET, SUITE 100  
WAILUKU, MAUI, HAWAII 96793

October 24, 2013

Ms. Colleen Suyama  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

Dear Ms. Suyama:

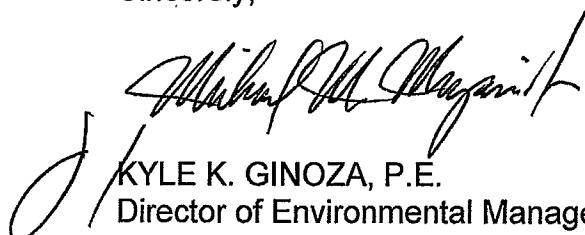
**SUBJECT: NORTH SHORE GREENWAY PHASE IV (DPW JOB NO. 12-35)  
EARLY CONSULTATION  
TMK (2) 3-8-001:071 (POR.), 3-8-001 (HANA HIGHWAY RIGHT-  
OF-WAY), 2-5-005:046 (POR.), PAIA**

We reviewed the subject application and have the following comments:

1. Solid Waste Division comments:
  - a. None.
2. Wastewater Reclamation Division (WWRD) comments:
  - a. Plans shall show the County's existing 10" force main along Hana Highway.

If you have any questions regarding this memorandum, please contact Michael Miyamoto at 270-8230.

Sincerely,

  
KYLE K. GINOZA, P.E.  
Director of Environmental Management





MICHAEL T. MUNEKIYO  
PRESIDENT

KARLYNN FUKUDA  
EXECUTIVE VICE PRESIDENT

GWEN OHASHI HIRAGA  
SENIOR VICE PRESIDENT

MITSURU "MICH" HIRANO  
SENIOR VICE PRESIDENT

MARK ALEXANDER ROY  
VICE PRESIDENT

March 7, 2014

Kyle Ginoza, Director  
Department of Environmental Management  
County of Maui  
2200 Main Street, Suite 100  
Wailuku, Hawaii 96793

**SUBJECT:** Early Consultation Request for Proposed North Shore Greenway-  
Phase IV, Paia, Maui, Hawaii; DPW Job No. 12-35; TMK (2)3-8-  
001:071(por.), (2)3-8-001(Hana Highway Right-of-Way), and (2)2-  
5-005:046(por.)

Dear Mr. Ginoza:

Thank you for your letter dated October 24, 2013, providing early consultation comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway-Phase IV project. On behalf of the County of Maui, Department of Public Works (DPW), we offer the following information in response to your comment:

1. Your letter has been forwarded to the DPW and engineering consultant to ensure the project plans identify the County's existing ten (10) inch force main along Hana Highway. Review of the final construction documents will be coordinated with the Department of Environmental Management.

MAUI

305 High St., Suite 104 Wailuku, Hawaii 96793

PH: (808)244-2015 FAX: (808)244-8729

HAULI

735 Bishop St., Suite 238 Honolulu, Hawaii 96813 | PH: (808)983-1233

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management

Kyle Ginoza, Director  
March 7, 2014  
Page 2

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your comment letter will be included in the Draft EA. In the meantime, if there are any questions or if additional information is needed, please feel free to contact me at 244-2015.

Very truly yours,



Colleen Suyama, Senior Associate

CS:la

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.

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NOV 12 2013

ALAN M. ARAKAWA  
Mayor



JO ANNE JOHNSON-WINER  
Director

MARC I. TAKAMORI  
Deputy Director

Telephone (808) 270-7511

## DEPARTMENT OF TRANSPORTATION

COUNTY OF MAUI  
200 South High Street  
Wailuku, Hawaii, USA 96793-2155

October 30, 2013

Ms. Colleen Suyama  
Munekiyo & Hiraga Inc.  
305 High Street, Suite 104  
Wailuku, Maui, Hawaii 96793

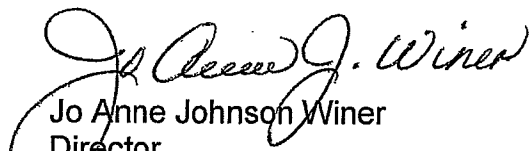
Subject: Proposed North Shore Greenway Phase IV, Paia, Maui

Dear Ms. Suyama,

Thank you for the opportunity to comment on this project. We have no comments to make at this time.

Please feel free to contact me if you have any questions.

Sincerely,

  
Jo Anne Johnson Winer  
Director



MICHAEL T. MUNEKIYODA  
PRESIDENT

KARLYNN FUKUDA  
EXECUTIVE VICE PRESIDENT

GWEN HASHI HIRAGA  
SENIOR VICE PRESIDENT

MITSURU "MICH" HIRANO  
SENIOR VICE PRESIDENT

MARK ALEXANDER ROY  
VICE PRESIDENT

March 7, 2014

Jo Anne Johnson Winer, Director  
Department of Transportation  
County of Maui  
200 S. High Street  
Wailuku, Hawaii 96793

**SUBJECT:** Early Consultation Request for Proposed North Shore Greenway--  
Phase IV, Paia, Maui, Hawaii; DPW Job No. 12-35; TMK (2)3-8-  
001:071(por.), (2)3-8-001(Hana Highway Right-of-Way), and (2)2-  
5-005:046(por.)

Dear Ms. Winer:

Thank you for your letter, dated October 30, 2013, providing early consultation comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway--Phase IV. On behalf of the County of Maui, Department of Public Works (DPW), we acknowledge that the Department of Transportation has no comments at this time.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Draft EA. In the meantime, if there are any questions or if additional information is needed, please feel free to contact me at 244-2015.

Very truly yours,

Colleen Suyama, Senior Associate

CS:la

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.

K:\DATA\RTTanaka\NS Greenway\Phil\vecl\Response Letters\MDOT.ltr.docx

MAUI

305 High St., Suite 104 Wailuku, Hawaii 96793

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OCT 30 2013

ALAN M. ARAKAWA  
Mayor



DAVID TAYLOR, P.E.  
Director

PAUL J. MEYER  
Deputy Director

**DEPARTMENT OF WATER SUPPLY**  
**COUNTY OF MAUI**  
200 SOUTH HIGH STREET  
WAILUKU, MAUI, HAWAII 96793-2155  
www.mauewater.org

October 25, 2013

Ms. Colleen Suyama, Senior Associate  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, HI 96793

Re: Early Consultation Request for Proposed North Shore Greenway Phase IV, Paia, Maui.  
DPW Job No. 12-35; TMK 3-8-001:071 (por.), 3-8-001: (Hana Highway Right-of-Way), 2-5-005:046 (por.)

Dear Ms. Suyama:

Thank you for the consulting with the Department of Water Supply in preparation of this Environmental Assessment.

A DWS 8-inch cast iron waterline and a 12-inch ductile iron waterline runs along the North side of Hana Highway from Ulupua Place to the Country Club booster pumps. The 8-inch waterline runs along the rest of the project area to Paia town. Construction plans need to be reviewed by the DWS engineering division. Water valve covers must be lifted to match the finished grade of the roadway.

For questions on construction plans, please contact our Engineering Division at (808) 270-7835.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Taylor".

David Taylor, Director  
emb

cc: engineering

*"By Water All Things Find Life"*





MICHAEL T. MUNEKIYO  
PRESIDENT

KARLYNN FUKUDA  
EXECUTIVE VICE PRESIDENT

GWEN OHASHI HIRAGA  
SENIOR VICE PRESIDENT

MITSUBU "MICH" HIRANO  
SENIOR VICE PRESIDENT

MARK ALEXANDER ROY  
VICE PRESIDENT

March 7, 2014

David Taylor, Director  
Department of Water Supply  
County of Maui  
2200 Main Street  
Wailuku, Hawaii 96793

SUBJECT: Early Consultation Request for Proposed North Shore Greenway—  
Phase IV, Paia, Maui, Hawaii; DPW Job No. 12-35; TMK (2)3-8-  
001:071(por.), (2)3-8-001(Hana Highway Right-of-Way), and (2)2-  
5-005:046(por.)

Dear Mr. Taylor:

Thank you for your letter dated October 25, 2013, providing early consultation comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway—Phase IV project. On behalf of the County of Maui, Department of Public Works (DPW), we offer the following information in response to your comments:

1. Your comment has been forwarded to the DPW and engineering consultant to ensure the project plans identify the three (3) Department of Water Supply (DWS) waterlines that run along the project alignment. As required, water valve covers will be lifted to match the finished grade of the roadway. We acknowledge that the project plans will need to be reviewed by the DWS Engineering Division.

David Taylor, Director  
March 7, 2014  
Page 2

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your comment letter will be included in the Draft EA. In the meantime, if there are any questions or if additional information is needed, please feel free to contact me at 244-2015.

Very truly yours,




Colleen Suyama, Senior Associate

CS:la

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.

K:\DATA\RTTanaka\NS GreenwayPH\MeclResponse Letters\DWS.ltr.docx

OCT 16 2013

Hawaiian Telcom 

October 9, 2013

Munekiyo & Hiraga, Inc.  
305 High St., Suite 104  
Wailuku, HI 96793

Attention: Colleen Suyama

Subject: Proposed North Shore Greenway, Phase IV, Paia  
DPW Job No. 12-35

Dear Colleen,

Thank you for allowing us to review and comment on the subject project. Your plans have been received and put on file.

Hawaiian Telcom, Inc. has no comment, nor do we require any additional information at this time.

Should you require further assistance, please call me at 242-5258.

Sincerely,



Sheri Ann Tihada  
OSP Engineer

cc: Gerry Sagucio, Section Manager

BICS File No. 1310-037 (3030)





MICHAEL T. MUNEKIYO  
PRESIDENT

KARLYNN FUKUDA  
EXECUTIVE VICE PRESIDENT

EWEN OHASHI HIRAGA  
SENIOR VICE PRESIDENT

MITSURU "MICH" HIRANO  
SENIOR VICE PRESIDENT

MARK ALEXANDER ROY  
VICE PRESIDENT

March 7, 2014

Sheri Ann Tihada, OSP Engineer  
Hawaiian Telcom, Inc.  
60 S. Church Street  
Wailuku, Hawaii 96793

**SUBJECT:** Early Consultation Request for Proposed North Shore Greenway—  
Phase IV, Paia, Maui, Hawaii; DPW Job No. 12-35; TMK (2)3-8-  
001:071(por.), (2)3-8-001(Hana Highway Right-of-Way), and (2)2-  
5-005:046(por.)

Dear Ms. Tihada:

Thank you for your letter dated October 9, 2013, providing early consultation comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway—Phase IV project. On behalf of the County of Maui, Department of Public Works (DPW), we acknowledge that Hawaiian Telcom, Inc. does not have any comments at this time.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Draft EA. In the meantime, if there are any questions or if additional information is needed, please feel free to contact me at 244-2015.

Very truly yours,

Colleen Suyama, Senior Associate

CS:la

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.

K:\DATA\RTTanaka\NS Greenway\PHIVec\Response Letters\HawaiianTelcom.ltr.docx

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**X. PARTIES CONSULTED  
DURING THE 30-DAY  
COMMENT PERIOD OF THE  
DRAFT ENVIRONMENTAL  
ASSESSMENT; LETTERS  
RECEIVED AND REPOSSES  
TO SUBSTANTIVE  
COMMENTS**

# **X. PARTIES CONSULTED DURING THE 30-DAY COMMENT PERIOD OF THE DRAFT ENVIRONMENTAL ASSESSMENT; LETTERS RECEIVED AND REPOSSES TO SUBSTANTIVE COMMENTS**

List of agencies/organizations consulted during the 30-day comment period of the Draft Environmental Assessment. Comment letters received, as well as responses to substantive comments, are included herein.

1. Ranae Ganske-Cerizo, Soil Conservationist  
Natural Resources Conservation Service  
U.S. Department of Agriculture  
77 Hookele Street, Suite 202  
Kahului, Hawaii 96732
2. George Young, Chief, Regulatory Branch  
U.S. Department of the Army  
U.S. Army Engineer District, Honolulu  
Regulatory Branch, Building 230  
Fort Shafter, Hawaii 96858-5440
3. Loyal A. Mehrhoff, Field Supervisor  
U. S. Fish and Wildlife Service  
300 Ala Moana Blvd., Rm. 3-122  
Box 50088  
Honolulu, Hawaii 96813
4. Dean H. Seki, Comptroller  
Department of Accounting and General Services  
1151 Punchbowl Street, #426  
Honolulu, Hawaii 96813
5. Scott Enright, Chair  
Department of Agriculture  
1428 South King Street  
Honolulu, Hawaii 96814-2512
6. Richard C. Lim, Director  
State of Hawaii  
Department of Business, Economic Development  
& Tourism  
P.O. Box 2359  
Honolulu, Hawaii 96804
7. Jobie Masagatani, Director  
Hawaiian Home Lands Commission  
P.O. Box 1879  
Honolulu, Hawaii 96805
8. State of Hawaii  
Department of Health  
919 Ala Moana Blvd., Room 300  
Honolulu, Hawaii 96814
9. Alec Wong, P.E., Chief  
Clean Water Branch  
State of Hawaii  
Department of Health  
919 Ala Moana Blvd., Room 300  
Honolulu, Hawaii 96814
10. Patti Kitkowski, District Environmental  
Health Program Chief  
State of Hawaii  
Department of Health  
Maui Sanitation Branch  
54 South High Street, Room 300  
Wailuku, Hawaii 96793
11. Laura McIntyre, AICP, Office Manager  
Environmental Planning Office  
Department of Health  
919 Ala Moana Blvd., Suite 312  
Honolulu, Hawaii 96814
12. Lene Ichinotsubo, Environmental  
Management Division  
State of Hawaii  
Department of Health  
919 Ala Moana Blvd., Room 212  
Honolulu, Hawaii 96814
13. William J. Aila, Jr., Chairperson  
State of Hawaii  
Department of Land and Natural Resources  
P. O. Box 621  
Honolulu, Hawaii 96809

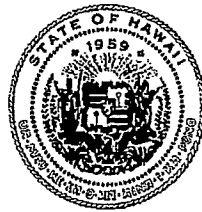
14. Alan Downer, Administrator  
State of Hawaii  
Department of Land and Natural Resources  
State Historic Preservation Division  
601 Kamokila Blvd., Room 555  
Kapolei, Hawaii 96707
15. Morgan Davis, Maui Archaeologist  
State of Hawaii  
Department of Land and Natural Resources  
State Historic Preservation Division  
130 Mahalani Street  
Wailuku, Hawaii 96793
16. Glenn Okimoto, Director  
State of Hawaii  
Department of Transportation  
869 Punchbowl Street  
Honolulu, Hawaii 96813
- cc: Ferdinand Cajigal
17. Major General Darryll Wong, Director  
Hawaii State Civil Defense  
3949 Diamond Head Road  
Honolulu, Hawaii 96813-4495
18. Dr. Kamana`opono Crabbe, Chief Executive Officer  
Office of Hawaiian Affairs  
737 Iwilei Road, Suite 200  
Honolulu, Hawaii 96817
19. Director  
State of Hawaii  
Office of Planning  
P. O. Box 2359  
Honolulu, Hawaii 96804
20. University of Hawaii at Manoa  
Environmental Center  
2550 Campus Road, Crawford 317  
Honolulu, Hawaii 96822
21. Alan Arakawa, Mayor  
County of Maui  
200 South High Street  
Wailuku, Hawaii 96793
22. Teena Rasmussen, Coordinator  
County of Maui  
Office of Economic Development  
2200 Main Street, Suite 305  
Wailuku, Hawaii 96793
23. Anna Foust, Management Officer  
Maui Civil Defense Agency  
200 South High Street  
Wailuku, Hawaii 96793
24. Jeffrey A. Murray, Fire Chief  
County of Maui  
Department of Fire and Public Safety  
200 Dairy Road  
Kahului, Hawaii 96732
25. Glenn Correa, Director  
County of Maui  
Department of Parks and Recreation  
700 Halia Nakoa Street, Unit 2  
Wailuku, Hawaii 96793
26. William Spence, Director  
County of Maui  
Department of Planning  
2200 Main Street, Suite 315  
Wailuku, Hawaii 96793
27. Gary Yabuta, Chief  
County of Maui  
Police Department  
55 Mahalani Street  
Wailuku, Hawaii 96793
28. Kyle Ginoza, Director  
County of Maui  
Department of Environmental Management  
One Main Plaza  
2200 Main Street, Suite 100  
Wailuku, Hawaii 96793
29. Jo Anne Johnson Winer, Director  
County of Maui  
Department of Transportation  
200 South High Street  
Wailuku, Hawaii 96793
30. David Taylor, Director  
County of Maui  
Department of Water Supply  
200 South High Street  
Wailuku, Hawaii 96793
31. Honorable Gladys Baisa, Council Chair  
Maui County Council  
200 South High Street  
Wailuku, Hawaii 96793

32. Mat McNeff, Manager – Engineering  
Maui Electric Company, Ltd.  
P.O. Box 398  
Kahului, Hawaii 96733
33. Hawaiian Telcom  
60 South Church Street  
Wailuku, Hawaii 96793
34. Kahului Public Library  
90 School St.  
Kahului, Hawaii 96732
35. Maui News  
100 Mahalani Street  
Wailuku, Hawaii 96793
36. Maui Country Club  
48 Nonohe Pl  
Spreckelsville, Maui, Hawaii 96779
37. Ryoza Yamaguchi  
Paia Rinza Zen Mission  
P.O. Box 791586  
Paia, Hawaii 96779
38. Spreckelsville V Homeowners Association  
Attention: Diane Poulter  
P.O. Box 79059  
Paia, Hawaii 96779
39. Kaunoa Senior Center  
County of Maui  
401 Alakapa Place  
Paia, Hawaii 96779
40. Paia Youth and Cultural Center  
P.O. Box 790999  
Paia, Hawaii 96779

List of organizations and person who provided comments. Comment letters received, as well as responses to substantive comments, are included herein.

1. Reverend Ryoza Yamaguchi  
Rinzai Sen Mission  
P. O. Box 791586  
Paia, Hawaii 96779
2. David Deleon  
Government Affairs Director  
Realtors Association of Maui  
[gad@RAMaui.com](mailto:gad@RAMaui.com)
3. Lee Chamberlain  
Pedego Maui  
[lee@pedego.com](mailto:lee@pedego.com)
4. Saman Dias  
Pedego Maui  
[saman@pedego.com](mailto:saman@pedego.com)
5. Wesley Anderson  
2806 Kalialani Circle  
Pukalani, Hawaii 96768
6. James and Suzette Hessler  
3950 Kalai Waa, C-103  
Wailea, Hawaii 96753
7. Daniel Boren  
2445 Waipua Street  
Paia, Hawaii 96779
8. Walter Enomoto  
293 S. Mokapu Street  
Kahului, Hawaii 96732
9. Sandra McGuinness, Coordinator  
Nutrition Physical Activity Coalition of Maui  
County  
Maui County Coalition  
P. O. Box 769  
Makawao, Hawaii 96768
10. Katherine Popenuk  
Pacific Architect, llc  
P. O. Box 790-514  
Paia, Hawaii 96779
11. Alec Stewart  
271B Kahiko Street  
Paia, Hawaii 96779
12. Mike and Jodi Ottman  
79 Aleiki Place  
Paia, Hawaii 96779
13. Ray Glauser  
1392 Hiahia Street  
Wailuku, Hawaii 96793
14. Linda Galt Powley, MS, RDN, LD, CDE  
Clinical Nutritionist Health Educator  
Maui Healthcare Chair  
Nutrition and Physical Activity Coalition  
Maui County  
99 Makanani Road  
Makawao, Hawaii 96768

NEIL ABERCROMBIE  
GOVERNOR OF HAWAII



**HISTORIC PRESERVATION DIVISION  
DEPARTMENT OF LAND AND NATURAL RESOURCES**

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

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

JESSE K. SOUKI  
FIRST DEPUTY

WILLIAM M. TAM  
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES  
BOATING AND OCEAN RECREATION  
BUREAU OF CONVEYANCES  
COMMISSION ON WATER RESOURCE MANAGEMENT  
CONSERVATION AND COASTAL LANDS  
CONSERVATION AND RESOURCES ENFORCEMENT  
ENGINEERING  
FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION  
KAILOUAWA ISLAND RESERVE COMMISSION  
LAND  
STATE PARKS

March 25, 2014

Colleen Suyama, Senior Associate  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

LOG NO: 2013.5770  
DOC NO: 1311MD18  
Archaeology

Aloha Ms. Suyama:


**SUBJECT: Chapter 6E-8 and 6E-42 Historic Preservation Review-  
Draft Environmental Assessment for the Proposed North Shore Greenway Phase IV  
Hāli'imaile and Hōkū'ula Ahupua'a, Makawao and Wailuku Districts, Island of Maui  
TMK (2) 2-5-005:046, 3-8-001, and 3-8-001:071 (all por.)**

Thank you for the opportunity to comment on the draft environmental assessment (DEA) for the aforementioned project, which we received on March 25, 2014. The County of Maui is proposing to create what will eventually be a seven-mile long path for pedestrian and bike use (Greenway) between the towns of Paia and Kahului, along the *makai* section of Hana Highway.

In our earlier correspondence with Munekiyo & Hiraga concerning early consultation for the DEA, we initially recommended an archaeological inventory survey for this property (*Log No. 2013.5770, Doc No. 1311MD18*). However, in later conversations with archaeologists from Scientific Consultant Services, Inc. (SCS), the firm selected by the County to work on this phase of the project, we revised our opinion. Based on information provided to us by SCS regarding the specifics of the proposed Greenway locations, we reviewed and accepted their archaeological monitoring plan for this project pursuant to HAR § 13-279 (Dega November 2013; *Log No. 2013.6506, Doc No. 1402MD38*).

Therefore, we believe that **no historic properties will be affected** by the proposed project so long as **archaeological monitoring occurs during subsurface construction** in accordance with the approved archaeological monitoring plan. In the event that historic resources, including human skeletal remains, structural remains, cultural deposits, or lava tubes are identified during construction activities, please cease work in the immediate vicinity of the find, protect the find from disturbance, and contact the State Historic Preservation Division at (808) 243-1285. Please contact me at (808) 243-4641 or [Morgan.E.Davis@hawaii.gov](mailto:Morgan.E.Davis@hawaii.gov) if you have any questions or concerns regarding this letter.

Mahalo,

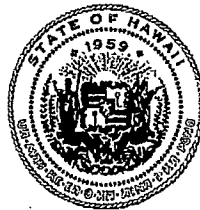
  
Morgan E. Davis  
Lead Archaeologist, Maui Section

cc: County of Maui  
Department of Planning  
Current Planning Division  
2200 Main Street, Ste. #315  
Wailuku, HI 96793

Development Services Administration  
County of Maui  
250 South High Street  
Wailuku, Hawaii 96793

Dr. Michael Dega  
Scientific Consultant Services, Inc.  
1347 Kapiolani Blvd., Suite 408  
Honolulu, Hawaii 96814

NEIL ABERCROMBIE  
GOVERNOR OF HAWAII



APR 02 2014  
WILLIAM M. TAM  
CHAIRPERSON  
BOARD OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCE MANAGEMENT

JESSE K. SOUKI  
FIRST DEPUTY

WILLIAM M. TAM  
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES  
BOATING AND OCEAN RECREATION  
BUREAU OF CONVEYANCES  
COMMISSION ON WATER RESOURCE MANAGEMENT  
CONSERVATION AND COASTAL LANDS  
CONSERVATION AND RESOURCES ENFORCEMENT  
ENGINEERING  
FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION  
KAHOOLAWE ISLAND RESERVE COMMISSION  
LAND  
STATE PARKS

**HISTORIC PRESERVATION DIVISION  
DEPARTMENT OF LAND AND NATURAL RESOURCES**

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

March 31, 2014

Colleen Suyama, Senior Associate  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

LOG NO: 2014.01339  
DOC NO: 1403MD54  
Archaeology

Aloha Ms. Suyama:

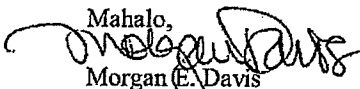
**SUBJECT: Chapter 6E-8 and 6E-42 Historic Preservation Review-  
Revised: Draft Environmental Assessment for Proposed North Shore Greenway Phase IV  
Hali'imaile and Hōkū'ula Ahupua'a, Makawao and Wailuku Districts, Island of Maui  
TMK (2) 2-5-005:046, 3-8-001, and 3-8-001:071 (all por.)**

Thank you for the opportunity to comment on the draft environmental assessment (DEA) for the aforementioned project, which we received on March 24, 2014. The County of Maui is proposing to create what will eventually be a seven-mile long path for pedestrian and bike use (Greenway) between the towns of Paia and Kahului, along the *makai* section of Hana Highway. This letter is revised to correct an error in our subject line.

In our earlier correspondence with Munekiyo & Hiraga concerning early consultation for the DEA, we initially recommended an archaeological inventory survey for this property (*Log No. 2013.5770, Doc No. 1311MD18*). However, in later conversations with archaeologists from Scientific Consultant Services, Inc. (SCS), the firm selected by the County to work on this phase of the project, we revised our opinion. Based on information provided to us by SCS regarding the specifics of the proposed Greenway locations, we reviewed and accepted their archaeological monitoring plan for this project pursuant to HAR § 13-279 (Dega November 2013; *Log No. 2013.6506, Doc No. 1402MD38*).

Therefore, we believe that no historic properties will be affected by the proposed project so long as archaeological monitoring occurs during subsurface construction in accordance with the approved archaeological monitoring plan. In the event that historic resources, including human skeletal remains, structural remains, cultural deposits, or lava tubes are identified during construction activities, please cease work in the immediate vicinity of the find, protect the find from disturbance, and contact the State Historic Preservation Division at (808) 243-1285. Please contact me at (808) 243-4641 or [Morgan.E.Davis@hawaii.gov](mailto:Morgan.E.Davis@hawaii.gov) if you have any questions or concerns regarding this letter.

Mahalo,

  
Morgan E. Davis

Lead Archaeologist, Maui Section

cc: County of Maui  
Department of Planning  
Current Planning Division  
2200 Main Street, Ste. #315  
Wailuku, HI 96793

Development Services Administration  
County of Maui  
250 South High Street  
Wailuku, Hawaii 96793

Dr. Michael Dega  
Scientific Consultant Services, Inc.  
1347 Kapiolani Blvd., Suite 408  
Honolulu, Hawaii 96814



May 16, 2014

Morgan Davis  
Lead Archaeologist, Maui Section  
Department of Land and Natural Resources  
State Historic Preservation Division  
601 Kamokila Boulevard, Room 555  
Kapolei, Hawaii 96707

SUBJECT: Draft Environmental Assessment for the Proposed North Shore Greenway-Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia, Island of Maui, Hawaii (Log No.: 2014.01339, Doc No.: 1403MD54

Dear Ms. Davis:

Thank you for your letter of March 31, 2014 responding to our request for comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway-Phase IV project. On behalf of the Department of Public Works (DPW) we acknowledge your determination that provided archaeological monitoring in accordance with the approved archaeological monitoring plan is conducted during construction "no historic properties will be affected".

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final EA. Should you have any questions, please feel free to contact me at (808) 244-2015.

Very truly yours,



Colleen Suyama  
Senior Associate

CS:la

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.

MAUI K:\DATA\RTTanaka\NS Greenway\Phi\Draft EA\Response Letters\DLNR SHPD Maui.ltr.docx

305 High St., Suite 104 Wailuku, Hawaii 96793

PH: (808)244-2015 FAX: (808)244-8729

04-14

735 Bishop St., Suite 238 Honolulu, Hawaii 96813 | PH: (808)983-1233

WWW.MHIPLANNING.COM

circulation in  
process

APR 09 2014

NEIL ABERCROMBIE  
GOVERNOR



Dean H. Seki  
Comptroller

Maria E. Zielinski  
Deputy Comptroller

**STATE OF HAWAII**  
**DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES**

P.O. BOX 119, HONOLULU, HAWAII 96810-0119

(P)1112.4

APR -2 2014

Ms. Colleen Suyama, Senior Associate  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

Dear Ms. Suyama:

Subject: Draft Environmental Assessment for the Proposed North Shore  
Greenway-Phase IV Project at TMK: (2) 3-8-001:071 (por.),  
(2) 3-8-001: (Hana Highway Right-Of-Way), and (2) 2-5-005:046 (por.),  
Paia, Maui, Hawaii

Thank you for the opportunity to provide comments for the subject project.

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

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

Sincerely,

A handwritten signature in black ink, appearing to be "D. Seki", written over a horizontal line.

DEAN H. SEKI  
Comptroller

c: Mr. David Goode, Dept. of Public Works, County of Maui

NEIL ABERCROMBIE  
GOVERNOR OF HAWAII



LINDA ROSEN, M.D., M.P.H.  
DIRECTOR OF HEALTH

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

In reply, please refer to:  
EMD/CWB

04004PCTM.14

April 3, 2014

Mr. David Goode  
Director  
Department of Public Works  
200 S. High Street  
Wailuku, HI 96793

Dear Mr. Goode:

**SUBJECT: Comments on the Draft Environmental Assessment for the Proposed North Shore Greenway-Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-Of-Way), and (2)2-5-005:046 (por.) Paia, Island of Maui, Hawaii**

The Department of Health (DOH), Clean Water Branch (CWB), acknowledges receipt of your letter, dated March 20, 2014, requesting comments on your project. The DOH-CWB has reviewed the subject document and offers these comments. Please note that our review is based solely on the information provided in the subject document and its compliance with the Hawaii Administrative Rules (HAR), Chapters 11-54 and 11-55. You may be responsible for fulfilling additional requirements related to our program. We recommend that you also read our standard comments on our website at: [http://health.hawaii.gov/epo/files/2013/10/CWB\\_Oct22.pdf](http://health.hawaii.gov/epo/files/2013/10/CWB_Oct22.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. National Pollutant Discharge Elimination System (NPDES) permit coverage is required for pollutant discharges into State surface waters and for certain situations involving storm water (HAR, Chapter 11-55).

- a. Discharges into Class 2 or Class A State waters can be covered under an NPDES general permit only if all of the NPDES general permit requirements are met. Please see the DOH-CWB website (<http://health.hawaii.gov/cwb/>) for the NPDES general permits and instructions to request coverage.
- b. All other discharges into State surface waters and discharges into Class 1 or Class AA State waters require an NPDES individual permit. To request NPDES individual permit coverage, please see the DOH-CWB forms website located at: <http://health.hawaii.gov/cwb/site-map/clean-water-branch-home-page/forms/>
- c. NPDES permit coverage for storm water associated with construction activities is required if your project will result in the disturbance of one (1) acre or more of total land area. The total land area includes a contiguous area where multiple separate and distinct construction activities may be taking place at different times on different schedules under a larger common plan of development or sale. NPDES permit coverage is required before the start of the construction activities.

Land disturbance includes, but is not limited to clearing, grading, grubbing, uprooting of vegetation, demolition (even if leaving foundation slab), staging, stockpiling, excavation into pavement areas which go down to the base course, and storage areas (including areas on the roadway to park equipment if these areas are blocked off from public usage, grassed areas, or bare ground).

3. If your project involves work in, over, or under waters of the United States, it is highly recommend that you contact the Army Corp of Engineers, Regulatory Branch (Tel: 438-9258) regarding their permitting requirements.

Pursuant to Federal Water Pollution Control Act [commonly known as the "Clean Water Act" (CWA)], Paragraph 401(a)(1), a Section 401 Water Quality Certification (WQC) is required for "[a]ny applicant for Federal license or permit to conduct any activity including, but not limited to, the construction or operation of facilities, which may **result** in any discharge into the navigable waters..." (emphasis added). The term "discharge" is defined in CWA, Subsections 502(16), 502(12), and 502(6); Title 40 of the Code of Federal Regulations, Section 122.2; and Hawaii Administrative Rules (HAR), Chapter 11-54.

4. Please note that all discharges related to the project construction or operation activities, whether or not NPDES permit coverage and/or Section 401 WQC are required, must comply with the State's Water Quality Standards. Noncompliance with water quality requirements contained in HAR, Chapter 11-54, and/or permitting requirements, specified in HAR, Chapter 11-55, may be subject to penalties of \$25,000 per day per violation.

Mr. David Goode  
April 3, 2014  
Page 3

04004PCTM.14

If you have any questions, please visit our website at: <http://health.hawaii.gov/cwb>, or contact the Engineering Section, CWB, at (808) 586-4309.

Sincerely,

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

CTM:tg

c: Ms. Colleen Suyama, Munekiyo & Hiraga, Inc.  
[via email [colleen@mhplanning.com](mailto:colleen@mhplanning.com) only]

May 16, 2014

Alec Wong, P.E., Chief  
Department of Health  
Clean Water Branch  
P.O. Box 3378  
Honolulu, Hawaii 96801-3378

SUBJECT: Draft Environmental Assessment for the Proposed North Shore  
Greenway–Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-  
001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia,  
Island of Maui, Hawaii (EMD/CWB 04004PCTM.14)

Dear Mr. Wong:

Thank you for your letter of April 3, 2014 responding to our request for comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway–Phase IV project. As recommended we have reviewed the standard comments on your website and applicable comments will be complied with. In addition, on behalf of the Department of Public Works we offer the following information, which addresses your comments in the order listed in your letter:

1. We acknowledge that the project must meet the Department of Health (DOH) water quality requirements of Hawaii Administrative Rules (HAR), Chapter 11-54.
2. As may be required, a National Pollutant Discharge Elimination System (NPDES) permit will be submitted to the DOH for approval prior to the initiation of construction.
3. We acknowledge that work in, over, or under waters of the United States may require additional permitting from the Army Corps of Engineers (ACE), Regulatory Branch. For your information, by attached letter dated February 20, 2014 the ACE determined that work within Kailua Gulch did not require a permit. See **Exhibit "A"**.

Approved for  
Signature  
Date

Alec Wong, P.E., Chief  
May 16, 2014  
Page 2

4. We acknowledge the project must comply with the State's Water Quality Standards and non-compliance may be subject to penalties of \$25,000.00 per day per violation.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final EA. Should you have any questions, please feel free to contact me at (808) 244-2015.

Very truly yours,



Colleen Suyama  
Senior Associate

CS:la  
Enclosure

cc: Kurt Watanabe, Department of Public Works (w/out enclosure)  
Kirk Tanaka, R.T. Tanaka Engineers, Inc. (w/out enclosure)

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FEB 25 2014



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

February 20, 2014

Regulatory Office

File No. POH-2013-00192

Ms. Colleen Suyama  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

**NO PERMIT REQUIRED**

Dear Ms. Suyama:

This letter is in response to your request on behalf of the County of Maui Department of Public Works for a jurisdictional determination on the proposed North Shore Greenway bike path located near Spreckelsville, Paia, Island of Maui, Hawaii. Thank you for providing the additional information, including the aquatic resources survey report of Kailua Gulch conducted by AECOS, Inc., dated January 24, 2014. A site visit by my staff was conducted on February 14, 2014. Based on the findings during the site visit and review of the information provided pursuant to Section 10 of the Rivers and Harbors Act of 1899 (Section 10) and Section 404 of the Clean Water Act (Section 404), we have determined that a Department of the Army (DA) permit is **not** required for the proposed construction of a bike path over Kailua Gulch as you described in your letter dated February 5, 2014.

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

Thank you for giving us the opportunity to review this proposal and for your cooperation with our regulatory program. Please be advised you can provide comments on your experience with the Honolulu District Regulatory Office by accessing our web-

**EXHIBIT A**



based customer survey form at [http://corpsmapu.usace.army.mil/cm\\_apex/f?p=regulatory\\_survey](http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey). Should you have any questions, please contact Ms. Emilee Stevens at (808) 835-4310, by facsimile at (808) 835-4126, or by Email at [emilee.r.stevens2@usace.army.mil](mailto:emilee.r.stevens2@usace.army.mil). Please refer to File No. POH-2013-00192 in all future communications with this office regarding this or other projects at this location.

Sincerely,

A handwritten signature in black ink, appearing to read "George P. Young". The signature is stylized with a large, sweeping initial "G" and "Y".

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

APR 04 2014

NEIL ABERCROMBIE  
GOVERNOR OF HAWAII



LINDA ROSEN, M.D., M.P.H.  
DIRECTOR OF HEALTH

LORRIN W. PANG, M.D., M.P.H.  
DISTRICT HEALTH OFFICER

STATE OF HAWAII  
DEPARTMENT OF HEALTH  
MAUI DISTRICT HEALTH OFFICE  
54 HIGH STREET  
WAILUKU HI 96793

April 3, 2014

Mr. David Goode  
Director  
Department of Public Works  
County of Maui  
250 South High Street  
Wailuku, Hawai'i 96793

Dear Mr. Goode:

**Subject: Draft Environmental Assessment for the Proposed North Shore  
Greenway-Phase IV  
TMK: (2) 3-8-001:071 (por.), (2) 3-8-001(Hana Highway Right of Way)  
and (2) 2-5-005:046 (por.) Paia, Maui, Hawaii**

Thank you for the opportunity to review this project. We have the following comments to offer:

1. National Pollutant Discharge Elimination System (NPDES) permit coverage may be required for this project. The Clean Water Branch should be contacted at 808 586-4309.
2. The noise created during the construction phase of the project may exceed the maximum allowable levels as set forth in Hawaii Administrative Rules (HAR), Chapter 11-46, "Community Noise Control." A noise permit may be required and should be obtained before the commencement of work. The Indoor & Radiological Health Branch should be contacted at 808 586-4700.

It is strongly recommended that the Standard Comments found at the Department's website: <http://health.hawaii.gov/epo/home/landuse-planning-review-program/> be reviewed and any comments specifically applicable to this project should be adhered to.

Mr. David Goode  
April 3, 2014  
Page 2

Should you have any questions, please call me at 808 984-8230 or E-mail me at [patricia.kitkowski@doh.hawaii.gov](mailto:patricia.kitkowski@doh.hawaii.gov).

Sincerely,

A handwritten signature in cursive script that reads "Patti Kitkowski".

Patti Kitkowski  
District Environmental Health Program Chief

c EPO  
Colleen Suyama

May 16, 2014

Ms. Patti Kitkowski  
District Environmental Health Program Chief  
Department of Health  
Maui District Office  
54 High Street  
Wailuku, Hawaii 96793

SUBJECT: Draft Environmental Assessment for the Proposed North Shore  
Greenway-Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-  
001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia,  
Island of Maui, Hawaii

Dear Ms. Kitkowski:

Thank you for your letter of April 3, 2014 responding to our request for comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway-Phase IV project. As recommended we have reviewed the standard comments on your website and applicable comments will be compiled with. On behalf of the Department of Public Works, we offer the following information, which addresses your comments in the order listed in your letter:

1. As may be required, a National Pollutant Discharge Elimination System (NPDES) permit will be submitted to the Department of Health.
2. As may be required, in compliance with Chapter 11-46 "Community Noise Control" a noise permit will be obtained prior to the commencement of work.

Ms. Patti Kitkowski  
May 16, 2014  
Page 2

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final EA. Should you have any questions, please feel free to contact me at 244-2015.

Very truly yours,



Colleen Suyama  
Senior Associate

CS:la

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.

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APR 11 2014

NEIL ABERCROMBIE  
GOVERNOR OF HAWAII



LINDA ROSEN, M.D., M.P.H.  
DIRECTOR OF HEALTH

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

In reply, please refer to:  
File:  
[EPO 14-053]

April 8, 2014

David Goode, Director  
Department of Public Works  
200 S. High Street  
Wailuku, Hawaii 96793

Dear Mr. Goode:

**SUBJECT: Draft Environmental Assessment for the Proposed North Shore Greenway-  
Phase IV, Paia, Maui, Hawaii**

The Department of Health (DOH), Environmental Planning Office (EPO), acknowledges receipt of your letter dated March 20, 2014. Thank you for allowing us to review and comment on the subject document. The document was routed to the relevant Environmental Health divisions, branches, and offices. They will provide specific comments to you if necessary. EPO recommends that you review the standard comments at: <http://health.hawaii.gov/epo/home/landuse-planning-review-program/>. You are required to adhere to all applicable standard comments.

You may also wish to review the recently revised Water Quality Standards Maps that have been updated for all islands. The new Water Quality Standards Maps (2013) can be found at: <http://health.hawaii.gov/cwb/site-map/clean-water-branch-home-page/water-quality-standards/>

EPO suggests that you examine the many sources available on strategies to support the sustainable and healthy design of communities and buildings, including the:  
State of Hawaii, Office of Planning: [www.planning.hawaii.gov](http://www.planning.hawaii.gov) and the new 2013 ORMP;  
U.H., School of Ocean and Earth Science and Technology: [www.soest.hawaii.edu](http://www.soest.hawaii.edu);  
U.S. Health and Human Services: [www.hhs.gov/about/sustainability](http://www.hhs.gov/about/sustainability);  
U.S. Environmental Protection Agency's sustainability programs: [www.epa.gov/sustainability](http://www.epa.gov/sustainability);

The DOH encourages everyone to apply these sustainability strategies and principles early in the planning and review of projects. We also request that for future projects you consider conducting a Health Impact Assessment (HIA). More information is available at:

[www.cdc.gov/healthyplaces/hia.htm](http://www.cdc.gov/healthyplaces/hia.htm)

[www.epa.gov/research/healthscience/health-impact-assessment.htm](http://www.epa.gov/research/healthscience/health-impact-assessment.htm)

We request you share all of this information with others to increase community awareness on sustainable, innovative, inspirational, and healthy community design.

Mahalo,

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

A handwritten signature in black ink, appearing to read "Laura Leialoha Phillips McIntyre".

cc. Colleen Suyama, Senior Associate, Munekiyo & Hiraga, Inc., 305 High Street, Suite 104,  
Wailuku, HI 96793

May 16, 2014

Laura Leialoha Phillips McIntyre, AICP  
Program Manager  
Environmental Planning Office  
Department of Health  
P.O. Box 3378  
Honolulu, Hawaii 96801-3378

SUBJECT: Draft Environmental Assessment for the Proposed North Shore  
Greenway–Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-  
001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia,  
Island of Maui, Hawaii (EPO 14-053)

Dear Ms. McIntyre:

Thank you for your letter of April 8, 2014 responding to our request for comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway–Phase IV project. On behalf of the Department of Public Works we offer the following information, which addresses your comments in the order listed in your letter:

1. As recommended, we have reviewed the standard comments of the Department of Health (DOH) and applicable comments will be complied with.
2. We have reviewed the new Water Quality Standards Maps (2013) and find the marine waters fronting the ocean outlet of Kailua Stream are classified as Class A waters. During construction Best Management Practices will be implemented to prevent sediments from entering Kailua Stream.
3. We have forwarded your suggestion on strategies to support the sustainable and healthy design of communities and buildings to the applicant and design consultant for consideration.
4. We understand that a Health Impact Assessment (HIA) assesses and addresses voluntary or regulatory processes that focus on health outcomes such as obesity,

MAUI

305 High St., Suite 104 Wailuku, Hawaii 96793

PH: (808)244-2015 FAX: (808)244-8729

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735 Bishop St., Suite 238 Honolulu, Hawaii 96813 PH: (808)983-1233

WWW.MUNEKIYOHIRAGA.COM

Environmental Assessment  
Proposed  
Management

Laura Leialoha Phillips McIntyre  
May 16, 2014  
Page 2

physical inactivity, asthma, injuries, and social equity. While we also understand that environmental assessments differ from health assessments, issues addressed in environmental assessment may also address health-related issues. Information linking the two assessment categories include, but are not limited to noise impact assessments, environmental site assessments, and medical facilities impact assessment. Beyond those common linkages, we do not anticipate exploring specific health issues which may be broadly considered as part of a HIA, but which are not within the purview of Chapter 343, Hawaii Revised Statutes (HRS). We note that the construction of the greenway will encourage residents and visitors utilizing the greenway to walk, run and bike thus improving health.

Again, thank you for your participation in the Chapter 343, HRS review process. A copy of your letter will be included in the Final EA. Should you have any questions, please feel free to contact me at 244-2015.

Very truly yours,



Colleen Suyama  
Senior Associate

CS:la

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.

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APR 22 2014

NEIL ABERCROMBIE  
GOVERNOR OF HAWAII



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



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

April 21, 2014

County of Maui  
Department of Public Works  
Attention: Mr. David Goode, Director  
200 S. High Street, 4<sup>th</sup> Floor  
Wailuku, Hawaii 96793

via email: [david.goode@co.maui.hi.us](mailto:david.goode@co.maui.hi.us)

Munekiyo & Hiraga, Inc.  
Attention: Ms. Colleen Suyama, Senior Associate  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

via email: [colleen@mhplanning.com](mailto:colleen@mhplanning.com)

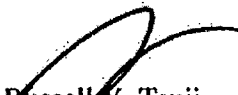
Dear Mr. Goode and Ms. Suyama:

**SUBJECT:** Draft Environmental Assessment for the Proposed North Shore Greenway  
– Phase IV Project

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

At this time, enclosed are comments from the Engineering Division on the subject matter. Should you have any questions, please feel free to call Lydia Morikawa at 587-0410. Thank you.

Sincerely,

  
Russell Y. Tsuji  
Land Administrator

Enclosure(s)  
cc: Central Files

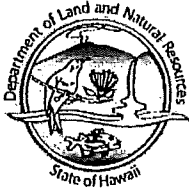
NEIL ABERCROMBIE  
GOVERNOR OF HAWAII



RECEIVED  
LAND DIVISION  
WILLIAM J. III, JR.  
CHIEF ENGINEER  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCE MANAGEMENT

2014 APR -1 PM 2:46

14 MAR 28 AM 09:54 ENGINEERING



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

DEPT. OF LAND &  
NATURAL RESOURCES  
STATE OF HAWAII

March 27, 2014

MEMORANDUM

TO: FR:

**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 – Maui District
- Historic Preservation

TO:  
FROM:

Russell Y. Tsuji, Land Administrator

SUBJECT:

Draft Environmental Assessment for the Proposed North Shore Greenway – Phase IV Project

LOCATION:

Paia, Island of Maui; TMK: (2)3-8-001:071 (por.), (2)3-8-001: (Hana Highway Right-Of-Way), and (2)2-5-005:046 (por.)

APPLICANT:

County of Maui Department of Public Works

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by April 18, 2014.

*Only one (1) copy of the CD is available for your review in Land Division office, Room 220.*

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 Lydia Morikawa at 587-0410. Thank you.

Attachments

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

Signed:

Print Name:

Date:

*Cory S. Chang*  
Cory S. Chang, Chief Engineer  
4/1/14

cc: Central Files

DEPARTMENT OF LAND AND NATURAL RESOURCES  
ENGINEERING DIVISION

LD/Russell Y. Tsuji

Ref.: DEA for Proposed North Shore Greenway – Phase IV Project, Paia  
Maui.008

COMMENTS

- ( ) We confirm that the project site, according to the Flood Insurance Rate Map (FIRM), is located in Flood Zone \_\_\_\_\_.
- ( ) Please take note that the project site, according to the Flood Insurance Rate Map (FIRM), is also located in Zone \_\_\_\_\_.
- (X) Please note that parts of the project site according to the Flood Insurance Rate Map (FIRM) are located in Flood Zones AE, AEF, and X. The National Flood Insurance Program regulates developments within Flood Zones AE and AEF as indicated in bold letters below, but not Flood Zone X.
- (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.

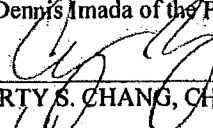
Please be advised that 44CFR indicates the minimum standards set forth by the NFIP. Your Community's local flood ordinance may prove to be more restrictive and thus take precedence over the minimum NFIP standards. If there are questions regarding the local flood ordinances, please contact the applicable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

- ( ) Mr. Mario Siu Li at (808) 768-8098 or Ms. Ardis Shaw-Kim at (808) 768-8296 of the City and County of Honolulu, Department of Planning and Permitting.
- ( ) Mr. Frank DeMarco at (808) 961-8042 of the County of Hawaii, Department of Public Works.
- (X) Mr. Carolyn Cortez at (808) 270-7813 of the County of Maui, Department of Planning.
- ( ) Mr. Stanford Iwamoto at (808) 241-4884 of the County of Kauai, Department of Public Works.
- ( ) The applicant should include project water demands and infrastructure required to meet water demands. Please note that the implementation of any State-sponsored projects requiring water service from the Honolulu Board of Water Supply system must first obtain water allocation credits from the Engineering Division before it can receive a building permit and/or water meter.
- ( ) The applicant should provide the water demands and calculations to the Engineering Division so it can be included in the State Water Projects Plan Update.

( ) Additional Comments: \_\_\_\_\_  
\_\_\_\_\_

( ) Other: \_\_\_\_\_  
\_\_\_\_\_

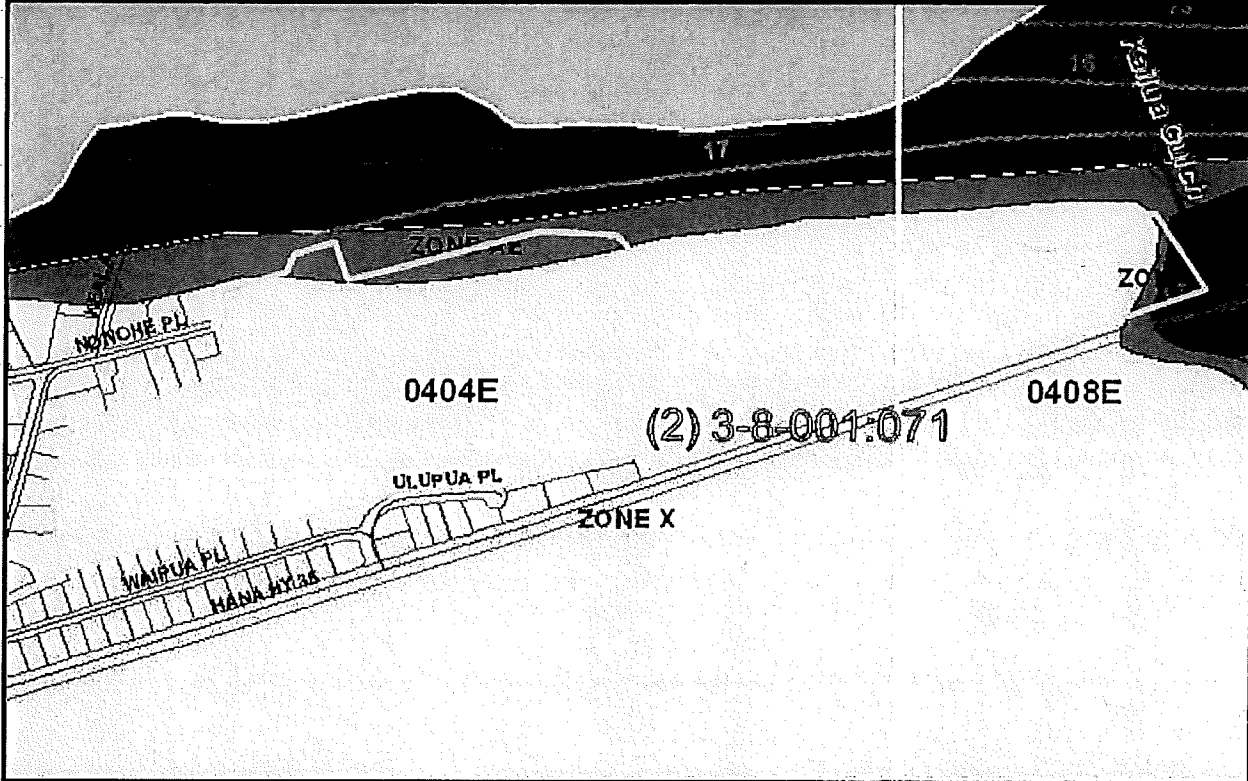
Should you have any questions, please call Mr. Dennis Imada of the Planning Branch at 587-0257.

Signed:   
CARTY S. CHANG, CHIEF ENGINEER

Date: 4/1/04



# FLOOD HAZARD ASSESSMENT REPORT



## NATIONAL FLOOD INSURANCE PROGRAM

### FLOOD ZONE DEFINITIONS

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

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

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

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

### OTHER FLOOD AREAS

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

### PROPERTY INFORMATION

**COUNTY:** MAUI  
**TMK NO:** (2) 3-8-001-071  
**PARCEL ADDRESS:** ULUPUA PL, PAIA, HI 96779  
**FIRM INDEX DATE:** SEPTEMBER 19, 2012  
**LETTER OF MAP CHANGE(S):** NONE  
**FEMA FIRM PANEL(S):** 1500030408E-SEPTEMBER 25, 2009  
 1500030404E-SEPTEMBER 25, 2009

**PARCEL DATA FROM:** JULY 2013  
**IMAGERY DATA FROM:** MAY 2005

### IMPORTANT PHONE NUMBERS

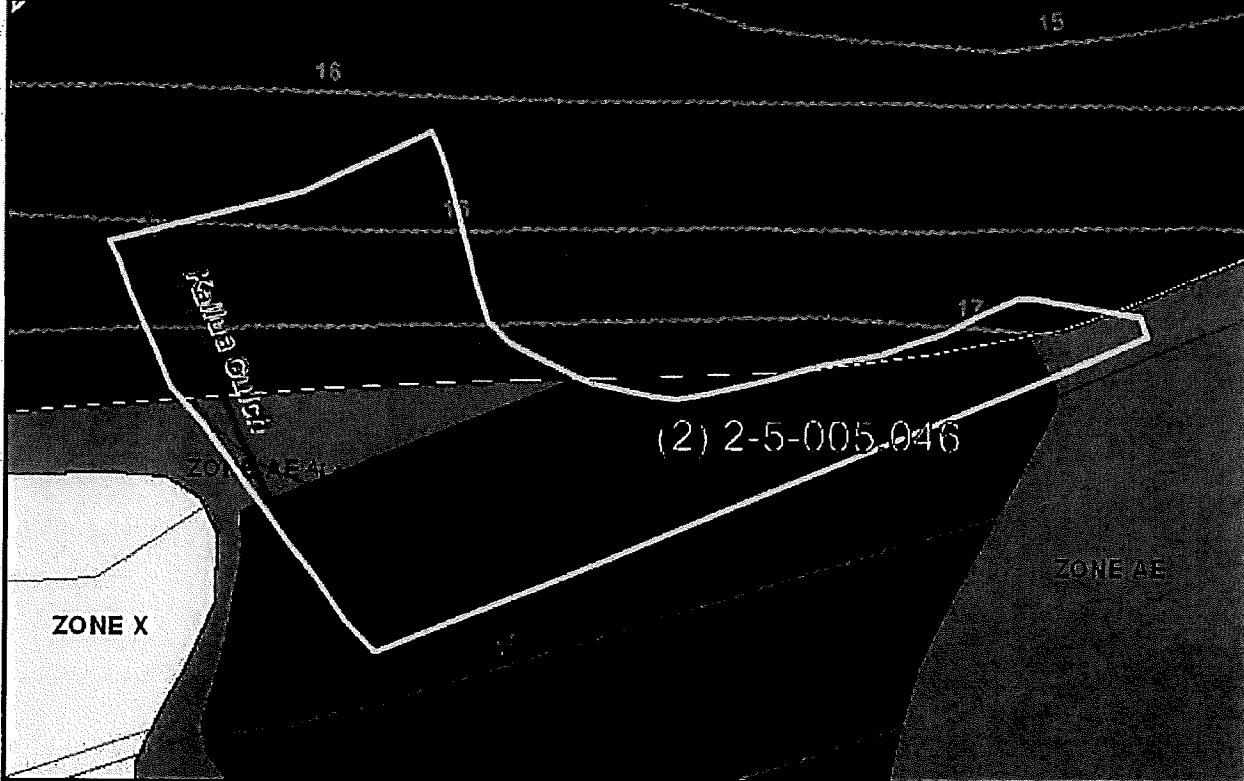
County NFIP Coordinator  
 County of Maui  
 Carolyn Cortez (808) 270-7253  
State NFIP Coordinator  
 Carol Tyau-Beam, P.E., CFM (808) 587-0267

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

*If this map has been identified as 'PRELIMINARY' or 'UNOFFICIAL', please note that it is being provided for informational purposes and is not to be used for official/legal decisions, regulatory compliance, or flood insurance rating. Contact your county NFIP coordinator for flood zone determinations to be used for compliance with local floodplain management regulations.*



# State of Hawaii FLOOD HAZARD ASSESSMENT REPORT



## NATIONAL FLOOD INSURANCE PROGRAM

### FLOOD ZONE DEFINITIONS

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

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

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

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

### OTHER FLOOD AREAS

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

### PROPERTY INFORMATION

<b>COUNTY:</b>	MAUI
<b>TMK NO:</b>	(2) 2-5-005-046
<b>PARCEL ADDRESS:</b>	ALAWAI RD PAIA, HI 96779
<b>FIRM INDEX DATE:</b>	SEPTEMBER 19, 2012
<b>LETTER OF MAP CHANGE(S):</b>	NONE
<b>FEMA FIRM PANEL(S):</b>	1500030408E
<b>PANEL EFFECTIVE DATE:</b>	SEPTEMBER 25, 2009

<b>PARCEL DATA FROM:</b>	JULY 2013
<b>IMAGERY DATA FROM:</b>	MAY 2005

### IMPORTANT PHONE NUMBERS

<u>County NFIP Coordinator</u>	
County of Maui	
Carolyn Cortez	(808) 270-7253
<u>State NFIP Coordinator</u>	
Carol Tyau-Beam, P.E., CFM	(808) 587-0267

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

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NEH. ABERCROMBIE  
GOVERNOR OF HAWAII



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



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

April 22, 2014

County of Maui  
Department of Public Works  
Attention: Mr. David Goode, Director  
200 S. High Street, 4<sup>th</sup> Floor  
Wailuku, Hawaii 96793

via email: [david.goode@co.maui.hi.us](mailto:david.goode@co.maui.hi.us)

Munekiyo & Hiraga, Inc.  
Attention: Ms. Colleen Suyama, Senior Associate  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

via email: [colleen@mhplanning.com](mailto:colleen@mhplanning.com)

Dear Mr. Goode and Ms. Suyama:

SUBJECT: Draft Environmental Assessment for the Proposed North Shore Greenway  
– Phase IV Project

Thank you for the opportunity to review and comment on the subject matter. In addition to the comments previously sent you on April 21, 2014, enclosed are comments from the Commission on Water Resource Management on the subject matter. Should you have any questions, please feel free to call Lydia Morikawa at 587-0410. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Russell Y. Tsuji".

Russell Y. Tsuji  
Land Administrator

Enclosure(s)  
cc: Central Files

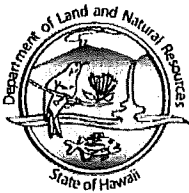
NEIL ABERCROMBIE  
GOVERNOR OF HAWAII



RECEIVED  
LAND DIVISION

2014 APR 21 PM 2:33

WILLIAM J. AHLA, JR.  
FIABHIHSON  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCE MANAGEMENT



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

March 27, 2014

MEMORANDUM

2014 MAR 28 AM 11:37

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 – Maui District
- Historic Preservation

FR:

TO:

FROM: *[Signature]* Russell Y. Tsuji, Land Administrator

SUBJECT: Draft Environmental Assessment for the Proposed North Shore Greenway – Phase IV Project

LOCATION: Paia, Island of Maui; TMK: (2)3-8-001:071 (por.), (2)3-8-001: (Hana Highway Right-Of-Way), and (2)2-5-005:046 (por.)

APPLICANT: County of Maui Department of Public Works

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by April 18, 2014.

Only one (1) copy of the CD is available for your review in Land Division office, Room 220.

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 Lydia Morikawa at 587-0410. Thank you.

Attachments

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

Signed: *[Signature]*  
 Print Name: William M. Tam  
 Date: 4/17/14

cc: Central Files

FILE ID:	RFD.3948.6
DOC ID:	11535




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

April 17, 2014

REF: RFD.3948.6

TO: Russell Tsuji, Administrator  
Land Division

FROM: William M. Tam, Deputy Director   
Commission on Water Resource Management

SUBJECT: DEA for the Proposed North Shore Greenway Phase IV Project, Paia, Maui

FILE NO.:

TMK NO.: (2) 3-8-001:071 (por.), (2) 3-8-001: (Hana Highway Right-Of-Way), and (2) 2-5-005:046 (por.)

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/>.
- 5. We recommend the use of best management practices (BMP) for stormwater management to minimize the impact of the project to the existing area's hydrology while maintaining on-site infiltration and preventing polluted runoff from storm events. Stormwater management BMPs may earn credit toward LEED certification. More information on stormwater BMPs can be found at <http://hawaii.gov/dbedt/czm/initiative/lid.php>.
- 6. We recommend the use of alternative water sources, wherever practicable.
- 7. We recommend participating in the Hawaii Green Business Program, that assists and recognizes businesses that strive to operate in an environmentally and socially responsible manner. The program description can be found online at <http://energy.hawaii.gov/green-business-program>



- 8. We recommend adopting landscape irrigation conservation best management practices endorsed by the Landscape Industry Council of Hawaii. These practices can be found online at [http://www.hawaiiscape.com/wp-content/uploads/2013/04/LICH\\_Irrigation\\_Conservation\\_BMPs.pdf](http://www.hawaiiscape.com/wp-content/uploads/2013/04/LICH_Irrigation_Conservation_BMPs.pdf)
- 9. There may be the potential for ground or surface water degradation/contamination and recommend that approvals for this project be conditioned upon a review by the State Department of Health and the developer's acceptance of any resulting requirements related to water quality.

Permits required by CWRM:

Additional information and forms are available at [http://hawaii.gov/dlnr/cwrm/info\\_permits.htm](http://hawaii.gov/dlnr/cwrm/info_permits.htm).

- 10. The proposed water supply source for the project is located in a designated water management area, and a Water Use Permit is required prior to use of water. The Water Use Permit may be conditioned on the requirement to use dual line water supply systems for new industrial and commercial developments.
- 11. A Well Construction Permit(s) is (are) required before any well construction work begins.
- 12. A Pump Installation Permit(s) is (are) required before ground water is developed as a source of supply for the project.
- 13. There is (are) well(s) located on or adjacent to this project. If wells are not planned to be used and will be affected by any new construction, they must be properly abandoned and sealed. A permit for well abandonment must be obtained.
- 14. Ground water withdrawals from this project may affect streamflows, which may require an instream flow standard amendment.
- 15. A Stream Channel Alteration Permit(s) is (are) required before any alteration(s) can be made to the bed and/or banks of a stream channel.
- 16. A Stream Diversion Works Permit(s) is (are) required before any stream diversion works is (are) constructed or altered.
- 17. A Petition to Amend the Interim Instream Flow Standard is required for any new or expanded diversion(s) of surface water.
- 18. The planned source of water for this project has not been identified in this report. Therefore, we cannot determine what permits or petitions are required from our office, or whether there are potential impacts to water resources.
- OTHER:  
Not sure if Central Maui Service Area will serve water demands but Iao Aquifer and Na Wai Eha are water management areas and its not clear how future water needs will be met for this future use, especially as existing uses have not been finalized.

If there are any questions, please contact W. Roy Hardy at 587-0225.



APR 30 2014

WILLIAM J. AILA, JR.  
CHAIRPERSON

WILLIAM D. BALFOUR, JR.  
KAMANA BEAMER  
MILTON D. PAVAO  
LINDA ROSEN, M.D., M.P.H.  
JONATHAN STARR  
TED YAMAMURA

WILLIAM M. TAM  
DEPUTY DIRECTOR

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

April 28, 2014

Ref: RFD.3948.3

Colleen Suyama  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

Request for Determination  
Proposed North Shore Greenway, Kailua Stream, Pā'ia, Maui  
TMKs: (2) 3-8-001, (2) 3-8-001:071, and (2) 2-5-005:046

Dear Ms. Suyama:

We are responding to your inquiry regarding the Commission on Water Resource Management's ("Commission") determination that a Stream Channel Alteration Permit (SCAP) would be required during a review of the Draft Environmental Assessment. The project, by the County of Maui Department of Public Works, proposes the final Phase IV of the North Shore Greenway Project to construct a replacement bike path along Hana Highway in the westbound direction.

Pursuant to §174C-71(3)(A), Hawaii Revised Statutes, the Commission on Water Resource Management "shall require persons to obtain a permit from the Commission prior to undertaking a stream channel alteration; provided that routine streambed and drainageway maintenance activities are exempt from obtaining a permit<sup>1</sup>."

Based on further review of the Draft Environmental Assessment and information contained therein, the Commission does not require a Stream Channel Alteration Permit Application to be submitted for the proposed project because Kailua Stream is not considered a perennial stream and the streambank or instream uses will not be adversely affected. If you have any questions, please contact Rebecca Alakai at 587-0266, or [rebecca.r.alakai@hawaii.gov](mailto:rebecca.r.alakai@hawaii.gov).

Very truly yours,

WILLIAM M. TAM  
Deputy Director

<sup>1</sup> The Commission's Stream Protection and Management Branch, has the responsibility to protect stream channels from alteration whenever practicable to provide for fishery, wildlife, recreational, aesthetic, scenic, and other beneficial instream uses in the State of Hawaii under the authorization of the State Water Code, HRS Chapter 174C, and Hawaii Administrative Rules Chapter 13-169 (Protection of Instream Uses of Water). Chapter 174C-3, HRS provides definitions for the terms "stream channel", and "channel alteration." "Stream channel" means "a natural or artificial watercourse with a definite bed and banks which periodically or continuously contains flowing water." "Channel alteration" means: 1) to obstruct, diminish, destroy, modify, or relocate a stream channel; 2) to change the direction of flow of water in a stream channel; 3) to place any material or structures in a stream channel; and 4) to remove any material or structures from a stream channel."

Please be advised that the project may require other agency approvals regarding wetlands, water quality, grading, stockpiling, and floodways. This letter should not be used for other regulatory jurisdictions or used to imply compliance with other federal, state, or county rules. Work performed without appropriate permits or authorizations may be subject to fines and/or remedial actions.

May 16, 2014

Russell Y. Tsuji, Land Administrator  
Department of Land and Natural Resources  
Land Division  
P.O. Box 621  
Honolulu, Hawaii 96809

SUBJECT: Draft Environmental Assessment for the Proposed North Shore  
Greenway–Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-  
001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia,  
Island of Maui, Hawaii

Dear Mr. Tsuji:

Thank you for your Department's letters of April 21, April 22, and April 28, 2014 responding to our request for comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway–Phase IV project. On behalf of the Department of Public Works we offer the following information, which addresses your comments in the order listed in your letters:

**April 21, 2014 Letter:**

**Engineering Division**

1. We acknowledge parts of the project site is located on Flood Zones AE, AEF and X and the National Flood Insurance Program regulates developments within Flood Zones AE and AEF. As recommended, we will contact the Maui Department of Planning to determine the permitting requirements for the project.

**April 22, 2014 and April 28, 2014 Letters:**

**Commission on Water Resource Management (CWRM)**

1. We acknowledge that based on additional review of the Draft EA by CWRM it has been determined that a Stream Channel Alteration Permit is not required for the project.

Russell Y. Tsuji, Land Administrator  
May 16, 2014  
Page 2

2. The project does not require any irrigation or generate new water demand.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final EA. Should you have any questions, please feel free to contact me at (808) 244-2015.

Very truly yours,



Colleen Suyama  
Senior Associate

CS:la

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.

K:\DATA\RTTanaka\NS GreenwayPhIV\Draft EA\Response Letters\DLNR Land.ltr.docx

APR 24 2014

NEIL ABERCROMBIE  
GOVERNOR



DARRYLL D. M. WONG  
MAJOR GENERAL  
ADJUTANT GENERAL

JOSEPH K. KIM  
BRIGADIER GENERAL  
DEPUTY ADJUTANT GENERAL

STATE OF HAWAII  
**DEPARTMENT OF DEFENSE**  
OFFICE OF THE ADJUTANT GENERAL  
3949 DIAMOND HEAD ROAD  
HONOLULU, HAWAII 96816-4495

APR 22 2014

Ms. Colleen Suyama, Senior Associate  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawai'i 96793

Subject: Draft Environmental Assessment for the Proposed North Shore Greenway – Phase IV Project at TMK (2) 3-8-001:071 (por.), (2) 3-8-001: (Hana Highway Right-of-Way), and (2) 2-5-005: 046 (por.), Paia, Maui, Hawaii

Dear Ms. Suyama:

Thank you for the opportunity to comment on the above project. The State of Hawaii Department of Defense has no comments to offer relative to the project at this time.

Please contact this office upon completion of the Environment Assessment. If you have any questions or concerns, please have your staff contact Mr. Lloyd Maki, Acting Chief Engineering Officer at (808) 733-4250.

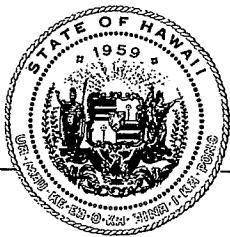
Sincerely,

A handwritten signature in black ink, appearing to read "Darryll D.M. Wong".

DARRYLL D.M. WONG  
Major General  
Hawaii National Guard  
Adjutant General

c: Mr. Ian Duncan, State Civil Defense

APR 23 2014



**OFFICE OF PLANNING  
STATE OF HAWAII**

NEIL ABERCROMBIE  
GOVERNOR

LEO R. ASUNCION  
ACTING DIRECTOR  
OFFICE OF PLANNING

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

Telephone: (808) 587-2846  
Fax: (808) 587-2824  
Web: <http://planning.hawaii.gov/>

Ref. No. P-14352

April 22, 2014

Mr. David Goode, Director  
Maui County Department of Public Works  
200 S. High Street  
Wailuku, Hawaii 96793

Dear Mr. Goode:

Subject: Draft Environmental Assessment (Draft EA) for the Proposed North Shore Greenway-Phase IV Project; TMK: (2) 3-8-001:071 (por.), (2) 3-8-001 (Hana Highway Right-of-Way), and (2) 2-5-005:046 (por.), Paia, Maui, Hawaii

Thank you for the opportunity to provide comments on the Draft EA for the proposed North Shore Greenway Phase IV project. We have reviewed the Draft EA sent to our office by letter dated March 20, 2014.

Based on earlier comments sent to you from our office on October 23, 2013 (reference number P-14147), the Draft EA has addressed the comments made, including: Coastal Zone Management Act objectives and policies of HRS § 205A-2, non-point pollution impacts on coastal waters, Watershed Management Measures, Special Management Area permit issues, and Coastal Zone Management federal consistency.

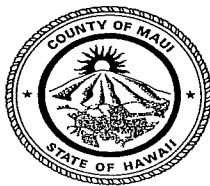
We have no further comments at this time. If you have any questions regarding this comment letter, please contact Josh Hekekoa of our Hawaii CZM Program at 587-2845.

Sincerely,

Leo R. Asuncion  
Acting Director

c: Colleen Suyama, Munekiyo & Hiraga

ALAN M. ARAKAWA  
MAYOR



JEFFREY A. MURRAY  
CHIEF

ROBERT M. SHIMADA  
DEPUTY CHIEF

**COUNTY OF MAUI**  
DEPARTMENT OF FIRE AND PUBLIC SAFETY  
FIRE PREVENTION BUREAU

313 MANEA PLACE . WAILUKU, HAWAII 96793  
(808) 244-9161 . FAX (808) 244-1363

April 3, 2014

Munekiyo & Hiraga, Inc.  
Attn: Colleen Suyama, Senior Associate  
305 High Street, Suite 104  
Wailuku, HI 96793

Re: Proposed North Shore Greenway Phase IV – Draft EA  
Paia, Maui, Hawaii  
(2) 3-8-001: 071 por., (2) 3-8-001 (Hana Hwy. Right of Way), (2) 2-5-005: 046 por.

Dear Colleen:

Thank you for the opportunity to comment on this subject. At this time, our office provides the following comments:

- Our office has no comment in regards to the Draft EA associated with this proposed project.
- Should any fire hydrants be affected by this project, please be sure to maintain the minimum operating clearance of 3 feet around the hydrants and the minimum height clearance to grade for the connections and valves (18”<x<36”).

If there are any questions or comments, please feel free to contact me at 244-9161 ext. 23.

Sincerely,

Paul Haake  
Captain, Fire Prevention Bureau

cc: David Goode – Director, Public Works

May 16, 2014

Paul Haake, Captain  
Department of Fire and Public Safety  
Fire Prevention Bureau  
313 Manea Place  
Wailuku, Hawaii 96793

SUBJECT: Draft Environmental Assessment for the Proposed North Shore  
Greenway-Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-  
001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia,  
Island of Maui, Hawaii

Dear Captain Haake:

Thank you for your letter of April 3, 2014 responding to our request for comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway-Phase IV project. On behalf of the Department of Public Works (DPW) should any fire hydrants be affected by the proposed greenway the DPW will coordinate the project with both the Department of Water Supply and the Department of Fire and Public Safety to ensure that the affected hydrants meet the requirements of both agencies.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final EA. Should you have any questions, please feel free to contact me at 244-2015.

Very truly yours,



Colleen Suyama  
Senior Associate

CS:la

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.

K:\DATA\RTTanaka\NS Greenway\PHIV\Draft EA\Response Letters\DFPS FPB.ltr.docx

MAUI:

305 High St., Suite 104 Wailuku, Hawaii 96793

PH: (808)244-2015 FAX: (808)244-8729

HONOLULU:

735 Bishop St., Suite 238 Honolulu, Hawaii 96813 | PH: (808)983-1233

WWW.MHIPLANNING.COM



APR 08 2014

ALAN M. ARAKAWA  
Mayor



GLENN T. CORREA  
Director

BRIANNE L. SAVAGE  
Deputy Director

(808) 270-7230  
Fax (808) 270-7934

## DEPARTMENT OF PARKS & RECREATION

700 Hali'a Nakoia Street Unit 2, Wailuku, Hawaii 96793

April 4, 2014

Ms. Colleen Suyama, Senior Associate  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, HI 96793

Dear Ms. Suyama:

**SUBJECT: Draft Environmental Assessment for the Proposed North Shore Greenway-Phase IV Project at TMK: (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-Of-Way), and (2)2-5-005:046 (por.), Paia, Maui, Hawaii**


Thank you for the opportunity to review and comment on the proposed North Shore Greenway-Phase IV project. Upon review of the presented documents the Department of Parks and Recreation has the following comments.

Please provide the maintenance protocol for the subject project.

Also, please advise the Department on when the area where roots have uplifted the path are going to be corrected.

Thank you for your consideration in this matter. Should you have any questions or need of additional information or clarification please feel free to contact me, or Robert Halvorson, Chief of Planning & Development at [robert.halvorson@co.maui.hi.us](mailto:robert.halvorson@co.maui.hi.us) or 808.270-7387.

Sincerely,

  
GLENN T. CORREA  
Director

c: David Goode, Department of Public Works Director

GTC:RH:do

ALAN M. ARAKAWA  
Mayor

DAVID C. GOODE  
Director

ROWENA M. DAGDAG-ANDAYA  
Deputy Director

Telephone: (808) 270-7745  
Fax: (808) 270-7975



COUNTY OF MAUI  
**DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION**

200 SOUTH HIGH STREET  
WAILUKU, MAUI, HAWAII 96793

GLEN A. UENO, P.E., P.L.S.  
Development Services Administration

CARY YAMASHITA, P.E.  
Engineering Division

BRIAN HASHIRO, P.E.  
Highways Division

May 5, 2014

Glenn Correa, Director  
Department of Parks & Recreation  
700 Halia Nakoa Street, Unit 2  
Wailuku, Hawaii 96793

**SUBJECT:** Draft Environmental Assessment for the Proposed North Shore Greenway–Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia, Island of Maui, Hawaii

Dear Mr. Correa:

Thank you for your letter of April 4, 2014 responding to our request for comments on the Draft Environmental Assessment (EA) for the proposed North Shore Greenway–Phase IV project. The Department of Public Works will discuss with your office the maintenance protocol for the subject project, as well as existing maintenance problem areas along the existing pathway.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final EA. Should you have any questions, please feel free to contact Project Engineer Kurt Watanabe at 270-7745.

Sincerely,

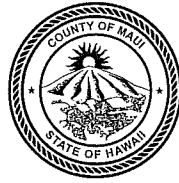
David C. Goode  
Director of Public Works

DG/KW: gq(ED14-643)

S:\ENGIENGR\12-35 North Shore Greenway\EA Documents\Rec'd EA Response Letters for DG from MHI\_2014-05-02\IDPR.ltr.doc

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.  
Colleen Suyama, Munekiyo & Hiraga, Inc.

ALAN M. ARAKAWA  
Mayor



APR 10 2014  
JO ANNE JOHNSON-WINER  
Director  
MARC I. TAKAMORI  
Deputy Director  
Telephone (808) 270-7511

DEPARTMENT OF TRANSPORTATION

COUNTY OF MAUI  
200 South High Street  
Wailuku, Hawaii, USA 96793-2155

April 7, 2014

Ms. Colleen Suyama  
Munekiyo & Hiraga Inc.  
305 High Street, Suite 104  
Wailuku, Maui, Hawaii 96793

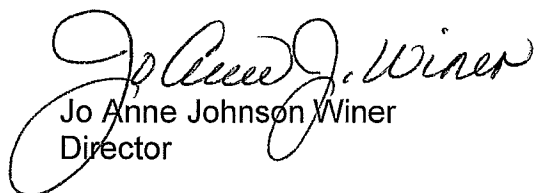
Subject: Draft EA for Proposed North Shore Greenway Phase IV

Dear Ms. Suyama,

Thank you for the opportunity to comment on this project. We have no comments to make at this time.

Please feel free to contact me if you have any questions.

Sincerely,

  
Jo Anne Johnson Winer  
Director

ALAN M. ARAKAWA  
Mayor



APR 24 2014

DAVID TAYLOR, P.E.  
Director

PAUL J. MEYER  
Deputy Director

DEPARTMENT OF WATER SUPPLY  
COUNTY OF MAUI  
200 SOUTH HIGH STREET  
WAILUKU, MAUI, HAWAII 96793-2155  
www.mauiwater.org

April 16, 2014

Mr. David Goode, Director  
Department of Public Works  
200 High Street  
Wailuku, HI 96793

Re: Draft Environmental Assessment for the Proposed North Shore Greenway Phase IV  
Project; TMK 3-8-001:071 (por.), 3-8-001: (Hana Highway Right-of-Way), 2-5-005:046 (por.)

Dear Mr. Goode:

Thank you for consulting with the Department of Water Supply on this Draft Environmental Assessment (EA). We note that our early consultation comments dated October 25, 2013 are included in the EA. We have no further comments at this time.

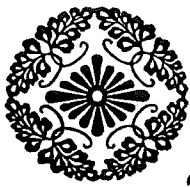
Sincerely,

A handwritten signature in cursive script, appearing to read "Paul J. Meyer".

David Taylor, Director  
emb

cc: engineering  
Colleen Suyama, Munekiyo & Hiraga, Inc.

*"By Water All Things Find Life"*



# Rinzai Zen Mission

APR 22 2014

PO Box 791586, Paia, Maui, HI 96779

Next to Baldwin Beach Park ♦ (808) 579-9921

April 22, 2014

Colleen Suyama, Senior Associate  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, HI 96793

Regarding the Draft EA for the Proposed North Shore Greenway-Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-001: (Hana Highway Right-Of-Way), and (2)2-5-005:046 (por.), Paia, Maui, Hawaii

Thank you for the opportunity to review this project. I have the following comments to offer:

As a resident of the Paia/Spreckelsville area, my comments are based on my personal experiences and frequent observations of the location of the proposed North Shore Greenway, from Ulupua Place to H.A. Baldwin Park.

1. I commute along the stretch of highway heading west from Baldwin Beach and regularly observe pedestrians, cyclists, and runners utilizing the narrow shoulder and grass area on the side of the highway. The user number is present, while it seems that the safety of the users is not. Regardless of the dangers with the heavy vehicular traffic at substantial speeds, people will use this area for exercise, leisure, and bicycle transit. I support that the greenway would ensure more safety and promote such healthy and environmentally responsible activities without negative impact on Paia Rinzai Zen Mission.

2. One issue of concern was mentioned by Mr. Raymond Hew of the Maui Country Club. A boundary net, or other type of unobtrusive barrier should be considered for the safety of proposed Greenway users who would be exposed to dangers of stray golf balls around the 6<sup>th</sup> and 7<sup>th</sup> holes of the course. Based on experience with golf balls that stray onto the highway, I can support that this is a valid concern.

Again, thank you for the opportunity to comment on this project on behalf of a community association.

Sincerely,

Ryoza Yamaguchi, Reverend

On Behalf of the Rinzai Zen Mission, Paia

ALAN M. ARAKAWA  
Mayor

DAVID C. GOODE  
Director

ROWENA M. DAGDAG-ANDAYA  
Deputy Director

Telephone: (808) 270-7745  
Fax: (808) 270-7975



COUNTY OF MAUI  
**DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION**

200 SOUTH HIGH STREET  
WAILUKU, MAUI, HAWAII 96793

GLEN A. UENO, P.E., P.L.S.  
Development Services Administration

CARY YAMASHITA, P.E.  
Engineering Division

BRIAN HASHIRO, P.E.  
Highways Division

May 5, 2014

Reverend Ryoza Yamaguchi  
Rinzai Sen Mission  
P.O. Box 791586  
Paia, Hawaii 96779

**SUBJECT:** Draft Environmental Assessment for the Proposed North Shore Greenway–Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia, Island of Maui, Hawaii

Dear Reverend Yamaguchi:

Thank you for your letter dated April 22, 2014 expressing your support for the proposed North Shore Greenway–Phase IV (NSG-IV) project. We are pleased that the construction of the final Phase of the North Shore Greenway will be initiated, thereby completing this project which began in 1992.

The following responses address your comments in the order listed in your letter:

1. We acknowledge that many people use the shoulder area of Hana Highway and the proposed improvement will provide greater safety to pedestrians, runners and bicyclists.
2. We are aware of the concern expressed by Mr. Raymond Hew regarding the danger of stray golf balls. As we implement the NSG-IV project we will discuss with the Maui Country Club measures to reduce the dangers of stray golf balls to users of the greenway.

Reverend Ryoza Yamaguchi

SUBJECT: Draft Environmental Assessment for the Proposed North Shore Greenway—Phase IV  
Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-of-Way), and (2)2-  
5-005:046 (por.), Paia, Island of Maui, Hawaii

May 5, 2014  
Page 2

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final Environmental Assessment. Should you have any questions, please feel free to contact Project Engineer Kurt Watanabe at 270-7745.

Sincerely,



David C. Goode  
Director of Public Works

DG/KW: gq(ED14-650)

S:\ENGIN\ENGR\AF12-35 North Shore Greenway\EA Documents\Rec'd EA Response Letters for DG from MHL\_2014-05-02\RYamaguchi.ltr.doc

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.  
Colleen Suyama, Munekiyo & Hiraga, Inc.

MAR 26 2014

**From:** Dave DeLeon [<mailto:gad@RAMaui.com>]  
**Sent:** Wednesday, March 26, 2014 10:56 AM  
**To:** Colleen Suyama  
**Subject:** Northshore Greenway comment

Please see the following comment on the Northshore Greenway Phase IV project:

Thank you for this opportunity to comment on the Proposed Northshore Greenway – Phase IV project now in its comment period. This is the final phase of a project that was initiated by Maui County in 1992. Its purpose is to provide a non-motorized path connecting Maui’s urban hub in Kahului with rural Paia. The project’s design is aimed at creating a path that would be safe enough for a 10-year old to travel unescorted on a bicycle between the two towns. This final link would connect the two existing, successful ends of the path. There has been ample notice about this proposal and the comment most often heard is “what’s taking so long?” This connection will be a major contribution to Maui’s overall transportation inventory and will provide the residents of Northshore Maui with a valuable transportation option.

David DeLeon  
Government Affairs Director  
REALTORS(R) Association of Maui  
[gad@ram Maui.com](mailto:gad@ram Maui.com)  
808-243-8585



ALAN M. ARAKAWA  
Mayor

DAVID C. GOODE  
Director

ROWENA M. DAGDAG-ANDAYA  
Deputy Director

Telephone: (808) 270-7745  
Fax: (808) 270-7975



COUNTY OF MAUI  
**DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION**

200 SOUTH HIGH STREET  
WAILUKU, MAUI, HAWAII 96793

GLEN A. UENO, P.E., P.L.S.  
Development Services Administration

CARY YAMASHITA, P.E.  
Engineering Division

BRIAN HASHIRO, P.E.  
Highways Division

May 5, 2014

Dave Deleon  
Government Affairs Director  
Realtors Association of Maui  
[gad@RAMaui.com](mailto:gad@RAMaui.com)

**SUBJECT:** Draft Environmental Assessment for the Proposed North Shore Greenway–Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia, Island of Maui, Hawaii

Dear Mr. Deleon:

Thank you for your email correspondence of March 26, 2014 expressing your support for the proposed North Shore Greenway–Phase IV project. We are pleased that the construction of the final Phase of the North Shore Greenway will soon be initiated completing this project which was initiated in 1992.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final Environmental Assessment. Should you have any questions, please feel free to contact Project Engineer Kurt Watanabe at 270-7745.

Sincerely,

A handwritten signature in black ink, appearing to read "David C. Goode".

David C. Goode  
Director of Public Works

DG/KW: gg(ED14-641)

S:\ENGINTRAF\12-35 North Shore Greenway\EA Documents\Rec'd EA Response Letters for DG from MHI\_2014-05-02\DDDeleon.ltr.doc

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.  
Colleen Suyama, Munekiyo & Hiraga, Inc.

**Sent:** Wednesday, April 02, 2014 10:53 AM

**To:** General eMail

**Cc:** 'Jim Hessler'; 'Suzette Hannah-Hessler'; [mark@pedegokailua.com](mailto:mark@pedegokailua.com); 'Chandelle Felter'; [tom@pedego.com](mailto:tom@pedego.com); [Don@pedego.com](mailto:Don@pedego.com); 'Saman Dias'; [ebikeshi@gmail.com](mailto:ebikeshi@gmail.com); [reply@wordpress.com](mailto:reply@wordpress.com)

**Subject:** Northshore Greenway Comments

Aloha;

I would like to go on record in support of the Northshore Greenway project. It makes complete sense to move forward towards completion of this project that has taken to my knowledge 22 years to complete. With the improvement of technology and the advancement of bicycles as alternative means of transportation it only makes sense.

Hawaii is the most oil-

dependent state in the Unites States, with more than 95% of its energy demand coming from imported fossil fuels, resulting in the highest gasoline and electricity prices in America<sup>1</sup>

Furthermore, Hawaii's dependence on petroleum, as its single source of energy, makes its economic security vulnerable to changes in world petroleum markets. Hawaii annually sends billions of dollars overseas and out of its local economy to support its petroleum needs. The vast majority of Hawaii's fuel for electricity generation, as well as transportation, is imported into the State from outside sources. By encouraging Hawaii drivers to adopt an alternatives to conventional ICE vehicles, Hawaii's dependence on imported petroleum can be greatly reduced. Bike and walking paths allow alternatives to Hawaii has a State Bicycle Plan which was established in 1994. It is now 2014 and Hawaii is ranked #35 out of 50 as a Bike Friendly States by the League of American Bicyclists established in 1880.

Let's support the State Bicycle Plan and complete the final portion of the Northshore Greenway Project and bring Hawaii closer to the goals of BIKE PLAN HAWAII in establishing bicycling as a safe and convenient mode of transportation for visitors and community members alike. I support this project an any other project that will enhance safe convenient Bicycling.

Mahalo

*Lee Chamberlain*

**Pedego Maui**

Office: (808) 633-8553 ext. 101

Cell: 925-917-1994

[www.pedegomaui.com](http://www.pedegomaui.com)

RideSmart Maui LLC

**From:** Lee Chamberlain [mailto:Lee@pedegomai.com]  
**Sent:** Thursday, April 10, 2014 9:04 PM  
**To:** General eMail  
**Subject:** North Shore Greenways project

I just returned from the HBL conference in Oahu lead by the Alliance for Biking & Walking and the League for American Bicyclists this week.

There I learned that Hawaii ranks # 8 in Pedestrian fatalities per hundred thousand population. Those statistics alone speak to the need for change to our current roads and pathways. Improving Bicycle and Pedestrian walkways can dramatically change these facts and can benefit the residents and visitors of Maui. This has been accomplished and is evident in many other states which don't have close the lure that Hawaii has to visitors and residents alike.

The conference focus was on educating the attendee's about funding sources for improved Bicycle and Pedestrian path ways. Federal and State funding for such projects originate from the Federal Transportation Bill titled Moving Ahead for Progress in the 21st Century (MAP-21) which retains funding for these types of programs. The fund is 9.6 Billion dollars nationally. Each state is allocated part of this amount.

The conference presenters informed us that Hawaii DOT has not used any of the funds they have received for MAP-21 and the program ends in September 2014.

Here is a link for an overview of MAP-21 funding.....

[http://www.americabikes.org/map\\_21\\_analysis#funding](http://www.americabikes.org/map_21_analysis#funding).

Also an additional link to Bicycle and Pedestrian Federal Funding Resources List

([http://www.advocacyadvance.org/site\\_images/content/Advocacy\\_Advance\\_Federal\\_Funding\\_Resource\\_List1.pdf](http://www.advocacyadvance.org/site_images/content/Advocacy_Advance_Federal_Funding_Resource_List1.pdf)) for your reference.

Some numbers that came out of the conference for the unspent funding that could be spent on Maui consisted Transportation Alternative Program (TAP) Recreational Trails \$958,000, Statewide Anywhere \$1,315,000.00, Rural Areas \$126,000.00 Urban Areas \$411,000.00. Surface Transportation Program (STP) 50% Statewide Anywhere Funds \$21,200,000, Rural Areas \$130,193.00, Urban Areas \$2,212,403.00. The competitive grant process to attain these funds require a Metropolitan Planning Organization MPO which Maui does not have.

I am very interested in supporting Progressive change for the better here on Maui and I cannot see any negative result out of improving our current Bicycle and Pedestrian pathways. They are making some great advancements in Oahu on this subject and we should follow suite immediately.

Hawaii is ranked number 35 for Bike friendly states of our nation. The HDOT staff report that monies spent on the Statewide Transportation Improvement Program (STIP) of 7 billion from 2011 to 2014 reveled 83% of the projects completed are without Bicycle & Pedestrian facilities improvements. HRS 264-18 (2007) requires at least 2% of eligible federal funds be spent on establishing multi-use paths, bicycle paths and bicycle lanes and install signage and safety devices along bikeways.

At the conference we learned the Return on Investment ROI for Bike/Walking paths can be huge. An example is the Outer Banks of North Carolina where their spending was responsible for an annual economic impact of \$60 million and support for 1,407 jobs in the area. So, a one-time expenditure of \$6.7 million spent on the bicycle network results in \$60 million a year — an economic return about nine times the original

expenditure. ([http://www.ncdot.gov/bikeped/download/bikeped\\_research\\_eiafulltechreport.pdf](http://www.ncdot.gov/bikeped/download/bikeped_research_eiafulltechreport.pdf))

We are a world destination that can be a better world destination. The funding is there, the need is there, the benefit is there, so it makes sense to use it. What can I do to assist?

*Lee Chamberlain*

**Pedego Maui**

**Office: (808) 633-8553 ext. 101**

**Cell: 925-917-1994**

**[www.pedegomaui.com](http://www.pedegomaui.com)**

**RideSmart Maui LLC**

**From:** Lee Chamberlain [<mailto:Lee@pedegomaui.com>]  
**Sent:** Sunday, April 13, 2014 12:55 PM  
**To:** [wmta@maui.net](mailto:wmta@maui.net); General eMail; [rowena.dagdag-andaya@mauicounty.gov](mailto:rowena.dagdag-andaya@mauicounty.gov); [sandramau@aol.com](mailto:sandramau@aol.com); [Mckelvey5@capitol.hawaii.gov](mailto:Mckelvey5@capitol.hawaii.gov); [repmckelvey@capitol.hawaii.gov](mailto:repmckelvey@capitol.hawaii.gov); [w.wilson@capitol.hawaii.gov](mailto:w.wilson@capitol.hawaii.gov)  
**Cc:** [chad@hbl.org](mailto:chad@hbl.org); [bobby@hbl.org](mailto:bobby@hbl.org); [jim@pedegomaui.com](mailto:jim@pedegomaui.com); 'Suzette Hannah-Hessler'; [tom@pedego.com](mailto:tom@pedego.com); [Don@pedego.com](mailto:Don@pedego.com); [mark@pedegokailua.com](mailto:mark@pedegokailua.com)  
**Subject:** FW: Keep Maui Roads Safe; Avoid Senseless Killing!

To all that can help;

This is just exactly what I was stating my concern about in my previous communications. How many more people need to die because of the government legislators favoring their funds direction towards ICE vehicle roadways without proper consideration and planning accommodation for bicycle/pedestrian pathways. Maui is an Island that should have a multitude of alternative pathways for bikes and pedestrians. Bicycle/pedestrian pathways can be constructed at a fraction of the cost of ICE vehicle roadways.

You don't have to be a Lance Armstrong to ride a bike any longer. Legislators, for the most part, do not respect the bicycle as a viable means of transportation as they do not use it themselves because they see it as too much work and inconvenience to utilize. Their view is, only a small minority of the population use a bicycle and so they ignore them and allow them *do it at their own risk*.

Bicycles of all kinds are here now that can help ***all people*** transport themselves quickly and efficiently. Even the FAT, SICK and NEARLY DEAD people have an alternative mode of transportation.

With new technologies, the electric powered bicycles have become viable practical methods of transportation more and more people are adopting worldwide. Electric bikes flatten out the world and bring fun back to bicycling for the ***EVERYONE***.

The part that is lacking in Hawaii is the infrastructure to do so. Hawaii is ranked number 35 of bike friendly states and number 8 as having the most pedestrian fatalities per 100,000 population among our 50 states. Another needless fatality has just occurred. Let's think hard about bicycles as an alternative economical safe mode of transportation for ***everyone***, and how we can support these amazing proven conveyances by making safe passageways for bicycles and walkers alike.

*Lee Chamberlain*

**Pedego Maui**

Office: (808) 633-8553 ext. 101

Cell: 925-917-1994

[www.pedegomaui.com](http://www.pedegomaui.com)

RideSmart Maui LLC

**From:** Chad Taniguchi [<mailto:chad@hbl.org>]  
**Sent:** Sunday, April 13, 2014 1:07 PM  
**To:** Walter Enomoto; Bill Darrah; Denise DeJoseph; Saman Dias; [rowena.dagdag-andaya@mauicounty.gov](mailto:rowena.dagdag-andaya@mauicounty.gov); Sandra  
**Subject:** Keep Maui Roads Safe; Avoid Senseless Killing!

Aloha Maui Safe Roads Supporters!

I am about to send this press release out today. I would appreciate your comments by 5pm today if possible.

Walter, please forward to Ray Glauser and cc me so I can get his email address. Mahalo, Chad

-----  
For immediate release:

Hawaii Bicycling League  
Chad Taniguchi, Executive Director  
[chad@hbl.org](mailto:chad@hbl.org) 808 255 8271

### **Tragic and Needless Cyclist Death on Maui: Drivers Must Use Extra Caution for Vulnerable Users!**

The Hawaii Bicycling League extends our condolences to the family of Karl Hagen, who was hit from behind (by a truck driver who didn't stay in the lane), and was killed Saturday, on Honoapiilani Highway, Kihei. Karl was hit while bicycling in a bike lane, a separated space for bicyclists to ride, safe from motorists. <http://www.staradvertiser.com/news/breaking/255060261.html?id=255060261>

#### Apply the Vulnerable User Law

The Hawaii Bicycling League calls for the application of the state's Vulnerable User Law (see below) in this case. When a motorist breaks the law and kills or seriously injures a pedestrian, bicyclist, wheelchair user, road worker, police officer, or other person on the street (who is following the law), the lawbreaking motorist is subject to more severe punishment, such as elevating a misdemeanor to a felony. The purpose of the Vulnerable User Law is to remind all motorists to exercise extra care whenever they are driving near vulnerable users. Our human bodies are no match for a vehicle weighing 20-50 times more than us, traveling at a speed that increases the force of impact into a deadly blow.

#### Pedestrians and Bicyclists Must Also Follow the Law

While motorists need to be vigilant, vulnerable users must also follow the law, as Karl was doing, and watch out for hazards on the road, including cars and trucks. Bicyclists also have a duty to treat pedestrians with extra care.

#### Everyone Has the Right to Be Safe on Our Roads

Advocating for safety on Hawaii's roads is a tradition that goes back to King Kamehameha, and very likely before him. Public roads and trails are for everyone to use and we have a mutual obligation to each other to use roads safely. Kamehameha proclaimed the Law of the Splintered Paddle (Mamalahoe Kanawai) in 1797, which stands for the principle that everyone has the right to be safe on Hawaii's roads. "E hele a moe i ke

ala." <http://www.hawaii.edu/uhelp/files/LawOfTheSplinteredPaddle.pdf>

This was made part of the Hawaii State Constitution in 1978.

#### Learn to Drive Safely Around Pedestrians and Bicyclists

The Hawaii Bicycling League is a 39-year old Hawaii 501c3 nonprofit whose mission is to enable more people to ride bicycles for health, recreation and transportation through advocacy, education, and events. Please see [www.hbl.org](http://www.hbl.org) to see the range of education, advocacy, and

events to promote safe and enjoyable cycling. Bicycling is fun, healthy, environmentally friendly, and saves money. The Hawaii Bicycling League teaches a workshop called Walk Bike Drive <http://www.hbl.org/walkbikedrive>, which teaches motorists how to be careful and safe around bicyclists and pedestrians.

Keep the No-Cellphone-While-Driving Law Strong and Effective

The Hawaii Bicycling League, police, and prosecutors, and many concerned people are fighting to keep Hawaii's "no use of cellphone while driving" law (HRS 291C-137) strong by retaining the principle that holding a cellphone while driving a car must be banned. Cellphone use should only occur when a driver is off the roadway with the car motor off. Proposed amendments threaten to make the law unenforceable. See testimonies on SB2729

[http://www.capitol.hawaii.gov/measure\\_indiv.aspx?billtype=SB&billnumber=2729](http://www.capitol.hawaii.gov/measure_indiv.aspx?billtype=SB&billnumber=2729), and HB1509

[http://www.capitol.hawaii.gov/measure\\_indiv.aspx?billtype=HB&billnumber=1509&year=2014](http://www.capitol.hawaii.gov/measure_indiv.aspx?billtype=HB&billnumber=1509&year=2014).

Tell Rep Yamane and Senator English You Want the No Cellphone Law Kept Strong!

Please support keeping the bill strong to eliminate distracted driving, which is dangerous and deadly. Please tell the House & Senate Transportation Committee Chairs Representative Ryan Yamane [repyamane@capitol.hawaii.gov](mailto:repyamane@capitol.hawaii.gov) 808-586-6150 and Senator Kalani English [senenglish@capitol.hawaii.gov](mailto:senenglish@capitol.hawaii.gov) 808-587-7225 that you want to keep the current law as is to prevent future roadway deaths from cellphone use.

-----  
Hawaii's Vulnerable User Law passed in 2012:

[http://www.capitol.hawaii.gov/hrscurrent/Vol14\\_Ch0701-0853/HRS0707/HRS\\_0707-0700.htm](http://www.capitol.hawaii.gov/hrscurrent/Vol14_Ch0701-0853/HRS0707/HRS_0707-0700.htm)

[http://www.capitol.hawaii.gov/hrscurrent/Vol14\\_Ch0701-0853/HRS0707/HRS\\_0707-0702\\_0005.htm](http://www.capitol.hawaii.gov/hrscurrent/Vol14_Ch0701-0853/HRS0707/HRS_0707-0702_0005.htm)

[http://www.capitol.hawaii.gov/hrscurrent/Vol14\\_Ch0701-0853/HRS0707/HRS\\_0707-0703.htm](http://www.capitol.hawaii.gov/hrscurrent/Vol14_Ch0701-0853/HRS0707/HRS_0707-0703.htm)

[http://www.capitol.hawaii.gov/hrscurrent/Vol14\\_Ch0701-0853/HRS0707/HRS\\_0707-0704.htm](http://www.capitol.hawaii.gov/hrscurrent/Vol14_Ch0701-0853/HRS0707/HRS_0707-0704.htm)

[http://www.capitol.hawaii.gov/hrscurrent/Vol14\\_Ch0701-0853/HRS0707/HRS\\_0707-0705.htm](http://www.capitol.hawaii.gov/hrscurrent/Vol14_Ch0701-0853/HRS0707/HRS_0707-0705.htm)

*Bicycle Aloha! Chad*

*Everyone has the right to be safe on Hawaii's roads.*

Mamalahoe Kanawai, Kamehameha's Law of the Splintered Paddle 1797, Hawaii state constitution 1978

Executive Director Hawaii Bicycling League 3442 Waiālae Ave Suite 1, Honolulu, HI 96816  
[chad@hbl.org](mailto:chad@hbl.org) cell 808 255 8271 office 808 735 5756 fax 808 735 7989 [www.hbl.org](http://www.hbl.org)



ALAN M. ARAKAWA  
Mayor

DAVID C. GOODE  
Director

ROWENA M. DAGDAG-ANDAYA  
Deputy Director

Telephone: (808) 270-7745  
Fax: (808) 270-7975

COUNTY OF MAUI  
**DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION**

200 SOUTH HIGH STREET  
WAILUKU, MAUI, HAWAII 96793

GLEN A. UENO, P.E., P.L.S.  
Development Services Administration

CARY YAMASHITA, P.E.  
Engineering Division

BRIAN HASHIRO, P.E.  
Highways Division

May 5, 2014

Lee Chamberlain  
Pedego Maui  
[lee@pedego.com](mailto:lee@pedego.com)

**SUBJECT:** Draft Environmental Assessment for the Proposed North Shore Greenway–Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia, Island of Maui, Hawaii

Dear Mr. Chamberlain:

Thank you for your email correspondence of April 2, 10, and 13, 2014 expressing your support for the proposed North Shore Greenway–Phase IV project, as well as general information on pedestrian and bicycle pathways and your concern for fatalities along our highways. Kurt Watanabe the project engineer has been in contact with you to discuss your concerns in your email correspondences of April 10 and 13. Please be assured that the Department of Public Works will continue to incorporate greenways within our communities to provide safe pedestrian and bicycle pathways.

As noted in your email, the County of Maui's North Shore Greenway project supports bike and walking paths as an alternative mode of transportation and the reduction in the use of fossil fuels. We are pleased that the construction of the final Phase of the North Shore Greenway will be initiated, thereby completing this project which began in 1992.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final Environmental Assessment. Should you have any questions, please feel free to contact Project Engineer Kurt Watanabe at 270-7745.

Sincerely,

David C. Goode  
Director of Public Works

DG/KW: gg(ED14-646)

S:\ENGIEN\TRAF\12-35 North Shore Greenway\EA Documents\Rec'd EA Response Letters for DG from MHL\_2014-05-02\LChamberlain.ltr.doc

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.  
Colleen Suyama, Munekiyo & Hiraga, Inc.



**From:** Saman Dias [<mailto:Saman@Pedegomaui.com>]  
**Sent:** Wednesday, April 02, 2014 11:09 AM  
**To:** General eMail  
**Subject:** Northshore Greenway Comments

I would like to go on record in support of the Northshore Greenway project. It makes complete sense to move forward towards completion of this project that has taken to my knowledge 22 years to complete. With the improvement of technology and the advancement of bicycles as alternative means of transportation it only makes sense.

Hawaii is the most oil-

dependent state in the Unites States, with more than 95% of its energy demand coming from imported fossil fuels, resulting in the highest gasoline and electricity prices in America<sup>1</sup>

Furthermore, Hawaii's dependence on petroleum, as its single source of energy, makes its economic security vulnerable to changes in world petroleum markets. Hawaii annually sends billions of dollars overseas and out of its local economy to support its petroleum needs. The vast majority of Hawaii's fuel for electricity generation, as well as transportation, is imported into the State from outside sources. By encouraging Hawaii drivers to adopt alternatives to conventional ICE vehicles, Hawaii's dependence on imported petroleum can be greatly reduced. Bike and walking paths allow alternatives to Hawaii has a State Bicycle Plan which was established in 1994. It is now 2014 and Hawaii is ranked #35 out of 50 as a Bike Friendly States by the League of American Bicyclists established in 1880.

Let's support the State Bicycle Plan and complete the final portion of the Northshore Greenway Project and bring Hawaii closer to the goals of BIKE PLAN HAWAII in establishing bicycling as a safe and convenient mode of transportation for visitors and community members alike. I support this project and any other project that will enhance safe convenient Bicycling.

Mahalo  
Saman

Please "Like" [Pedego Maui Facebook](#) page to see our progress.

*hele. Pun...*

*Saman Dias*

**Pedego Maui**  
**Office: (808) 633-8553 ext 100**  
**Cell: 925-765-3592**  
**[www.pedegomaui.com](http://www.pedegomaui.com)**

ALAN M. ARAKAWA  
Mayor

DAVID C. GOODE  
Director

ROWENA M. DAGDAG-ANDAYA  
Deputy Director

Telephone: (808) 270-7745  
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COUNTY OF MAUI  
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Development Services Administration

CARY YAMASHITA, P.E.  
Engineering Division

BRIAN HASHIRO, P.E.  
Highways Division

May 5, 2014

Saman Dias  
Pedego Maui  
[saman@pedego.com](mailto:saman@pedego.com)

**SUBJECT:** Draft Environmental Assessment for the Proposed North Shore Greenway–Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia, Island of Maui, Hawaii

Dear Ms. Dias:

Thank you for your email correspondence of April 2, 2014 expressing your support for the proposed North Shore Greenway–Phase IV project. As noted in your email the County of Maui's North Shore Greenway project supports bike and walking paths as an alternative mode of transportation and the reduction in the use of fossil fuels. We are pleased that the construction of the final Phase of the North Shore Greenway will soon be initiated completing this project which began in 1992.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final Environmental Assessment. Should you have any questions, please feel free to contact Project Engineer Kurt Watanabe at 270-7745.

Sincerely,

A handwritten signature in black ink, appearing to read "David C. Goode".

David C. Goode  
Director of Public Works

DG/KW: gq(ED14-651)

S:\ENGIEN\TRAF\12-35 North Shore Greenway\EA Documents\Rec'd EA Response Letters for DG from MHI\_2014-05-02\SDias.Ilr.doc

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.  
Colleen Suyama, Munekiyo & Hiraga, Inc.

APR 02 2014

Department of Public Works  
David Goode, Director  
200 S. High St  
Wailuku, Hawaii 96793

Re: North Shore Greenway

I wish to compliment the Department of Public Works for the announced future completion of the North Shore Greenway. I recall attending a 'Bicycle Alliance' meeting at the Kaunoa Senior Center several years ago at which you addressed this issue.

One other comment I wish to make pertains to maintenance of bicycle pathways. From my observation, along with other bicyclists, the issue of maintaining the pathways is sorely lacking. An example is the section of the North Shore Greenway between Stable Road and the Kaunoa Center. Currently the width of the bikeway is reduced to one-half the original width due to weed overgrowth and overhanging branches from trees on adjoining private property.

In the past several years I have observed , on two occasions, the weed abatement provided by 'trustees' from MCCC, and it appears that this is sporadic maintenance. The same lack of oversight is apparent on the Mokulele bike path. Weed encroachment is prevalent and destructive to the bike path surface.

Hopefully a solution to maintenance will also be forthcoming. Thank you again for moving forward to the completion of the North Shore Greenway.

Sincerely,

Handwritten signature of Wesley Anderson in black ink.

Wesley Anderson  
2806 Kalialani Circle, Pukalani  
(808)572-5809

cc Colleen Suyama,  
Editor, Maui News

ALAN M. ARAKAWA  
Mayor

DAVID C. GOODE  
Director

ROWENA M. DAGDAG-ANDAYA  
Deputy Director

Telephone: (808) 270-7745  
Fax: (808) 270-7975



COUNTY OF MAUI  
**DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION**

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GLEN A. UENO, P.E., P.L.S.  
Development Services Administration

CARY YAMASHITA, P.E.  
Engineering Division

BRIAN HASHIRO, P.E.  
Highways Division

May 5, 2014

Wesley Anderson  
2806 Kalialani Circle  
Pukalani, Hawaii 96768

**SUBJECT:** Draft Environmental Assessment for the Proposed North Shore Greenway–Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia, Island of Maui, Hawaii

Dear Mr. Anderson:

Thank you for your letter received on April 2, 2014 expressing your support for the proposed North Shore Greenway–Phase IV project. We are pleased that the construction of the final Phase of the North Shore Greenway will soon be initiated completing this project which began in 1992. We note that the Highways Division of the Department of Public Works will be following up to address weed maintenance concerns you have raised.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final Environmental Assessment. Should you have any questions, please feel free to contact Project Engineer Kurt Watanabe at 270-7745.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Goode", is written over a faint, larger version of the signature.

David C. Goode  
Director of Public Works

DG/KW: gq(ED14-654)

S:\ENGI\ENGR\AF\12-35 North Shore Greenway\EA Documents\Rec'd EA Response Letters for DG from MHI\_2014-05-02\WAnderson.ltr.doc

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.  
Colleen Suyama, Munekiyo & Hiraga, Inc.

**From:** James Hessler [mailto:jhessler@pacbell.net]  
**Sent:** Sunday, April 06, 2014 5:36 AM  
**To:** General eMail  
**Subject:** Greenway Bike Path Plan

Dear Planning Group,

We are very much in favor of developing more bike paths and lane marking for bikes on Maui. Please continue to develop bike paths and lane markings to encourage and support bike riders on Maui.

Thank you,

Jim and Suzette Hessler  
3950 Kalai Waa C103  
Wailea

James M. Hessler, Ph.D.  
The Shamrock Company, LLC

**From:** [shannahhessler@gmail.com](mailto:shannahhessler@gmail.com) [mailto:[shannahhessler@gmail.com](mailto:shannahhessler@gmail.com)] **On Behalf Of** Suzette Hannah-Hessler  
**Sent:** Sunday, April 06, 2014 6:56 AM  
**To:** General eMail  
**Subject:** Support the Northshore Greenway Project!

Aloha!

I would like to go on record in support of the Northshore Greenway project. With improvements in technology and the advancement of bicycles as alternative means of transportation this project completion will enable safe, fun and eco-friendly transportation.

Let's support the State Bicycle Plan and complete the final portion of the Northshore Greenway Project and bring Hawaii closer to the goals of the BIKE PLAN HAWAII in establishing bicycling as a safe and convenient mode of transportation for visitors and community members alike. I support this project and all projects that will enhance safe and convenient Bicycling.

Best,

Suzette Hannah-Hessler

3950 Kalai Waa, C103

Wailea, HI 96753

*helo, fun...*

*Suzette Hannah-Hessler*

**Pedego Maui**

**Office: (808) 633-8553 ext 103**

**[www.pedegomaui.com](http://www.pedegomaui.com)**

ALAN M. ARAKAWA  
Mayor

DAVID C. GOODE  
Director

ROWENA M. DAGDAG-ANDAYA  
Deputy Director

Telephone: (808) 270-7745  
Fax: (808) 270-7975



COUNTY OF MAUI  
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ENGINEERING DIVISION**

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Development Services Administration

CARY YAMASHITA, P.E.  
Engineering Division

BRIAN HASHIRO, P.E.  
Highways Division

May 5, 2014

James and Suzette Hessler  
3950 Kalai Waa, C-103  
Wailea, Hawaii 96753

**SUBJECT:** Draft Environmental Assessment for the Proposed North Shore Greenway—Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia, Island of Maui, Hawaii

Dear Mr. and Ms. Hessler:

Thank you for your email correspondences of April 6, 2014 expressing your support for the proposed North Shore Greenway—Phase IV project. The County of Maui's North Shore Greenway project supports the goals of Bike Plan Hawaii by providing bike and walking paths as an alternative mode of transportation. We are pleased that the construction of the final Phase of the North Shore Greenway will soon be initiated completing this project which began in 1992.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final Environmental Assessment. Should you have any questions, please feel free to contact Project Engineer Kurt Watanabe at 270-7745.

Sincerely,

David C. Goode  
Director of Public Works

DG/KW: gq(ED14-644)

S:\ENGIENGR\12-35 North Shore Greenway\EA Documents\Rec'd EA Response Letters for DG from MHI\_2014-05-02\J&SHessler.ltr.doc

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.  
Colleen Suyama, Munekiyo & Hiraga, Inc.

Colleen Suyama  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, HI 96793

Re: Northshore Greenway Final Phase

April 9, 2014

Dear Mrs. Colleen Suyama,

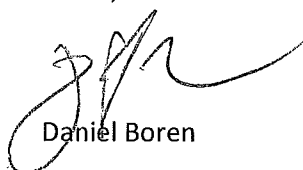
I am writing you today to voice my strong support for the final phase of the North Shore Greenway. This path, which has been 20 years in the making, will be a wonderful asset for the North Shore Maui community, where I have lived for nearly 30 years. With the completion of the North Shore Greenway my family will be able to safely walk or bike between our home in Spreckelsville and Paia town.

My family and I are frequent users of the current installed portions of the Northshore Greenway, but without this connecting segment the path is unfinished and leaves a dangerous segment of highway to traverse for those of us looking to travel between Paia and Spreckelsville by bike.

We believe that the North Shore Greenway is the type of project that makes Maui a great place to live. It supports an active, healthy lifestyle for residents and visitors alike. It also helps to reduce traffic by providing area residents with a safe way to travel to the beach or to town without needing to get in their car. As we all know, the traffic leading into Paia can be horrendous - and this path will help to save many of the short car trips that so many folks in Spreckelsville make to Paia by car, and so many folks from Paia and Kuau make to Spreckelsville to go to the beach.

Thank you for seeing this project through to completion, and please prioritize separated bike paths on Maui as they support the health and safety of Maui residents, while reducing traffic and fostering a sense of community connectedness.

Aloha,



Daniel Boren







ALAN M. ARAKAWA  
Mayor

DAVID C. GOODE  
Director

ROWENA M. DAGDAG-ANDAYA  
Deputy Director

Telephone: (808) 270-7745  
Fax: (808) 270-7975

COUNTY OF MAUI  
**DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION**

200 SOUTH HIGH STREET  
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GLEN A. UENO, P.E., P.L.S.  
Development Services Administration

CARY YAMASHITA, P.E.  
Engineering Division

BRIAN HASHIRO, P.E.  
Highways Division

May 5, 2014

Daniel Boren  
2445 Waipua St.  
Paia, Hawaii 96779

**SUBJECT:** Draft Environmental Assessment for the Proposed North Shore Greenway–Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia, Island of Maui, Hawaii

Dear Mr. Boren:

Thank you for your letter dated April 9, 2014 expressing your support for the proposed North Shore Greenway–Phase IV project. We are pleased that the construction of the final Phase of the North Shore Greenway will be initiated, thereby completing this project which began in 1992.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final Environmental Assessment. Should you have any questions, please feel free to contact Project Engineer Kurt Watanabe at 270-7745.

Sincerely,

David C. Goode  
Director of Public Works

DG/KW: gq(ED14-640)

S:\ENGINTRA\F12-35 North Shore Greenway\EA Documents\Rec'd EA Response Letters for DG from MHI\_2014-05-02\Boren.Ilr.doc

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.  
Colleen Suyama, Munekiyo & Hiraga, Inc.

Munekiyo & Hiraga, Inc.,  
Attn: Colleen Suyama  
305 High Street, Suite 104,  
Wailuku, HI 96793.

April 22, 2014

Aloha Ms. Suyama.

I would like to provide positive testimony in support of the Northshore Greenway Phase IV DEA.

After more than 20 years, 4 Mayoral Administrations, 10 County Councils, thousands of hours of volunteer work and effort, it is about time that the Northshore Greenway is nearing completion with this last phase of development.

This project was envisioned on the early 1990's by bicycling advocates and community members. Little did anyone know that it would take over 20 yrs to complete a "simple" greenway for people to exercise, use as a transportation corridor and enjoy Maui w/o having to default to the automobile.

Fears that the greenway would bring rampant crime, theft, assaults and all other forms of crimes have largely been a non-issue by those who have used the completed greenway sections for many years. In fact, with MORE people using the greenway, the criminal element has been driven out of areas where they may have been using such as near the Airports vegetative areas.

Without this past phase, cyclists and others are stranded on either side of the greenway. Cyclists heading east must cross over to Hana Hwy which makes this more hazardous for younger or less experienced riders. Cyclists riding east to Paia on the makai side of Hana Hwy face oncoming traffic and this action puts them at greater risk of injury or death should any oncoming vehicle heading west along Hana Hwy veer off the road.

The proposed installed curb along with recommended rumble strips along the makai side of Hana Hwy should help to keep motorists from veering out of the travel lane.

In closing, I would like to thank the Arakawa Administration for moving forward this project towards completion.

Aloha and Mahalo

**Walter Enomoto**

293 S. Mokapu St.

Kahului, HI 96732

Email: walter.enomoto@hawaiiantel.net

ALAN M. ARAKAWA  
Mayor

DAVID C. GOODE  
Director

ROWENA M. DAGDAG-ANDAYA  
Deputy Director

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COUNTY OF MAUI  
**DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION**

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GLEN A. UENO, P.E., P.L.S.  
Development Services Administration

CARY YAMASHITA, P.E.  
Engineering Division

BRIAN HASHIRO, P.E.  
Highways Division

May 5, 2014

Walter Enomoto  
293 S. Mokapu St.  
Kahului, Hawaii 96732

**SUBJECT:** Draft Environmental Assessment for the Proposed North Shore Greenway–Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia, Island of Maui, Hawaii

Dear Mr. Enomoto:

Thank you for your letter dated April 22, 2014 expressing your support for the proposed North Shore Greenway–Phase IV project. We are pleased that the construction of the final Phase of the North Shore Greenway will be initiated, thereby completing this project which began in 1992.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final Environmental Assessment. Should you have any questions, please feel free to contact Project Engineer Kurt Watanabe at 270-7745.

Sincerely,

A handwritten signature in black ink, appearing to read "David C. Goode", is written over a faint, larger version of the same signature.

David C. Goode  
Director of Public Works

DG/KW: gq(ED14-655)

S:\ENGIENGR\AF\12-35 North Shore Greenway\EA Documents\Rec'd EA Response Letters for DG from MHI\_2014-05-02\WEnomoto.ltr.doc

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.  
Colleen Suyama, Munekiyo & Hiraga, Inc.



April 22, 2014

Mr. David Goode, Director  
County of Maui, Department of Public Works  
200 S. High St.  
Wailuku, HI 6793

Ms. Colleen Suyama, Senior Associate  
Munrkiyo & Hiraga, Inc.  
305 S. High St. Suite 104  
Wailuku, HI 96793

Dear Mr. Goode and Ms. Suyama:

The Nutrition & Physical Activity Coalition of Maui County (NPAC) wholeheartedly supports the completion of the North Shore Greenway.

We have reviewed the draft environmental assessment and are pleased with the proposed route of Phase IV to complete the path connecting Pā`ia town and Kahului.

The greenway, when completed, will support objectives and policies of Chapter 226, HRS, the Hawai`i State Plan, the General Plan of the County of Maui, the Maui Island Plan, and the Pā`ia-Hā`iku Community Plan.

A recent [www.activelivingresearch.org](http://www.activelivingresearch.org) brief said, "Promoting physical activity among children and adults is a priority national health objective in the United States. Regular physical activity lowers the risk of chronic diseases and is an important strategy for reversing the obesity epidemic.


The built environment can positively influence physical activity for both recreational and transportation purposes."

Users of community trails cite fitness and health, relaxation and solitude, fun and enjoyment, being outdoors and learning about nature as benefits associated with using trails.

Also, National Medical Expenditure Survey data indicate that for every \$1 spent on trails, nearly \$3 in savings in direct medical costs was realized.

Mahalo for your commitment to ensure that this very important community project is completed.

Sincerely,

  
Sandra McGuinness,  
Coordinator

ALAN M. ARAKAWA  
Mayor

DAVID C. GOODE  
Director

ROWENA M. DAGDAG-ANDAYA  
Deputy Director

Telephone: (808) 270-7745  
Fax: (808) 270-7975



COUNTY OF MAUI  
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ENGINEERING DIVISION**

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Development Services Administration

CARY YAMASHITA, P.E.  
Engineering Division

BRIAN HASHIRO, P.E.  
Highways Division

May 5, 2014

Sandra McGuinness, Coordinator  
Nutrition Physical Activity Coalition of Maui County  
Maui County Coalition  
P.O. Box 769  
Makawao, Hawaii 96768

**SUBJECT:** Draft Environmental Assessment for the Proposed North Shore Greenway—Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia, Island of Maui, Hawaii

Dear Ms. McGuinness:

Thank you for your letter dated April 22, 2014 expressing your support for the proposed North Shore Greenway—Phase IV project. We are pleased that the construction of the final Phase of the North Shore Greenway will be initiated, thereby completing this project which began in 1992.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final Environmental Assessment. Should you have any questions, please feel free to contact Project Engineer Kurt Watanabe at 270-7745.

Sincerely,

A handwritten signature in black ink, appearing to read "David C. Goode".

David C. Goode  
Director of Public Works

DG/KW: gq(ED14-653)

S:\ENGINTRAF\12-35 North Shore Greenway\EA Documents\Rec'd EA Response Letters for DG from MHI\_2014-05-02\SMcGuinness.ltr.doc

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.  
Colleen Suyama, Munekiyo & Hiraga, Inc.

**From:** Katharine Popenuk [<mailto:katharine@mauiarch.com>]  
**Sent:** Tuesday, April 22, 2014 1:43 PM  
**To:** General eMail  
**Subject:** North Shore Greenway

April 22, 2014

Ms. Colleen Suyama , Senior Associate  
Munikiyo & Hiraga, Inc.  
305 S. High St. Suite 104  
Wailuku, HI 96793

Dear Ms. Suyama :

I wish to express my support for the completion of the North Shore Greenway, completing the path connecting Pa'ia town and Kahului. It is step in the right direction to make Maui a health and fitness destination. I hope someday we will have a system of walking paths and bike trails similar to that which I viewed on Kauai.

Mahalo for your commitment to ensure that this very important community project is completed.

Sincerely,

Katharine Popenuk, Architect

[popenuk@gmail.com](mailto:popenuk@gmail.com) visit us at [www.PacificArchitect.com](http://www.PacificArchitect.com)

**Pacific Architect, Ilc.**

P. O. Box 790-514., Paia, HI 96779 Phone (808) 280-6921

ALAN M. ARAKAWA  
Mayor

DAVID C. GOODE  
Director

ROWENA M. DAGDAG-ANDAYA  
Deputy Director

Telephone: (808) 270-7745  
Fax: (808) 270-7975



COUNTY OF MAUI  
**DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION**

200 SOUTH HIGH STREET  
WAILUKU, MAUI, HAWAII 96793

GLEN A. UENO, P.E., P.L.S.  
Development Services Administration

CARY YAMASHITA, P.E.  
Engineering Division

BRIAN HASHIRO, P.E.  
Highways Division

May 5, 2014

Katharine Popenuk  
Pacific Architect, llc  
P.O. Box 790-514  
Paia, Hawaii 96779

**SUBJECT:** Draft Environmental Assessment for the Proposed North Shore Greenway–Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia, Island of Maui, Hawaii

Dear Ms. Popenuk:

Thank you for your email correspondence sent on April 22, 2014 expressing your support for the proposed North Shore Greenway–Phase IV project. We are pleased that the construction of the final Phase of the North Shore Greenway will be initiated, thereby completing this project which began in 1992.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your email correspondence will be included in the Final Environmental Assessment. Should you have any questions, please feel free to contact Project Engineer Kurt Watanabe at 270-7745.

Sincerely,

David C. Goode  
Director of Public Works

DG/KW: gq(ED14-645)

S:\ENGIENGR\AF\12-35 North Shore Greenway\EA Documents\Rec'd EA Response Letters for DG from MHI\_2014-05-02\KPopenuk.llr.doc

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.  
Colleen Suyama, Munekiyo & Hiraga, Inc.



Alec Stewart  
271B Kahiko Street  
Paia, HI, 96779  
808-579-8689  
alec@velocitek.com

April 10, 2014

Colleen Suyama  
Senior Associate  
Munekiyo & Hiraga Inc.  
305 High St., Suite 104  
Wailuku, HI, 96793

Dear Ms. Suyama:

I am writing to comment on the Draft Environmental Assessment for Phase IV of the North Shore Greenway.

As someone who lives and works in Paia, I am strongly in support of completing the North Shore Greenway without further delay.

I found the Draft Assessment to be a very well-researched, thorough and well written document. I am, however, concerned that there are several areas where the assessment overlooks the positive impact that the project will have.

### **Traffic**

On page 29, under the headings INFRASTRUCTURE>Roadways>Potential Impacts and Mitigation Measures the document states,

"The proposed NSG Phase IV project ... will not affect existing vehicular traffic conditions along Hana Highway."

I don't think this is accurate; the NSG Phase IV project has the potential to help alleviate the severe congestion that occurs on Hana Highway during the afternoon rush hour.

Spreckelsville residents currently take many trips to Paia every day to buy

groceries, visit restaurants and use the post office. Despite the fact that Spreckelsville is within easy cycling distance of Paia virtually none of these trips are currently taken by bicycle. The reason for this is that riding one's bicycle from Sprecks to Paia currently requires cycling on the shoulder of Hana Highway, a few feet away from automotive traffic that is moving upwards of 50 mph. Even for experienced cyclists, this is very stressful.

NSG Phase IV will completely change this by making the ride from Sprecks to Paia a safe, relaxing experience. As a result, a much bigger percentage of Sprecks to Paia trips will be taken by bicycle. This will mean fewer cars on the road and fewer traffic jams for commuters passing through Paia.

During rush hour congestion, cycling from Sprecks to Paia is much faster than driving. This will serve as a further incentive for Spreckelsville residents to make their trips to Paia by bicycle, with the end result of helping other commuters get home faster.

### **Economic Impact**

On page 25, under the headings SOCIO-ECONOMIC ENVIRONMENT>Population and Economy>Potential Impacts and Mitigation Measures, the document states,

"There are no significant project-related economic impacts from a long-term perspective."

I believe that by connecting Paia to the NSG, Phase IV will create an opportunity for beach cruiser bicycle rentals in Paia, either as an extension of the existing bike shop (Maui Cyclery) or in the form of new businesses. The strong viability of this type of business has been demonstrated on Oahu by North Shore Bike Rentals in Haleiwa.

The creation of this business opportunity is a significant long-term economic impact.

**Public Health**

On page 61, heading number five states,

“The Proposed Action Does Not Affect Public Health”

The completion of the NSG will make it safer and more convenient for Maui residents of all ages to get aerobic exercise. Aerobic exercise is a major factor in preventing heart disease and diabetes. I believe that the completion of the NSG will, therefore, have a positive impact on public health.

Thank you very much for taking the time to read my comments. I hope you will keep them in mind as you prepare the final copy of the assessment.

Sincerely,

A handwritten signature in black ink, appearing to read "Alec Stewart". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Alec Stewart

ALAN M. ARAKAWA  
Mayor

DAVID C. GOODE  
Director

ROWENA M. DAGDAG-ANDAYA  
Deputy Director

Telephone: (808) 270-7745  
Fax: (808) 270-7975



COUNTY OF MAUI  
**DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION**

200 SOUTH HIGH STREET  
WAILUKU, MAUI, HAWAII 96793

GLEN A. UENO, P.E., P.L.S.  
Development Services Administration

CARY YAMASHITA, P.E.  
Engineering Division

BRIAN HASHIRO, P.E.  
Highways Division

May 5, 2014

Alec Stewart  
271B Kahiko Street  
Paia, Hawaii 96779

**SUBJECT:** Draft Environmental Assessment for the Proposed North Shore Greenway—Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia, Island of Maui, Hawaii

Dear Mr. Stewart:

Thank you for your letter dated April 10, 2014 expressing your support for the proposed North Shore Greenway—Phase IV (NSG-IV) project. We are pleased that the construction of the final Phase of the North Shore Greenway will be initiated, thereby completing this project which began in 1992.

The following responses address your comments in the order listed in your letter:

**Traffic:**

We acknowledge that the proposed NSG-IV project will provide a safe alternative to use of the automobile between Spreckelsville and Paia, which may reduce the daily vehicular trips from Spreckelsville.

**Economic Impact:**

We acknowledge the NSG-IV project may provide opportunity for business growth and sustainability for bicycle operators in Paia Town.

**Public Health:**

We acknowledge that the NSG-IV project may improve the health of residents by providing a safe place for residents to exercise by walking or bicycling.

Alec Stewart

SUBJECT: Draft Environmental Assessment for the Proposed North Shore Greenway—Phase IV  
Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-of-Way), and (2)2-  
5-005:046 (por.), Paia, Island of Maui, Hawaii

May 5, 2014

Page 2

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final Environmental Assessment. Should you have any questions, please feel free to contact Project Engineer Kurt Watanabe at 270-7745.

Sincerely,



David C. Goode  
Director of Public Works

DG/KW: gq(ED14-639)

S:\ENGIN\ENGR\AF12-35 North Shore Greenway\EA Documents\Rec'd EA Response Letters for DG from MHL\_2014-05-02\AStewart.ltr.doc

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.  
Colleen Suyama, Munekiyo & Hiraga, Inc.

**From:** [mike@2ofg.com](mailto:mike@2ofg.com) [mailto:mike@2ofg.com]  
**Sent:** Tuesday, April 22, 2014 8:42 PM  
**To:** [david.goode@co.maui.hi.us](mailto:david.goode@co.maui.hi.us)  
**Cc:** Colleen Suyama  
**Subject:** Maui Greenway support

April 22, 2014

Mr. David Goode, Director  
County of Maui, Department of Public Works  
200 S. High St.  
Wailuku, HI 6793

Ms. Colleen Suyama, Senior Associate  
Munrkiyo & Hiraga, Inc.  
305 S. High St. Suite 104  
Wailuku, HI 96793

Dear Mr. Goode and Ms. Suyama:

We wholeheartedly support the completion of the North Shore Greenway.

I have reviewed the draft environmental assessment and are pleased with the proposed route of Phase IV to complete the path connecting Pā`ia town and Kahului.

The greenway, when completed, will support objectives and policies of Chapter 226, HRS, the Hawai`i State Plan, the General Plan of the County of Maui, the Maui Island Plan, and the Pā`ia-Hā`iku Community Plan.

A recent [www.activelivingresearch.org](http://www.activelivingresearch.org) brief said, "Promoting physical activity among children and adults is a priority national health objective in the United States. Regular physical activity lowers the risk of chronic diseases and is an important strategy for reversing the obesity epidemic.

The built environment can positively influence physical activity for both recreational and transportation purposes."

Users of community trails cite fitness and health, relaxation and solitude, fun and enjoyment, being outdoors and learning about nature as benefits associated with using trails.

Also, National Medical Expenditure Survey data indicate that for every \$1 spent on trails, nearly \$3 in savings in direct medical costs was realized.

Mahalo for your commitment to ensure that this very important community project is completed.

Sincerely,

Mike & Jodi Ottman  
78 Aleiki  
Paia, HI  
96779

ALAN M. ARAKAWA  
Mayor

DAVID C. GOODE  
Director

ROWENA M. DAGDAG-ANDAYA  
Deputy Director

Telephone: (808) 270-7745  
Fax: (808) 270-7975



COUNTY OF MAUI  
**DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION**

200 SOUTH HIGH STREET  
WAILUKU, MAUI, HAWAII 96793

GLEN A. UENO, P.E., P.L.S.  
Development Services Administration

CARY YAMASHITA, P.E.  
Engineering Division

BRIAN HASHIRO, P.E.  
Highways Division

May 5, 2014

Mike and Jodi Ottman  
79 Aleiki Pl.  
Paia, Hawaii 96779

**SUBJECT:** Draft Environmental Assessment for the Proposed North Shore Greenway–Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia, Island of Maui, Hawaii

Dear Mr. and Ms. Ottman:

Thank you for your email correspondence dated April 22, 2014 expressing your support for the proposed North Shore Greenway–Phase IV project. We are pleased that the construction of the final Phase of the North Shore Greenway will be initiated, thereby completing this project which began in 1992.

The Department appreciates the information provided which supports the construction of pedestrian and bike paths for both recreational and transportation purposes.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final Environmental Assessment. Should you have any questions, please feel free to contact Project Engineer Kurt Watanabe at 270-7745.

Sincerely,

David C. Goode  
Director of Public Works

DG/KW : gq(ED14-648)

S:\ENGI\ENGTRAF\12-35 North Shore Greenway\EA Documents\Rec'd EA Response Letters for DG from MHI\_2014-05-02\IM&J\Ottman.ltr.doc

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.  
Colleen Suyama, Munekiyo & Hiraga, Inc.



**From:** Ray [mailto:rglauser@hotmail.com]  
**Sent:** Tuesday, April 22, 2014 3:14 PM  
**To:** General eMail  
**Subject:** Support of Northshore Greenway Completion

Aloha,

I have reviewed the draft impact statement and fully support the completion of the North Shore Greenway.

Sincerely,

Ray Glauser  
1392 Hiahia Street  
Wailuku, HI 96793

ALAN M. ARAKAWA  
Mayor

DAVID C. GOODE  
Director

ROWENA M. DAGDAG-ANDAYA  
Deputy Director

Telephone: (808) 270-7745  
Fax: (808) 270-7975



COUNTY OF MAUI  
**DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION**

200 SOUTH HIGH STREET  
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GLEN A. UENO, P.E., P.L.S.  
Development Services Administration

CARY YAMASHITA, P.E.  
Engineering Division

BRIAN HASHIRO, P.E.  
Highways Division

May 5, 2014

Ray Glauser  
1392 Hiahia Street  
Wailuku, Hawaii 96793

**SUBJECT:** Draft Environmental Assessment for the Proposed North Shore Greenway–Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia, Island of Maui, Hawaii

Dear Mr. Glauser:

Thank you for your email correspondence sent on April 22, 2014 expressing your support for the proposed North Shore Greenway–Phase IV project. We are pleased that the construction of the final Phase of the North Shore Greenway will be initiated, thereby completing this project which began in 1992.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final Environmental Assessment. Should you have any questions, please feel free to contact Project Engineer Kurt Watanabe at 270-7745.

Sincerely,

A handwritten signature in black ink, appearing to read "Goode", is written over a white background.

David C. Goode  
Director of Public Works

DG/KW: gq(ED14-649)

S:\ENGI\ENGTRAF\12-35 North Shore Greenway\EA Documents\Rec'd EA Response Letters for DG from MHI\_2014-05-02\RGlauser.ltr.doc

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.  
Colleen Suyama, Munekiyo & Hiraga, Inc.

APR 25 2014

April 22, 2014

Mr. David Goode, Director  
County of Maui, Department of Public Works  
200 S. High St.  
Wailuku, HI 96793

Ms. Colleen Suyama, Senior Associate  
Munrkiyo & Hiraga, Inc.  
305 S. High St. Suite 104  
Wailuku, HI 96793

Dear Mr. Goode and Ms. Suyama:

I wholeheartedly support the completion of the North Shore Greenway.

I have reviewed the draft environmental assessment and are pleased with the proposed route of Phase IV to complete the path connecting Pā`ia town and Kahului.

The greenway, when completed, will support objectives and policies of Chapter 226, HRS, the Hawai`i State Plan, the General Plan of the County of Maui, the Maui Island Plan, and the Pā`ia-Hā`iku Community Plan.

A recent [www.activelivingresearch.org](http://www.activelivingresearch.org) brief said, "Promoting physical activity among children and adults is a priority national health objective in the United States. Regular physical activity lowers the risk of chronic diseases and is an important strategy for reversing the obesity epidemic.

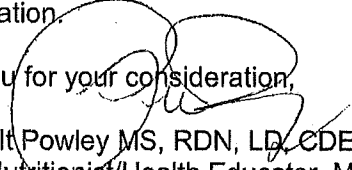
The built environment can positively influence physical activity for both recreational and transportation purposes."

Users of community trails cite fitness and health, relaxation and solitude, fun and enjoyment, being outdoors and learning about nature as benefits associated with using trails.

Also, National Medical Expenditure Survey data indicate that for every \$1 spent on trails, nearly \$3 in savings in direct medical costs was realized.

Mahalo for your commitment to ensure that this community project is completed. I use the bike path regularly and this connection makes sense as an alternative method of transportation.

Thank you for your consideration,

  
Linda Galt Powley MS, RDN, LD, CDE  
Clinical Nutritionist/Health Educator, Maui  
Healthcare Chair Nutrition and Physical Activity Coalition, County of Maui

[ ]

Jill Fowler  
99 Maunaloa St  
Maunaloa HI 96768

HONOLULU HI 968

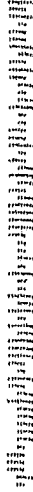
24 APR 2014 PM 11



Ms. Colleen Suyama  
Suiut Janso.

Maunaloa Hwy #1189a Jnc  
Box S. High St Suite 104  
Waialua, Hawaii 96793

96793210029



ALAN M. ARAKAWA  
Mayor

DAVID C. GOODE  
Director

ROWENA M. DAGDAG-ANDAYA  
Deputy Director

Telephone: (808) 270-7745  
Fax: (808) 270-7975



COUNTY OF MAUI  
**DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION**

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Development Services Administration

CARY YAMASHITA, P.E.  
Engineering Division

BRIAN HASHIRO, P.E.  
Highways Division

May 5, 2014

Linda Galt Powley, MS, RDN, LD, CDE  
Clinical Nutritionist Health Educator, Maui  
Healthcare Chair Nutrition and  
Physical Activity Coalition  
Maui County  
99 Makanani Road  
Makawao, Hawaii 96768

SUBJECT: Draft Environmental Assessment for the Proposed North Shore Greenway–Phase IV Project at TMK (2)3-8-001:071 (por.), (2)3-8-001:(Hana Highway Right-of-Way), and (2)2-5-005:046 (por.), Paia, Island of Maui, Hawaii

Dear Ms. Powley:

Thank you for your letter dated April 22, 2014 expressing your support for the proposed North Shore Greenway–Phase IV project. We are pleased that the construction of the final Phase of the North Shore Greenway will be initiated, thereby completing this project which began in 1992.

The Department appreciates the information provided which supports the construction of pedestrian and bike paths for both recreational and transportation purposes.

Again, thank you for your participation in the Chapter 343, Hawaii Revised Statutes review process. A copy of your letter will be included in the Final Environmental Assessment. Should you have any questions, please feel free to contact Project Engineer Kurt Watanabe at 270-7745.

Sincerely,

A handwritten signature in black ink, appearing to read "David C. Goode".

David C. Goode  
Director of Public Works

DG/KW: gq(ED14-647)

S:\ENGIN\ENGR\AF12-35 North Shore Greenway\EA Documents\Rec'd EA Response Letters for DG from MHI\_2014-05-02\L.Powley.ltr.doc

cc: Kurt Watanabe, Department of Public Works  
Kirk Tanaka, R.T. Tanaka Engineers, Inc.  
Colleen Suyama, Munekiyo & Hiraga, Inc.

## **XI. REFERENCES**

## XI. REFERENCES

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# **APPENDIX A.**

**Department of Army Letter  
Dated February 20, 2014**

FEB 25 2014



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

February 20, 2014

Regulatory Office

File No. POH-2013-00192

Ms. Colleen Suyama  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

**NO PERMIT REQUIRED**

Dear Ms. Suyama:

This letter is in response to your request on behalf of the County of Maui Department of Public Works for a jurisdictional determination on the proposed North Shore Greenway bike path located near Spreckelsville, Paia, Island of Maui, Hawaii. Thank you for providing the additional information, including the aquatic resources survey report of Kailua Gulch conducted by AECOS, Inc., dated January 24, 2014. A site visit by my staff was conducted on February 14, 2014. Based on the findings during the site visit and review of the information provided pursuant to Section 10 of the Rivers and Harbors Act of 1899 (Section 10) and Section 404 of the Clean Water Act (Section 404), we have determined that a Department of the Army (DA) permit is **not** required for the proposed construction of a bike path over Kailua Gulch as you described in your letter dated February 5, 2014.

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

Thank you for giving us the opportunity to review this proposal and for your cooperation with our regulatory program. Please be advised you can provide comments on your experience with the Honolulu District Regulatory Office by accessing our web-

based customer survey form at [http://corpsmapu.usace.army.mil/cm\\_apex/f?p=regulatory\\_survey](http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey). Should you have any questions, please contact Ms. Emilee Stevens at (808) 835-4310, by facsimile at (808) 835-4126, or by Email at [emilee.r.stevens2@usace.army.mil](mailto:emilee.r.stevens2@usace.army.mil). Please refer to File No. POH-2013-00192 in all future communications with this office regarding this or other projects at this location.

Sincerely,

A handwritten signature in black ink, appearing to read "George P. Young", written in a cursive style.

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

# **APPENDIX B.**

**Commission on Water Resource  
Management Letter  
Dated April 28, 2014**



APR 30 2014

WILLIAM J. AILA, JR.  
CHAIRPERSON

WILLIAM D. BALFOUR, JR.  
KAMANA BEAMER  
MILTON D. PAVAO  
LINDA ROSEN, M.D., M.P.H.  
JONATHAN STARR  
TED YAMAMURA

WILLIAM M. TAM  
DEPUTY DIRECTOR

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

April 28, 2014

Ref.: RFD.3948.3

Colleen Suyama  
Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, Hawaii 96793

Request for Determination  
Proposed North Shore Greenway, Kailua Stream, Pā'ia, Maui  
TMKs: (2) 3-8-001, (2) 3-8-001:071, and (2) 2-5-005:046

Dear Ms. Suyama:

We are responding to your inquiry regarding the Commission on Water Resource Management's ("Commission") determination that a Stream Channel Alteration Permit (SCAP) would be required during a review of the Draft Environmental Assessment. The project, by the County of Maui Department of Public Works, proposes the final Phase IV of the North Shore Greenway Project to construct a replacement bike path along Hana Highway in the westbound direction.

Pursuant to §174C-71(3)(A), Hawaii Revised Statutes, the Commission on Water Resource Management "shall require persons to obtain a permit from the Commission prior to undertaking a stream channel alteration; provided that routine streambed and drainageway maintenance activities are exempt from obtaining a permit<sup>1</sup>."

Based on further review of the Draft Environmental Assessment and information contained therein, the Commission does not require a Stream Channel Alteration Permit Application to be submitted for the proposed project because Kailua Stream is not considered a perennial stream and the streambank or instream uses will not be adversely affected. If you have any questions, please contact Rebecca Alakai at 587-0266, or [rebecca.r.alakai@hawaii.gov](mailto:rebecca.r.alakai@hawaii.gov).

Very truly yours,

A handwritten signature in black ink, appearing to read "William M. Tam".

WILLIAM M. TAM  
Deputy Director

<sup>1</sup> The Commission's Stream Protection and Management Branch, has the responsibility to protect stream channels from alteration whenever practicable to provide for fishery, wildlife, recreational, aesthetic, scenic, and other beneficial instream uses in the State of Hawaii under the authorization of the State Water Code, HRS Chapter 174C, and Hawaii Administrative Rules Chapter 13-169 (Protection of Instream Uses of Water). Chapter 174C-3, HRS provides definitions for the terms "stream channel", and "channel alteration." "Stream channel" means "a natural or artificial watercourse with a definite bed and banks which periodically or continuously contains flowing water." "Channel alteration" means: 1) to obstruct, diminish, destroy, modify, or relocate a stream channel; 2) to change the direction of flow of water in a stream channel; 3) to place any material or structures in a stream channel; and 4) to remove any material or structures from a stream channel."

Please be advised that the project may require other agency approvals regarding wetlands, water quality, grading, stockpiling, and floodways. This letter should not be used for other regulatory jurisdictions or used to imply compliance with other federal, state, or county rules. Work performed without appropriate permits or authorizations may be subject to fines and/or remedial actions.

# **APPENDIX C.**

## **Biological and Water Quality Survey**

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# Water quality, biological, and jurisdictional surveys of Kailua Stream for the Northshore Greenway Project, Makawao, Maui

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January 24, 2014

AECOS No. 1371

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## Introduction

The County of Maui Department of Public Works Engineering Division (DPW-ENG) contracted R. T. Tanaka Engineers, Inc. to design a pedestrian walkway/bikeway on the *makai* shoulder of Hāna Highway between Ulupua Place and H. A. Baldwin Park ("Project")—Phase IV of the Northshore Greenway Project. Current project plans (July 2013) include the installation of an 8-ft wide precast concrete bikeway crossing over Kailua Gulch (Tanaka Engineers, 2013). AECOS was contracted by Munekiyo & Hiraga to assess water quality, ascertain biological resources, and establish an Ordinary High Water Mark (OHWM) of Kailua Stream to provide information necessary for the Environmental Assessment and planning- and environmental-related permits for the Project<sup>1</sup>.

The project site was visited by AECOS biologists on November 20, 2013. The surveys were of Kailua Gulch within the Project area, and also included 6 additional accessible points within the gulch from the headwaters of the stream to the mouth (Fig. 1). The irrigation ditches connecting to the gulch were not extensively surveyed because these systems are not considered State waters (HDOH, 2012) or waters of the U.S (USEPA, 1977).

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<sup>1</sup> This report will become part of the public record.

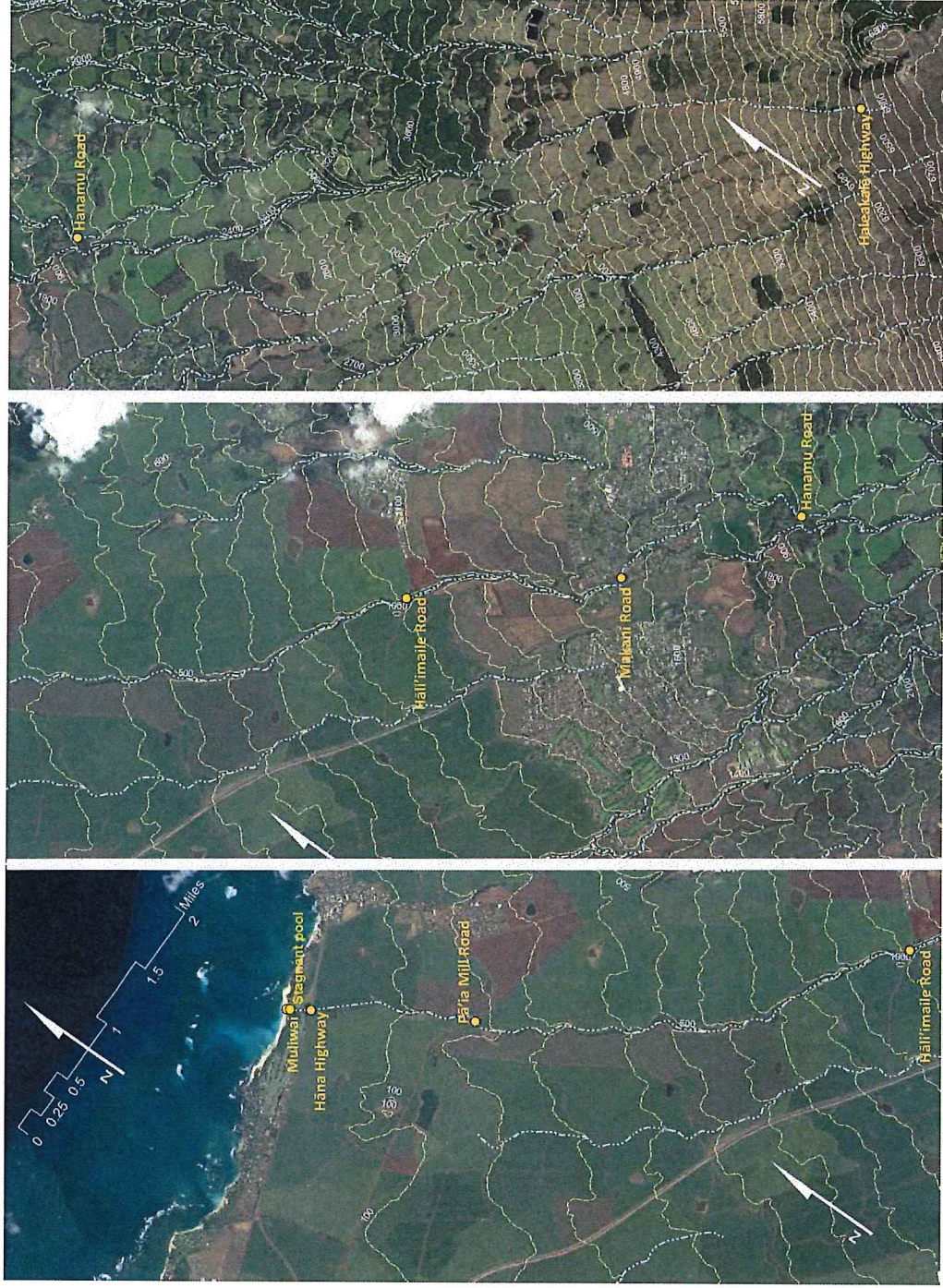


Figure 1. Location of survey areas in Kailua Gulch.



## Stream Description

In 2011, AECOS biologists conducted a survey of Kailua Stream and 4 other streams on windward East Maui (AECOS, 2011). Table 1 and some of the general description of Kailua Stream included in this report is taken from that survey report.

Table 1. Stream relationships, characteristics, and other aquatic features for Kailua Gulch, windward East Maui.

Gulch	State Code	Stream Class <sup>1</sup>	"Headwaters" Elevation <sup>2</sup>	Feature (F) <sup>3</sup>	F elev.	Notes <sup>4</sup>
Kailua	63019	I	(1620)	Haiku Ditch	200	
				Lowrie Ditch	480	siphon
				Unnamed Ditch	660	
				Kauhikoa Ditch	820	siphon
				Hamakua Ditch	1060	siphon
Kailua	I	I	6867			
unnamed	r	I	~3120	Waihou Spring	3400 <sup>5</sup>	

### FOOTNOTES:

- 1 - I = intermittent. Class is inferred from observation and as indicated in the Hawaii Stream Assessment (HCPSU, 1990).
- 2 - In feet, estimated (from topographic maps) upper elevation of stream channel; generally somewhat higher than headwaters shown on topographic map, but may be lower than drainage basin boundary. Elevation in () indicates top of stream segment and point of significant branch or name change to tributary in next row.
- 3 - Natural or man-made aquatic features, such as wetlands, reservoirs, and irrigation ditch systems, which capture flow from the natural stream or feed water into the natural stream. The actual or estimated elevation (in feet) of the feature is provided in Column 7. Multiple features are listed from lowest to highest on branch.
- 4 - Relevant notes.
- 5 - No visible channel between Waihou Spring and headwaters of the unnamed tributary.

Kailua Stream (Watershed Code No. 63019) is described as a non-perennial<sup>2</sup> stream in the Hawai'i Department of Land and Natural Resources-Division of Aquatic Resources (DLNR-DAR) Watershed Atlas (DLNR-DAR, 2008b) and is not included in the Hawai'i Stream Assessment (HCPSU, 1990), which lists only

<sup>2</sup> A perennial stream has year-round, continuous flow in at least part of its bed; flow need not be continuous from upper reaches to the sea. A non-perennial stream then would presumably be entirely dry at least some part of the year.

perennial streams. The stream channel arises at approximately 2093 m (6867 ft) elevation above sea level (ASL) on the windward slope of East Maui Mountain. Total stream length is 27.1 km (16.9 mi) and area of the watershed is estimated at 30.7 km<sup>2</sup> (11.8 mi<sup>2</sup>). Five water supply ditches cross Kailua Stream; from north to south these are Haiku Ditch, Lowrie Ditch, an unnamed ditch, Kauhikoa Ditch, and Hamakua Ditch.

Table 1 provides additional information on Kailua Stream. The first column of the table lists the stream and tributary names. In convention with USGS topographic maps, stream names are italicized and gulches are not. Although gulches and ravines are generally considered dry much of the time, whereas streams might be flowing much or all of the time, the distinction here is simply one established by USGS in mapping and is not meant to imply a particular class (see Column 4—Stream Class).

The letters “l” or “r” appear in the second column to indicate a branch entering on the left or right bank, respectively. Segments representing the confluence of two branches account for stream or gulch names being repeated (different segments represented). Column 3 (State Code) lists the Department of Land and Natural Resources, Division of Aquatic Resources (DLNR-DAR) watershed code. Column 4 (Stream Class) presents the type of stream feature.

Column 5 (“Headwaters Elevation”) gives the elevation of headwaters in feet above sea level. The value is estimated by examination of the topographic map, and represents an attempt to determine the highest elevation at which a distinct channel for the stream is probably present. Where this value is particularly difficult to determine from the map, the value is preceded by “~”, meaning “about.” A number in parentheses indicates the upper elevation of the particular segment, the stream continuing as two or more branches to headwaters at a higher elevation.

Natural or man-made aquatic features (Column 6—Feature), such as wetlands, reservoirs, and irrigation ditch systems that capture flow from or feed water into the natural stream, are each given a line under the associated stream branch. Multiple features are listed from lowest to highest on a branch. Column 7 (F elev.) gives the approximate elevation (usually on the stream branch) of the feature. Column 8 (Notes) provides relevant notes.

Hāna Highway crosses Kailua Stream at approximately 6 m (20 ft) ASL, between H. A. Baldwin Park and the Maui Country Club golf course. A 3-m (10-ft) wide box culvert provides passage for flow under the highway. Given the multiple connections with several water supply ditches upstream from the Project area, it is likely the infrequent flow in the stream here is the result of freshets and

water releases from the ditches. On November 20, 2013 and April 21 and 22, 2011, no segments of the stream investigated had flowing water, although, in April 2011, mudcracks and wrack lines in the Project area provided evidence of relatively recent water flow (Fig. 3a). Evidence of recent water flow was present but much less obvious in November 2013 (Fig. 3b). The bottom of the gulch is well vegetated with upland vegetation.



Fig. 3a. Dry streambed of Kailua Stream with mudcracks at Hāna Highway (April 2011).



Fig. 3b. Dry streambed of Kailua Stream overgrown with Guinea grass at Hāna Highway (November 2013).

Between Hāna Highway and the shore, the streambed within Kailua Gulch is well-defined and well-shaded by grasses and trees growing on the approximately 1-m (3-ft) high banks. A small stagnant pool, likely fed by brackish groundwater and high spring tides, was present in Kailua Stream *makai* of Hāna Highway, just upstream from the *muliwai*, on both April 20, 2011 and November 20, 2013 (Fig. 4).

Near the ocean shore, the gulch widens and American mangrove (*Rhizophora mangle*) populates a *muliwai* (dry on both April 21, 2011 and November 20, 2013). A *muliwai* is a wide, shallow basin at the mouth of a stream usually isolated from the ocean by a beach berm (Fig. 5a and 5b). In this area, grading is undertaken to isolate the stream bed from the beach park and parking lot.



Figure 4. Culvert under a footpath over Kailua Stream appears to hold water on a regular basis (November 2013).



Fig. 5a. Dry *muliwai* of Kailua Stream in April 2011.



Fig. 5a. Graded *muliwai* of Kailua Stream in November 2013.

In the central watershed, the gulch widens and, in some places, is indistinguishable from the surrounding agricultural landscape. In other places, the banks have been modified as levees to protect adjacent sugar cane fields from flooding. Between approximately 350 m (1150 ft) and 1300 m (4265 ft) distance upstream from Hāna Highway, in what is currently a sugar cane field (investigated in 2011; AECOS, 2011), Kailua Stream is confined within a man-made ditch with 3- to 6-m (10- to 20-ft) high banks. In some places, the gulch widens out and is indistinguishable from the surrounding agricultural landscape. The streambed and banks are overgrown with Guinea grass (*Urochloa maxima*). *Koa haole* (*Leucaena leucocephala*) shrubs and trees at the top of the banks shade the ditch. Where not overgrown with Guinea grass, the stream bed comprises bare bedrock and silt.

Approximately 2 km (1 mi) upstream from Hāna Highway at around the 60-m (200-ft) elevation, Pā'ia Mill Road crosses Kailua Stream. Investigated in 2011 (AECOS, 2011) and briefly in November 2013, the banks of the gulch are approximately 6 m (20 ft) high and fairly steep; boulders and silt make up the streambed. Vegetation, including Guinea grass and *koa haole*, shades approximately 90% of the streambed (Fig. 6). Haiku Ditch (Fig. 7) transports water from east to west via siphons under Kailua Stream.



Figure 6. Kailua Stream, approximately 2170 m (7110 ft) upstream from Hāna Highway (April 2011).



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Figure 7. Haiku Ditch entering a siphon under Kailua Stream, approximately 2167 m (7110 ft) upstream from Hāna Highway (April 2011).

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Well upslope of the Project area, Kailua Gulch is a well-defined, steep-sided gulch. Approximately 7 km (4 mi) upstream from Hāna Highway at around the 290-m (950-ft) elevation, Hali'imaile Road crosses Kailua Stream. Here the stream is in a deeply-incised gulch with steep banks 30 m (100 ft) or so high. Boulders and silt make up the gulch bottom; moist soil was apparent in November 2013, but no water was visible. Chinaberry (*Melia azedarach*) and eucalyptus (*Eucalyptus saligna*) trees growing on the banks shade the gulch and Guinea grass is dominant in the streambed (Fig. 8). Hamakua Ditch transports water from east to west via siphons under Kailua Stream, though it was dry at the time of our survey in November 2013.

Another 2.7 km (1.7 mi) upstream from Hali'imaile Road, Makani Road crosses Kailua Stream. Though five very large culverts provide passage for water under the road (Fig. 9), the gulch is indistinct from the landscape (i.e., no bed and banks) both upstream and downstream from the road.

Though the stream bed and banks are not continuous with the main branch of Kailua Stream, an unnamed tributary arises at approximately 950 m (3120 ft)



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Figure 8. Kailua Stream in a deeply-incised gulch, approximately 7 km (4 mi) upstream from Hāna Highway at Hali'imaile Road (November 2013).

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Figure 9. Culverts provide passage for freshets under Makani Road, though the gulch up and down from the road is indistinct from the surrounding landscape.

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ASL—this tributary is likely fed in part by Waihou Spring. The unnamed tributary enters the floodplain of Kailua Stream somewhere between the 619-m (2030-ft) and 494-m (1620-ft) elevation, approximately 12 km (7.5 mi) upstream from Hāna Highway.

At the 583-m (1913-ft) elevation ASL, Hanamu Road crosses Kailua Stream. No culverts are present at the road, so when flowing, the stream must over-top the road. Here the stream is in a deeply-incised gulch with a bedrock bottom. A plunge pool downstream from the road appeared to have recently held water, but was dry at the time of our site visit in November 2013 (Fig. 10). The gulch is heavily forested here with silver oak (*Grevillea robusta*) trees.



Figure 10. Dry plunge pool downstream of Hanamu Road (November 2013).

The main branch of Kailua Stream extends to the steep slopes of East Maui Mountain, with a poorly-defined gulch arising above the 1,980-m (6,500-ft) elevation ASL (Fig. 11). Stream flow here is obviously very infrequent.





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Figure 11. “Headwaters” of Kailua Stream upstream of Haleakala Highway (Crater Road) at 1942-m (6,372-ft) ASL (November 2013).

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## Survey Methods

AECOS, Inc. biologists surveyed Kailua Gulch on November 20, 2013 to evaluate water quality, identify riparian vegetation, survey aquatic species, and mark the ordinary high water mark (OWHM) within the Project area. Locations along the entire length of the channel were surveyed to assess the potential for migration of native amphidromous<sup>3</sup> animals and the distribution of naturalized organisms throughout the gulch.

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<sup>3</sup> Meaning they move between fresh and salt water as part of their life cycle.

## Water Quality Survey

On November 20, 2013 (and April 21, 2011), *AECOS* biologists attempted to collect samples and make water quality measurements in the Project area; however, water was not present at either time.

## Biological Survey

The biologists covered the survey area on foot and, as they were encountered, noted plant species within and along the sides of the gulch. As the survey progressed, notes were made on relative abundances of each species (e.g., rare, common, abundant). Biologists also made observations of aquatic organisms. Similar to the botanical survey, the biologists made notes on the relative abundances of each aquatic species observed (though none was observed on November 20, 2013).

## OWHM Survey

The OHWM is defined in the federal regulations [33 CFR 328.3(e)] as:

“... the line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of the soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.”

*AECOS* biologist established the OHWM in the Project area upstream and downstream of Hanā Highway. Within this survey area, the following physical characteristics—as provided in a regulatory guidance letter (USACE, 2005)—were considered when establishing an OHWM for the stream:

Natural line impressed on the bank	Leaf litter disturbed or washed away
Shelving	Scour
Changes in the character of the soil	Deposition
Destruction of terrestrial vegetation	Multiple observed flow events
Presence of litter and debris	Bed and banks
Wracking	Water staining
Vegetation matted down, bent, or absent	Change in the plant community
Sediment sorting	

The biologists marked the OHWM in the field with four pairs of wire stake flags placed on both sides of the stream approximately every 10 m (33 ft) and painted a line inside the culvert under Hāna Highway. A set of photographs (left and right bank and upstream and downstream) were taken from the center of the stream at every pair of flags to document the marking and to characterize the environment. Subsequent to flagging of the OHWM, land surveyors measured the elevation of the line in the culvert and added that information to Project survey maps.

## Results

### Biological Survey

#### Flora

Our flora listing (Table 2) covers plants observed in the Project area and at various points investigated on November 20, 2013 and April 2011.

Table 2. Checklist of plants in Project area and elsewhere throughout Kailua Gulch observed on April 21 and 22, 2011 and November 20, 2013.

Family Species	Common name	Status	Abundance <Notes>
FERNS			
DENNSTAEDTIACEAE			
<i>Pteridium aquilinum</i> (L.) Kuhn	bracken fern	end	C<U,H>
DICOTYLEDONES			
ACANTHACEAE			
<i>Asystasia gangetica</i> (L.) T. Anderson	Chinese violet	nat	O<E> U<L,M,U> R<2>
AIZOACEAE			
<i>Sesuvium portulacastrum</i> (L.) L.	'akulikuli	ind	R<E,2>
<i>Tetragonia tetragonioides</i> (Pall.) Kuntze	New Zealand spinach	nat	R<E>
AMARANTHACEAE			
<i>Amaranthus spinosus</i> L.	spiny amaranth	nat	O<E,M> C<2>
ANACARDIACEAE			
<i>Schinus terebinthifolius</i> Raddi	Christmasberry	nat	C<E,L,M>
APIACEAE			
<i>Centella asiatica</i> (L.) Urb.	Asiatic pennywort	nat	R<E>

Table 2 (continued).

Family Species	Common name	Status	Abundance <Notes>
<b>APOCYNACEAE</b>			
<i>Cascabela thevetia</i> (L.) Lippold	be still tree	nat	R<E,M>
<b>ASCLEPADACEAE</b>			
<i>Asclepias physocarpa</i> (E. Mey) Schlechter	balloon plant	nat	R<U>
<b>ASTERACEAE</b>			
<i>Ageratum conyzoides</i> L.	<i>maile hohono</i>	nat	R<L,2> O<M> C<U>
<i>Bidens pilosa</i> L.	beggartick	nat	U<L,M,2>
<i>Cirsium vulgare</i> (Savi) Ten.	bull thistle	nat	R<H>
<i>Conyza bonariensis</i> (L.) Cronq.	hairy horseweed	nat	R<U,H>
<i>Crassocephalum crepidioides</i> (Benth.) S. Moore	---	nat	R<L,2>
<i>Eclipta prostrata</i> (L.) L.	false daisy	nat	R<2>
<i>Emilia fosbergii</i> Nicolson	Flora's paintbrush	nat	R<2>
<i>Pluchea indica</i> (L.) Less.	Indian fleabane	nat	R<E>
<i>Senecio madagascariensis</i> Poir.	fireweed	nat	R<L,2> U<U,H>
<i>Sonchus oleraceus</i> L.	sow thistle	nat	R<E,L,2>
<i>Synedrella nodiflora</i> (L.) Gaertn.	nodeweed	nat	R<E>
<i>Taraxacum officinale</i> W.W. Weber	common dandelion	nat	U<U,H>
<i>Verbesina encelioides</i> (Cav.) Benth. & Hook	golden crown-beard	nat	O<U,H>
<b>BRASSICACEAE</b>			
<i>Lepidium virginicum</i> L.	---	nat	U<M,2> O<U>
<b>CACTACEAE</b>			
<i>Opuntia ficus-indica</i> (L.) Mill.	<i>pānini</i>	nat	R<2>
<b>CASUARINACEAE</b>			
<i>Casurina equisetifolia</i> L.	common ironwood	nat	C<E>
<b>CHENOPODIACEAE</b>			
<i>Chenopodium murale</i> L.	<i>'aheahea</i>	nat	R<2>
<b>CONVOLVULACEAE</b>			
<i>Ipomoea obscura</i> (L.) KerGawl.	---	nat	U<2>
<i>Ipomoea triloba</i> L.	little bell	nat	U<E,L,2> C<M>
<b>EPACRIDACEAE</b>			
<i>Styphelia tameiameia</i> (Cham. & Schlechtend.)	<i>pukiawe</i>	ind	C<H>
<b>ERICACEAE</b>			
<i>Vaccinium calycinum</i> Sm.	<i>'ohelo</i>	end	C<H>
<b>EUPHORBIACEAE</b>			
<i>Aleurites moluccana</i> (L.) Willd.	<i>kukui</i>	pol	R<E,M,2>

Table 2 (continued).

Family Species	Common name	Status	Abundance <Notes>
<b>EUPHORBIACEAE (continued)</b>			
<i>Chamaesyce hirta</i> (L.) Millsp.	garden spurge	nat	U<E> R<2>
<i>Chamaesyce prostrata</i> (Aiton) Small	<i>prostrate spurge</i>	nat	R<E,2>
<i>Euphorbia heterophylla</i> L.	<i>kaliko</i>	nat	R<L,2> U<U>
<i>Ricinus communis</i> L.	castor bean	nat	O<E,M> U<L> C<2>
<b>FABACEAE</b>			
<i>Chamaecrista nictitans</i> (L.) Moench	partridge pea	nat	U<E,L,M,2>
<i>Crotalaria incana</i> L.	fuzzy rattlepod	nat	O<E,2> U<L,M>
<i>Crotalaria</i> cf. <i>retusa</i> L.	rattlepod	nat	R<2>
<i>Desmanthus pernambucanus</i> (L.) Thellung	virgate mimosa	nat	R<E>
<i>Indigofera spicata</i> Forssk.	creeping indigo	nat	U<E>
<i>Indigofera suffruticosa</i> Mill.	indigo	nat	O<U>
<i>Neonotonia wightii</i> (Wight & Arnott) Lackey	glycine vine	nat	C<E,L,M,2> O<U>
<i>Leucaena leucocephala</i> (Lam.) de Wit	<i>koa haole</i>	nat	A<E,L,2> C<M>
<i>Pithecellobium dulce</i> (Roxb.) Benth.	<i>'opiuma</i>	nat	R<2>
<i>Prosopis pallida</i> (Humb. & Bonpl. ex Willd.) ?	<i>kiawe</i>	nat	U<E>C<2>
<i>Samanea saman</i> (Jacq.) Merr.	monkeypod	orn	U<E>
<i>Senna occidentalis</i> (L.) Link	coffee senna	nat	U<M>
<i>Ulex europaeus</i> L.	gorse	nat	U<H>
<b>LAMIACEAE</b>			
<i>Leonotis leonurus</i> (L.) R. Br.	lion's ear	nat	O<E,L,2> R<M>
<b>LYTHRACEAE</b>			
<i>Lythrum maritimum</i> Kunth	<i>pukamole</i>	ind	C<H>
<b>MALVACEAE</b>			
<i>Abutilon grandifolium</i> (Willd.) Sweet	hairy abutilon	nat	R<E,M,2> O<U>
<i>Malva parviflora</i> L.	cheese weed	nat	A<E> O<L> R<2>
<i>Malvastrum coromandelianum</i> (L.) Garcke	false mallow	nat	U<E,2>
<i>Sida rhombifolia</i> L.	Cuba jute	nat	R<2>
<i>Sida spinosa</i> L.	prickly sida	nat	R<E,2>
<i>Thespesia populnea</i> (L.) Sol. ex Correa	milo	ind?	O<E>

Table 2 (continued).

Family Species	Common name	Status	Abundance <Notes>
MELIACEAE			
<i>Melia azedarach</i> L.	Chinaberry	nat	C<M> O<U> R<2>
MORACEAE			
<i>Ficus microcarpa</i> L.	Chinese banyan	nat	U<E,M,U> R<2>
MYRTACEAE			
<i>Eucalyptus saligna</i> Sm.	Sydney blue gum	nat	O<M> C<U,H>
<i>Psidium guajava</i> L.	common guava	nat	U<E> O<L,M>
<i>Syzygium cumini</i> (L.) Skeels	Java plum	nat	U<L,M,2>
NYCTAGINACEAE			
<i>Boerhavia coccinea</i> Mill.	false <i>alena</i>	nat	R<E,2>
<i>Mirabilis jalapa</i> L.	four-o'clock	nat	R<U>
OLEACEAE			
<i>Fraxinus uhdei</i> (Wenzig) Lingelsh.	tropical ash	nat	O<U>
<i>Olea europaea</i> L.	olive	nat	O<M>
ONAGRACEAE			
<i>Ludwigia octovalvis</i> (Jacq.) Raven	primrose willow	<b>pol?</b>	R<E>
PAPAVERACEAE			
<i>Argemone mexicana</i> L.	Mexican poppy	nat	R<E> O<2>
PASSIFLORACEAE			
<i>Passiflora edulis</i> Sims	<i>lilikoi</i>	nat	R<E,2>
PLANTAGINACEAE			
<i>Plantago lanceolata</i> L.	narrow-leaved plantain	nat	U<U,H>
PROTEACEAE			
<i>Grevillea robusta</i> A. Cunn. Ex R. Br.	silver oak	nat	O<M,U>
RHIZOPHORACEAE			
<i>Rhizophora mangle</i> L.	red mangrove	nat	U<E,2>
RUBIACEAE			
<i>Coprosma ernodioides</i> A. Gray	<i>kukaenene</i>	<b>end</b>	C<H>
SOLANACEAE			
<i>Datura stramonium</i> L.	Jimson weed	nat	R<M,2>
<i>Solanum americanum</i> Mill.	<i>pōpolo</i>	<b>ind</b>	C<U> R<2>
<i>Solanum linnaeanum</i> Hepper & P. Jaeger	apple of Sodom	nat	R<U>
<i>Nicotiana glauca</i> Graham	tree tobacco	nat	R<E,L,2>
STERCULIACEAE			
<i>Waltheria indica</i> L.	'uhaloa	ind	R<L,2> O<M> U<U>
VERBENACEAE			
<i>Stachytarpheta urticifolia</i> (Salisb.) Sims	---	nat	R<E,L>
<i>Verbena litoralis</i> Kunth	<i>owi</i>	nat	R<U>

Table 2 (continued).

Family Species	Common name	Status	Abundance <Notes>
MONOCOTYLEDONES			
AGAVACEAE			
<i>Furcraea foetida</i> (L.) Haw.	Mauritius hemp	nat	R<L,M,2>
CYPERACEAE			
<i>Cyperus rotundus</i> L.	nutgrass	nat	R<2>
POACEAE			
<i>Cenchrus ciliaris</i> L.	buffelgrass	nat	U<E,2>
<i>Cynodon dactylon</i> (L.) Pers.	Bermuda grass	nat	O<E,L,2>
<i>Digitaria ciliaris</i> (Retz.) Koeler	Henry's crabgrass	nat	R<E,2>
<i>Digitaria insularis</i> (L.) Mez- ex Ekman	sourgrass	nat	U<E,2> C<L> A<M>
<i>Echinochloa crus-gali</i> (L.) P. Beauv.	barnyard grass	nat	U<2>
<i>Eleusine indica</i> (L.) Gaertn.	wire grass	nat	C<2>
<i>Leptochloa fusca</i> (L.) Kunth	Mexican sprangletop	nat	R<2>
<i>Melinis repens</i> (Willd.) Zizka	Natal redtop	nat	U<2>
<i>Panicum maximum</i> Jacq.	Guinea grass	nat	A<E,L,2> C<M,U>
<i>Paspalum urvillei</i> Steud.	Vasey grass	nat	R<E,2>
<i>Pennisetum clandestinum</i> Chiov.	kikuyu grass	nat	A<U,H>
<i>Pennisetum purpureum</i> Schumach.	elephant grass	nat	O<E,M> A<2>
<i>Saccharum officinarum</i> L.	sugar cane cult.	orn	A<E,L,M,U,2>
<i>Setaria verticillata</i> (L.) P. Beauv.	bristly foxtail	nat	R<L>
<i>Urochloa mutica</i> (Forssk.) T.Q. Nguyen	para grass	nat	A<E,M>

## KEY to Table 2

Status = distributional status

**end** = endemic; native to Hawai'i and found naturally nowhere else.**ind** = indigenous; native to Hawai'i, but not unique to the Hawaiian Islands.**nat** = naturalized, exotic, plant introduced to the Hawaiian Islands since the arrival of Cook Expedition in 1778, and well-established outside of cultivation.**orn** = exotic, ornamental; plant not naturalized (not established outside of cultivation); includes plants cultivated for food.**pol** = Polynesian introduction before 1778.

Abundance = abundance for the vegetation at each stream:

R - Rare - a plant species observed only one to three times;

U - Uncommon - a plant species observed less than six times;

O - Occasional - a plant that was observed regularly, but not abundant;

C - Common - a plant observed with regularity, observed numerous times;

A - Abundant - a plant found in large numbers, dominant or locally dominant.

Table 2 (continued).

## Notes:

- <E> - Observed between the coast line and 1-m elevation ASL.
- <L> - Observed between 1- and 20-m elevation ASL.
- <M> - Observed between 20- and 200-m elevation ASL.
- <U> - Observed between 200- and 750-m elevation ASL.
- <H> - Observed above 750-m elevation ASL.
- <2> - Reported in AECOS (2011) from Estuary, Lower, or Middle reach.

The Project area is rather limited floristically. Sugar cane (*Saccharum officinarum*) is cultivated in the fields upstream of Hānā Highway, and introduced and ruderal species such as *koa haole* (*Leucaena leucocephala*) and Guinea grass (*Urochloa maxima*) dominate the vegetation in the gulch and surrounding roadway in the Project area. Of the 27 plant species listed in Table 2 as occurring in the lower reach, only 1, *uhaloa* (*Waltheria indica*), is a native species. There are very few plants of interest and none of concern<sup>4</sup> in the areas of Kailua Gulch surveyed by AECOS. Only the headwaters (above 750-m elevation ASL) are dominated by native species—of the 15 plant species observed in the headwaters, 6 are native species.

## Fauna

Water was not present in the Project area or elsewhere in Kailua Stream and, as a result, AECOS biologists did not observe any fishes, crustaceans, or mollusks on November 20, 2013. In 2011, aquatic animals were observed only in ditches connecting to Kailua Stream and aquatic insects (adult damselflies and dragonflies) were observed flying in the gulch. The DLNR-DAR Watershed Atlas (DLNR-DAR, 2008) reports results of studies of fauna from stations upstream from the Project area and these data are presented in Table 3.

One individual adult *Ischnura ramburii* damselfly was observed flying in the Project area in 2011 (AECOS, 2011). Only the larvae of damselflies are aquatic. Flume clams (*Corbicula fluminea*) and the red-rimmed melania snail (*Melanoides tuberculata*) are abundant in irrigation ditches connected to Kailua Stream. Tilapia is common in reservoirs in the area (AECOS, 2011) and reported by DLNR-DAR from the middle and upper reaches of Kailua watershed). Poeciliid fishes (*Gambusia affinis* and *Poecilia salvatoris/mexicana*) are common in flowing (i.e., ditches and flumes) and standing (i.e., stagnant pool) waters of Kailua Stream. Although not expected to occur at the low elevation of the

<sup>4</sup> *Nicotiana glauca* (tree tobacco) could serve as a food resource for larvae of the endangered Blackburn's sphinx moth (*Manduca blackburni*). This species is discussed further in the assessment section.



Project area, two species of endemic damselflies (*Megalagrion hawaiiensis* and *M. nigrohamatum nigrohamatum*) have been reported from the upper reaches of Kailua Stream.

Table 3. Checklist of aquatic biota observed in Kailua Stream.

Species	Common name	Status	Abundance
<b>INVERTEBRATES</b>			
MOLLUSCA, BIVALVIA			
VENEROIDA, CORBICULIDAE			
<i>Corbicula fluminea</i>	flume clam	naturalized	A(2) (ditch)
MOLLUSCA, GASTROPODA			
NEOTAENIOGLOSSA, THIARIDAE			
<i>Melanoides tuberculata</i>	red-rimmed melania	naturalized	A(2) (ditch)
ARTHROPODA, INSECTA			
ODONATA, COENAGRIONIDAE			
<i>Ischnura ramburii</i>	Rambur's forktail	naturalized	R(2)
<i>Megalagrion hawaiiensis</i>	Hawaiian upland damsel	<b>endemic</b>	P(3 <sub>U</sub> )
<i>Megalagrion nigrohamatum nigrohamatum</i>	blackhook Hawaiian damsel	<b>endemic</b>	P(3 <sub>U</sub> )
ODONATA, AESHNIDAE			
<i>Anax junius</i>	Hawaiian darner	<b>endemic</b>	R(2)
<i>Orthemis ferruginea</i>	roseate skimmer	naturalized	U(2)
<b>VERTEBRATES</b>			
CHORDATA, ACTINOPTERYGII			
PERCIFORMES, KUHLIIDAE			
<i>Tilapia</i> sp.	tilapia	naturalized	P(3 <sub>M,U</sub> )
CYPRINODONTIFORMES, POECILIIDAE			
<i>Gambusia affinis</i>	mosquitofish	naturalized	A(2) (ditch)
<i>Poecilia</i> sp. hybrid complex ( <i>salvatoris/mexicana</i> group)	liberty/Mexican molly	naturalized	C(2) (ditch)

KEY TO TABLE 3 SYMBOLS:

Status column:

naturalized - an introduced or exotic species.

indigenous - a native species also found elsewhere in the Pacific.

endemic - a native species found only in the Hawaiian Islands.

Table 3 (continued).

## Abundance column:

P - present; not common, but unable to assess abundance.

R - rare; only one or two individuals seen.

U - uncommon; several to a dozen individuals seen, in some habitat places visited.

O - occasional; seen irregularly in small numbers.

C - common; numerous individuals seen, or seen in most habitat places visited.

A - abundant; numerous in most habitat places visited

## Notes:

(2) – Observed in 2011 (*AECOS*, 2011). *Italic* type indicates organism was found in Project area.

(3) – Reported in DLNR-DAR (2008) from various surveys. (L=lower, M=middle, U=upper, H=headwaters).

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## OHWWM

Section 404 of the Clean Water Act (CWA) assigns regulatory authority to the U.S. Army Corps of Engineers (USACE) over certain activities in waters of the U.S. If Kailua Stream is considered to be “waters of the U.S.” as defined in the CWA and construction of the pedestrian walkway/bikeway requires work below the Ordinary High Water Mark (OHWM; bounding limit of federal jurisdiction in the absence of wetlands), the Project will require a Department of the Army permit.

Though certainly not perennial, within the Project area, Kailua Stream appears contain flowing water often enough and for a long enough duration to make a physical mark in the stream channel at the OHWM. A change in plant community and shelving are the strongest indicators of the OHWM in Kailua Stream, though neither indicator is particularly robust nor obvious throughout the Project area. Most *koa haole* trees root at or above the OWHM. Guinea grass is the dominant plant below the OWHM. Within the existing culvert, the concrete appears to have eroded below the OWHM, but remains largely intact above the OWHM (Fig. 12). Attachment A presents the OHWM elevation (8.5 ft ASL) swithin the culvert as delineated in the field by *AECOS* scientists and surveyed by R. T. Tanaka. Photographs taken to document the process are included in Attachment B.



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Figure 12. Eroded concrete below the OWHM (orange line) within the existing culvert under Hāna Highway (November 2013).

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## Assessment

### Water quality

Because the stream channel connects to the Pacific Ocean, construction plans should incorporate Best Management Practices (BMP) to prevent degradation of water quality in Kailua Stream and the nearshore waters. To conduct work below the ordinary high water mark, the US Army Corps of Engineers would need to issue a Department of Army permit and the Hawai'i Department of Health could issue a Water Quality Certification (WQC) under Section 401 of the CWA. The WQC would require an Applicable Monitoring and Assessment Plan (AMAP) to be developed for work in Kailua Stream. The AMAP would monitor the effectiveness of the BMPs, although the fact that the stream flows very infrequently would be a challenge to create an effective AMAP.

## Flora and fauna

No aquatic resources were present in the Project area at the time of the survey. No observed flora or fauna species are federally listed as endangered (USFWS, 2008, 2012) or protected by State of Hawai'i Administrative Rules (DLNR, 1998, 2007). None of the plants observed in the Project area are endemic (unique to the Hawaiian Islands) and most are species that have been introduced. These species are widespread on Maui and have no specific intrinsic value that would be lost due to Project activities.

The stream macrofauna native to Hawai'i are diadromous: eggs are laid in the stream and the larvae that hatch from these eggs move down stream and out into the ocean where they develop for a time before migrating back into fresh water to grow to maturity (Ford and Kinzie, 1982; Kinzie, 1988). The migration pathway in Kailua Stream from the ocean to the Project area is not blocked by man-made obstructions, and freshets would allow migration of native amphidromous species through the Project area. Project design should include a continuous open pathway in the Project area. Construction BMPs developed to protect water quality will also protect aquatic biota.

## OHWM

Section 404 of the Clean Water Act regulates discharge of dredged and fill material into "Waters of the United States" or jurisdictional waters. The bounding limit of federal jurisdiction is the OHWM, unless adjacent wetlands are present. Section 404 of the Clean Water Act (CWA) assigns regulatory authority to the U.S. Army Corps of Engineers (USACE) over certain activities in waters of the U.S. and an initial step in this permit process is a determination of the limits of federal jurisdiction in relation to Project activities. Our delineation of the OHWM is based upon our best professional judgment. However, federal jurisdiction is solely determined by the USACE, and is based upon the USACE first accepting our delineation and then deciding whether other factors warrant taking jurisdiction (e.g., that Kailua Stream is, in fact, jurisdictional). Our delineated line is not official until accepted by the USACE as a prelude to the permitting process.

## Critical Habitat

No critical habitat areas have been designated by the federal government for the Project area. However, critical habitat for the endangered Blackburn's sphinx moth (*Manduca blackburni*) has been designated in the Kanahā Pond and beach areas west of the Project area (USFWS, 2003). Tree tobacco (*Nicotiana glauca*),

a plant in the Solanaceae family, was observed in the project area. Tree tobacco has the potential to be utilized by the hornworm larva of *M. blackburni*.

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Attachment A

OWHM Elevation

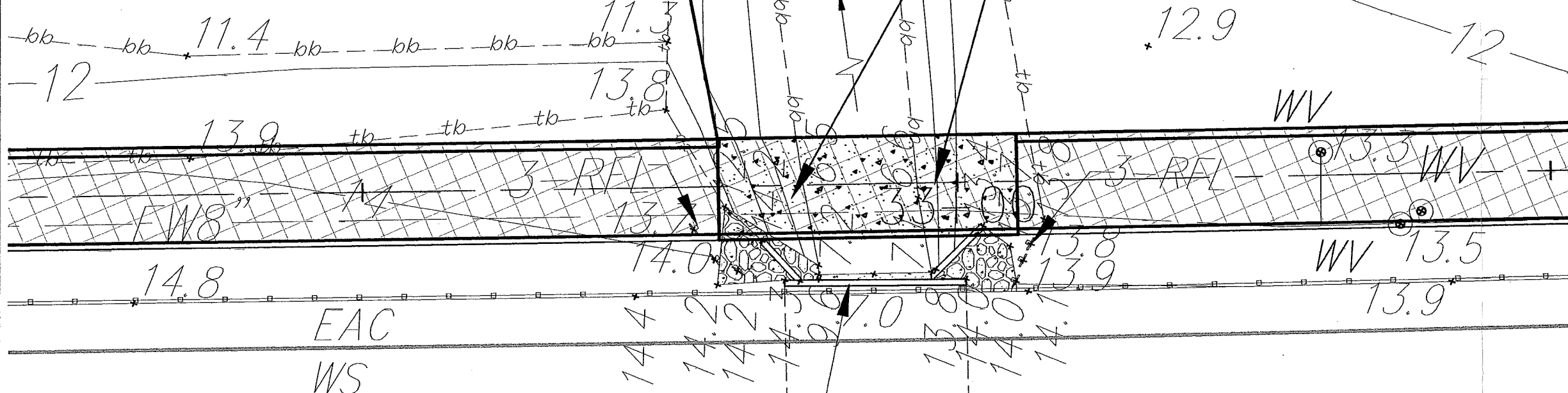
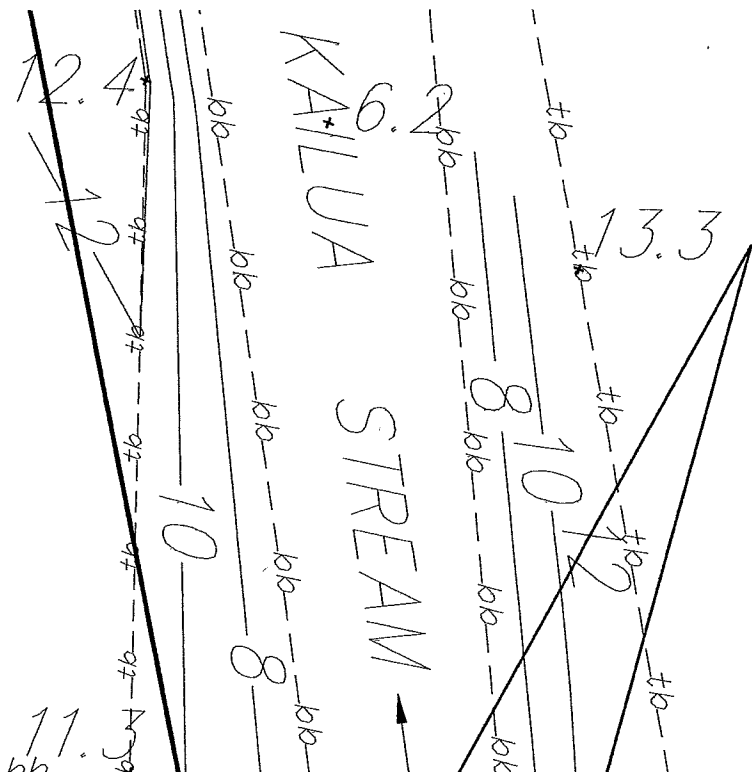
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TMK: (2) 3-8-01: 71  
MAUI COUNTRY CLUB LIMITED  
(Owners)

H. A. BALDWIN PARK

ORDINARY HIGH  
WATER MARK (ELEV.=8.5)  
BOUNDARY BASED ON FIELD  
DELINEATIONS BY AECOS INC.  
(NOVEMBER 2013)



# NORTH SHORE GREENWAY - PHASE IV

ULUPUA PLACE TO H. A. BALDWIN PARK

JOB NO. 12-35

SCALE: 1" = 10'



TO  
KAHULUI

4.2' x 9.7' CONC.  
BOX CULVERT

HANA HIGHWAY

TO  
PAIA

Revised: DECEMBER 13, 2013  
DECEMBER 11, 2013

JOB NO. 12-026

Z:\DRAWING\2012\12-026\Construction Plans\HANA HWY BIKEWAY Plan and Profile.dwg 12-DEC-2013 : Revised BY:Nancy



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Attachment B

Ordinary High Water Mark Figures

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Flag 1 Upstream



Flag 1 Left



Flag 1 Right



Flag 1 Downstream



Flag 2 Upstream

No photo



Flag 2 Right

Flag 2 Left



Flag 2 Downstream



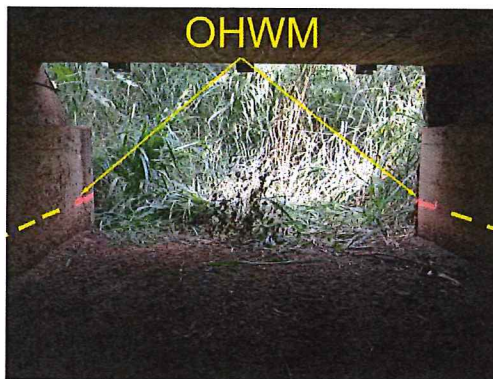
Flag Culvert Upstream



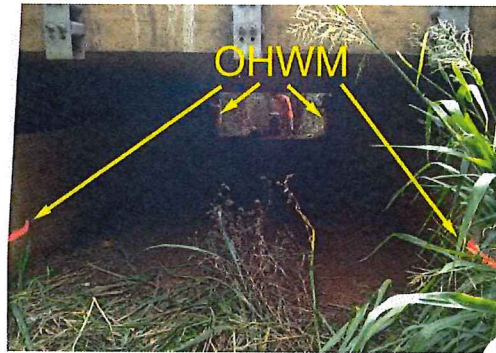
Flag Culvert Left



Flag Culvert Right



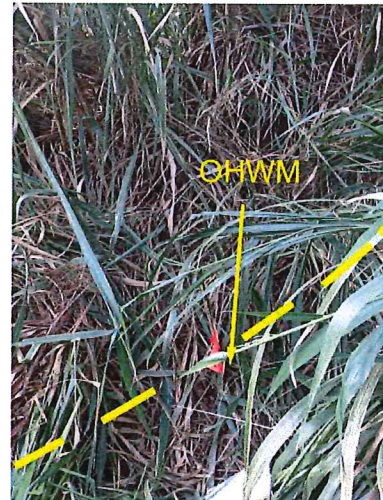
Flag Culvert Downstream



Flag 3 Upstream



Flag 3 Left



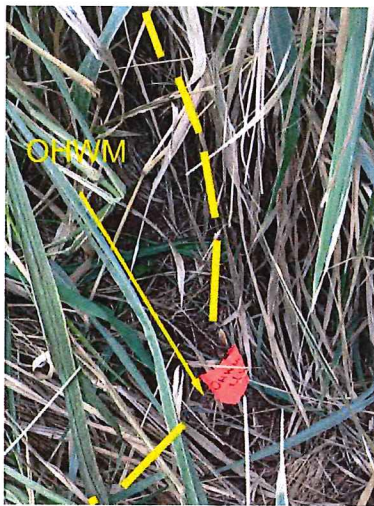
Flag 3 Right



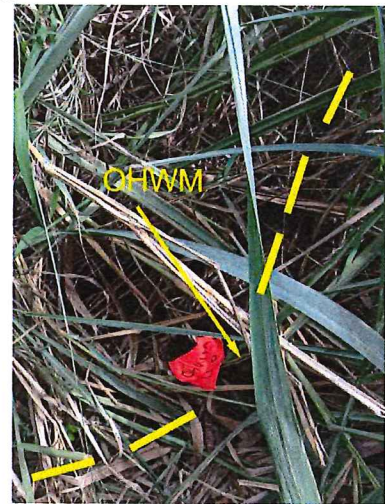
Flag 3 Downstream



Flag 4 Upstream



Flag 4 Left



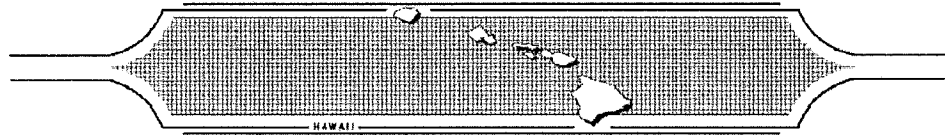
Flag 4 Right



Flag 4 Downstream

# **APPENDIX D.**

## **Archaeological Field Inspection**



Colleen Suyama  
Munekiyo & Hiraga, Inc.  
305 High Street , Suite 104  
Wailuku, HI 96793

November 12, 2013

**RE: Archaeological Field Inspection for the North Shore Greenway Phase 4, Spreckelsville, Hoku`ula Ahupua`a, Wailuku District, Maui Island, Hawaii [TMK: (2) 2-5-005:046 por., 3-8-001, and 3-8-001:071 por.].**

### **Overview of Field Inspection**

This letter provides an overview of an Archaeological Field Inspection for a 3,500 linear foot (1067 m) corridor for the proposed development of the North Shore Greenway Phase IV pedestrian path in Spreckelsville, Hoku`ula Ahupua`a, Wailuku District, Maui Island, Hawai`a [TMK: (2) 2-5-005:046 por., 3-8-001, and 3-8-001:071 por.] (Figures 1-4). The subject path is located along the north flank of Hana Highway and lies within the highway's right-of-way. The inspection was requested to provide a brief description of the archaeological landscape within the project area, assess the presence/absence of extant surface features, assess the potential for subterranean cultural resources, and give recommendations for future archaeological work.

### **Setting**

The project area corridor is located at an elevation of less than 20 feet above mean sea level (A.M.S.L.) and lies a variable 800-1500 feet from the coastline. The corridor lies along the shoulder on the north (seaward-*makai*) side of Hana Highway. The corridor is bounded by Baldwin Beach Park to the east, Maui Country Club and private residences to the north, and Hana Highway to the south.

The c. 3,500 project area corridor extends along the Hana Highway right-of-way between Ulupua Place and the eastern flank of H.A. Baldwin Park. The eastern terminus of the greenway connects into an existing segment of the H.A. Baldwin Park Bikeway.

Rainfall in the area of Pā`ia is consistent throughout the year, averaging about 4 to 6 inches of rain per month for a yearly average of approximately 30 inches (Armstrong 1973). Foote *et al.* (1972:Sheets 103& 104) indicate that the primary soil series in the project area corridor are associated with the Pulehu Series (PpA, PpB) and the Molokai Series. These series are both associated with sugarcane, truck crops, pasture, home sites, and wildlife habitat (*Ibid.*). Vegetation along the corridor were comprised of mowed grass, though within a small drainage, taller guinea grass, *kiawe*, palms and *haole koa* were noted.



## **Field Methods**

The Field Inspection was conducted on November 6, 2013 by SCS Archaeologists D. Perzinski, B.A. and M. Dega, Ph.D. (Principal Investigator). Survey consisted of a 100% pedestrian survey walking approximate 2 m transects along the shoulder of Hana Highway. Photographs were taken of the corridor land surface, as well as the soils of the area, observed in profile on the *mauka* flank of the highway. Notes were taken of project area vegetation and soil regimes within and near the corridor. Modern land uses were also noted.

## **Results of Field Inspection**

The Field Inspection commenced on the western terminus of the project area at the intersection of Hana Highway and Ulupua Place. The western ca. 1,300 feet extends along a cement brick and vine wall that buffers the residences from highway traffic noise. The ground surface is graded, covered in sparse mowed grasses, and is level (Figure 5). From the end of the residential wall and extending another 1,350 feet, the corridor runs along the Maui Country Club Golf Course. In this section, the road and corridor are built up to create an approximate 10 foot soil berm. The berm appears to consist of imported fill material (Figure 6). No cultural resources or surface deposits were noted in this section. The soils were also primarily composed of fill, with some reddish-brown clay, common to the area, also documented.

The eastern ca. 1,000 feet of the corridor extends along a thin strip of wooded land bordering the Maui Country Club lands and the H.A. Baldwin Beach Park land. This strip contains monkeypod, palms, and *koa haole*, as well as various invasive grasses. The road is cut along the western end and levels off as it nears H. A. Baldwin Beach Park (Figure 7). No cultural resources or surface deposits were noted along this section. Similarly, the soils appeared to be reddish-brown silty clays common in the area. Sandy deposits were only identified later, far into the beach park and at some distance from the project area.

The current Archaeological Field Inspection did not lead to the identification of any surface cultural features or deposits. Historic era and modern agricultural activities and road construction along the proposed corridor have presumably disturbed any previously existing sites or surface deposits. The project area corridor was confirmed to also have fill and reddish-brown silty clay deposits in subsurface contexts; no sand was present within or near the project corridor. It is our estimation, based on this inspection that the proposed undertaking would not have an adverse impact on any historic properties.

## **Archaeological Monitoring**

An Archaeological Monitoring Plan has been produced as a proactive measure. While the general coastal area near the project area is sensitive for archaeological cultural deposits and/or burials due to the presence of sandy sediment, the current project area corridor does not contain sandy contexts. Rather, the soils are similar to the soils on the *mauka* (south) flank of the highway (silty clays) and associated with sugarcane cultivation. Thus, there appears to be only a very modest probability of identifying any cultural deposits in subsurface contexts. Such has been the case with multiple projects previously conducted in these former sugarcane lands.

Thank you for the opportunity to conduct this Field Inspection. If you have any questions regarding this Field Inspection, please feel free to call or email us.

Regards,

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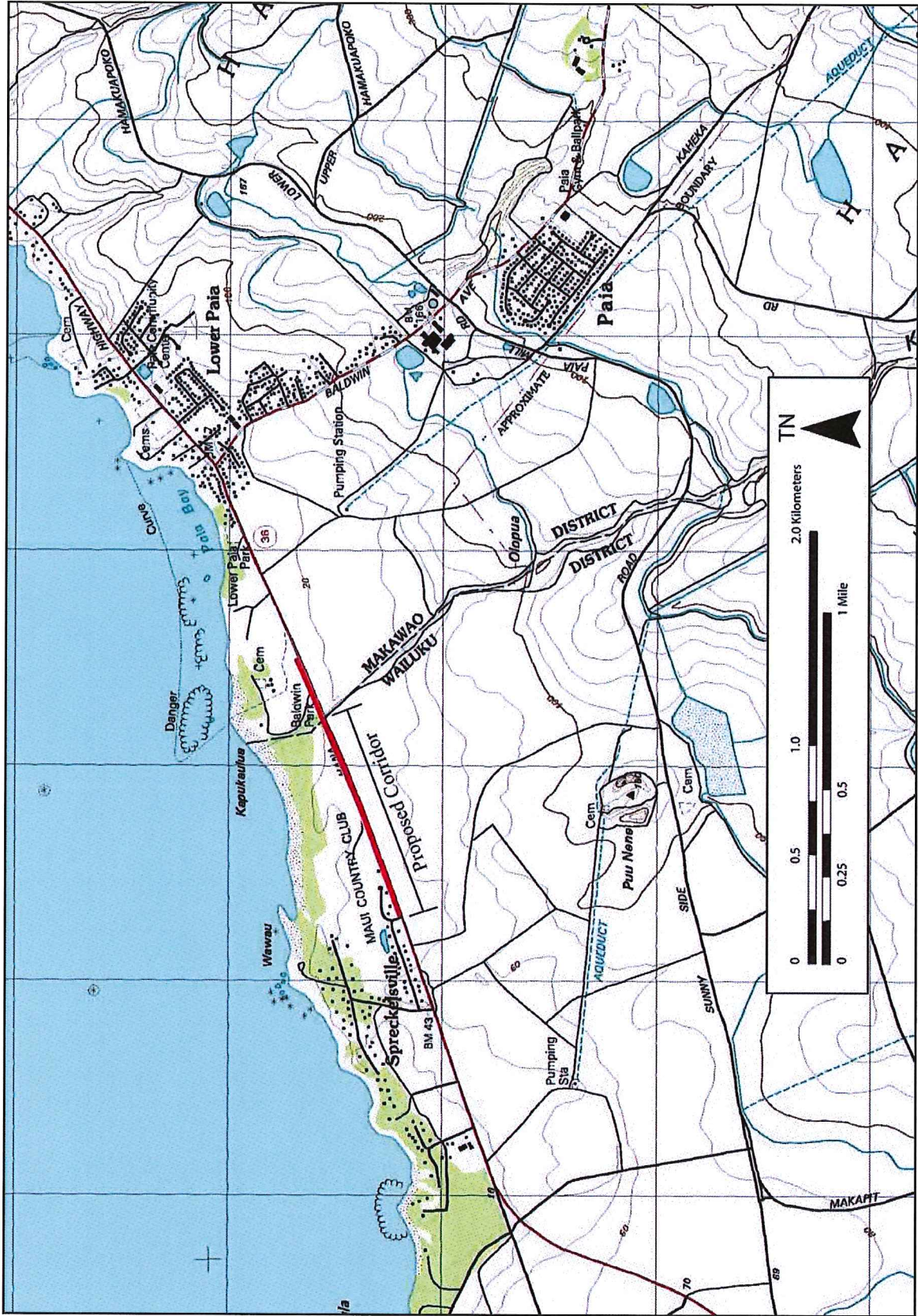


Figure 1: USGS Map Showing Location of Proposed North Shore Greenway Corridor.



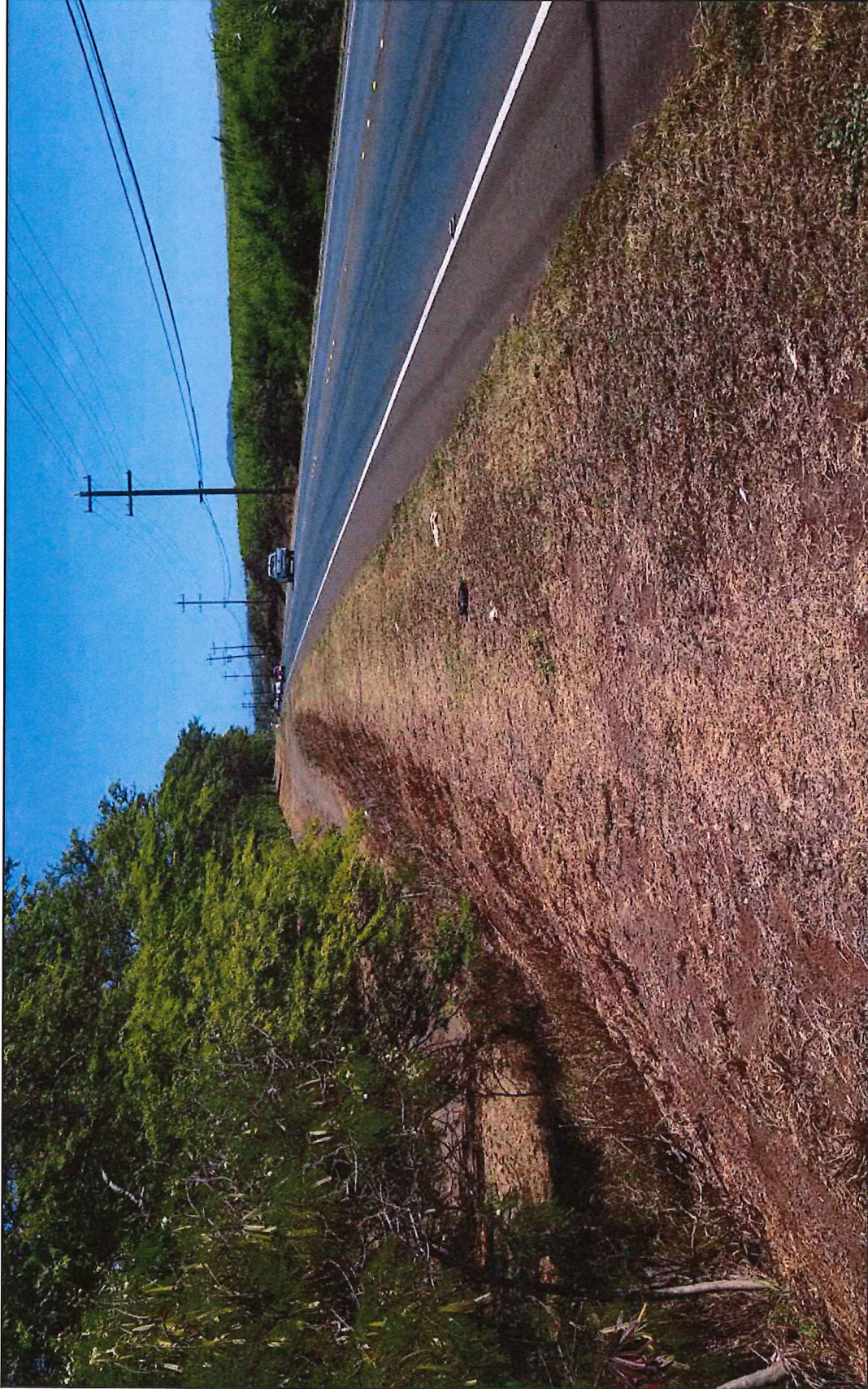




**Figure 4: Aerial View of Proposed North Shore Greenway Corridor.**

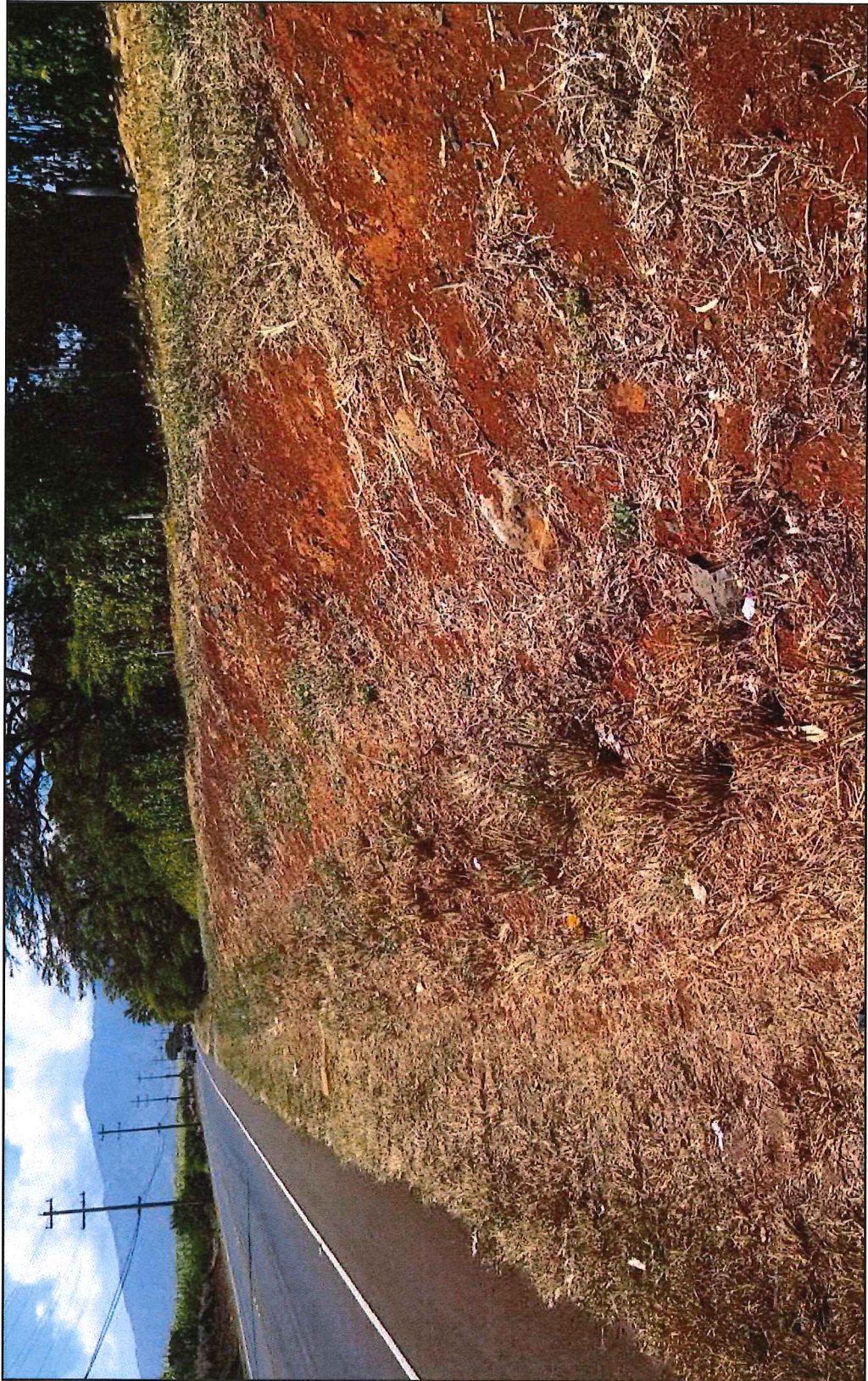


**Figure 5: Western End of Proposed Corridor. View to East.**



**Figure 6: Middle Section of Proposed Corridor. View to East.**





**Figure 7: View of Road Cut on Eastern End of Corridor. View to West.**

# **APPENDIX D-1.**

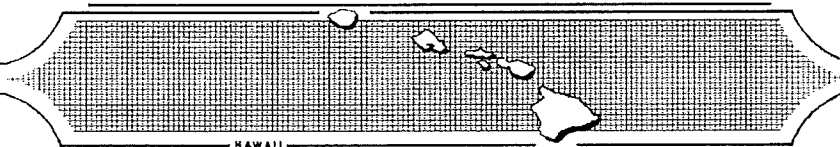
## **Archaeological Monitoring Plan**

**AN ARCHAEOLOGICAL MONITORING PLAN  
FOR THE PROPOSED NORTH SHORE GREENWAY PHASE IV:  
ULUPUA PLACE TO H.A. BALDWIN PARK  
PROJECT NUMBER 12-35  
HALIIMAILE AHUPUA'A, MAKAWAO DISTRICT AND  
HOKUULA AHUPUA'A, WAILUKU DISTRICT  
ISLAND OF MAUI, HAWAII  
[TMK (2) 2-5-005:046 por., 3-8-001, and 3-8-001:071 (por.)]**

Prepared by:  
**Michael F. Dega, Ph.D.**  
November 2013  
**DRAFT**

Prepared For:  
**Munekiyo and Hiraga, Inc.**  
305 High Street, Suite 104  
Wailuku, HI 96793

**SCIENTIFIC CONSULTANT SERVICES Inc.**



1347 Kapiolani Blvd., Suite 408 Honolulu, Hawai'i 96814

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## INTRODUCTION

Scientific Consultant Services (SCS), Inc. has prepared this Archaeological Monitoring Plan (AMP) in advance of proposed development for the North Shore Greenway-Phase IV in Haliimaile Ahupua`a, Makawao District and Hokuula Ahupua`a, Wailuku District, Island of Maui, Hawai`i [TMK: (2) 2-5-005:046 por., 3-8-001, and 3-8-001:071 por.] (Figures 1, 2 and 3). The proposed greenway consists of a c. 3,500 foot linear corridor from Ulupua Place to the eastern extent of H.A. Baldwin Beach Park. The project proposal is to construct a pedestrian walkway/bikeway on the *makai* (northern) shoulder area of Hana Highway (State Route 36). The greenway will primarily follow Hana Highway, although limited right-of-way width may require the greenway to deviate from the highway.

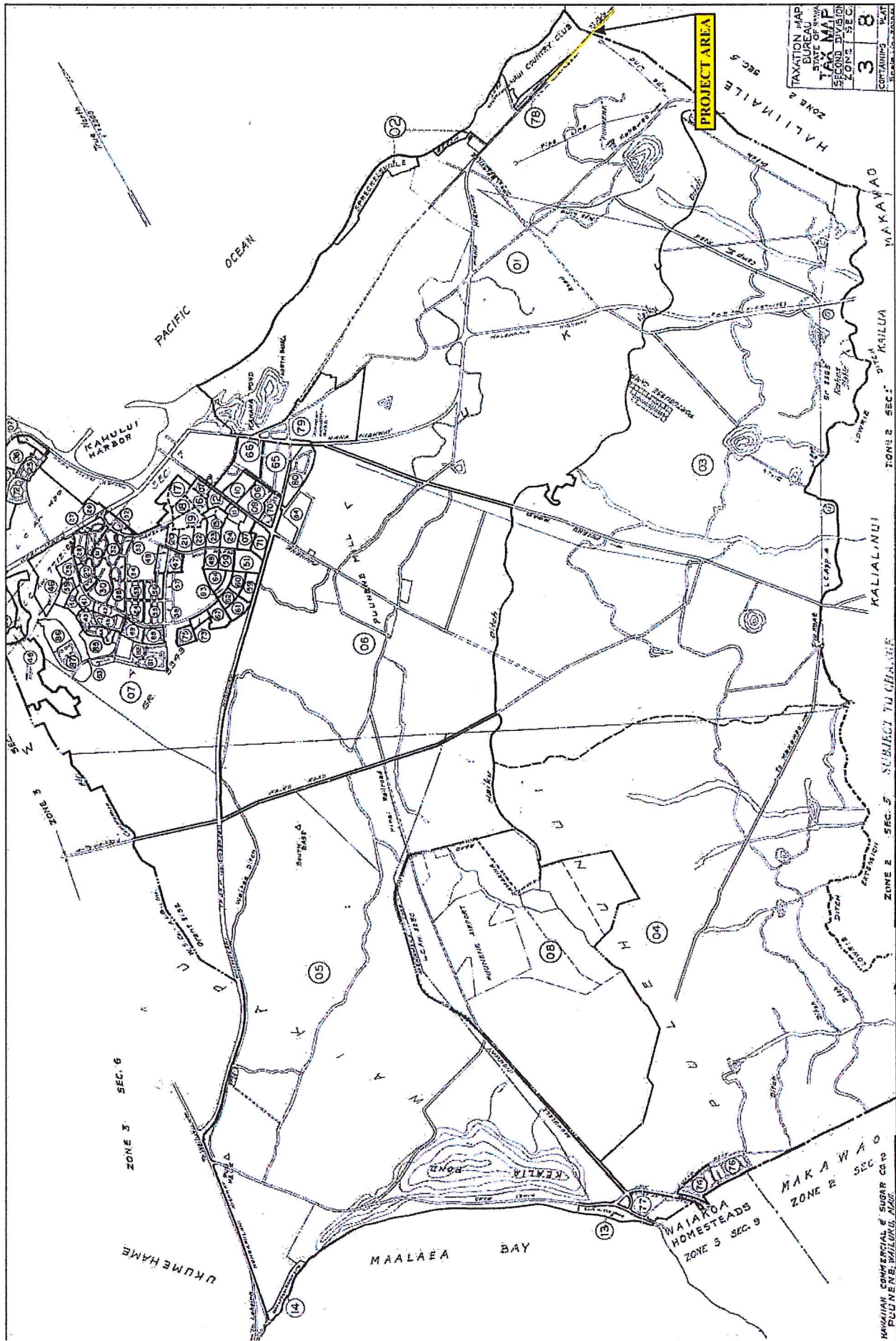
The current AMP document follows a 2013 Archaeological Field Inspection of the entire project area corridor and environs (Perzinski and Dega 2013). The Field Inspection was conducted by full pedestrian survey of the project area. No historic properties were identified on the surface of the project corridor. That the corridor is a built environment was confirmed during the survey. Finally, there was no evidence that sandy deposits will be present in the project area. Soils along the corridor are red/reddish brown silty clays exclusively.

Archaeological Monitoring is required due to the potential for the inadvertent discovery traditional or historic cultural deposits and/or human burials in subsurface contexts. The present Monitoring program will also ensure that any human remains found during subsurface work are identified and mitigated, as deemed appropriate and lawful under Hawai`i State Law for the Inadvertent Discovery of Human Remains (pursuant to 13-300-40a, b, c, HAR). This AMP will also ensure that if cultural deposits are identified, the work will satisfy reporting requirements outlined in §13-279-5(5) through (6).

This AMP will require the approval of the State Historic Preservation Division (SHPD-Maui) prior to the commencement of any ground altering activities for the park. The following text provides more detailed information on the reasons for monitoring, potential site types to be encountered during excavation, monitoring conventions and methodology for both field and laboratory work, as well as discusses curation and reporting.



Figure 1: USGS Quadrangle Map Showing Project Area and Environs.



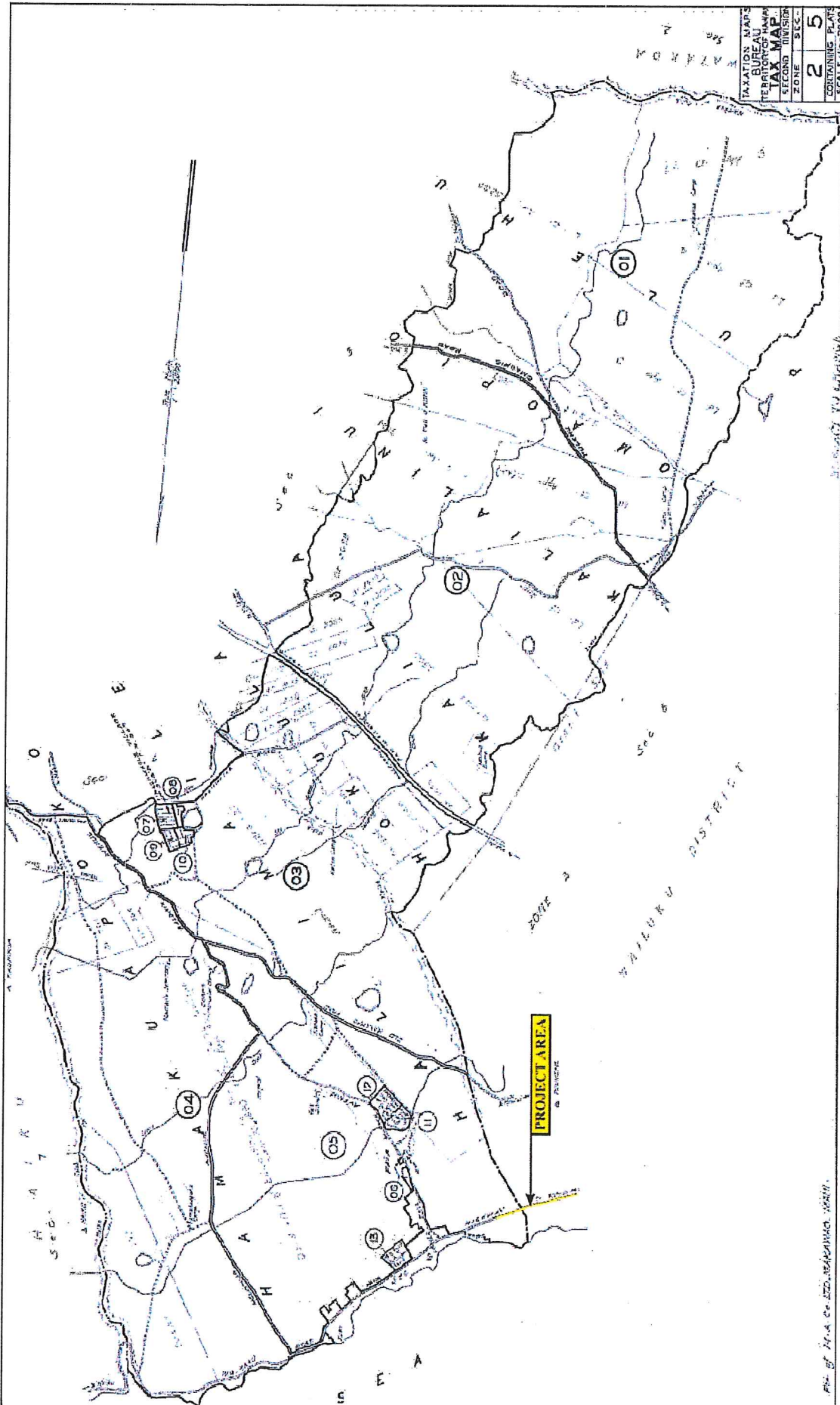


Figure 2a and 2b: Tax Map Key [TMK] Showing Project Area.



## REASON FOR MONITORING

Archaeological Monitoring during this project was requested as a pro-active measure by the client, and likely concurrence by the SHPD. Monitoring is based on the sensitivity of the corridor location (see below), and also determined through a comprehensive review of previous archaeological studies conducted in the vicinity of the current project area. Based on these archaeological findings and studies conducted in similar environments throughout the Hawaiian Islands, coastal regions are known to contain human remains and traditional or historic cultural deposits in subsurface strata. While the sediments generally associated with this project appear to be fill and silty clays, there is the potential for identifying sand dune soil deposits, which do often contain pre-Contact and historic era burials and cultural deposits. Thus, a program of full-time Archaeological Monitoring is proposed for the greenway corridor. This strategy will be enforced as a measure of ensuring that any identified cultural materials or deposits are adequately documented, mitigated, and assessed for their significance.

## LOCATION AND ENVIRONMENTAL SETTING

The c. 3,500 project area corridor extends along the Hana Highway right-of-way between Ulupua Place and the eastern flank of H.A. Baldwin Park (see Figures 1 and 2). The eastern terminus of the greenway connects into an existing segment of the H.A. Baldwin Park Bikeway. From east to west along the corridor, the route passes by undeveloped land owned by Alexander and Baldwin, H.A. Baldwin Park, the Maui Country Club, and c. eight residential plots near the western terminus. The greenway is bordered by these lands on the north and Hana Highway to the south, east, and west as it occurs within the right-of-way.

Foote *et al.* (1972, Sheets 103& 104) indicate that the primary soil series in the project area corridor are associated with the Pulehu Series (PpA, PpB), well-drained soils on alluvial fans and stream terraces and in basins (Foote *et al.* 1972:115-116). These soils are primarily clay loam developed in alluvium from basic igneous rock and are level to moderately sloping. Elevations range from sea level to c. 300 feet above mean sea level (amsl). This series is associated with sugarcane, truck crops, pasture, home sites, and wildlife habitat (*Ibid.*). The second series within the project area, particularly along the western side of the corridor, is composed of the Molokai Series (Foote *et al.* 1972:96). These soils formed in material weathered from basic igneous rock and have a silty clay texture (*Ibid.*). The soils are level to moderately sloping and are present from sea level to 1,000 ft. amsl. The series is associated with industrial-level cultivation (cane, pineapple), home sites, and wildlife habitat. The final soil series, occurring to the North of the corridor, consists of Dune Land (DL). At present the

corridor does not extend into DL, but given potential deviations given right-of-way width, this series should be included. According to Foote *et al.* (*ibid*: 29), DL is comprised of aeolian deposits of sand-sized bits of coral and marine shell. These deposits have developed along the coastal regions of Maui at elevations ranging from sea level to 150 feet above mean sea level (amsl). As these deposits are constantly shifting soil horizons have not been able to develop. Rainfall in these coastal regions ranges from 15 to 90 inches annually (*ibid*). Use of Dune land areas includes recreation and wildlife habitats. The naturally occurring vegetation consists of ironwood trees, *koa haole*, *kiawe*, and mixed grasses (*ibid*).

The current project area exists in a highway right-of-way, the Maui Country Club, and H.A. Baldwin Park, a built environment. As such, there is an expectation that upper level sediments will likely be fill layers associated with highway construction, as well as golf course and parking lot construction. Given the depth of excavation work for the project (down c. 1-2 ft below surface), there is the possibility that natural soils will not be encountered, just fill layers.

The current project area sits at an average elevation of 15-20 ft. amsl. Rainfall in the area of Pā`ia is consistent throughout the year, averaging about 4 to 6 inches of rain per month for a yearly average of approximately 30 inches (Armstrong 1973). Vegetation in the proposed corridor is fairly non-existent, given its current use as highway right-of-way.

## TRADITIONAL AND HISTORICAL SETTING

### PRE-CONTACT PERIOD

During traditional times, the division of Maui's lands into districts (*moku*) and sub-districts was reportedly performed by a *kahuna* named Kalaiha`ohia, during the time of the *ali`i*, Kaka`alaneo (Beckwith 1940:383; Fornander places Kaka`alaneo at the end of the 15<sup>th</sup> century or the beginning of the 16<sup>th</sup> century [Fornander 1916/17, Vol. 6:248]. Further land divisions within the *moku* were *ahupua`a*, smaller land segments which ideally incorporated all the terrestrial and marine resources necessary for traditional subsistence strategies. The ancient subdivisions of *ahupua`a* were said to have been established approximately 500 years ago and have remained relatively unchanged to present times, even though systems of land tenure themselves have gone through radical changes (Sterling 1998:3).

Traditionally, Wailuku and Lāhainā were the main population centers on Maui (Kirch 1985). Both settlements were associated with *ali`i* and chiefly seats of power (Sterling 1998:74-93; Kolb 1991:326). The valleys at the base of the West Maui Mountains in Wailuku (*e.g.*, `Īao

Valley) were extremely fertile grounds containing permanent streams and supported extensive taro cultivation. Agricultural terraces spilled over onto the slopes at the entrances of valleys (in areas which Wailuku town now occupies) and the taro was fed by mountain rains (Handy 1940:108, in Sterling 1998:75). Kihapai or small gardens were cultivated throughout Wailuku Valley while royal residences were located nearby at Pihana and Kalanihale. Oral histories and ethnohistoric accounts indicate that while primary activities occurred within the Wailuku area, coastal areas like Pā`ia supported smaller scale agricultural endeavors such as sweet potato cultivation, and was a primary source of a variety of readily available marine resources. This includes areas within and near the current project area.

Oral histories also indicate that both frequent and intermittent battles, between polities of Maui and Hawai`i Island (c. 1700s), occurred in the coastal sands of Wailuku and in upland valleys. In the sand dunes between Wailuku and Pu`unene, Kalaniopu`u's most prized Alapa guard was slaughtered by Kahekili's warriors (Sterling 1998:88). Kamakau (1961:85-89) states:

...They slew the Alapa on the sandhills at the southeast of Kalua (sic). There the dead lay in heaps strewn like kukui branches; the corpses lay heaped in death; they were slain like fish enclosed in a net....

On the day of Kalaniopu`u's departure from Maui, it was said that his war canoes covered the sands from Kahului to Pā`ia (I`i 1983:11).

Due to the frequent wars and battles occurring in and around the northern coast of Maui, it is conceivable that the dunes of Pā`ia acted as a final resting place of fallen warriors. A description of such pertaining to the area near present day Spreckelsville reads:

In returning from Makawao to Wailuku...you will ride over fine white sand-hills, as pure and crinkled as a drift of new fallen snow...One sand hill in that vicinity has been an old burying- ground or battle-place, now laid bare by the winds. Skulls, having jaws in perfect preservation, with thirty four teeth sound ...and all the bones of the human body, some of them of gigantic size, lie bleaching all around (Cheever in Sterling 1998:97).

## **POST-CONTACT PERIOD**

In the late 1840s, drastic changes in traditional land tenure systems resulted in a division of island lands and a system of private ownership based on Western law. While a complex issue, many scholars believe that in order to protect Hawaiian sovereignty from foreign powers, Kamehameha III (Kamehameha III) was forced to establish laws changing the traditional Hawaiian

society to that of a market economy (Daws 1968:111; Kuykendall Vol. I, 1938:145 footnote 47,152,165-6, 170; Kame`eleihiwa 1992:169-70,176). Among other things, foreigners demanded private ownership of land to insure their investments (Kuykendall Vol. I, 1938:138, 145, 178, 184, 202, 206, 271; Kame`eleihiwa 1992:178). Once lands were made available and private ownership was instituted, native Hawaiians, including *maka`ainana* (commoners), were able to claim the plots they were cultivating and living on, if they had been made aware of the foreign procedures. This land division, or *Māhele*, occurred in 1848. The awarded parcels were called Land Commission Awards (LCAs). If occupation or use of a plot could be established through the testimony of witnesses, petitioners were issued a Royal Patent number and could then take possession of the property. Commoners claiming houselots in Honolulu, Hilo, and Lahaina were required to pay commutation to the government before obtaining a Royal Patent on their land (Chinen 1961:16).

During the *Māhele* of 1848, Wailuku Ahupua`a was designated as Government Land. As such, there are no known LCAs in that portion of the project area or within the other portions as well. In the 1860s, lands that would later become sugarcane cultivation parcels around Pu`unene, directly south of the Maui Country Club, were described as:

... a complete desert, a great, barren stretch of sand and dust spread from Wailuku to Pā`ia, except for a little cattle grazing land around the present location of Spreckelsville. (Burns 1991:72).

The sugarcane industry utilized this portion of Maui to cultivate the plants that became a major industry. The Hawaiian Commercial Company, formed by Spreckels, developed the area around and to the west of Spreckelsville. Concurrently, the S.T. Alexander and H.P. Baldwin Company developed the area east of Spreckelsville up to, and including, Pā`ia. In 1880, Claus Spreckels managed to acquire fee simple title to Wailuku Ahupua`a (approximately 440,000 acres, Grant 3343), including the Wailuku Commons that had been Crown Lands owned by Ruth Ke`elikolani. In 1926, Alexander and Baldwin acquired Spreckels' Hawaiian Commercial Company interests in Maui.

The growth of the sugar industry was augmented by imported labor from foreign lands. The various ethnic groups that provided needed labor to fuel a large plantation economy is reflected in the names of the various labor camps surrounding the Pā`ia area: Hawaiian Camp, Russian Camp, Spanish Camp, Portuguese Camp, Chinese Camp, and Japanese Camp. A total of thirteen camp communities were formed and situated throughout the sugar lands and towns appeared at Pu`unene and Spreckelsville (USGS 1922 Pā`ia and Kihei Quads).

Railroads constructed by the sugar companies facilitated communication between the camps and provided transportation for hauling sugarcane. Remnants of the railroad bed are still evident at the western end of Puna Road in Pā`ia, and a section of a railroad berm was encountered during testing at the Maui Country Club. Labor camps were consolidated and relocated over time, with some having developed into modern urban centers such as Kahului and Wailuku. Remnants of these former camps remain in the form of small, scattered cemeteries that occur along the coastline near Pā`ia and Kuau. Historic period artifacts, including ceramics, bottle glass, metal objects, square nails, marbles, and other objects relating to daily activities in the sugar camps, have been documented in nearby sugarcane fields (Clark and Toenjes 1987:10).

With the outbreak of World War II, 3,800 acres of sugar land at Pu`unene and Kahului were annexed by the military for use as the Kahului Naval Air Station. In preparation for the construction of runways, several marshy areas were filled utilizing sand from nearby beach areas (Welch 1991). Support facilities, in addition to training structures, were built along the coast from Kahului northward up the coastline.

Modern construction activities have impacted, through grading and sediment removal, large portions of the lands near the project area. More specifically, residential development, automobile access roads, everyday pedestrian use, and refuse dumping activities have all impacted the area significantly. The current project area primarily occurs in the highway right-of-way, a built environment.

### PREVIOUS ARCHAEOLOGY

Early archaeological studies conducted on Maui primarily included recording *heiau* sites along the coastline in 1909 and 1916 by Thrum and Stokes respectively, and an island-wide site survey in 1928 conducted by Winslow Walker (1931). Walker identified one site near the current project area named Kailua Heiau, located near Kailua Gulch approximately 0.50 mile west of Pā`ia Road. The site was recorded as a platform measuring 50 x 80 feet and was probably destroyed during sugarcane cultivation (Walker in Sterling 1998:97).

Many archaeological sites are present in the general vicinity of the project area. Some of these sites, including Kanahā and Mau`oni fishponds, located on the east end of Kahului, have been preserved. These fishponds have been classified as *loko wai* or fresh water ponds by Kikuchi (1973). This type of pond was originally a natural lake or marsh area that was fortified

through human intervention. Kikuchi (1973) states that a stone wall that separates the two ponds was constructed in the early part of the 16<sup>th</sup> century by the Maui chief Kiha-a pi`ilani.

Clark and Toenjes (1987) conducted a study along the northern Maui shoreline. Six subsurface cultural features were identified during the survey; several of these are located in close proximity to the project area. The sites were functionally interpreted as traditional Hawaiian fishing and habitation sites (Clark and Toenjes 1987). Charcoal samples submitted for dating from this study yielded dates of A.D. 1420-1810 for coastal occupation. Burials were also identified during the study (*ibid.*). The Baldwin Beach Burial Site (State Site No. 50-50-05-1171) is located along the western portion of the H.A. Baldwin Park (*ibid.*).

State Site No. 50-50-05-1063, representing the Ku`au Petroglyphs, are located southwest of Ku`au peninsula. The petroglyphs have been cut into a boulder located on a coral sand beach near an intermittent drainage. The boulder itself is 2.2 m in diameter by 0.7 m high and is inscribed with five linear human figures (Clark and Toenjes 1987:12). Associated with the Ku`au Petroglyphs, a modified boulder occurring 16 m to the south of the petroglyphs and measuring 2.4 m long by 1.4 m wide, exhibits a shallow linear groove 0.36 m long that has been carved across the central portion of the boulder's surface. The groove is surrounded by at least ten shallow, smooth depressions ranging from 0.18 m to 0.33 m in diameter. The modifications to the boulder have been interpreted to represent adze sharpening grooves. The depressions are undoubtedly the result of grinding and polishing adzes in the later stages of adze manufacture (*ibid.*).

North of lower Pā`ia, near Ku`au Bay, State Site No. 50-50-05-1064, known as the Kalahau Burials, has been the focus of much archaeological attention. Human remains have been eroding from within this beach area for a number of years. Excavations conducted by Bowen (1968) revealed two separate cultural layers, providing evidence for both traditional habitation and human burials. These endeavors exhibited two distinctive periods of Hawaiian occupation, however, no radiocarbon dates have been obtained. Another study at this site, conducted by Borthwick (1990), revealed a pre-contact cultural layer. Samples collected from a cultural stratum in the dune resulted in a radiocarbon date of c. A.D. 1100. To date, over 44 burials have been removed from the area (Conte 1999).

Subsurface testing conducted in 1991 on either side of Spreckelsville Beach Road led to the identification of several cultural deposits (State Site No. 50-50-04-2849) (Toenjes *et al.* 1991). Radiocarbon dates from documented cultural layers yielded occupation ranges of A.D.

1230 to 1765. One radiocarbon sample from the shoreline yielded a very early date of A.D. 410 to 615 (*ibid.*).

Archaeological subsurface testing of the Ku`au Beach lots subdivision consisted of the excavation of nine trenches. Testing results revealed that dune deposits were located makai or north of the existing beach road. However, no archaeological sites or features were identified within the project area (Hammatt 1997).

To the east of the current project area, Fredericksen and Fredericksen (2004) conducted fieldwork for any Archaeological Assessment in a portion of former sugarcane lands (TMK:2-5-05: por. 18). Fourteen power poles were to be installed by MECO in the area. The Assessment and subsequent monitoring, during which fourteen holes 2.0-2.3 m deep were excavated, did not reveal the presence of cultural deposits.

Along the eastern flank of the current project area, Rotunno-Hazuka and Pantaleo (2005) conducted Archaeological Monitoring for the installation of fifty-three steel power poles from Baldwin Park to Holomua (TMK:2-5-05:18). The authors note the presence of Kalahau Cemetery (Site -1064), Hamakuapoko burials, and Kuau petroglyphs (Site -1063) nearby the project area. The Archaeological Monitoring Report for this project was not available at the SHPD office to discuss the results in this document.

An Archaeological Assessment was conducted on a 9.262-acre parcel in Paia, Hamakuapoko Ahupua`a (TMK:2-5-05: 18 and 61 pors.) by Fuentes *et al.* (2011). This project area is to the southeast of the current project area, nearer Paia Town. Both survey and testing, the latter via fourteen stratigraphic trenches, only revealed till-zone soils associated with expansive sugarcane cultivation, as is common along the southern flank of the Hana Highway in this area.

Near the central and western portion of the current greenway project area, SCS conducted multiple phases of work at the Maui Country Club. This work included Archaeological Inventory Survey (AIS), Burial Treatment (BTP), Monitoring, and preparation of a Cultural Impact Assessment.

O'Rourke (2004) conducted pedestrian survey and testing of approximately 1400 m<sup>2</sup> of land in the Maui Country Club, a 65-acre parcel located between Spreckelsville and Pā`ia, in the *ahupua`a* of Wailuku, Wailuku District, Maui Island, Hawai`i [TMK: 3-8-78:01]. Subsurface

testing was conducted on two occasions: approximately 400 m<sup>2</sup> of land immediately surrounding the Clubhouse along its north, east, and west sides, including the service driveway, were tested from December 15 to 17, 2003. The second testing program was conducted from April 19 to 21, 2004; it focused solely on approximately 1000 m<sup>2</sup> on the open lawn area located immediately to the north of the Clubhouse. Pedestrian survey of the project area failed to reveal the presence of extant surface features of a traditional nature, not at all surprising considering the high degree of alterations the area has undergone in the 20<sup>th</sup> century. Trenching did yield positive results. Part of a late 19<sup>th</sup>/early 20<sup>th</sup> century railroad berm was encountered in one unit (State Site # 50-50-05-5562). Numerous modern subsurface features were encountered, including various modern *imu* associated with the Maui Country Club's annual *luau*, and a concrete cistern embedded in a reddish clay matrix (State Site # 50-50-05-5561). Although no *in situ* traditional features were encountered, human remains were found in the sand fill associated with the cistern. The human remains consisted primarily of post-cranial skeletal fragments of one individual (State Site Number 50-50-05-5563) and was preserved, following an accepted BTP (O'Rourke 2005). Finally, as a historic structure, the Clubhouse was given the following State Site Number: 50-50-05-5502. Monitoring around the Clubhouse and along an adjacent golf course pathway did not lead to the identification of cultural resources (O'Rourke-personal communication).

### **POTENTIAL SITE TYPES TO BE ENCOUNTERED**

Based on archival research and previous archaeology conducted near the project area, expected findings of the Monitoring Program are as follows:

1. There is essentially no expectation of finding any Traditional or Historic sites or features on the present greenway ground surface. The route goes along a built environment (highway, golf course, park).
2. There is limited expectation, within the corridor itself, that subsurface cultural deposits will be identified. Upper layers of sediment consist of fill, with natural sediments occurring below the presumed 1-2 foot excavation level. Soils in this area are also predominantly silty clay and clays, not sand, and associated with former cane fields.
3. If the corridor goes beyond the right-of-way perimeter width to the north, there is the slight chance that sand dune deposits may be encountered. If so, there is the high potential for the identification of pre-Contact/Historic-era cultural deposits and burials of both periods. Again, this is partially dependent upon the depth of project excavations.

### **MONITORING CONVENTIONS AND METHODOLOGY**

This AMP has been outlined in accordance with DLNR/SHPD administrative rule 13-279. Archaeological monitors will adhere to the following guidelines during monitoring procedures:



1. A qualified archaeologist familiar with the project area and the results of previous archaeological work conducted in the general area, will monitor ground altering activities associated with the project. If significant deposits or features are identified and additional field personnel are required, the archaeologist will notify the contractor or representatives before additional personnel are brought to the site.
2. One archaeologist is required to Monitor for each piece of ground altering equipment.
3. If features or cultural deposits are identified during Archaeological Monitoring, the on-site archaeologist will have the authority to temporarily suspend construction activities at the significant location so that the cultural feature(s) or deposit(s) may be fully evaluated and appropriate treatment of the cultural deposit(s) is conducted. SHPD will be consulted to establish feature significance and potential mitigation procedures. Treatment activities primarily include documenting the feature/deposit through plotting its location on an overall site map, illustrating a plan view map of the feature/deposit, profiling the deposit in three dimensions, photographing the finds (with the exception of human burials), artifact and soil sample collection, and triangulation of the finds. Construction work will only continue in the significant location when all documentation has been completed.
4. Control stratigraphy in association with subsurface cultural deposits will be noted and photographed, particularly those containing significant quantities or qualities of cultural materials. If deemed significant, these deposits will be sampled.
5. In the event that human remains are encountered, all work in the immediate area of the find will cease; the area will be secured from further activity until burial protocol has been completed. The SHPD island archaeologist and SHPD-Cultural Historian will both be immediately notified about the inadvertent discovery of human remains on the property. Notification of the inadvertent discovery will also be made to the Maui/Lanai Islands Burial Council by SHPD. A determination of minimum number of individuals (MNI), age(s), and ethnicity of the burial(s) will be ascertained in the field, following standard osteological procedures (*e.g.*, White and Folkens 2000). Rules outlined in Chapter 6E, Section 43 shall be followed. Profiles, plan view maps, and illustrative documentation of skeletal parts will be recorded to document the burial(s). The burial location will be identified and marked. If a burial is disturbed, materials excavated from the vicinity of the burial(s) will be manually screened through 1/8-inch wire mesh screens in order to recover any displaced skeletal material. If the remains are to be removed, the work will be in compliance with HRS 6.E-43.6, Procedures Relating to Inadvertent Discoveries after approval from all parties (SHPD, Burial Council). All remains recovered from the site will be temporarily stored in a secure, on-site location until final disposition is determined and completed.
6. To ensure that contractors and the construction crew are aware of this AMP and possible site types to be encountered on the parcel, a brief coordination meeting will be held between the construction personnel and monitoring archaeologist prior to initiation of the

7. The contracting archaeologist shall provide all coordination with the contractor, SHPD, and any other group involved in the project. The archaeologist will coordinate all monitoring and sampling activities with the safety officers for the contractors to ensure that proper safety regulations and protective measures meet compliance. Close coordination will also be maintained with construction representatives in order to adequately inform personnel of the possibility that open archaeological units or trenches may occur in the project area.
8. As necessary, verbal reports will be made to SHPD and any other agencies as requested.

### **LABORATORY ANALYSIS**

All samples collected during the project, except human remains, will undergo analysis at the SCS laboratory on Maui. In the event that human remains are identified and the SHPD authorizes their removal, these remains and all associated cultural materials will be curated on-site. Photographs, illustrations, and all notes accumulated during the project will be curated at the Maui laboratory of SCS. All retrieved artifact and midden samples will be sent to the SCS laboratory on Maui to be cleaned, sorted, and analyzed. Significant artifacts will be photographed, sketched, and classified (qualitative analysis). All metric measurements and weights will be recorded (quantitative analysis). This data will be presented in tabular form within the final monitoring report. Midden samples will be minimally identified to major 'class' (e.g., bivalve, gastropod mollusk, echinoderm, fish, bird, and mammal). All data will be clearly recorded on standard laboratory forms which also include number and weight (as appropriate) of each constituent category. These counts will also be included in the final report.

Should any samples amenable to dating be collected from a significant cultural deposit, they will be prepared in the SCS laboratory and submitted for specialized radiocarbon analysis. While primary emphasis for dating is placed on charcoal samples, we do not preclude the use of other materials such as marine shell or nonhuman bone materials. SCS will consult with SHPD and the client if radiocarbon dates are deemed necessary.

All stratigraphic profiles will be drafted for presentation in the final report. Representative plan view sketches showing the location and morphology of identified sites/features/deposits will be compiled and illustrated.

### **CURATION**

If requested by the landowner, SCS will curate all recovered materials on Maui (except human remains, which would remain on-site) until a permanent, more suitable curation locale is identified. The land owner(s) may request to curate all recovered materials once analysis has been completed.

## **REPORTING**

An Archaeological Monitoring report documenting the project findings and interpretation, following SHPD guidelines for Archaeological Monitoring reports, will be submitted within 180 days of the completion of fieldwork. This time line is requested to account for any radiocarbon age determinations (typically 60 days), if necessary.

If cultural features or deposits are identified during fieldwork, the sites will be evaluated for historical significance and assessed under State and Federal Significance Criteria. The Archaeological Monitoring report will be drafted until accepted by SHPD and will be submitted to both SHPD and to the client.

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## **APPENDIX D-2.**

**State Historic Preservation  
Division Letter Dated  
February 27, 2014**





**HISTORIC PRESERVATION DIVISION  
DEPARTMENT OF LAND AND NATURAL RESOURCES**

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

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

ESTHER KIA'AINA  
FIRST DEPUTY

WILLIAM M. TAM  
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES  
BOATING AND OCEAN RECREATION  
BUREAU OF CONVEYANCE  
COMMISSION ON WATER RESOURCE MANAGEMENT  
CONSERVATION AND COASTAL LANDS  
CONSERVATION AND RESOURCE ENFORCEMENT  
ENGINEERING  
FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION  
KAIHOLOLWE ISLAND RESERVE COMMISSION  
LAND  
STATE PARKS

February 27, 2014

Michael F. Dega, Ph.D.  
Scientific Consultant Services, Inc.  
1347 Kapiolani Blvd., Suite 408  
Honolulu, Hawai'i 96814

LOG NO: 2013.6506  
DOC NO: 1402MD38  
Archaeology

Aloha Dr. Dega:

**SUBJECT: Chapter 6E-8 and 6E-42 Historic Preservation Review-  
Draft Archaeological Monitoring Plan for the Proposed North Shore Greenway Phase IV  
Halimaile and Hoku'ula Ahupua'a, Makawao and Wailuku Districts, Island of Maui  
TMK (2) 2-5-005:046, 3-8-001, and 3-8-001:071 (all por.)**

Thank you for the opportunity to review the draft titled *An Archaeological Monitoring Plan for the Proposed North Shore Greenway Phase IV: Ulupua Place to H.A. Baldwin Park, Project Number 12-35, Halimaile Ahupua'a, Makawao District and Hoku'ula Ahupua'a, Wailuku District, Island of Maui, Hawai'i [TMK (2) 2-5-005:046 por., 3-8-001, and 3-8-001:071 (por.)]* (Dega; November 2013), which we received in November 2013. We apologize for the delay in our reply.

The monitoring plan was prepared in advance of the construction of a proposed bike and pedestrian path *maka* of a portion of the Hana Highway, at the request of Munekiyo and Hiraga, Inc. on behalf of the County of Maui. The proposed corridor would be along the Hana Highway right-of-way between Ulupua Place and the eastern side of H.A. Baldwin Park, extending approximately 3,500 feet. A field inspection was done on behalf of the County prior to the submission of this monitoring plan; no surface historic properties were encountered.

A program of full-time archaeological monitoring is proposed for the greenway corridor, and we concur with that recommendation. The proposed corridor would be a route through land owned by Alexander and Baldwin; the H.A. Baldwin Park; the Maui County Club; and eight residential plots near the western terminus. The greenway is bordered by these lands on the north and Hana Highway to the south, east and west as it occurs within the right-of-way.

The archaeological monitoring plan meets the requirements of Hawai'i Administrative Rule 13-279 and is accepted as final. We look forward to reviewing the monitoring plan for this project. Please send one hardcopy of the final document, clearly marked FINAL, along with a copy of this review letter and a text-searchable PDF version on CD to the Kapolei SHPD office, attention SHPD Library. We request that for the Final document, and for all future submittals, individual names of SHPD employees not be included in report and plan submittals. Simply state that the SHPD Archaeology Branch and the Culture and History Branch will both be notified upon the inadvertent discovery of historic cultural remains or burial sites. We kindly remind you to notify our Maui office of project initiation and completion. Please contact me at (808) 243-4641 or [Morgan.E.Davis@hawaii.gov](mailto:Morgan.E.Davis@hawaii.gov) if you have any concerns about this letter.

Mahalo,

Morgan E. Davis  
Lead Archaeologist, Maui Island Annex

# **APPENDIX E.**

## **Cultural Interviews**

## NORTH SHORE GREENWAY PHASE IV CULTURAL INTERVIEW

**Interview with:** Raymond Hew

**Interview date:** September 20, 2013

**Interviewed by:** Colleen Suyama, Senior Associate  
Munekiyo & Hiraga, Inc.

The interview with Raymond Hew took place at the offices of Munekiyo & Hiraga, Inc. on September 20, 2013. Raymond Hew was born in Wailuku, Maui 65 years ago to Kui Seu Hew and Gladys Fong Hew, whose family ties are with the Fong and Ching families in Keokea, Kula, Maui. He has a brother Leslie who lives in Long Beach, California and a sister Janice who lives on Oahu.

Raymond Hew is the President and general manager of Ah Fooks Supermarket. Mr. Hew's connection to Ah Fooks Supermarket is through his mother's sister Margaret Fong who married Tam Ah Fook. Mr. Hew's ties to Paia are through his grandparents whom he visited every Sunday as a boy until the sixth grade. His grandfather owned the two-story house on Hana Highway located just past the basketball courts and Paia Youth Center. His aunt Ah Keen Hew inherited the house from his grandfather. The home was sold in 2005 and is currently used as a business. Mr. Hew remembered the Paia-Kuau area as a plantation town with only a few homes. The area has since changed, with a number of new homes and businesses in the area.

Mr. Hew remembers visiting the Paia Chinese Cemetery located on the ocean-side of Hana Highway before the Paia Mantokuji Mission with his father. Mr. Hew is the current President of the association that manages the cemetery. As a youth Mr. Hew remembers swimming and fishing along the shoreline from the Lime Kiln area east of Baldwin Beach Park to the bunkers and the Iwamoto Factory area in Paia Town. Although Mr. Hew no longer swims or fishes in the area, these activities still continue today. At the Maui Country Club near the tennis courts there is a protected area in the ocean that families with small children use. The area from the Country Club to Paia Town is used by beach goers.

Mr. Hew's connection to the area is also as a member of the Maui Country Club. Mr. Hew has been a member since 1989. Mr. Hew is also a past director and treasurer of the Club. Mr. Hew served for four years from approximately 1994 through 1998. Mr. Hew used to golf every Sunday with friends, however, many of whom have since passed away. Mr. Hew continues to golf at the Country Club but not as often as he used to.

The triangular lot on the eastern side of the nearby Maui Country Club Subdivision was formerly owned by Mr. Hew. The vacant lot was sold around 1997. Since then a house has been built on the property.

Mr. Hew voiced concern for the project since the high volume of vehicular traffic and speeding along Hana Highway toward Kahului is a problem in the area. Mr. Hew voiced his concern whether there was enough room along the highway for the bike path to keep it safely away from the highway, especially in the area where the wiliwili trees are located.

Mr. Hew was made aware that an easement will be sought through the Maui Country Club property and voiced concern that the path could affect the golf course. The path will cross the entrance of the golf course's maintenance road and affect the property's fencing. Mr. Hew also, voiced concern that holes number 6 and 15 running along the highway will pose a safety problem to users of the path. There is the potential for golf balls being hit toward the path and highway. Users of the path should be made aware of this potential problem. Mr. Hew noted that County of Maui will need to coordinate with the Maui Country Club, to ensure that proper design mitigation measures are included in the plans.

Regarding possible burials or cultural sites, Mr. Hew was not aware of any burials, cultural sites, or cultural practices in the area of the proposed project.

## NORTH SHORE GREENWAY PHASE IV CULTURAL INTERVIEW

**Interview with:** Reverend Ryozo Yamaguchi

**Interview date:** October 1, 2013

**Interviewed by:** Colleen Suyama, Senior Associate  
Munekiyo & Hiraga, Inc.

The interview with Reverend Ryozo Yamaguchi took place at the Paia Rinzai Zen Mission on October 1, 2013. Reverend Yamaguchi was born in Japan 61 years ago. Reverend Yamaguchi became a monk in Japan when he was 14 years old. According to Reverend Yamaguchi he became a monk at an early age because his parents were concerned for his well-being. In addition to his ministerial commitment, he has practiced several professions as a historian, businessman, and teacher, and has lived outside of Japan for several years.

Reverend Yamaguchi arrived on Maui in 1987 from Toronto, Canada with his family. As a minister, who is conversant in Japanese and English, Reverend Yamaguchi came to replace Reverend Seido Chisaka and has been at the Paia Rinzai Zen Mission ever since. He raised his family in Paia and has a son and two (2) daughters.

The Paia Rinzai Zen Mission was established in 1932 by the Okinawan plantation community. The current church is the third church built on the site. The original church was destroyed by a tsunami in 1946 and the second church by fire in 1987, the year of Reverend Yamaguchi's arrival. The current church was built in 1989 after an extensive permitting process with the County of Maui. The church and its main buildings were built to be above the tsunami flood elevation.

As a historian Reverend Yamaguchi obtained his knowledge of the area by listening to the older members of his church and the community.

During the plantation days workers lived near their work place. At one time there was a camp at the nearby Lime Kiln area made up of Japanese and Korean workers and their families. A cemetery for these plantation families is located adjacent to the Paia Rinzai Zen church property, which is currently land-locked and leased by the Makawao Hongwanji Mission (formerly the Paia Hongwanji Mission). The cemetery contains the remains of both Japanese and Korean plantation workers and their families. Reverend Yamaguchi for several years has been taking care of this cemetery. Reverend Yamaguchi noted his concern that he has encountered people not respecting the graves in the cemetery.

Alawai Road which connects to Hana Highway and runs through Baldwin Beach Park currently ends at the church property. While the Lime Kiln was in operation, an unimproved portion of the roadway provided access to the Lime Kiln area and was used by the plantation trucks. This portion of the roadway is no longer in existence.

Reverend Yamaguchi noted that the beach sand areas along this stretch of the shoreline from Spreckelsville to Paia contain Hawaiian burials that are periodically exposed by shoreline erosion. During discussion of a shoreline alignment of the bikeway he and other community members walked along the proposed alignment. Community members noted their concerns that the undisturbed sand may contain Hawaiian burials.

Reverend Yamaguchi noted that in the past, people have mistaken the existing bike path as a roadway. During the church's Obon festival the grassed area of Baldwin Beach Park is used for parking and the parking attendants will direct people back to Alawai Road to exit the park so they do not mistake the bike path as a roadway.

According to Reverend Yamaguchi the Paia Rinzai Zen Mission encourages the continuation of the Okinawan culture and the history of its first (Issei) and second (Nisei) generation members to the next generation.

Other than the Hawaiian burials in the beach sand, Reverend Yamaguchi was not aware of any traditional Hawaiian traditions or culture in the area. However, the shoreline area is heavily used for recreation by both residents and visitors. Reverend Yamaguchi felt construction of the greenway was a wonderful improvement that would not affect users of H.A. Baldwin Park.

# **APPENDIX F.**

## **Engineering Assessment**



CIVIL ENGINEERING • LAND SURVEYING • CONSTRUCTION MANAGEMENT & INSPECTIONAL SERVICES

November 8, 2013

Munekiyo & Hiraga, Inc.  
305 High Street, Suite 104  
Wailuku, HI 96793

Attention: Ms. Colleen Suyama

**Re: Northshore Greenway, Phase IV  
Ulupua Place to H.A. Baldwin Park  
Project No. 12-35  
District of Makawao, Maui, Hawaii**

Ladies & Gentlemen:

Pursuant to your request, the following is our engineering assessment of the potential impact to existing infrastructure by the subject project:

1. Grading and Drainage - The proposed bikeway will be graded to maintain the existing drainage flow patterns in the area and is anticipated to create no adverse effect to adjacent and downstream properties.
2. Sewer - The proposed bikeway will have no effect on the existing 10" County sewer force main in the area.
3. Water - The proposed bikeway will have a minimal effect on the existing 8" and 12" waterlines in the area. Any water valve covers affected by the proposed bikeway will be lifted to match the finish grade of said bikeway.

The proposed bikeway will be routed around the Country Club water booster pumps.

4. Electrical/Telephone - The proposed bikeway will not require nor interfere with any existing overhead electrical or telephone service/lines in the area.

Should you have any questions or comments, please do not hesitate to contact me.

Very truly yours,

A handwritten signature in black ink, appearing to read "Kirk T. Tanaka".

Kirk T. Tanaka, P.E., L.S.  
President

KTT:sh

cc: Mr. Kurt Watanabe (via Email)