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STATE OF HAWAII  
DEPARTMENT OF HAWAIIAN HOME LANDS  
P.O. BOX 1879  
HONOLULU, HAWAII 96805

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OFFICE OF ENVIRONMENTAL  
QUALITY CONTROL

July 5, 2002

Ms. Genevieve Salmonson, Director  
Office of Environmental Quality Control  
Department of Health  
State of Hawaii  
235 South Beretania Street, Suite 702  
Honolulu, Hawaii 96813

Dear Ms. Salmonson:

Subject: Molokai Water System, Phase IV Project  
Finding of No Significant Impact (FONSI)  
and Filing of Final Environmental Assessment  
Palaau-Hoolehua Homestead, Hoolehua, Molokai

The Department of Hawaiian Home Lands (DHHL) has reviewed the Final Environmental Assessment (EA) for the subject project along with comments received on the Draft EA for the subject project during the 30-day public comment period that ended on March 25, 2002.

Consequently, DHHL has determined that this project will not have significant environmental effect and has issued a Finding of No Significant Impact (FONSI). Please publish this FONSI determination for this project in your next issue of the OEQC **The Environmental Notice**.

We have enclosed the following items for your use in this publication notice:

1. One copy of the OEQC Publication Form with project summary (project summary emailed to your office and hardcopy enclosed); and

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July 5, 2002  
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2. Four (4) copies of the Final Environmental Assessment.

The following information is provided which supports DHHL's FONSI determination.

**Identification of Proposing Agency**

State of Hawaii, Department of Hawaiian Home Lands

**Identification of Accepting Authority**

State of Hawaii, Department of Hawaiian Home Lands

**Brief Description of Proposed Action**

The Department of Hawaiian Home Lands (DHHL) is proposing to replace the existing water line within the right-of-way of Farrington Avenue, between Hauakea Avenue and Ala Ekolu Avenue. The project site is within the plats of Tax Map Keys: 5-2-07; 5-2-15; and 5-2-22 through 27. The improvements would involve the installation of approximately 17,900 feet of 8-inch, ductile iron water line to replace an existing 6-inch transite water line. This project would also allow for the installation of fire hydrants and lateral connections to surrounding homestead lots within this project corridor.

**Determination**

A Finding of No Significant Impact (FONSI) determination is warranted for the Molokai Water System, Phase IV Project. The results of the assessments conducted have determined that the water line improvements proposed would not have a significant impact on the surrounding environment.

**Reasons Supporting Determination**

The reasons supporting this determination are based upon the 13 Significance Criteria listed under Title 11, Chapter 200 (Environmental Impact Statement Rules) of the State Department of Health's Administrative Rules.

1. Involves an irrevocable commitment to loss or destruction of any natural or cultural resource. The

water system improvements would not result in the irrevocable commitment to loss or destruction of any natural or cultural resource. As discussed in the Final EA, the improvements would not negatively impact any natural or cultural resources of significance. There would be no threatened botanical, faunal, geological, or other natural resources since none are known to be present.

2. Curtails the range of beneficial uses of the environment. The project would not curtail the range of beneficial uses of the surrounding environment. The present use of the project site is a roadway. Surrounding areas are currently used as homestead and agricultural lands and historically as pineapple fields.
3. Conflicts with the State's long-term environmental policies or goals and guidelines as expressed in Chapter 344, HRS, and any revisions thereof and amendments thereto, court decisions, or executive orders. The water system improvements would not conflict with the State's long-term environmental policies or goals and guidelines as expressed in Chapter 344, HRS.
4. Substantially affects the economic, or social welfare, cultural practices of the community or State. The project would not have any significant negative impacts on economic factors, the Hoolehua community, or its existing rural character. This project is not expected to significantly affect traditional native Hawaiian cultural practices occurring in the area since improvements are within an existing roadway right-of-way.
5. Substantially affects public health. The improvements are not expected to substantially affect public health since it would mainly involve limited construction work. Best management practices would be incorporated into the project's design to further minimize nuisances.

6. Involves substantial secondary impacts, such as population changes or effects on public facilities. This project would not have substantial secondary impacts on the social environment or other infrastructure and public facilities since it only involves replacement of the existing 6-inch transite water line, and provides fire hydrants, and lateral connections to homestead lots.
7. Involves a substantial degradation of environmental quality. The improvements would not involve a substantial degradation to the quality of the surrounding environment. The Final EA discussed the probable impacts of environmental factors associated with these improvements which determined that it would not be adverse on the environment.
8. Is individually limited, but cumulatively has considerable effect upon the environment or involves a commitment for larger actions. This project only involves the improvements described for a specific section of the DHHL Molokai Water System and therefore does not involve a commitment for larger actions.
9. Substantially affects a rare, threatened, or endangered species, or its habitat. The project would not adversely affect any rare, threatened, or endangered species or its habitat as discussed in the Final EA.
10. Detrimentially affects air or water quality or ambient noise levels. This project would not have a detrimentially significant impact on air, water quality, or ambient noise levels in the immediate vicinity of the project site. Impacts associated with these factors would be limited to short-term construction activities.
11. Affects or is likely to suffer damage by being located in an environmentally sensitive area such as a flood plain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, fresh water, or

Ms. Genevieve Salmonson  
July 5, 2002  
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coastal waters. The project site is not located within an environmentally sensitive area such as those identified.

12. Substantially affects scenic vistas and viewplanes identified in county or state plans or studies. The project would not affect scenic vistas or viewplanes since there are none located along the roadway corridor or in the immediate vicinity.
13. Requires substantial energy consumption. The project would not require substantial energy consumption or increased electrical facilities because it only involves the replacement of the existing water line, installation of additional fire hydrants, and installation of lateral connections to homestead lots.

Should you have any questions regarding the contents or preparation of the Environmental Assessment, please contact Mr. Leo Asuncion of SSFM International, Inc. at 531-1308.

Should you have any additional questions or comments regarding the project itself, please call Mr. Patrick Young of our Design and Construction Branch, Land Development Division at 586-3918.

Alpha,



Raynard C. Soon, Chairman  
Hawaiian Homes Commission

c: Leo R. Asuncion, SSFM

JUL 23 2002

**FILE COPY**

2002-07-23-MO-**FEA-**

**FINAL ENVIRONMENTAL ASSESSMENT**

**FOR**

**DEPARTMENT OF  
HAWAIIAN HOME LANDS**

**MOLOKAI WATER SYSTEM  
PHASE IV PROJECT**



**JUNE 2002**



**Department of Hawaiian Home Lands**  
State of Hawaii  
1099 Alakea Street, 20th Floor  
Honolulu, Hawaii 96813

**FINAL ENVIRONMENTAL ASSESSMENT**

**FOR**

**DEPARTMENT OF  
HAWAIIAN HOME LANDS  
MOLOKAI WATER SYSTEM  
PHASE IV PROJECT**

**T.M.K: (2) 5-002-007; (2) 5-002-015; (2) 5-002-022 through 027  
PALAAU-HOOLEHUA HOMESTEAD, HOOLEHUA, MOLOKAI**

**JUNE 2002**

***PROPOSING AGENCY:***

**Department of Hawaiian Home Lands  
State of Hawaii  
1099 Alakea Street, 20th Floor  
Honolulu, Hawaii 96813**

***PREPARED BY:***



**SSFM International, Inc.  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817**

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## CHAPTER 1 INTRODUCTION

### 1.1 PURPOSE FOR ENVIRONMENTAL ASSESSMENT

The State of Hawaii (State), Department of Hawaiian Home Lands (DHHL) is proposing the Molokai Water System, Phase IV Project. This project involves the replacement of an existing 6-inch water line with approximately 17,900 linear feet of 8-inch, ductile iron water line, in addition to fire hydrants, and service laterals for connections to lots. The water line route is located within the rights-of-way of Farrington Avenue. This roadway is not identified by a specific Tax Map Key (TMK); however, the roadway is within the following TMK plats: 5-2-07; 5-2-15; and 5-2-22 thru 27 in the Palaau-Hoolehua Homestead, Hoolehua District of the Island of Molokai.

The purpose for this project is to upgrade the existing section of water line in the area due to its age (over 57 years). In addition, this replacement project would allow for providing accessory improvements such as fire hydrants and service laterals to accommodate anticipated development of homestead lots by lessees. This water line replacement and improvements would thus help to ensure the continued reliable service of potable water to the residents of the Palaau-Hoolehua Homestead area. Figure 1.1 shows the general location and vicinity of the project planned in the area of Hoolehua. Table 1.1 provides the summary of pertinent information associated with this project.

#### Proposing Agency And Accepting Authority

The Molokai Water System project would involve the use of State funds, and State and County lands for the installation of the new 8-inch water line, fire hydrants and service lateral connections for homestead lots. As a result, this project is subject to the environmental documentation requirements prescribed under Chapter 343, Environmental Impact Statements, Hawaii Revised Statutes (HRS) and Title 11, Chapter 200 (Environmental Impact Statement Rules) of the State Department of Health's Administrative Rules.

A Draft Environmental Assessment (Draft EA) was published in the February 23, 2002 issue of *The Environmental Notice* in conformance with these regulatory requirements. Subsequently, this Final Environmental Assessment (Final EA) was prepared after review of the Draft EA during the 30-day comment period. A Finding of No Significant Impact (FONSI) is consequently being issued for this project.

The Department of Hawaiian Home Lands serves as the Proposing Agency for this Molokai Water System, Phase IV project, and this project subsequently involves an Agency Action being undertaken by this department under these environmental regulations. The Accepting Authority for this Environmental Assessment would be the Department of Hawaiian Home Lands.



**Table 1.1 Summary Information**

<b>Project Name:</b>	Molokai Water System, Phase IV Project
<b>Proposing Agency:</b>	Department of Hawaiian Home Lands State of Hawaii P.O. Box 1879 Honolulu, Hawaii 96805 Contact: Mr. Patrick Young
<b>Authorized Agent:</b>	SSFM International, Inc. 501 Sumner Street, Suite 502 Honolulu, Hawaii 96817 Contact: Mr. Leo R. Asuncion, Jr., AICP
<b>Accepting Authority:</b>	Department of Hawaiian Home Lands, State of Hawaii
<b>Project Description:</b>	This project involves the replacement of an existing 6-inch water line with an 8-inch, ductile iron water line (approximately 17,900 feet or 3.40 miles), installation of fire hydrants, and service lateral connections. The purpose for this project is to upgrade the existing water line in the area due to its age. This replacement project also allows for providing accessory improvements to accommodate anticipated development of homestead lots by lessees, and ensure continued service of potable water to the residents of the Palaa-Hoolehua Homestead area.
<b>Project Location:</b>	The proposed project is located in the Palaa-Hoolehua Homestead, Hoolehua District of the Island of Molokai.
<b>Land Ownership:</b>	The entire water line replacement corridor along with surrounding area is owned by DHHL. The project corridor is within the right-of-way of Farrington Avenue. A portion of this roadway is under the jurisdiction of the State of Hawaii (Highways Division, Department of Transportation). The remaining portion of the road is under the jurisdiction of the County of Maui.
<b>Tax Map Key:</b>	5-2-07; 5-2-15; 5-2-22 thru 27
<b>State Land Use:</b>	Agricultural District
<b>County Zoning:</b>	Agricultural District
<b>SMA Designation:</b>	Project is not within Special Management Area.

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## 1.2 BACKGROUND ON EXISTING LAND USE DESIGNATIONS

Information on the existing State and County land use designations associated with the project site and surrounding areas are provided along with applicable figures. Discussion of the project's consistency with these land use designations and applicable regulations are provided later under the plans and policies chapter in this document.

### 1.2.1 State Land Use District

Under Chapter 205, HRS, all lands in the State of Hawaii are classified into four major land use districts (State Land Use Districts) which are the Urban, Rural, Agricultural, and Conservation districts. The boundaries of these districts are shown on maps referred to as State Land Use District Boundary Maps.

The State Land Use Commission's (LUC) Land Use District Boundary Maps for Molokai Airport (Map MO-2) and Kaunakakai (Map MO-3) indicate that the project site and immediate surrounding area are designated as "Agricultural District." Figure 1.2 shows the project site in relation to the State Land Use District Boundaries.

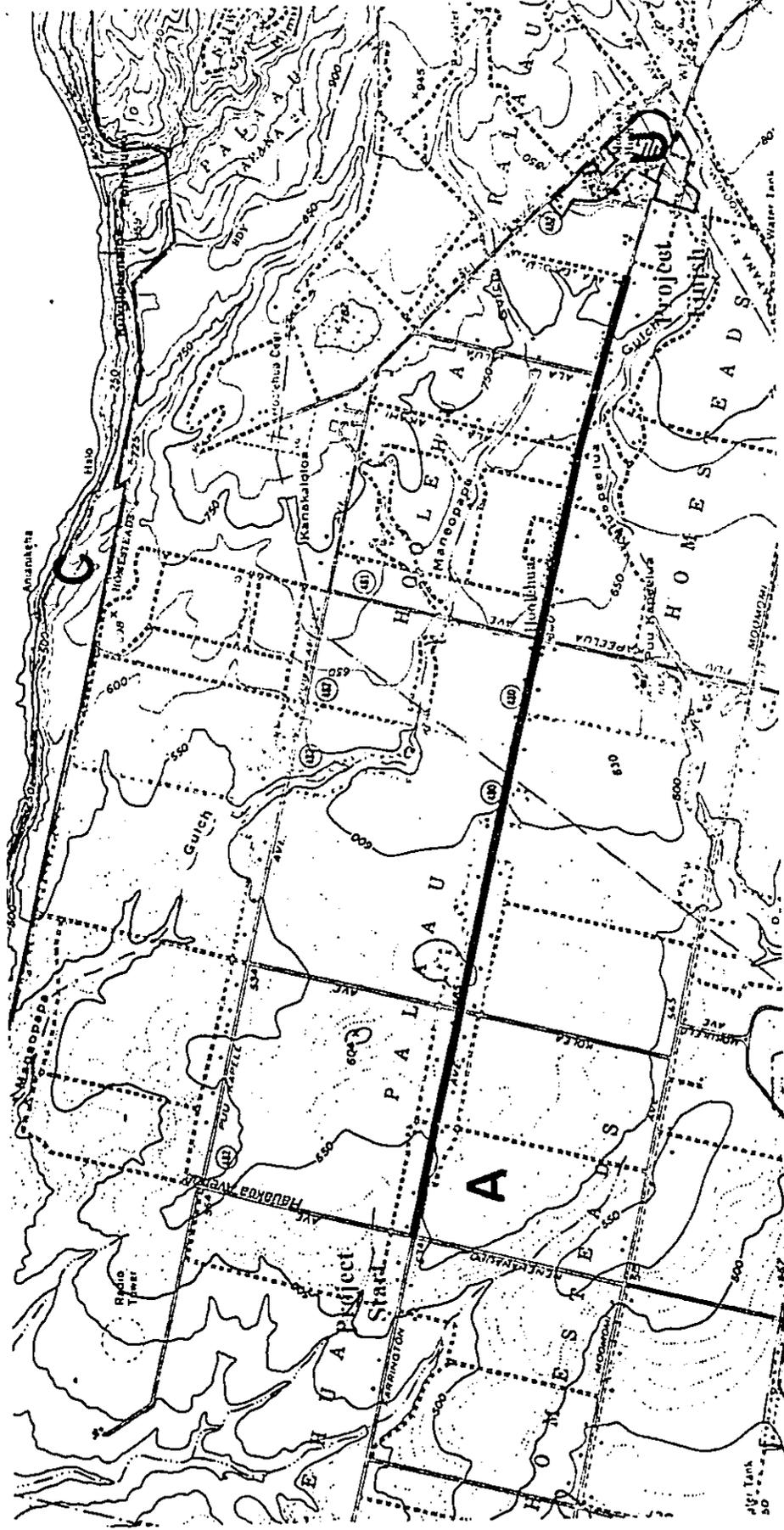
### 1.2.2 County of Maui General Plan

The *County of Maui General Plan (1990 Update)* adopted initially under Ordinance No. 1052, and effective June 24, 1980, serves as a policy document for the long-range comprehensive development of the County of Maui (County 1980). Section 8-8.5 of the Maui County Charter requires that the General Plan shall recognize and state the major problems and opportunities concerning the needs and the development of the county and the social, economic and environmental effects of such development and shall set forth the desired sequence, patterns and characteristics of future development.

Further, Part IV - Transportation, Section B. Water, Policy J of the Maui General Plan, states that the County of Maui will "support the planning, preservation and development of water resources and systems which service Hawaiian Home Lands."

### 1.2.3 Molokai Community Plan

The *Molokai Community Plan* adopted under Ordinance 1357 (1984), and effective January 16, 1984, serves as a guide to making decisions regarding the development of Molokai through the year 2000. The purpose of the *Molokai Community Plan* is to provide a relatively detailed scheme for implementing the County of Maui General Plan's objectives and policies for the island of Molokai.



**LEGEND**  
Water Line  
Project Route

Figure 1.2

STATE LAND USE DISTRICT BOUNDARY MAP



Source:  
State Land Use Commission

Molokai Phase IV Water System Project  
Department of Hawaiian Home Lands

The community plan contains the desired sequence, patterns, and characteristics of future development, as well as statements of standards and principles with respect to development, and the sequence in which future development is to occur. Maps are also included in the community plan identifying the planned distribution and intensity of land uses and public facilities.

The community plan designates the project site as "Agricultural (AG)." Figure 1.3 shows the project site in relation to the land use maps of the *Molokai Community Plan*.

The *Molokai Community Plan* is currently being updated. Approval of the updated plan is pending before the Maui County Council. The draft of the updated *Molokai Community Plan* also designated the project site as "Agricultural (AG)."

#### 1.2.4 County of Maui Zoning District

The DHHL Molokai Water System, Phase IV project route, along with surrounding properties, is located within the Palaau-Hoolehua Homestead area, Hoolehua District of the island of Molokai. Zoning established by the County of Maui designates this project area as Agricultural District. Surrounding lands in the immediate vicinity of the subject project site are similarly zoned Agricultural District.

#### 1.2.5 Special Management Area

Under Chapter 205A (Coastal Zone Management), HRS, the County is given authorization to regulate land uses located within the established Special Management Area for the island of Molokai. Review of the County of Maui's Special Management Area map for the island of Molokai determined that the SMA boundary generally follows the shape of the shoreline ranging from approximately 500 to 1,000 feet inland.

The project site is situated well outside of the Special Management Area. As a result, this project is not subject to the County Planning Department's assessment and processing procedures established under the Planning Commission's Special Management Area Rules.

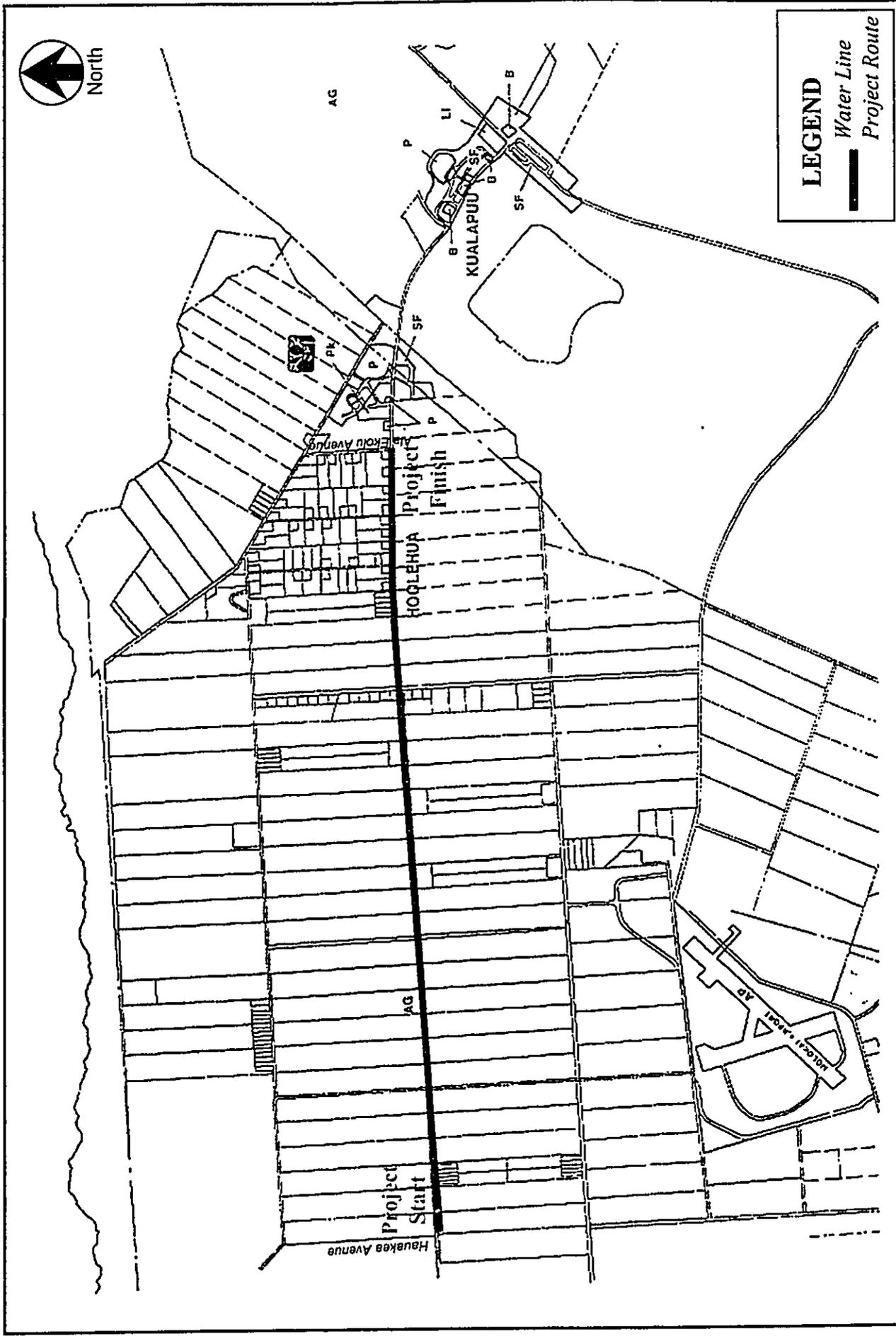


Figure 1.3

MOLOKAI COMMUNITY PLAN LAND USE MAP

Source:  
Molokai Community Plan, County of Maui

Molokai Phase IV Water System Project  
Department of Hawaiian Home Lands

## CHAPTER 2 PROJECT DESCRIPTION

### 2.1 PROJECT LOCATION AND VICINITY

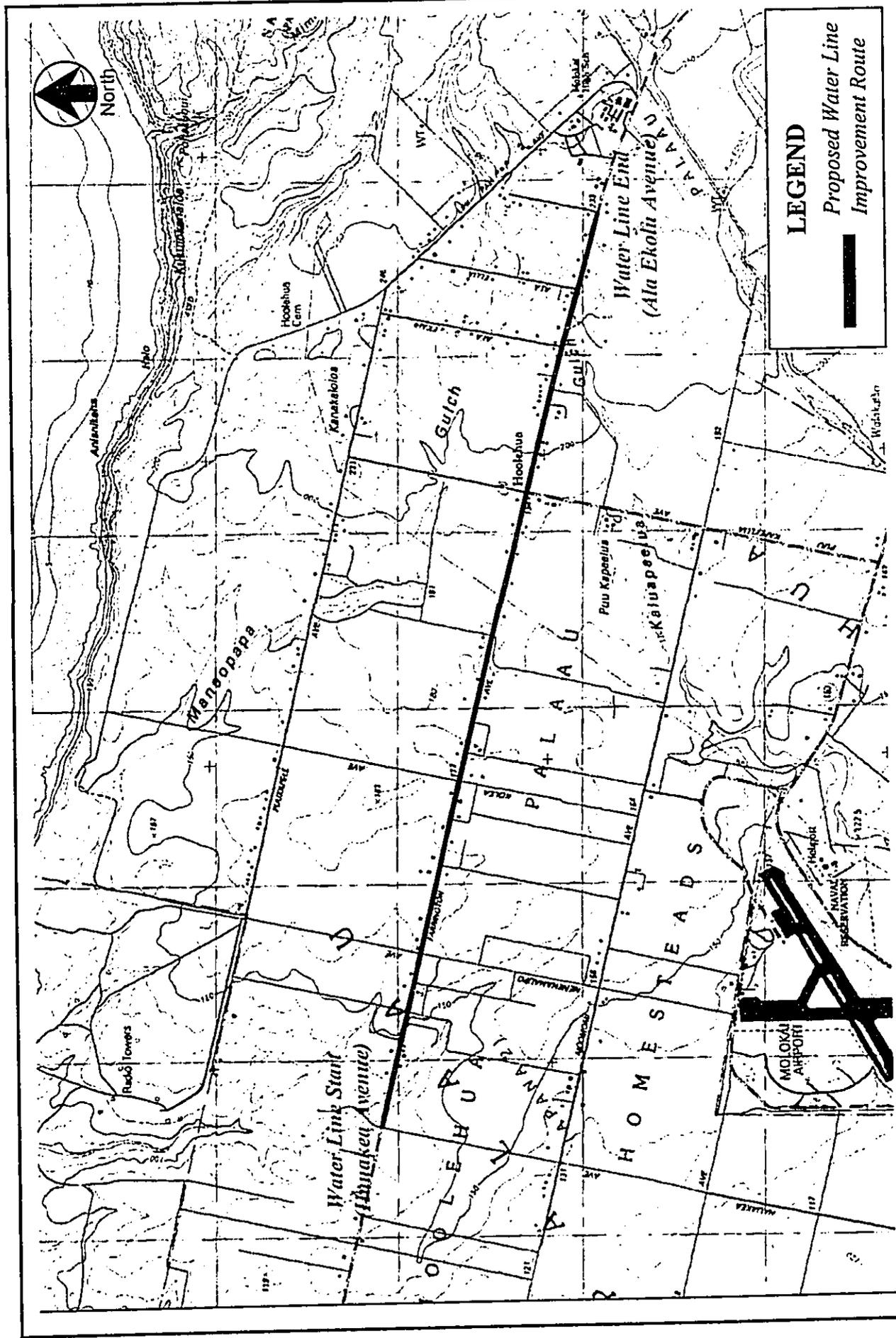
The DHHL Molokai Water System, Phase IV project is located in the north, central portion of the Island of Molokai in the Hoolehua District. The project water line improvement corridor is situated within the right-of-way of Farrington Avenue, between Hauakea Avenue and Ala Ekolu Avenue. The project site is approximately 10 minutes from Kualapuu, and 30 minutes away from Kaunakakai. Figure 2.1 shows the project site's location and vicinity in relation to the Hoolehua area in greater detail.

The Hoolehua District is an agricultural area, which encompasses lands located to the north of Molokai Airport on the Island of Molokai. This district can be characterized as DHHL homestead and agricultural area consisting of lots that are approximately 40 acres in size.

Farrington Avenue (State Route 480) is owned by the DHHL, and is partially under the jurisdiction of the State of Hawaii (Highways Division, Department of Transportation) from Ala Ekolu Avenue westward to Puupeelua Avenue, and partially under the jurisdiction of the County of Maui (Department of Public Works and Waste Management) from Puupeelua Avenue westward to Hauakea Avenue. Farrington Avenue provides vehicular access to the Palaau-Hoolehua Homestead area from the towns of Kualapuu and Kaunakakai. Farrington Avenue is a paved, two-lane rural avenue, with rights-of-ways varying from approximately 60 to 140 feet in width.

#### Existing Surrounding Uses

Existing land uses surrounding the project corridor consist of agricultural homestead lots under the jurisdiction of the DHHL. Various individuals have leased these lands, and are being agriculturally cultivated and improved with single-family dwellings. Prior to this, the surrounding land was cultivated with pineapple. Because of the rural and agricultural nature of the homestead area, there are no highly urbanized land uses such as large-scale residential developments or commercial shops located in the immediate vicinity of the roadway corridor. The nearest urban use is Molokai High and Intermediate School, which is adjacent to the eastern portion of the project site. Photos of the surrounding area are provided in Appendix A.



**Figure 2.1**

Source: DeLoeme JD Topo Quads (1999)

**SSNM**

**PROJECT VICINITY MAP**

Molokai Phase IV Water Systems Project  
Department of Hawaiian Home Lands

## 2.2 DESCRIPTION OF PROJECT

The DHHL is proposing to replace the existing water line within the right-of-way of Farrington Avenue, between Hauakea Avenue and Ala Ekolu Avenue. The improvements would involve the installation of approximately 17,900 feet of 8-inch, ductile iron water line to replace an existing 6-inch water line. This project would also allow for the installation of fire hydrants and lateral connections to surrounding homestead lots within this project corridor.

### Need For Project

These improvements are needed because the existing water line in this section of Farrington Avenue is very old, and becoming more susceptible to breaks from deterioration in the future. This section of the water line was constructed in 1944 and is thus over 57 years old resulting in the need to replace it with a new water line.

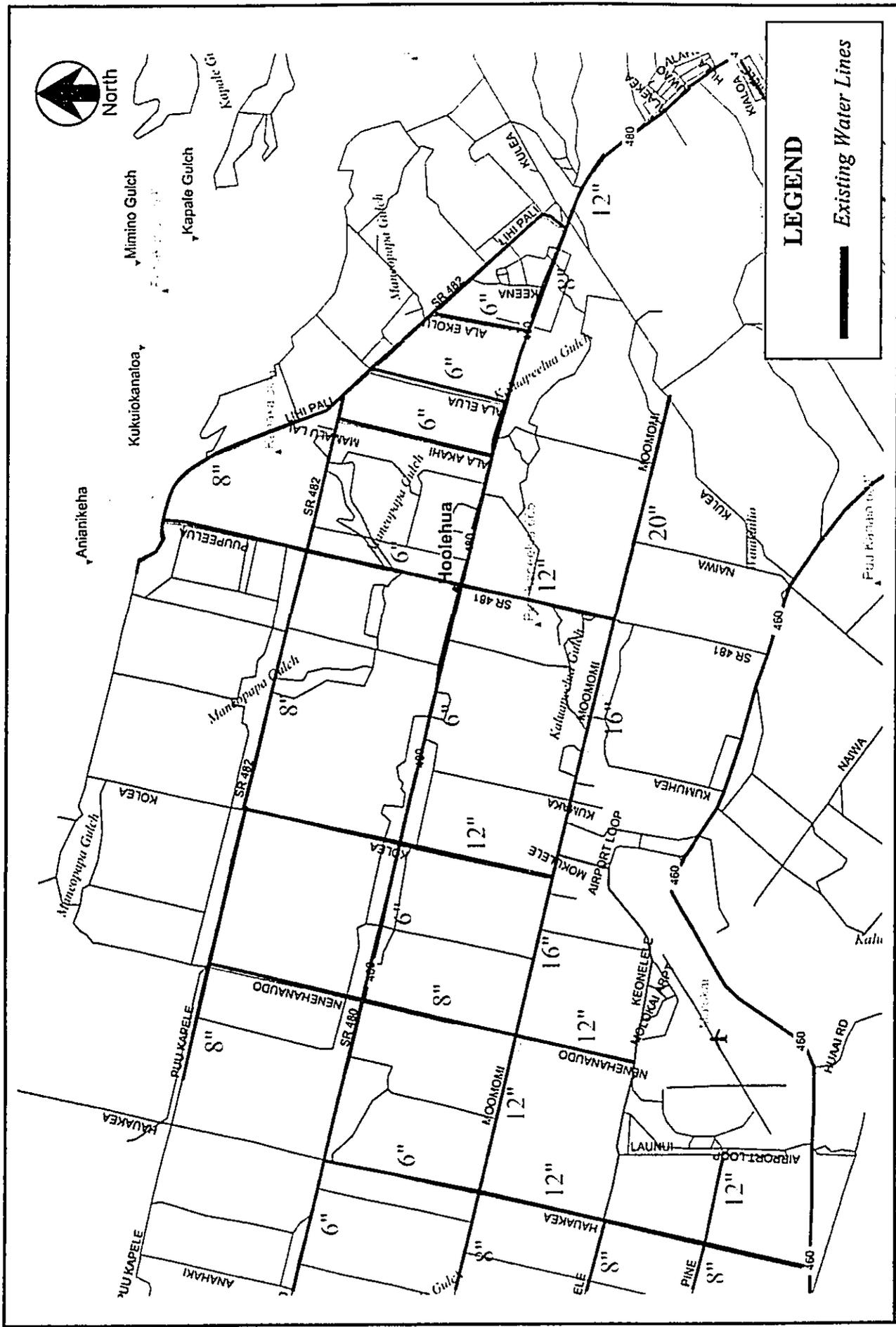
Presently, the 6-inch water line section does not meet existing County Department of Water Supply (DWS) standards because the existing water flow pressure through this section exceeds their design standards. DHHL is also anticipating development of homestead lots along this roadway by lessees in the area. The existing fire hydrants in the area also do not meet County DWS standards in providing sufficient fire protection coverage for these homestead lots when developed. The spacing of existing fire hydrants is situated over 500 feet apart, more suitable for addressing agricultural use of these lots instead of residential use.

Given the anticipated lot improvements initiated by homestead lessees in the immediate future, DHHL is proposing to replace the existing water line in this service area to provide a continuation of adequate and reliable domestic water service. Also, the need for this replacement project provides an opportunity for the installation of additional fire hydrants and lateral connections for domestic water service to lots, and upgrading this water system to meet requirements and standards of the County DWS.

### Existing DHHL Molokai Water System

The existing DHHL Molokai Water System serves three areas of West Molokai: Kalae, Kalamaula Homestead, and the Palaau-Hoolehua Homestead. The water sources for the system are two 1,000-foot deep wells at Kalae in operation since 1980. Water is pumped to a 1.0 million gallon reservoir at Kalae. Two 6-inch parallel pipes direct water westward from the reservoir at Kalae to two 3,500,000-gallon concrete storage tanks located north of Kualapuu. Numerous water lines from these storage tanks branch out in a westerly direction towards Hoolehua along Keonelele Avenue. Figure 2.2 shows the existing water line system in the project area.

Service in the Hoolehua area is provided by water lines located within the rights-of-way of Farrington Avenue and intersecting roadways. This water system also serves the Kalamaula Homestead area located west of Kaunakakai via a 12-inch diameter, gravity-flow pipe to a 200,000-gallon concrete reservoir above Kalamaula.



**Figure 2.2**

**EXISTING DHHL MOLOKAI WATER SYSTEM**

Source: Department of Hawaiian Home Lands

Molokai Phase IV Water System Project  
Department of Hawaiian Home Lands



Water transmission and distribution lines from the reservoir were installed in 1985 to service the Kalamaula homestead area. The DHHL Molokai Water System has been developed in phases. Phase I improved the source and storage system; Phase II improved the Kalamaula water distribution system; and Phase III completed implementation of the domestic water system for the Palaaau-Hoolehua Homestead area.

#### **Property Information And Site Conditions**

The water line route will be located within the existing rights-of-way of Farrington Avenue, and is located within Tax Map Keys (TMK) 5-2-07; 5-2-15; and 5-2-22 thru 27.

The project corridor spans approximately 3.4 miles along Farrington Avenue, from its intersection with Hauakea Avenue, eastward to its intersection with Ala Ekolu Avenue. The project area is located at elevations ranging from approximately 430 feet to 760 feet mean sea level. Farrington Avenue has a few areas where the slope is greater than 10 percent. However, the majority of Farrington Avenue is moderately flat. Photographs of Farrington Avenue are included in Appendix A.

#### **Proposed Improvements**

The DHHL is proposing to install approximately 17,900 feet of 8-inch, ductile iron water line to replace the existing 6-inch, transite water line. Improvements would also install additional fire hydrants and lateral connections from the new water line to homestead lots. Figure 2.3 shows a preliminary Site Plan for this project.

Improvements would consist of connecting the new 8-inch water line to the existing 6-inch water line near the intersection of Farrington Avenue and Hauakea Avenue. The new water line will be placed underground at a depth minimum of 2.5 to 3.0 feet, and will be generally aligned with the existing southerly pavement of Farrington Avenue.

Fire hydrants will be installed at approximately 500-foot increments within the right-of-way. Accessory improvements are mostly underground, and associated with water line, lateral connections to homestead lots, and fire hydrant installation. Such accessory improvements will be underground connections from the new water line to the new fire hydrants, underground installation of valve boxes, connections to existing water lines (i.e., at roadway intersections with Farrington Avenue), and installation of lateral connections to homestead lots. These lateral connections from the new water line to homestead lots will end at the boundary of the Farrington Avenue right-of-way.

The terminal end of the new water line will be connected to an existing 8-inch water line at the intersection of Farrington Avenue and Ala Ekolu Avenue. The existing 6-inch water line between Hauakea Avenue and Ala Ekolu Avenue will be abandoned in place after the new water line is in service.

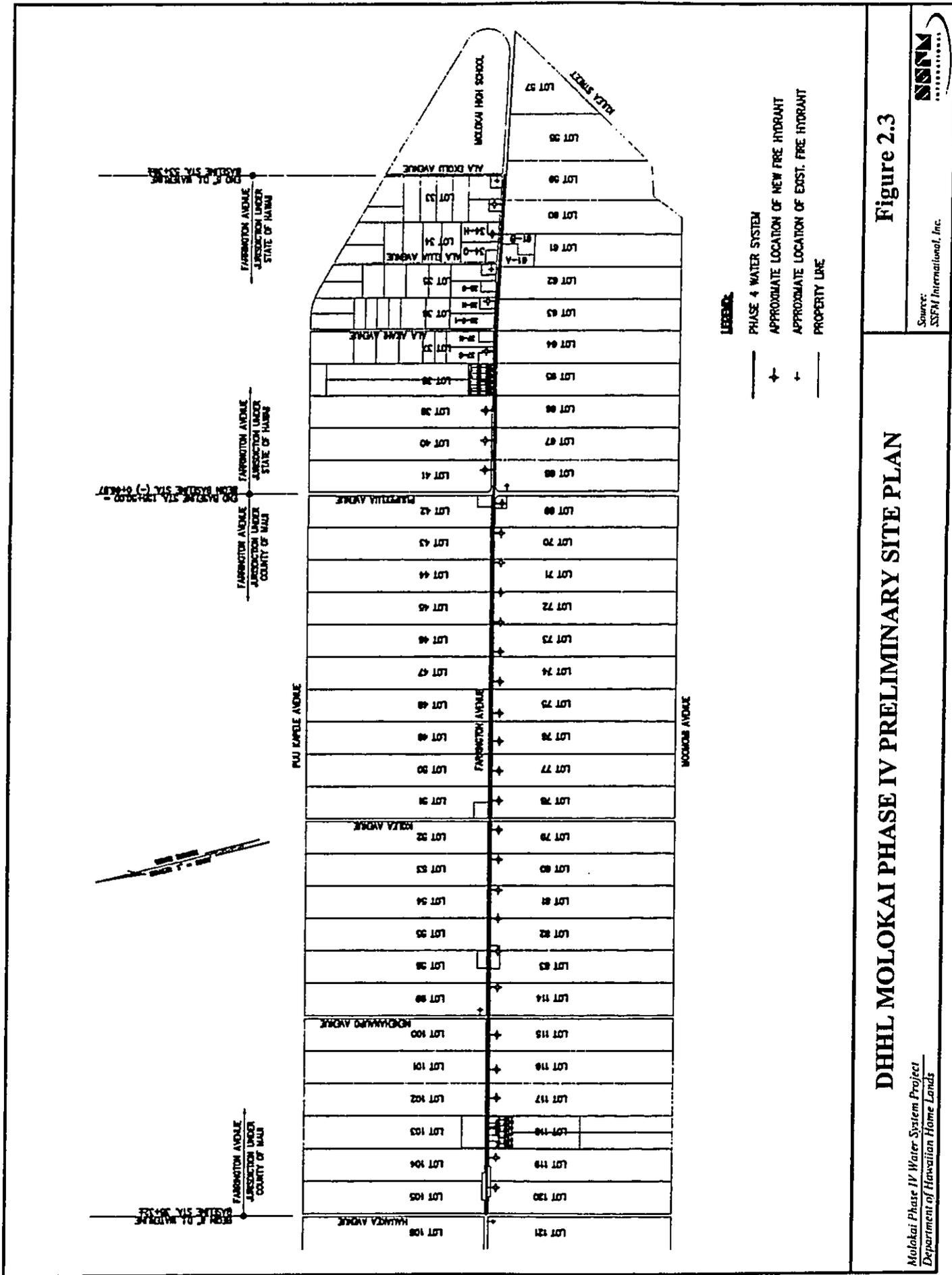


Figure 2.3

DHHL MOLOKAI PHASE IV PRELIMINARY SITE PLAN

Molokai Phase IV Water System Project  
 Department of Hawaiian Home Lands

Source:  
 SSFM International, Inc.



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### Development Schedule And Construction Cost Estimates

Upon completion of the environmental review process, design work for this water line project would be completed and submitted to pertinent agencies for review and approval. The estimated budget for the construction of this project is \$1.2 million.

Upon completion of construction plans and obtaining ministerial permits, construction work could begin in the Summer of 2002 and be completed within approximately 18 months. Thus, completion could occur by the end of 2003 or in the year 2004.

A listing of required ministerial permits for this project is provided below.

#### State of Hawaii Permits

1. Permit To Work Within State Highway.
2. Construction Noise Permit – Only if required

#### County of Maui Approvals And Permits

1. Work to Perform on County Highways Permit

## **2.3 ALTERNATIVES ELIMINATED FROM FURTHER CONSIDERATION**

Alternatives to the proposed improvements were considered and evaluated by the DHHL. However, these alternatives were eliminated from further consideration because they would not adequately address the need to replace the existing old 6-inch water line to ensure future adequate reliable domestic water service to the Palaa-Hoolehua Homestead and surrounding DHHL lands. Furthermore, the other alternatives would not allow the existing water system to address County DWS safety requirements and standards in light of anticipated development of homestead lots by lessees.

### No Action Alternative

The No Action Alternative would involve implementing no improvements to this DHHL Molokai Water System. As a result, the existing 6-inch water line section would continue to provide water service to Hoolehua area residents and the potential for future water line breaks would increase due to the age of the line.

Currently, the 6-inch water line does not conform to County standards. The anticipated development of homestead lots by lessees, and the anticipated development of surrounding DHHL lands, will result in an increase demand for domestic water service from the DHHL Molokai Water System. If not replaced, the existing 6-inch water line could be a constraint in the water system, and would result in disruption of adequate water service to Hoolehua homestead lot lessees and surrounding DHHL lands serviced by the water system.

In light of the anticipated development of homestead lots by lessees, additional fire hydrants will be needed to provide adequate fire and safety protection. Taking no-action to install additional hydrants will not provide adequate fire protection, and not conform to County standards. Consequently, this alternative was eliminated from further consideration.

**Delayed Action Alternative**

The Delayed Action Alternative would involve postponing improvements to this DHHL Molokai Water System to some date in the future. As a result, the existing water line would continue to provide water service to the residents of the Hoolehua area. Similarly, the potential for future water line breaks interrupting domestic water service to residents would continue and increase due to the age of the water line.

This alternative was also eliminated from further consideration because it would subject the water service to Hoolehua residents and surrounding DHHL lands to the same concerns expressed under the No Action Alternative. Delaying improvements into the future would increase the possibility of problems occurring with the existing water line, continue non-conformance with County standards, and may affect homestead lot development by lessees due to the inadequacy of fire and safety protection.

Furthermore, delaying improvements to some date in the future would result in higher construction costs due to inflation. Funding for the design and construction of the proposed improvements have been allocated under the DHHL's capital improvement program. Therefore, this funding would be lost if improvements were not implemented at this time.

## CHAPTER 3 PHYSICAL AND BIOLOGICAL ENVIRONMENT

This chapter discusses the existing physical and biological environment of the project site, and the probable impacts associated with the installation of an 8-inch water line, additional fire hydrants and lateral service connections. Mitigative measures, if necessary, are also discussed.

### 3.1 CLIMATE, TOPOGRAPHY, AND SOILS

Climate on the island of Molokai, as well as within the State of Hawaii, can be characterized as having low day-to-day and month-to-month variability. Differences in the climate of various areas are generally attributable to the island's geologic formation and topography creating miniature ecosystems ranging from tropical rain forests to dryer plains along with corresponding differences in temperature, humidity, wind, and rainfall over short distances (Dept. of Geography 1998).

The climate of the general area in Hoolehua is typical of the climate in the Hawaiian Islands. During the summer, between May and October, the weather is warmer and drier with predominant northeast trade winds. In the winter months, between October and April, the weather is cooler and wetter, and the trade winds are interrupted by southeasterly and southwesterly winds. Average monthly temperatures fluctuate between 70 and 85 degrees Fahrenheit in the summer to 65 to 80 degrees Fahrenheit in the winter. The average annual rainfall varies from 15 to 35 inches (Wilson Okamoto, 1992).

The prevailing trade winds in the Hoolehua area are from the northeast direction during the summer months. Wind speeds average about 30 miles per hour during the summer months. Winds from the southeast or southwest are less frequent, occurring mainly during the winter months (Dept. of Geography, 1998).

#### 3.1.1 Regional Geology And Topography

The Island of Molokai is the fifth largest island in the Hawaiian Archipelago, and covers an area of approximately 260 square miles (Dept. of Geography, 1998). This island was formed by a series of three volcanoes that formed the East and West Molokai Mountains. The East Molokai Mountains rise to 4,970 feet above sea level at Kamakou. The West Molokai Mountains, known as Maunaloa, rise to 1,381 feet above sea level at Puu Nana. The third volcano formed Kauhako Crater in the north central section of the island, and formed the Makanalua Peninsula, upon which Kalaupapa is situated (County of Maui, 1981).

The project site is located in the central plain formed between the East Molokai and West Molokai Mountains. The Hoolehua area is characterized as having relatively level to mildly

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sloping topography. Elevation of the project area ranges from about 430 feet above sea level to approximately 760 feet above sea level. Higher elevations prevail in the eastern portion of the project site at the intersection of Farrington Avenue and Ala Ekolu Avenue. Elevations decline in a westerly direction towards the intersection of Farrington Avenue and Hauakea Avenue.

### 3.1.2 Soils

#### SCS Soil Survey

Under the U.S. Department of Agriculture, Soil Conservation Service's *Soil Survey of Island of Molokai, State of Hawaii* (SCS 1972), soils situated within the project site and surrounding area consist of the Molokai-Lahaina series. The Molokai-Lahaina series consists of deep, well-drained soils. These soils are at sites nearly level to moderately steep. They are on uplands at an elevation ranging from 100 to 1,300 feet (SCS 1972).

As shown on Figure 3.1, the project site and surrounding areas is located primarily within soils designated as Molokai silty clay loam, 0 to 3 percent slopes (MuA), Molokai silty clay loam, 3 to 7 percent slopes (MuB), Molokai silty clay loam, 7 to 15 percent slopes (MuC), Molokai silty clay loam, shallow variant, 15 to 25 percent slopes, severely eroded (MvD3), Lahaina silty clay, 3 to 7 percent slopes (LaB), Lahaina silty clay, 0 to 3 percent slopes (LaA), and Hoolehua silty clay, 0 to 3 percent slopes (HzA).

1. Molokai silty clay loam, 0 to 3 percent slopes (MuA). In a representative profile of this soil, the surface layer is dark reddish-brown silty clay loam about 15 inches thick. The subsoil is dark-reddish-brown silty clay loam about 57 inches thick. The substratum is soft weathered rock. The soil is slightly acid to neutral, except that areas used for pineapple are commonly very strongly acid or extremely acid in the surface layer. This soil was used for pineapple, pasture, and wildlife habitat.
2. Molokai silty clay loam, 3 to 7 percent slopes (MuB). This soil is similar to the MuA soil. Runoff is medium and erosion hazard is slight to moderate. This soil was also used for pineapple, pasture and wildlife habitat.
3. Molokai silty clay loam, 7 to 15 percent slopes (MuC). This soil is similar to the MuA and MuB soil. This soil occurs on knolls and sharp slopes breaks. Runoff is medium and erosion hazard is moderate. This soil was used for sugarcane, pineapple, pasture, wildlife habitat, and homesites.
4. Molokai silty clay loam, shallow variant, 15 to 25 percent slopes, severely eroded (MvD3). This soil occurs on the sides of drainageways. All of surface layer and part of subsoil have been removed. Runoff is rapid and erosion hazard is severe. This soil was used for pasture and wildlife habitat.

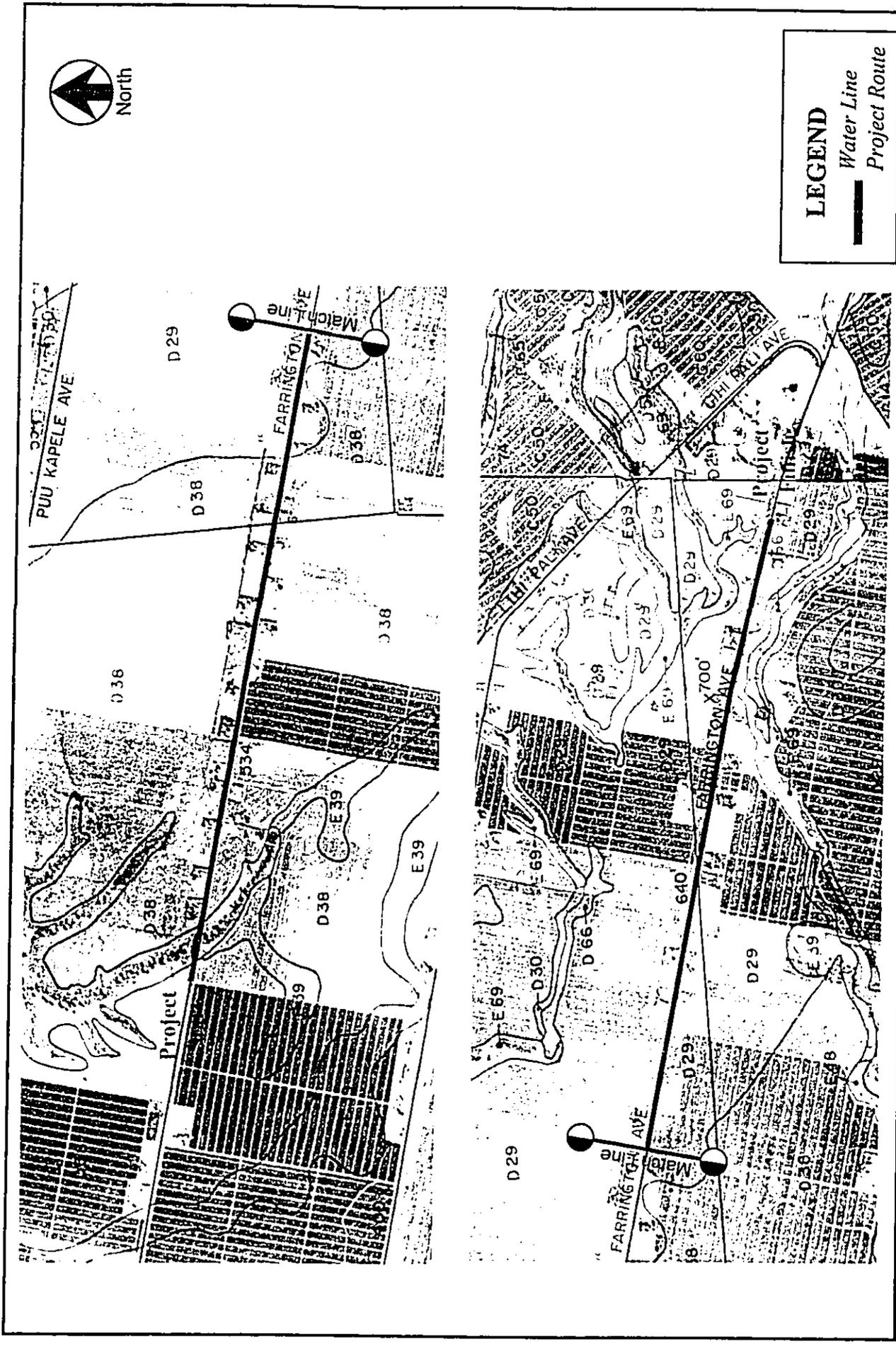


5. Lahaina silty clay, 3 to 7 percent slopes (LaB). This soil is found on smooth uplands. The surface layer is dark, reddish-brown, silty clay about 15 inches thick. The subsoil is dusky-red, and dark reddish-brown subangular blocky silty clay and silty clay loam about 45 inches thick. The substratum is soft, weathered basic igneous rock. The soil is medium acid in the surface layer, and slightly acid to medium acid in the subsoil. Runoff is slow and erosion hazard is slight. This soil was used for sugarcane and pineapple cultivation.
6. Lahaina silty clay, 0 to 3 percent slopes (LaA). This soil is similar to LaB soil. Runoff is slow and erosion hazard is no more than slight.
7. Hoolehua silty clay, 0 to 3 percent slopes (HzA). This soil occurs in depressions. The surface layer is dark, reddish-brown silty clay about 15 inches thick. The subsoil is dark reddish-brown silty clay and silty clay loam that has a subangular blocky structure about 45 to 57 inches thick. The substratum is old alluvium. The soil is medium acid in areas used for pasture to extremely acid in areas used for pineapple. The subsoil is medium acid to neutral. Runoff is slow and erosion hazard is slight. The soil was used primarily for pineapple (SCS 1972).

#### Land Study Bureau

Under the Land Study Bureau's *Detailed Land Classification – Island of Molokai*, (LSB 1968), soils situated on, and surrounding, the project site consist of land given an overall master productivity rating of "D." Figure 3.2 shows these master productivity ratings for the surrounding land areas in relation to the project site. As shown on this figure, the soils in the vicinity of the project site were given productivity ratings of D29, D38, E39, and E48. These ratings are described below.

1. D29 – Lahaina soils having deep depth, moderately fine texture, dark reddish-brown in color, non-stony in character, is well drained, and is well suited for machine tillability.
2. D38 – Molokai Holomua Waikapu Hoolehua soils having deep depth, moderately fine texture, dark reddish-brown in color, non-stony in character, is well drained, and is well-suited for machine tillability.
3. E39 – Molokai Holomua Waikapu Hoolehua soils having deep depth, moderately fine texture, dark reddish-brown in color, non-stony in character, is well drained, and is moderately-suited for machine tillability.
4. E48 – Molokai Holomua Waikapu Hoolehua soils having deep depth, moderately fine texture, dark reddish-brown in color, rocky in character, is well drained, and is not-suited for machine tillability.



LAND STUDY BUREAU SOIL CLASSIFICATIONS MAP

Figure 3.2

Molokai, Phase IV Water System Project  
Department of Hawaiian Home Lands

Source:  
Land Study Bureau



### 3.1.3 Effects From Construction Activity

Installation of the new water line, fire hydrants, and lateral service connections to homestead lots, are not expected to have a significant impact on the project site's existing topography or the physical character of the immediate area. As already discussed, the topography of this project site is generally level to mildly sloping, and is a paved, two-lane roadway.

The proposed project will not involve grading activities, and ground disturbance will be minimized, as installation of the new water line and related improvements is limited to excavation and trenching. Upon completion of the installation and testing of the new water line and lateral connections in a specified area, the trench will be back filled, and the roadway will be restored to its original condition. Thus, installation of the new water line and lateral connections are not expected to significantly alter the existing condition of the roadway right-of-way or adversely impact surrounding areas.

To mitigate impacts and ground disturbance from trenching and excavation activities, the following Best Management Practices are proposed to be implemented to address erosion and sediment control. Review and approval of construction plans by the County would also be conducted which would include more details of Best Management Practices to be implemented by the contractor.

1. Construction management techniques:
  - Grading operations will be planned so as to minimize site size of the disturbed area. Upon completion of grading exposed areas will be grassed as required.
  - Grading operations will be planned so as to minimize time of construction.
  - The project grading limits shall be staked prior to the start of construction.
2. Stabilization techniques:
  - Existing ground cover will not be destroyed, removed, or disturbed more than 20 calendar days prior to the start of grading operations.
  - Areas that remain unfinished for more than 21 calendar days will be hydro-mulched to provide temporary soil stabilization by no later than the 14th day after last disturbance.
  - After achieving finished grades, all slopes and exposed areas will be permanently stabilized by hydro-mulching with grass seed as soon as practicable.
3. Structural practices:
  - Silt fences or filter berms would be constructed along the entire downstream side of the active construction zone in areas where onsite runoff flows into adjoining properties.

4. Schedule for implementing controls:
  - Erosion and sediment control measures will be in place and functional before earth moving operations begin, and will be maintained throughout the construction period.
5. Other controls:
  - Maintenance and fueling of construction equipment will be performed only in designated areas enclosed by a containment berm constructed so as to contain spills and prevent storm water runoff from carrying pollutants into state waters or downstream properties.
  - A graveled area or pad located where construction vehicles enter and leave the project site will be constructed.

#### **Other Short-Term Construction Impacts**

Other typical short-term impacts that are usually associated with construction related activities may include fugitive dust emissions, construction noise from equipment, and traffic disturbances from construction vehicles occurring along the roadway. Fugitive dust emissions and construction noise are not expected to cause much disturbance or annoyance to surrounding properties or Hoolehua residents. Surrounding properties consist of homestead lots. Existing improvements on the lots consists of single-family dwelling units or diversified agricultural activities that are set back from the roadway and property line. Further, a number of the lots are separated from the roadway by trees, shrubs, or tall grass. Photographs in Appendix A depict typical homestead lots that front Farrington Avenue.

Minimal vehicular traffic also occurs along Farrington Avenue. Thus, there should be minimal disturbances to traffic flow along this road from construction related traffic.

Although these potential short-term effects should have minimal impacts, other possible mitigative measures would be considered for implementation. Such measures would be determined during the project's design and preparation of construction plans. Measures being considered could include: minimizing the amount of area of excavation and trenching, watering to reduce dust, and covering of open trench areas. The measures actually developed would be designed to make construction activities comply with pertinent Administrative Rules of the State Department of Health such as Title 11: Chapter 46 (Community Noise Control), and Chapter 60 (Air Pollution Control).

### **3.2 NATURAL HAZARDS**

This section addresses those natural and urban-related hazards applicable to the project site. Of the potential natural hazards, flooding hazards are addressed. There are no other known potential urban-related hazards applicable to the project site such as airport clear zones, hazardous wastes, or other site safety issues associated with urban use.

### **3.2.1 Flooding Hazards**

The Flood Insurance Rate Map (FIRM), Community Panel Number 150003 0050, for the project site was reviewed. This FIRM showed that the project site is located in Zone C which represents an area of minimal flooding (FEMA 1995). Some localized minor flooding occurs during heavy rainfall when natural drainageways and roadways become obstructed or clogged.

The project site is not situated in an area that has been historically subject to flood inundation or other flood hazards. This roadway corridor, along with surrounding areas, have been altered for large scale agricultural use which most recently involved pineapple cultivation. Currently, the project site is a paved, two-lane roadway. Therefore, the project should not be adversely affected by flooding hazards, and is not subject to County requirements and design standards described under Chapter 19.62, Flood Hazard Areas of the Maui County Code. Drainage for the project site and surrounding area are discussed under infrastructure facilities.

### **3.3 HISTORIC, ARCHAEOLOGICAL, AND CULTURAL RESOURCES**

Research of available information was conducted to determine the presence of historic sites in the immediate vicinity of the DHHL Molokai Water System, Phase IV project site. Research of the State Historic Preservation Division's (SHPD) web site determined that there were no prior available archaeological studies conducted for the project site nor were there any historic sites recorded along the roadway corridor or in the immediate vicinity. This included review of a listing of National and State Register of Historic Places, dated January 2000, published by the SHPD.

In a letter dated October 8, 2001 from the SHPD (DOC NO. 0110SC06), in response to a request for comments during the pre-assessment consultation portion of this Environmental Assessment process, the SHPD indicated that based on review of historic maps, aerial photographs, records, and reports maintained at the SHPD, it was unlikely that any significant historic sites exist since the Farrington Avenue roadway corridor has undergone extensive ground alteration. Consequently, the SHPD believes that the proposed project will have "no effect" on significant historic sites. A copy of this letter is included in Appendix B-1.

The SHPD's determination was re-iterated in a letter dated March 6, 2002, in which SHPD states that they believed that no historic sites were present since residential development/urbanization has altered the land. A copy of this comment letter is included in Appendix B-2.

Consequently, there should be no significant impacts to above ground historic sites located within the existing right-of-way of Farrington Avenue by the water line replacement project. In the event subsurface human remains or other indications of human activity older than 50 years are encountered during construction activities, all work would stop immediately and the SHPD

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notified. The treatment of human remains encountered would be determined and conducted in accordance with the applicable requirements of Chapter 6E, HRS, Chapter 13-300, Hawaii Administrative Rules, and the Native American Graves Protection and Repatriation Act of 1990 (NAGPRA).

### Cultural Resources

In terms of cultural resources, this project is not expected to significantly affect traditional native Hawaiian cultural practices, or traditional cultural practices occurring in the surrounding area. There are no known traditional cultural practices occurring within the roadway corridor since it is currently being used as a roadway for vehicular traffic, and the surrounding area has been used for homestead lots and large scale pineapple cultivation prior to that.

The project would also not restrict access to surrounding areas that may be potentially used for traditional native Hawaiian cultural practices. Thus, this project site would not restrict access to other areas but only temporarily disrupt some access along this roadway for water line installation and related construction improvements. This project would not prevent access to shoreline areas or surrounding mauka areas that may be used for traditional gathering or other cultural practices, as the project site is located on the central plains of Molokai. Short-term construction activities would similarly not restrict or prohibit access to individual homestead lots or surrounding areas that may be used for traditional gathering or other cultural practices.

## **3.4 BOTANICAL RESOURCES**

The DHHL Molokai Water System, Phase IV project site is located at about the 430- to 760-foot elevation placing this project area within the dryland forest and shrub vegetation zone. This vegetation zone typically includes areas that have been used for cattle grazing and sugar and pineapple cultivation. Dryland forest typically ranged from the 650 to 1,000-foot elevation up to the 3,000-foot elevation (Sohmer and Gustafson 1987).

The improvements will occur within the right-of-way of Farrington Avenue, which runs adjacent to homestead lots. Botanical resources present in the immediate surrounding area appear to be typical vegetation such as buffelgrass, guineagrass, fuzzy top, sour grass, haole koa, scarlet-fruited gourd, spiny amaranth, vervain, and golden crown beard. Landscaping bordering homestead lots include such plants as hibiscus, red and green ti leaf, bougainvillea, plumeria, and lantana. Trees such as ironwood, palms, and kiawe, are also used as homestead lot dividers (Wilson Okamoto, 1992). Agricultural lands along Farrington Avenue are now planted with such diversified crops as corn, fruit trees, and herbs. Because the improvements would occur within the right-of-way of Farrington Avenue, ground vegetation along this corridor is minimal.

The proposed water system improvements are not expected to have a significant impact on botanical resources. No threatened or endangered species or species of concern are known to be,

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or are likely to be, present within the roadway or surrounding areas due to its current use for vehicular traffic, and the historic use of the surrounding area for large scale pineapple cultivation, and homestead lots.

### **3.5 AVIFAUNAL AND FERAL MAMMALS**

No avian species listed as endangered, threatened, proposed or as a candidate species by the U.S. Fish and Wildlife Service or by the State of Hawaii under its endangered species program are known to be present on the project site or in the immediate vicinity. Avian species present would likely consist of introduced species such as doves, finches, cardinals, common mynah, sparrows, and cattle egrets. Vegetation in the project site is minimal as it is currently used as a paved, two-lane roadway. The surrounding area reflects decades of disturbance as part of large scale agricultural cultivation with pineapple cultivation being most recent, and currently as homestead lands with single-family dwelling units and diversified agricultural crops.

Mammals present on the project area would likely consist of feral mammals typical of surrounding agricultural lands. These mammals may include domestic and feral dogs, cats, rats, mice and mongoose. Reptiles and amphibians, such as skinks, toads, and gecko, would also be present. Introduced game species seen in the area include axis deer, pheasants, and francolin. Horses and pigs are also raised in the surrounding areas.

There are no federally listed endangered, threatened, proposed, or candidate avian or mammalian species likely to be present on the project site or in the immediate vicinity. The project site does not consist of vegetation that may provide important nesting or foraging habitat for endangered or threatened avian species such as wetlands or forest reserves. Existing mammalian species present are introduced species, some of which are predators to avian populations.

Consequently, installation of the new water line and accessory improvements is not expected to have a significant impact on important avian or mammalian species that may be present in the area.

### **3.6 AIR QUALITY**

Ambient air quality standards (AAQS) have been established by both Federal and State governments that limit ambient concentrations of particulate, matter less than 10 microns (PM<sub>10</sub>), sulfur dioxide, nitrogen dioxide, carbon monoxide (CO), ozone, and lead. In addition, a State standard has been established for hydrogen sulfide. State AAQS are more stringent than the comparable national limits (NAAQS) except for the standards for sulfur dioxide, particulate matter and lead, which are set at the same levels.

Air quality issues most applicable to the proposed DHHL Molokai Water System, Phase IV project area concern short-term construction related emissions such as fugitive dust. Vehicular emissions (carbon monoxide) from traffic occurring along this roadway are not considered to be a factor for this project area.

A summary of both State and National AAQS is presented below. Hawaii's standards are not divided into primary and secondary standards, as are the National standards. Primary standards are intended to protect public health with an adequate margin of safety while secondary standards are intended to protect public welfare through the prevention of damage to soils, water, vegetation, man-made materials, animals, wildlife, visibility, climate, and economic values.

Summary Of National And State Ambient Air Quality Standards

Pollutant	Sampling Period	NAAQS Primary	NAAQS Secondary	State Standards
Particulate Matter Less Than 10 Microns (PM <sub>10</sub> )	Annual	50	50	50
	24-Hour	150	150	150
Sulfur Dioxide	Annual	80	n/a	80
	24-Hour	365	n/a	365
Nitrogen Dioxide	Annual	100	n/a	70
Carbon Monoxide	8-Hour	10	n/a	5
	1-Hour	40	n/a	10
Ozone	1-Hour	235	n/a	100
Hydrogen Sulfide	1-Hour	n/a	n/a	35
Lead	Quarter	1.5	n/a	1.5

Note: All concentrations in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) except for carbon monoxide which is in milligrams per cubic meter ( $\text{mg}/\text{m}^3$ )

#### Impacts From Short-Term Construction Activities

Impacts associated with this project would be limited to short-term construction. Short-term impacts on air quality from construction activities would predominantly be associated with fugitive dust emissions and exhaust emissions from on-site construction equipment. Fugitive dust emissions would generally arise from trench excavation. There would be no grubbing or grading activity in the project site or surrounding areas.

Excavation and trenching activities will be limited by allowing only a section of the project site to be open at any one time along the proposed water line route. This effort would therefore minimize the amount of excavation required and limit fugitive dust emissions. There are no dust sensitive properties in the immediate vicinity of the project site. As discussed earlier, the homes in the surrounding areas are setback a considerable distance from Farrington Avenue and many lots have a buffer of vegetation between the roadway and homestead lots.

State air pollution controls prohibit visible emissions of fugitive dust from construction activities at the property line. Therefore, a dust control plan could be prepared and implemented to have the contractor comply with these regulations if necessary. Adequate fugitive dust control can usually be accomplished by establishing a frequent watering program, and implementing additional measures to address excavation activities. Some measures that could be considered during the project's design for implementation by the contractor may include:

1. Limiting the areas that are disturbed at any given time;
2. Establishing a road cleaning or tire washing program to reduce fugitive dust emissions from construction equipment using paved roadways in the project site; and
3. Covering the installed and tested water line as soon as possible before proceeding to the next excavation area.

On-site mobile and stationary construction equipment would also emit air pollutants from engine exhausts. Minor nitrogen dioxide emissions from construction equipment *should not* violate stricter State standards since such emissions would be short-term and the standards are set on an annual basis. Short-term carbon monoxide emissions from construction equipment would similarly be low and should be relatively insignificant.

### 3.7 NOISE

Potential noise impacts associated with this project would mainly be associated with short-term construction activities. Due to the nature of this project, no long-term noise impacts is anticipated.

#### Short-Term Noise Impacts From Construction Activities

Noise from construction activities are regulated under Title 11, Chapter 46 (Community Noise Control) of the State DOH's Administrative Rules. Under these regulations, the project site and immediate vicinity fall under the Class C zoning district classification. This Class C classification applies to properties zoned agricultural, country, industrial, or of other similar land uses. Under the County's zoning map for the area, the project site and surrounding area is zoned Agricultural. As a result, the maximum permissible noise levels under this Class is 70 dBA at the property line during both daytime (7:00 a.m. to 10:00 p.m.) and nighttime (10:00 p.m. to 7:00 a.m.) hours.

The installation of the new water line and lateral connections to homestead lots will involve excavation and trenching activities. Installation of the new fire hydrants will be at surface level, within the right-of-way. The various construction phases of any development would inevitably generate some noise levels due to equipment noise and other related construction activities.

Typical ranges of construction equipment noise vary between 70 and 95 dBA. Earthmoving equipment, such as backhoes and diesel-powered trucks, will probably be the noisiest equipment used during construction.

However, any noise impact from these activities would be relatively short-term and minor given the type and size of facilities being proposed by the DHHL. The actual noise levels would be dependent upon the construction methods and equipment employed during each stage of the installation process. Furthermore, construction equipment would be equipped with mufflers as required under DOH regulations.

In cases where construction noise exceeds, or is expected to exceed, the maximum permissible noise level allowable to property line limits, a noise permit would be obtained from the DOH by the contractor to allow these activities. This permit includes restrictions to help mitigate potential noise impacts resulting from short-term construction activities. Such restrictions would be followed by the contractor. Specific permit restrictions included as conditions under this permit for construction activities are:

- No permit shall allow construction activities generating noise levels beyond the maximum permissible sound level at the property line before 7:00 a.m. and after 6:00 p.m. of the same day, Mondays through Fridays.
- No permit shall allow construction activities generating noise levels beyond the maximum permissible sound level at the property line before 9:00 a.m. and after 6:00 p.m. on Saturdays.
- No permit shall allow construction activities generating noise levels beyond the maximum permissible sound level at the property line on Sundays and holidays.

### **3.8 VISUAL RESOURCES**

There are no unique natural or topographical features, landmarks, or other landforms of significant or important visual character existing on the project site. As discussed in Chapter 2 and shown on the site photographs in Appendix A, the surrounding lands are primarily homestead lots which may have diversified agricultural crops. A few of the homestead lots are vacant or undeveloped. There are also no public scenic views or viewing points present on the project site or in the immediate vicinity since the improvements would occur within a paved, two-lane roadway.

As a result, installation of the new water line, fire hydrants, and lateral connections, is not expected to have a significant impact on important scenic views or negatively impact visual resources.

### **3.9 HYDROGEOLOGICAL RESOURCES**

Under the State's Water Resource Protection Plan, aquifers of the island of Molokai have been classified under an aquifer coding system to identify and describe these aquifers. This system is comprised of Aquifer Sectors, then Aquifer Systems located within these sectors. An Aquifer Sector reflects an area with broad hydrogeological (subsurface) similarities while maintaining traditional hydrographic (surface), topographic and historical boundaries. The Aquifer system is an area within a sector that is more specifically defined by hydrogeologic continuity, particularly hydraulic connections among aquifer types and units (CWRM 1989).

#### **Existing Aquifer Systems**

The existing DHHL Molokai Water System is located within the Central Aquifer Sector (Sector 402) of Molokai. Within this Central Aquifer Sector, there are three Aquifer Systems – Hoolehua, Maunawainui, and Kualapuu. The DHHL Molokai Water System is situated within the Hoolehua Aquifer System (40201), which is served by two deep wells (CWRM 1990).

The Hoolehua Aquifer System extends north from the island's long axis to the coast, and east along the axis towards the Kualapuu system. The Hoolehua system is underlain by moderately brackish water in a basal lens. Quality is good for most agriculture but cost of development would be high. The system has an estimated sustainable yield of 2 million gallons per day.

The Kualapuu Aquifer System is in the eastern portion of the Central Aquifer Sector. Quality is good, and is basal water. However, groundwater occurrence is controlled by dikes extending westward from a major rift zone in the northeast. This system has an estimated sustainable yield of 5 million gallons per day.

The Maunawainui Aquifer System is in the southern portion of the sector. Like the Hoolehua system, this aquifer system is underlain by moderately brackish basal water. This system has an estimated sustainable yield of 2 million gallons per day, and is useful for irrigation (CWRM, 1990).

#### **Existing Water Demand And Probable Impacts**

The DHHL currently has permits to use 0.367 million gallons per day (133.96 million gallons per year (mg/year)) from two wells within the Kualapuu Aquifer System. Additionally, the DHHL has a future reservation of 2.905 million gallons per day from the Kualapuu Aquifer (CWRM, 2002). According to well withdrawal reports from the Commission on Water Resource Management (CWRM), the DHHL withdrawal amounts from these two wells over the past few years had exceeded the current permit of 133.96 mg/year. The total withdrawal in 2001 was 252.83 million gallons (0.692 mgd) from these two wells.

Because of the high withdrawal of water from the two wells within the Kualapuu Aquifer System, the DHHL has been working with the CWRM to find and establish a new relief well to address the issue of over-withdrawal. In addition, discussion with the CWRM indicated that a study was conducted by the DHHL and United States Geological Service to obtain information in finding a new site for well sources.

Installation of the replacement water line, fire hydrants and lateral connections, are not expected to significantly impact hydrogeological resources. Improvements will involve minimal excavation and trenching activities. Best management practices such as staking of project grading limits prior to start of construction, stabilization of graded areas using hydro-mulching, the use of silt fences or filter berms to minimize runoff into adjoining properties, and installation of dust fences, will be utilized as discussed previously in this Chapter (Section 3.1). As a result, the project should not adversely impact the underlying Hoolehua Aquifer System, contaminate water sources, or impact adjoining properties.

Groundwater resources should also not be adversely impacted by the proposed project since the project site is located some distance away from the primary groundwater resource for the DHHL Molokai Water System.

The project is not anticipated to significantly impact water usage from the Kualapuu Aquifer System, as the replacement of water lines will not increase the amount of water that is currently drawn from the Kualapuu Aquifer System or the Central Aquifer Sector. Because this project is primarily a replacement improvement of the existing section of water line, there should be no significant increase in the daily water use demand generated by the improvements. Changes in the demand for potable water are generated by development of homestead lots by lessees which could occur already.

Land uses surrounding the water line corridor are not expected change significantly in the immediate future since lessees will gradually develop their lots for residential use. Although the DHHL anticipates lot improvements by lessees, increases in the daily demand for water use will be evaluated by DHHL at the time that specific lot improvements are made. The DHHL has been and will continue to work with the CWRM in developing new relief wells to serve this water system. Once a suitable well location is found, DHHL will obtain another permit or amend their existing permits from the State CWRM to tap into their allotted reserve of over 2.9 million gallons per day.

Therefore, current water use per day is not anticipated to significantly increase as a result of this project. Subsequently, this project should not significantly impact the sustainable or developable yield of the Kualapuu Aquifer System or the Central Aquifer Sector.

### 3.10 STREAMS AND AQUATIC RESOURCES

Based upon the *Hawaii Stream Assessment* report, there are no perennial streams located in the immediate vicinity of the project site (HCPSU 1990).

Water flows through several natural gulches during storm periods. These gulches direct flows to the north and south shores of the island. Maneopapa and Anahaki Gulches drain the northern portion of Hoolehua, and discharges flows on the north coast of Molokai.

Kaluapeelua Gulch drains the southern portion of Hoolehua, and directs flows beyond Molokai Airport, discharging on the south coast of Molokai (Wilson Okamoto, 1992).

This project is not expected to have an adverse effect on these gulches since the improvements proposed would not change or alter the bed or banks associated with these drainageways. The gulches were dry and were absent of important aquatic resources. Further, there are no wetlands in the roadway corridor or in surrounding areas. Therefore, the project would not impact important native aquatic resources.

In a letter dated February 26, 2002, the Department of the Army, U.S. Army Engineer District, Honolulu, has determined that based on information provided in the Draft EA concerning streams and aquatic resources, a Department of the Army permit will not be required for the project. A copy of this letter is included in Appendix B.

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## CHAPTER 4 ECONOMIC AND SOCIAL FACTORS

### 4.1 ECONOMIC AND FISCAL FACTORS

Installation of the new water line, fire hydrants, and lateral connections to homestead lots, should have a small minor positive economic impact mainly associated with the creation of short-term construction related jobs.

#### Construction Related Jobs

The preliminary estimated construction cost for this project was \$1.2 million as discussed in Chapter 2. Therefore, construction of this project would create several beneficial short-term construction related jobs over several months (estimated 18 months).

Direct construction jobs would typically consist of on-site laborers, tradesmen, mechanical operators, supervisors, etc. Based upon the construction budget, it was estimated that about nine (9) new direct construction jobs would be created by the project. Direct construction jobs created would also stimulate indirect and induced employment within other industries on the island such as retail, restaurants, material distributors, and other related businesses supporting the construction industry. It was estimated that another twelve (12) indirect and induced jobs could be generated by this project for a total employment impact of 21 jobs.

These new jobs created would also generate additional personal income for construction workers of approximately \$452,000. Personal income is defined as the wages paid to the direct construction workers or operational employees associated with a development. It is anticipated that these construction jobs would likely be filled by residents from the Island of Hawaii employed within the construction industry. Indirect and induced income would also be generated on the order of approximately \$392,000 from this project.

#### Fiscal Factors

Fiscal impacts associated with this project would primarily involve some additional tax revenue generated to the State. Tax revenue sources for State government are composed primarily of general excise taxes (GET) on development costs and construction materials, along with corporate income tax. In addition, GET taxes on indirect and induced income spent stimulated by the spending of direct income would also contribute new revenues to the State. The \$1.2 million construction budget expended by the DHHL for construction of the Molokai Water System, Phase IV project would therefore generate increased tax revenue of approximately \$111,000 to the State.

County revenues are primarily limited to tax revenues on privately-owned property and improvements. This project is expected to have minimal impact on the current or future levels of County tax revenues being generated.

This project is not expected to generate any new in-migrant residents to the Island of Molokai to fill short-term construction related jobs. Thus, there would not be any impact on State and County operational expenditures for public services serving this community and surrounding areas.

## **4.2 SOCIAL IMPACT FACTORS**

Demographic information for the Hoolehua community was obtained from available data published by the U.S. Census Bureau. The Palaau-Hoolehua Home Lands area includes the entire Hoolehua community. In the year 2000, the resident population in Hoolehua was 1,086 persons and there were 296 homes identified.

The project is not expected to have a significant impact on the existing resident population and housing units present within the Hoolehua community. This project would essentially involve replacing the existing 6-inch water line with a new 8-inch water line. Additional fire hydrants and lateral connections to homestead lots would also be installed.

These improvements are being proposed to provide adequate domestic water service and fire protection for the anticipated development of homestead lots by lessees. The new water line would assist the DHHL in ensuring a continued reliable water distribution system for residents of Hoolehua and surrounding DHHL lands, and provide fire protection measures in conformance with County standards.

This project would also not change or negatively alter the existing character of the Hoolehua community since the project site is located within the right-of-way of Farrington Avenue. Consequently, this Hoolehua community and the surrounding area would continue to retain its agricultural and homestead character.

## CHAPTER 5 INFRASTRUCTURE FACILITIES

This chapter addresses the project's probable effect on existing infrastructure associated with the DHHL Molokai Water System. Due to the nature of this proposed project, impacts would be more related to short-term construction activities, and should thus not have a significant impact on infrastructure facilities.

### 5.1 WATER FACILITIES

The existing DHHL Molokai Water System serves three areas in Central Molokai: Kalae, Kalamaula Homestead, and the Palaau-Hoolehua Homestead. The water sources for the system are two 1,000-foot deep wells at Kalae in operation since 1980. The two wells at Kalae are located within the Kualapuu Aquifer System. Water is pumped to a 1.0 million gallon reservoir at Kalae. Two 6-inch parallel pipes direct water westward from the reservoir at Kalae to two 3,500,000-gallon concrete storage tanks located north of Kualapuu.

Numerous water lines from the storage tanks branch out in a westerly direction towards Hoolehua along Keonelele Avenue. Service in the Hoolehua area is along water lines within the rights-of-way of Farrington Avenue, and intersecting avenues. The water system also serves the Kalamaula homestead area located west of Kaunakakai, via a 12-inch diameter, gravity-flow pipe to a 200,000-gallon concrete reservoir above Kalamaula. Water transmission and distribution lines from the reservoir were installed in 1985 to service the Kalamaula homestead area (Wilson Okamoto, 1992).

In 1990, this water system had a surface water draw from Kalae of 0.03 million gallons per day (mgd) and ground water draw of 0.40 mgd for a total water draw of 0.43 mgd. The average use in 1988 was reported to be 0.40 mgd (CWRM 1990). In 1993, approximately 1.79 mgd was drawn from the groundwater sources of the Kualapuu Aquifer System. The DHHL used approximately 0.38 mgd, while the County DWS used 0.59 mgd, and the Kaluakoi Resort used 0.82 mgd (CWRM, 1996).

Currently, the DHHL has water use permits to use approximately 0.367 mgd from the Kualapuu Aquifer System, and presently withdraws approximately 0.692 mgd according to well withdrawal information from the CWRM. Additionally, the DHHL has a future reservation of 2.905 mgd from the Kualapuu Aquifer System. Based upon the Molokai Water Working Group's report to the CWRM in 1996, they projected usage of the Kualapuu Aquifer System would increase to 4.43 mgd in the year 2010. This report also projected the DHHL to use approximately 0.84 mgd of the total 4.43 mgd (CWRM, 1996).

Because of the over-withdrawal of water from the two wells within the Kualapuu Aquifer System, the DHHL has been working with the CWRM to find new relief well sources to address this issue. In addition, a well study has been conducted by the DHHL and the United States Geological Service to obtain information for locating a new site for well sources.

The proposed project is not expected to have a significant adverse impact on the DHHL's existing water system serving the Hoolehua community. The improvements would involve installation of a new 8-inch water line to replace the existing 6-inch water line, installation of additional fire hydrants and lateral connections to homestead lots. There would be no other changes to the remainder of the existing water system. This project would not significantly affect the current or future demand of potable water from this existing water system since this demand is dependent upon development of lots by lessees in the Hoolehua homestead area. The replacement of the existing section of 6-inch waterline would not generate greater demand since that could occur now under existing conditions.

As a result, this project would improve the existing water system to Hoolehua residents by upgrading it and making it more reliable due to the age of the existing section of line to be replaced. The resulting water system in the immediate area will be adequate for the anticipated development of homestead lots by lessees, provide necessary fire protection, and conform to County standards for water service and fire protection. The improvements would have a positive benefit created by DHHL to support the efforts of lessees to develop their homestead lots and receive reliable water service.

## **5.2 WASTEWATER FACILITIES**

There are no known County wastewater collection and treatment systems in the immediate area of the existing project site. Surrounding homestead lots utilize either cesspools or septic systems for sewage disposal.

With the improvements planned for the DHHL Molokai Water System, there would be no impact to wastewater collection and treatment systems. No wastewater facilities will be included as part of this proposed project.

## **5.3 DRAINAGE FACILITIES**

Surface runoff at the project site generally flows in a southeasterly direction (northwest to southeast) toward the Molokai Airport area. As shown on the photographs in Appendix A, the project area is a paved, two-lane roadway, and is predominantly absent of any ground vegetation.

However, a number of surrounding homestead lot areas have ground vegetation. Thus, there may be a moderate amount of soil erosion occurring during heavy rains in the surrounding area due to the exposed soils on homestead lots.

The project would not create additional impervious areas, as the roadway would be returned to its original condition upon installation and testing of the new water line and lateral connections, and back filling of the excavated area. As a result, there should not be a substantial increase in runoff occurring from the project site. The erosion of soil from the project site would also be reduced since specific areas of the project site would be excavated and trenched at any one time. Therefore, the project should not have a significant adverse impact on drainage facilities in the area. Furthermore, design plans would be prepared and coordinated with the County Department of Public Works and Waste Management for review and approval prior to construction.

#### **5.4 SOLID WASTE**

The County Department of Public Works and Waste Management operates a County landfill in Naiwa, approximately 5 miles south of the project site.

Installation of the proposed improvements to the water system will generate solid waste typical of normal construction related activities. No solid waste is expected to be generated as part of the operations of the water system once proposed improvements are completed. Construction-related solid wastes will be generated over a relatively short time period, and consist primarily of vegetation, rocks, and other debris resulting from the excavation and trenching of the project site. The amount of solid waste will be minimal since a majority of the excavated material may be used to back fill the trenches. The contractor will be required to remove all debris from the project site, and properly dispose those permitted at the Naiwa landfill in conformance with County regulations. Such activities are expected to have minimal impact on County solid waste facilities.

#### **5.5 TRANSPORTATION FACILITIES**

Vehicular access to the Hoolehua homestead area is provided by Farrington Avenue (State Route 480), which serves as a primary roadway in the Hoolehua area. Farrington Avenue also connects Hoolehua with the areas of Kualapuu, and to Kamehameha V Highway, which provides access to Kauanakakai. Farrington Avenue is a paved, two-lane roadway. This street provides access into the Hoolehua homestead area via a number of intersecting roads.

Access to the project site is provided by Farrington Avenue and a number of roadways that intersect with Farrington Avenue. As shown on the photos in Appendix A, Farrington Avenue is a paved, two-lane access road in relatively good condition. There is minimal vehicular traffic generally occurring on this roadway. Such traffic is generally limited to residential traffic associated with surrounding lots.

Impacts on existing transportation facilities associated with this project would primarily be associated with excavation and trenching related activities. There may be minor disruptions to vehicular traffic during excavation and trenching activities. A traffic control plan will be utilized to provide for safe and orderly passage of vehicular traffic through construction areas. Coordination with appropriate regulatory agencies will be undertaken for installation of the new water line, fire hydrants, and lateral connections.

During construction activities, vehicular traffic to and from the project site would be limited to vehicles used by construction workers and the transport of equipment and machinery. This additional traffic would be short-term and would not have a significant impact on traffic occurring along Farrington Avenue, which is very limited. Given the rural and agricultural nature of the Hoolehua area, traffic flow along Farrington Avenue is light. As a result, construction related traffic should not cause significant traffic congestion or adverse impacts along the avenue or through the Hoolehua community. The majority of regular traffic occurring would be construction workers heading to and leaving the project site. The Maui District Office of the State Department of Transportation commented in a letter dated March 18, 2002 that the proposed project should not have a significant impact to DOT facilities.

Upon completion of the project, vehicular traffic to the project site would return to its current state, as the roadway will be returned to its original condition. Thus, there would be no long-term impact on transportation facilities resulting from this project.

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## CHAPTER 6 PUBLIC FACILITIES AND UTILITIES

This chapter addresses the project's probable effect on existing public facilities and utilities associated with the DHHL Molokai Water System, Phase IV project. Due to the nature of this project, impacts would be more related to short-term construction activities, and thus, should not have a significant impact on these facilities.

### 6.1 ELECTRICAL AND COMMUNICATION FACILITIES

Maui Electric Company, Inc. (MECO) and Verizon Hawaii currently provide electrical and telephone service, respectively, to existing developments in the Hoolehua area of the island. As shown on photographs in Appendix A, electrical power serving the Hoolehua area is provided by wooden overhead electrical poles routed along Farrington Avenue. Communication lines are also located overhead on these wooden poles.

Installation of the proposed improvements to the water system is not expected to have an impact on existing electrical facilities operated by MECO, or existing communications facilities operated by Verizon Hawaii. There should be minimal change in the existing electrical and communication demands resulting from this project. As a result, no off-site improvements would be necessary for existing MECO electrical facilities or Verizon Hawaii facilities. Appropriate design plans would be coordinated with MECO and Verizon Hawaii, as needed.

### 6.2 EDUCATIONAL FACILITIES

There is only one school in the immediate area, serving students residing in the Hoolehua community. Molokai High and Intermediate School is located adjacent to the eastern portion of the project site. The school serves students from 7th to 12th grades from not only the Hoolehua area, but throughout the island of Molokai. Kualapuu Elementary School serves students from Kindergarten to 6th grades from Hoolehua, as well as the areas of Kualapuu, Kalae, Manila Camp, and Kalamaula (Department of Education 2000). Kualapuu Elementary School is located approximately 1 mile west of the eastern portion of the project site.

The project is not expected to have a significant impact on Molokai High and Intermediate School, Kualapuu Elementary School, or the operations of these schools. The project would not affect the number of students enrolled or faculty requirements at the schools since it will not involve the development of new residences or increase the resident population. Thus, potential impacts would only be associated with short-term construction activities, in the case of Molokai High and Intermediate School.

Potential construction related impacts on school activities would typically be associated with noise and fugitive dust emission. Such construction activities should not adversely impact Molokai High and Intermediate School activities since the project would occur over a short-term period. If necessary, the contractor would obtain a noise permit and comply with State DOH requirements, which were discussed in more detail in the previous chapter. Best management practices would also be implemented during excavation and trenching activities to minimize fugitive dust emissions.

### **6.3 RECREATIONAL FACILITIES**

Hoolehua has a few recreational facilities including a community center, and a park. The park, adjacent to Molokai High and Intermediate School, is located adjacent to the eastern portion of the project site. The Molokai Recreational Community Center Complex is also located adjacent to Molokai High and Intermediate School.

The project is not expected to have a significant impact on these recreational facilities or their operations. Potential impacts would only be associated with short-term construction activities, which would typically be associated with noise and fugitive dust emission. Such construction activities should not adversely impact these recreational facilities since the project would occur over a short-term period. If necessary, the contractor would obtain a noise permit and comply with State DOH requirements, which were discussed in more detail in the previous chapter. Best management practices would also be implemented during excavation and trenching activities to minimize fugitive dust emissions.

### **6.4 MEDICAL FACILITIES**

The Molokai General Hospital is the only medical facility on the island of Molokai, and is located in Kaunakakai, approximately 11 miles from the project site. Molokai General Hospital is a 30-bed rural healthcare facility, which provides medical services, emergency room, acute long-term care, low-risk obstetrical inpatient services, and an urgent care clinic.

The project is not expected to have a significant impact on this medical facility or its operations. Construction activities should not adversely impact these recreational facilities since the project site is located about 8 miles away and would occur over a short-term period. Best management practices would also be implemented during excavation and trenching activities to minimize fugitive dust emissions.

## **6.5 POLICE AND FIRE PROTECTION**

The project site is located within the Maui County Police Department's Molokai District, and the Molokai District Station serves all communities on the island of Molokai. The station is located in Kauanakakai in the Mitchell Paule Civic Center.

The Maui County Fire Department has two full-time fire stations, one in Kauanakakai, and the other in Hoolehua. The State also operates a fire protection facility at Molokai Airport during regular flight hours.

The project is not expected to have a significant impact on the County's police and fire departments' facilities or the ability of staff to provide protection and related services in the Hoolehua area. This project would not affect their operations, nor require additional protection services because it does not increase the resident population or visitors to the area. Short-term construction activities are also not expected to require police staff to monitor traffic flow in the area because there is minimal traffic occurring along Farrington Avenue and the project site.

## CHAPTER 7 CONFORMANCE WITH PLANS AND POLICIES

This chapter discusses the project's conformance with the State Land Use District regulations, and the County's General Plan goals and policies, and Zoning District standards.

### 7.1 STATE LAND USE DISTRICT

The State LUC's Land Use District Boundary Maps for Molokai Airport (Map MO-2) and Kaunakakai (Map MO-3) indicates that the project site and immediate surrounding area are designated as "Agricultural District." Permitted uses within the State Agricultural District are prescribed under Title 13, Chapter 205 (Land Use Commission), Hawaii Revised Statutes (HRS) and the State Land Use Commission's Administrative Rules prescribed under Title 15, Subtitle 3, Chapter 15, Hawaii Administrative Rules (HAR). Soils associated with the project site have an overall master productivity rating class "D" under the Land Study Bureau's detailed land classification (LSB 1968). Consequently, the improvements proposed in the DHHL Molokai Water System, Phase IV project is a permitted use under §205-4.5 (a)(7), HRS which specifies public, private, and quasi-public utility lines and roadways are permitted in the Agricultural District.

### 7.2 CHAPTER 344, STATE ENVIRONMENTAL POLICY

This section discusses the project's conformance and consistency with the pertinent goals, policies, and guidelines described under Chapter 344, State Environmental Policy, HRS.

#### Environmental Policy

1. *Conserve the natural resources, so that land, water, mineral, visual, air and other natural resources are protected by controlling pollution, by preserving or augmenting natural resources, and by safeguarding the State's unique natural environmental characteristics in a manner which will foster and promote the general welfare, create and maintain conditions under which man and nature can exist in productive harmony, and fulfill the social, economic, and other requirements of the people of Hawaii.*

The project would be consistent with this environmental policy because the water system improvements would replace the existing water line to ensure continued reliable water service in the future. This project would not have an adverse impact on natural resources or the environment as discussed in the various sections of this

document. Water system improvements along with construction activities conducted would meet all applicable Federal, State and County regulations to protect the environment. Best management practices would be implemented during construction to minimize runoff and other short-term impacts such as fugitive dust and noise.

2. *Enhance the quality of life by:*
  - A. *Setting population limits so that the interaction between the natural and artificial environments and the population is mutually beneficial.*
  - B. *Creating opportunities for the residents of Hawaii to improve their quality of life through diverse economic activities which are stable and in balance with the physical and social environments.*
  - C. *Establishing communities which provide a sense of identity, wise use of land, efficient transportation, and aesthetic and social satisfaction in harmony with the natural environment which is uniquely Hawaiian.*
  - D. *Establishing a commitment on the part of each person to protect and enhance Hawaii's environment and reduce the drain on nonrenewable resources.*

The DHHL Molokai Water System, Phase IV project would be consistent with these environmental policies regarding the quality of life. The project would not affect the existing or future resident population in Hoolehua or the establishment of new communities. These improvements do not involve any new homes or visitor units, and short-term construction jobs are expected to be filled by Hawaii residents not resulting in any in-migration. Construction of the project would create additional short-term construction related jobs for island residents helping the County improve their quality of life and economic activity. This project would enhance the community by assisting the DHHL in providing continuous reliable water service to the Hoolehua residents and surrounding DHHL lands, without adversely effecting the physical and social environment.

### **Guidelines**

#### **1. *Population***

- A. *Recognize population impact as a major factor in environmental degradation and adopt guidelines to alleviate this impact and minimize future degradation.*
- B. *Recognize optimum population levels for counties and districts within the State, keeping in mind that these will change with technology and circumstance, and adopt guidelines to limit population to the levels determined.*

The project would not affect the existing or future resident population in Hoolehua or the establishment of new communities. These improvements do not involve any new homes or visitor units, and short-term construction jobs are expected to be filled by Hawaii residents not resulting in any in-migration.

**2. Land, water, mineral, visual, air, and other natural resources**

- A. *Encourage management practices which conserve and protect watersheds and water sources, forest, and open space areas.*
- B. *Establish and maintain natural area preserves, wildlife preserves, forest preserves, marine preserves, and unique ecological preserves.*

The project would be consistent with these guidelines because the improvements would not impact those natural resources identified such as watersheds, forest preserves, wildlife preserves, or unique ecological preserves. The project would not impact an area that is valuable as important open space area since it is currently used as a roadway, and a majority of the improvements will be underground. Appropriate measures would be incorporated into the project's design to minimize erosion and address appropriate drainage requirements.

**3. Flora and fauna**

- A. *Protect endangered species of indigenous plants and animals and introduce new plants or animals only upon assurance of negligible ecological hazard.*
- B. *Foster the planting of native as well as other trees, shrubs, and flowering plants compatible to the enhancement of our environment.*

As discussed in this document, the project would not impact endangered plants or animals since none are known to be present on the project site or surrounding areas. This project would not introduce new plants or animals to the area, which may have an ecological hazard. Areas of the project site not used for improvements would be left in its current natural state. Thus, this project would be consistent with these guidelines.

**4. Parks, recreation, and open space**

- A. *Establish, preserve and maintain scenic, historic, cultural, park and recreation areas including the shorelines, for public recreational, educational, and scientific uses.*

The proposed improvements to the DHHL Molokai Water System is not expected to impact significant historic properties or cultural resources and practices as discussed in Chapter 3 since there are no known sites present or traditional cultural practices affected by the property. The improvements would not adversely impact recreational areas, educational facilities, or scenic visual resources.

**5. Economic development**

- A. *Promote and foster the agricultural industry of the State; and preserve and conserve productive agricultural lands.*

The project would be consistent with this guideline because it is not expected to significantly impact the agricultural industry. Surrounding homestead lands, which in some cases are used for cultivation of diversified agricultural crops, will not be significantly impacted as all construction will occur within the right-of-way of Farrington Avenue. Thus, surrounding agricultural lands will be preserved and conserved.

**6. Citizen participation**

- A. Provide for expanding citizen participation in the decision making process so it continually embraces more citizens and more issues.*

The environmental review process undertaken for this project allows for public and government agency input to express concerns and comments associated with the project. Such opportunities include pre-assessment consultation and review of the Draft EA. Thus, the public consultation process incorporate within this environmental review process provides decision-makers with a diverse array of information to consider in evaluating this project.

**7.3 COUNTY OF MAUI GENERAL PLAN**

This section discusses the project's conformance and consistency with pertinent objectives, and policies from the County of Maui's General Plan (1990 Update).

**A. Land Use**

*Objective:*

- *To use land within the County for the social and economic benefit of all the County's residents.*

*Policy:*

- *Support the Department of Hawaiian Home Lands' development of homestead lands.*

*Objective:*

- *To preserve lands that are well suited for agricultural pursuits.*

*Policy:*

- *Provide adequate irrigation water and access to agricultural lands.*

The project would be consistent with these objectives and policies because it would utilize lands within the County that will benefit the residents of the Palaau-Hoolehua Homestead area, and would support the DHHL's development of the Hoolehua community, and surrounding homestead lands.

The project would also assist in preserving lands that are well suited for agricultural pursuits by providing adequate irrigation water for homestead lots.

**C. Agriculture**

*Objective:*

- *To maximize the use and yield of productive agricultural land throughout the County.*

*Policy:*

- *Ensure the availability of adequate irrigation water for agricultural purposes during periods of limited rainfall.*

The project would be consistent with this objective and policy since the water system improvements would provide the Hoolehua area with adequate and reliable water service during all periods, and not only during periods of limited rainfall. This continual provision of water service will allow homestead lot lessees to develop their lots as diversified agricultural crops, if they so choose, and will allow agricultural lands to be used productively.

**D. Housing**

*Objectives:*

- *To provide a choice of attractive, sanitary, and affordable homes for all our residents.*

*Policy:*

- *Provide or require adequate physical infrastructure to meet the demands of present and planned future affordable housing needs.*

Improvements to the DHHL Molokai Water System in the Hoolehua area is proposed due to the anticipated property improvements to be made by homestead lot lessees. Anticipated improvements may include development of affordable homestead dwellings and diversified agriculture pursuits. Thus, the project would meet this objective and policy since the improvements would provide continuation of adequate water supply for present housing needs, and provide adequate water supply for future housing and agricultural needs.

**E. Water**

*Objective:*

- *To provide an adequate supply of potable and irrigation water to meet the needs of Maui County's residents.*

*Policies:*

- *Support the improvements of water transmission systems to those area which historically experience critical water supply problems provided the improvements are consistent with the water priorities and the County's Water Use Development Plan provisions for the applicable community plan area.*
- *Develop improved systems to provide better fire protection.*
- *Support the planning, preservation and development of water resources and systems which service Hawaiian Home Lands.*

*Objective:*

- *To make more efficient use of our ground, surface and recycled water sources.*

*Policy:*

- *Discourage the use of standpipes for fire protection purposes.*

Although the Hoolehua area does not experience critical water supply problems, this project will ensure that future water supply problems will be addressed, and lessen the probability of critical water supply problems. The project will also improve the Molokai Water System's ability to provide for better fire protection through the installation of additional fire hydrants and connections at periodic intervals. Installation of fire hydrants will discourage the use of standpipes to provide fire protection. Lastly, implementation of the project will support the efforts of the DHHL to plan, preserve, and develop water resources and systems that service the Palaau-Hoolehua Homestead area, and surrounding DHHL lands.

**F. Public Utilities and Facilities**

*Objective:*

- *To anticipate and provide public utilities which will meet community needs in a timely manner.*

*Policy:*

- *Maintain all power and utility systems so as to meet public health and safety standards.*

The project would meet this objective and policy since the proposed improvements will provide continual and adequate water service to the Hoolehua area. The installation of additional fire hydrants will provide adequate fire protection according to safety standards of the County of Maui.

#### **7.4 MOLOKAI COMMUNITY PLAN (UPDATE)**

An update of the Molokai Community Plan is currently before the Maui County Council for review and approval. Upon adoption of the community plan by the Mayor of the County of Maui, it will replace the Molokai Community Plan currently in effect, which was adopted in 1984.

In anticipation of approval of the Molokai Community Plan update by the Maui County Council and the Mayor of the County of Maui, this Final EA examines the project's conformance and consistency with the provisions of the Molokai Community Plan (Update).

##### **A. Infrastructure**

###### *Goal:*

- *Culturally and environmental sensitive infrastructure systems, developed and maintained in a timely fashion, which protect and preserve the safety and health of Molokai's residents and visitors.*

###### *Objectives and Policies:*

- *Water*
  - *Future water allocations for agricultural/aquacultural and Hawaiian Home Lands use should be given first priority and then consideration should be given to other viable economic development initiatives.*
  - *Develop improved transmission and/or storage systems to provide better fire protection.*
- *Provide adequate irrigation water and access to agricultural lands.*

The project would be consistent with these goals, objectives and policies because replacement of the water line will also include installation of additional fire hydrants at regular intervals that would meet County codes. Installation of the fire hydrants would provide needed safety for the Hoolehua homestead area.

##### **B. Department of Hawaiian Home Lands**

###### *Goal:*

- *The timely implementation of programs and settlement of Native Hawaiians on Department of Hawaiian Home Lands.*

*Objectives and Policies:*

- *Encourage and support planning and implementation of Department of Hawaiian Home Lands projects that benefit native Hawaiians.*
- *Ensure a water supply which will support the development of Department of Hawaiian Home Lands projects.*

This project would be consistent with these goals, objectives and policies, as replacement of the water line will support the planning and implementation of this specific DHHL project, as well as future anticipation for homestead lot improvements of lessees. The replacement of the water line will also ensure that an adequate water supply will continue for the Hoolehua homestead area, as well as surrounding DHHL homestead areas serviced by the DHHL Molokai Water System.

## 7.5 COUNTY ZONING DISTRICT

The project site and surrounding land is presently zoned "Agricultural." Under the Maui County Code, Chapter 19, Zoning (Zoning Code), the proposed project is considered a "minor utility facility." This is because the new water line, fire hydrants, and lateral connections to homestead lots would be used directly in the distribution of utility services, and that it would have minor impact on adjacent land uses (§19.04.40, Maui County Code).

The project would also be consistent with the minimum design standards for this Agricultural District. A discussion of the project's consistency is listed below:

1. The height limit under this zoning district is 30 feet under §19.30A.030(E) of the County's Zoning Code. As discussed in Chapter 2, this new water line would be installed underground, and the fire hydrants to be installed would meet County standards, and would be significantly less than 30 feet in height. Therefore, the project would be consistent with this height limit.
2. The maximum developable area permitted under the Agricultural District is 10 percent of the total lot area. The building restriction applies to farm dwellings, but does not apply to any structure used to support agriculture and utility facilities permitted under the Zoning Code. The proposed project is considered a "minor utility facility" under §19.04.040 of the Maui County Code, and is permitted within the Agricultural District under §19.30A.050. Thus, the minimum building site area provisions do not apply to the proposed project.

## CHAPTER 8 AGENCY AND PUBLIC CONSULTATION

Consultation with various Federal, State, and County government agencies was conducted to obtain their comments and concerns associated with the project as part of the environmental assessment process.

### 8.1 DRAFT EA PRE-ASSESSMENT CONSULTATION EFFORTS

Letters providing project information along with a preliminary site plan were sent to various consulted parties in September 2001 to solicit their initial comments and concerns associated with the project as part of the preparation of the Draft EA. A listing of agencies and organizations for which consultation letters were sent is provided below. Those providing written response are identified with a "»" symbol. Copies of written comments received along with written responses are included in Appendix B-1. Comments received were addressed in the appropriate sections of the Draft EA.

#### Federal Agencies

- » U.S. Army Engineer Division, Department of the Army  
Fish and Wildlife Service, Department of the Interior  
Natural Resources Conservation Service, Department of Agriculture

#### State of Hawaii Agencies

- » Department of Accounting and General Services
- » Department of Education
- » Department of Health  
Department of Land and Natural Resources
- » Department of Land and Natural Resources, Historic Preservation Division
- » Department of Transportation
- » Land Use Commission, Dept. of Business, Economic Development & Tourism  
Office of Planning, Dept. of Business, Economic Development & Tourism
- » Office of Hawaiian Affairs

#### County of Maui Agencies

- » Department of Parks and Recreation
- » Department of Public Works and Waste Management  
Department of Fire Control
- » Maui Police Department
- » Department of Water Supply
- » Department of Planning

## 8.2 DRAFT EA COMMENTS

The Draft EA for this project was published in the February 23, 2002 issue of the State Office of Environmental Quality Control's *The Environmental Notice* initiating a 30-day public comment period which ended on March 25, 2002. Copies of the Draft EA were distributed to the following parties for review and comments. Parties which submitted comments are indicated by a "»" next to them. Comment letters received from these parties along with corresponding response letters are included in Appendix B-2.

### Federal Agencies

- » U.S. Army Engineer Division, Department of the Army
- Fish and Wildlife Service, Department of the Interior
- » Natural Resources Conservation Service, Department of Agriculture

### State Agencies

- » Department of Accounting and General Services
- Department of Agriculture
- » Department of Education
- » Department of Health
- » Department of Land and Natural Resources
- » Department of Land and Natural Resources, Historic Preservation Division
- » Department of Transportation
- » Department of Transportation, Maui District Office
- Land Use Commission, Dept. of Business, Economic Development & Tourism
- » Office of Environmental Quality Control
- Office of Planning, Dept. of Business, Economic Development & Tourism
- » Office of Hawaiian Affairs

### County of Maui Agencies

- » Department of Parks and Recreation
- Department of Public Works and Waste Management
- Department of Fire Control
- Maui Police Department
- » Department of Water Supply
- Department of Planning

### Community Organizations

- Hui Malama I Na Kupuna 'O Hawai'i Nei
- State Council of Hawaiian Homestead Associations
- State Council of Hawaiian Homestead Associations, Molokai
- Koa Mana Resources
- Molokai Public Library

## CHAPTER 9 FINDINGS AND ANTICIPATED DETERMINATION

To determine whether a proposed action may have a significant effect on the environment, the Approving Agency needs to consider every phase of the action, the expected primary and secondary consequences, cumulative effect, and the short- and long-term effects. The Approving Agency's review and evaluation of the proposed action's effect on the environment would result in a determination whether: 1) the action would have a significant effect on the environment, and an Environmental Impact Statement Preparation Notice should be issued, or 2) the action would not have a significant effect warranting a Finding Of No Significant Impact (FONSI).

This chapter discusses the results of the assessment conducted for the proposed improvements associated with the DHHL Molokai Water System, Phase IV project in relation to the 13 Significance Criteria prescribed under the State Department of Health's Administrative Rules Title 11, Chapter 200. The purpose of this assessment was to consider the "significance" of potential environmental effects, which includes the sum of effects on the quality of the environment along with the overall and cumulative effects. The findings are discussed below for each criterion.

### 9.1 PRELIMINARY FINDINGS

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

The proposed water system improvements would not result in the irrevocable commitment to loss or destruction of any natural or cultural resource. As discussed in the various chapters of this document, the improvements would not negatively impact any natural or cultural resources of significance. There would be no destruction or loss of any significant, endangered, or threatened botanical, faunal, geological, or other natural resources since none are known to be present.

No surface archaeological or historic resources appear present on the project site due to its use as a roadway. No surface archaeological or historic resources appear in the surrounding areas due to its historical use for large scale pineapple production and most recently homestead lots and diversified agriculture crops. However, in the event any subsurface historic properties or burials are encountered during construction, all work would stop and the SHPD notified. Treatment of any findings would be conducted in compliance with Chapter 6E, HRS, §13-300, HAR, and NAGPRA.

The project site is not known to be used for any traditional native Hawaiian or other cultural practices. Implementation of the project would also not prevent access to surrounding land areas, which may be used for traditional gathering or other cultural practices.

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

The project would not curtail the range of beneficial uses of the surrounding environment. The present and historic use of the project site is a roadway. Surrounding areas are currently used as homestead and agricultural lands, and historically as pineapple fields. The project would provide needed improvements in providing continued reliable water service to the Hoolehua community and surrounding DHHL lands, which is a beneficial use.

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

The water system improvements would not conflict with the State's long-term environmental policies or goals and guidelines as expressed in Chapter 344, HRS. A discussion of the project's consistency with applicable guidelines was provided previously. The Draft and Final EAs addressed the probable environmental impacts associated with the project of which most would be primarily associated with short-term construction activities. Consequently, the improvements are not expected to have a significant impact on natural resources or the surrounding environment.

4. *Substantially affects the economic, or social welfare, cultural practices of the community or State.<sup>1</sup>*

As discussed in this document, the project would not have any significant negative impacts on economic factors, the Hoolehua community, or its rural and homestead character. This project would create some minor short-term construction related jobs and increased tax revenue that would have a minor positive effect on the overall economy of the County and State.

This project is not expected to significantly affect traditional native Hawaiian cultural practices other traditional cultural practices occurring in the surrounding area. There are no known traditional cultural practices occurring within the project site since it utilized as a paved, two-lane roadway.

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<sup>1</sup> This significance criteria was modified to reflect the recent change to Chapter 343, HRS approved by the Governor as Act 50 on April 20, 2000. This Act added "cultural practices" as part of the factors considered in determining the significance of an effect.

Adjacent areas surrounding this project site are used for homestead and diversified agricultural crops, and previously used for large-scale pineapple cultivation. The project would also not restrict access to surrounding areas, which may be potentially used for traditional native Hawaiian cultural practices.

5. *Substantially affects public health.*

The proposed improvements are not expected to substantially affect public health since the project would only involve limited construction work. The project would also replace an existing 6-inch water line and assist the DHHL to provide continued reliable water service to Hoolehua residents and surrounding homestead lands.

Construction activities are similarly not expected to cause significant air pollution in the form of fugitive dust or generate any other type of pollutants, which may have an adverse affect on public health. Surrounding areas consist of homestead lands, and residences are set back from the roadway right-of-way. There are no sensitive land uses in the immediate vicinity. Construction activities would occur only during a short time period, and best management practices would be incorporated into the project's design to further minimize nuisances and other typical impacts associated with construction activity.

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

This project would not have any secondary impacts on the social environment or other infrastructure and public facilities. The project only involves installation of a new 8-inch water line, fire hydrants, and lateral connections to homestead lots. As a result, the improvements do not include new housing units or visitor units, which would affect the area's resident population and demand for public facilities.

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

The proposed improvements would not involve a substantial degradation to the quality of the surrounding environment. This document discussed the probable impacts of several environmental factors associated with these improvements, which determined that there should not be an adverse impact on the quality of the existing environment.

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

This project only involves the improvements described for a specific section of the DHHL Molokai Water System and therefore does not involve a commitment for larger actions. Impacts associated with these improvements were addressed in this document, and these assessment results showed that this project would not have a significant impact on the environment both individually and cumulatively.

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

As discussed in Chapter 3 of this document, there were no known endangered, threatened, or rare botanical resources within the project site. The improvements would also not substantially affect endangered or threatened faunal or avifaunal resources, which may occur in the general vicinity. Necessary control measures and best management practices would also be implemented to minimize runoff and other potential short-term impacts associated with construction activity. Thus, the project is not expected to substantially affect rare, threatened, or endangered species or potential habitat for such species.

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

This project should not have a detrimentally significant impact on air, water quality, or ambient noise levels in the immediate vicinity of the project site. Impacts associated with these factors would be limited to short-term construction activities. The immediate surrounding area is also comprised of homestead lands. Such short-term construction related impacts are expected to be minor due to the relatively low amount of excavation and trenching required. To further minimize impacts, construction activities would be subject to applicable State regulations addressing air quality, noise, and water quality.

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

The project site is not located within an environmentally sensitive area such as those identified. Construction of the improvements would be in compliance with applicable State and County regulations and standards.

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

The project would not affect scenic vistas or viewplanes since there are none located on the project site or in the immediate vicinity. There are no significant views or landforms in the immediate vicinity, which would be adversely affected by the project.

13. *Requires substantial energy consumption.*

The project would not require substantial energy consumption or increased electrical facilities because it essentially only involves the replacement of the existing water line, installation of additional fire hydrants, and installation of lateral connections to homestead lots.

## 9.2 ANTICIPATED DETERMINATION

A Finding of No Significant Impact (FONSI) determination should be warranted for the DHHL Molokai Water System, Phase IV project based upon the information provided in this Final EA document, which included public and agency review of the published Draft EA. The results of the assessments conducted have determined that the improvements proposed should not have a significant impact on the surrounding environment. The preliminary findings supporting this anticipated determination are based upon the previous discussion of the project's affect on the environment in relation to the 13 Significance Criteria.

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## CHAPTER 10 BIBLIOGRAPHY

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# APPENDICES

# APPENDIX A

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## *Photographs Of Molokai Water System Project Site And Surrounding Area*

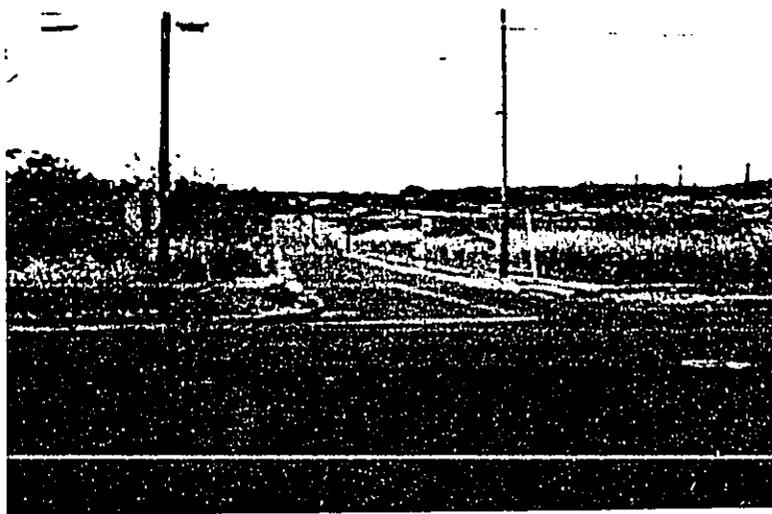


Photo 1  
North View Of Ala Ekolu Avenue  
At Farrington Avenue  
Intersection



Photo 2  
West View Of  
Farrington Avenue

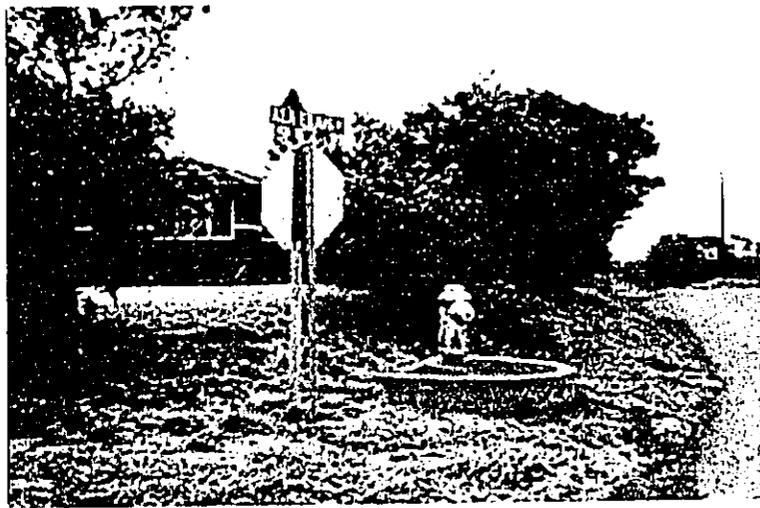


Photo 3  
Existing Fire Hydrant At  
Intersection Of Ala Ekahi Avenue  
And Farrington Avenue

**PHOTOGRAPHS OF PROJECT SITE  
AND SURROUNDING AREA**

**Figure A-1**

*Molokai Phase IV Water System Project  
Department of Hawaiian Home Lands*

Source:  
SSFM International, Inc.



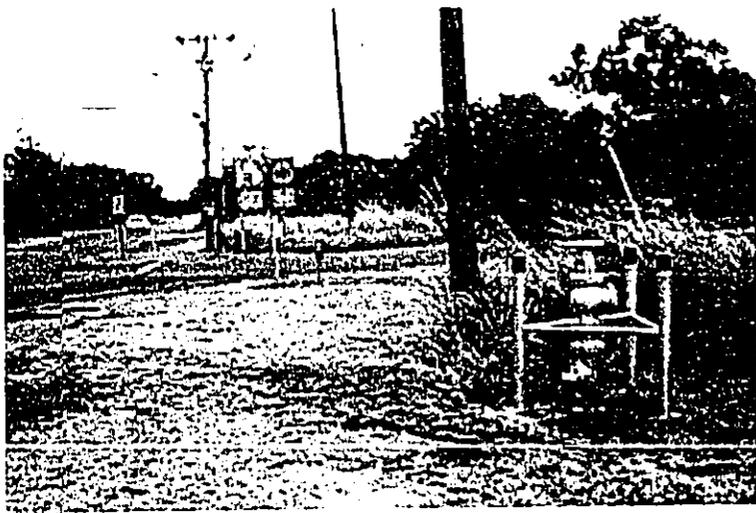


Photo 4  
Existing Fire Hydrant

Photo 5  
West View Of  
Farrington Avenue

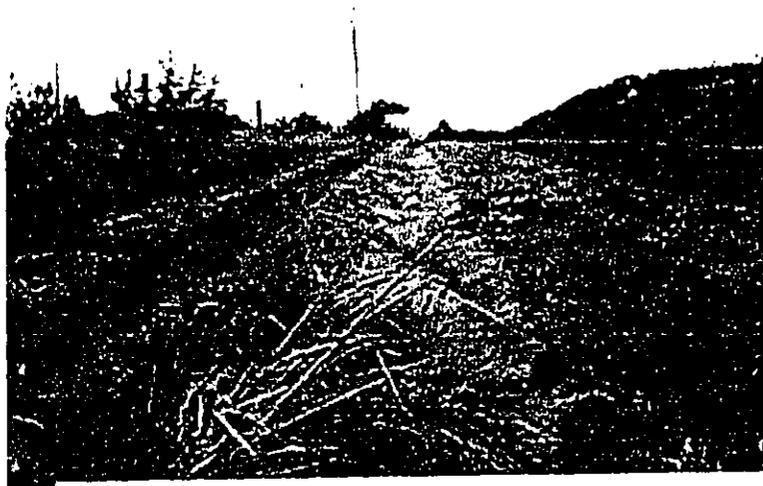
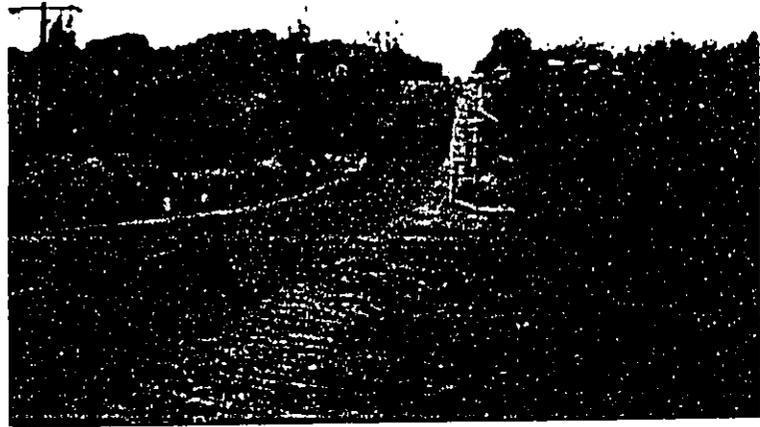


Photo 6  
East View Of  
Farrington Avenue

**PHOTOGRAPHS OF PROJECT SITE  
AND SURROUNDING AREA**

*Molokai Phase IV Water System Project  
Department of Hawaiian Home Lands*

**Figure A-2**

Source:  
SSFM International, Inc.



# APPENDIX B-1

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## *Pre-Assessment Consultation Comment Letters And Responses*





**SSFM INTERNATIONAL, INC.**

501 Sumner Street, Suite 502

Honolulu, Hawaii 96817

Phone: (808) 531-1308

Fax: (808) 521-7348

Project Managers, Planners, & Engineers  
American Council of Engineering Companies, Member

February 12, 2002

SSFM 9850700

Mr. George P. Young, P.E.  
Chief, Regulatory Branch  
Department of the Army  
U.S. Army Engineer District, Honolulu  
Fort Shafter, Hawaii 96858-5440

Dear Mr. Young:

**Subject: Pre-Assessment Consultation For Draft Environmental Assessment  
DHHL Molokai Water System Phase IV Project**

Thank you for your letter dated October 3, 2001 providing comments on the Pre-Assessment Consultation for Draft Environmental Assessment for the subject project.

The Draft Environmental Assessment will include information concerning the presence of any streams or wetlands located within the waterline route. A copy of the Draft Environmental Assessment published will be provided to your agency as part of the public review process.

If you have any questions on this matter, please contact me at 531-1308. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Leo R. Asuncion, Jr.', written in a cursive style.

Leo R. Asuncion, Jr, AICP  
Project Planner



BENJAMIN J. CAYETANO  
GOVERNOR

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

WAYNE H. KIMURA  
COMPTROLLER  
MARY ALICE EVANS  
DEPUTY COMPTROLLER

LETTER NO. (P)1643.1

OCT 10 2001

Mr. Ronald A. Sato, AICP  
Senior Planner  
SSFM International, Inc.  
501 Sumner, Suite 502  
Honolulu, Hawaii 96817

Dear Mr. Sato:

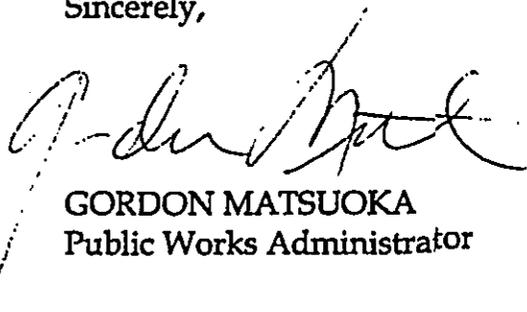
Subject: DHHL Molokai Phase IV Water System Project  
Pre-Assessment Consultation for  
Draft Environmental Assessment (EA)

Thank you for the opportunity to review the Pre-Assessment Consultation for Draft EA for the subject project.

The project does not impact any of the Department of Accounting and General Services projects or existing facilities. Therefore, we have no comments to offer.

Should you have any questions, please have your staff call Mr. Allen Yamanoha of the Public Works Division at 586-0488.

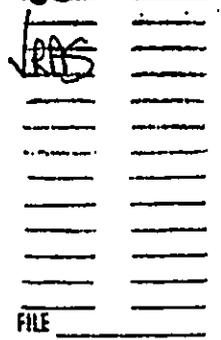
Sincerely,

  
GORDON MATSUOKA  
Public Works Administrator

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SSFM INTERNATIONAL, INC.  
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OCT 11 2001



FILE \_\_\_\_\_



**SSFM INTERNATIONAL, INC.**

501 Sumner Street, Suite 502

Honolulu, Hawaii 96817

Phone: (808) 531-1308

Fax: (808) 521-7348

Project Managers, Planners, & Engineers  
American Council of Engineering Companies, Member

February 12, 2002

SSFM 9850700

Mr. Gordon Matsuoka  
Public Works Administrator  
Department of Accounting and General Services  
State of Hawaii  
P.O. Box 119  
Honolulu, Hawaii 96810

Dear Mr. Matsuoka:

**Subject: Pre-Assessment Consultation For Draft Environmental Assessment  
DHHL Molokai Water System Phase IV Project**

Thank you for your letter dated October 10, 2001 providing comments on the Pre-Assessment Consultation for Draft Environmental Assessment for the subject project.

We note your response that the project does not impact any Department of Accounting and General Services projects or existing facilities.

If you have any questions on this matter, please contact me at 531-1308. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Leo R. Asuncion, Jr.', written in a cursive style.

Leo R. Asuncion, Jr, AICP  
Project Planner

BENJAMIN J. CAYETANO  
GOVERNOR



STATE OF HAWAII  
DEPARTMENT OF EDUCATION  
P.O. BOX 2360  
HONOLULU, HAWAII 96804

OFFICE OF THE SUPERINTENDENT

October 31, 2001

Mr. Ronald A. Sato, AICP  
SSFM International, Inc.  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817

Dear Mr. Sato:

Subject: Molokai Phase IV Water System Project  
Pre-Assessment Consultation

The Department of Education has no comment on the subject project at this time.

Thank you for the opportunity to respond.

Very truly yours,

Patricia Hamamoto  
Interim Superintendent

HM:hy

cc: A. Suga, DAS

PATRICIA HAMAMOTO  
INTERIM SUPERINTENDENT  
**FILE COPY**

SSFM INTERNATIONAL, INC.  
RECEIVED:

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JAS  
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**SSFM INTERNATIONAL, INC.**  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817  
Phone: (808) 531-1308  
Fax: (808) 521-7348

Project Managers, Planners, & Engineers  
American Council of Engineering Companies, Member

SSFM 9850700

February 12, 2002

Ms. Patricia Hamamoto, Superintendent  
Department of Education  
State of Hawaii  
P.O. Box 2360  
Honolulu, Hawaii 96804

Dear Ms. Hamamoto:

Subject: Pre-Assessment Consultation For Draft Environmental Assessment  
DHHL Molokai Water System Phase IV Project

Thank you for your letter dated October 31, 2001 providing comments on the Pre-Assessment Consultation for Draft Environmental Assessment for the subject project.

We note your response that the Department of Education has no comments to offer at this time.

If you have any questions on this matter, please contact me at 531-1308. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Leo R. Asuncion, Jr.', written in a cursive style.

Leo R. Asuncion, Jr, AICP  
Project Planner

BENJAMIN J. CAYETANO  
GOVERNOR OF HAWAII



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

**FILE COPY**

BRUCE S. ANDERSON, Ph.D., M.P.H.  
DIRECTOR OF HEALTH

In reply, please refer to:  
File:

01-DHHL/epo

October 18, 2001

SSFM INTERNATIONAL, INC.  
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OCT 23 2001

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Mr. Ronald A. Sato  
SSFM International Inc.  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817

Dear Mr. Sato:

Subject: DHHL Molokai Phase IV Water System Project, Pre-Assessment.

Thank you for allowing us to review and comment on the subject proposal. We have no comments to offer at this time.

Sincerely,

GARY GILL  
Deputy Director  
Environmental Health Administration



**SSFM INTERNATIONAL, INC.**  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817  
Phone: (808) 531-1308  
Fax: (808) 521-7348

Project Managers, Planners, & Engineers  
American Council of Engineering Companies, Member

SSFM 9850700

February 12, 2002

Mr. Gary Gill, Deputy Director  
Department of Health  
State of Hawaii  
P.O. Box 3378  
Honolulu, Hawaii 96801

Dear Mr. Anderson:

Subject: Pre-Assessment Consultation For Draft Environmental Assessment  
DHHL Molokai Water System Phase IV Project

Thank you for your letter dated October 18, 2001 (File No. 01-DHHL/epo) providing comments on the Pre-Assessment Consultation for Draft Environmental Assessment for the subject project.

We note your response that the Department of Health has no comments to offer at this time.

If you have any questions on this matter, please contact me at 531-1308. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'L. Asuncion, Jr.', written in a cursive style.

Leo R. Asuncion, Jr, AICP  
Project Planner

BENJAMIN J. CAYETANO  
GOVERNOR OF HAWAII



GILBERT S. COLOMA-AGARAN, CHAIRPERSON  
BOARD OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCE MANAGEMENT

DEPUTIES  
JANET E. KAWELO  
LINNEL NISHIOKA

SSFM INTERNATIONAL, INC.  
RECEIVED

OCT 11 2001

RPS

STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES

HISTORIC PRESERVATION DIVISION  
Kakuhikawa Building, Room 555  
801 Kamokila Boulevard  
Kapolei, Hawaii 96707

AQUATIC RESOURCES  
BOATING AND OCEAN RECREATION  
COMMISSION ON WATER RESOURCE  
MANAGEMENT  
CONSERVATION AND RESOURCES  
ENFORCEMENT  
CONVEYANCES  
FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION  
LAND  
STATE PARKS

October 8, 2001

Mr. Ronald A. Sato  
Senior Project Planner  
SSFM International, Inc.  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817

LOG NO: 28308 ✓  
DOC NO: 0110SC06

Dear Mr. Sato:

**SUBJECT: Chapter 6E-8 Historic Preservation Comment on the Proposed Molokai Phase IV Water System Project on Department of Hawaiian Homelands (DHHL) Lands Ho'olehua, Moloka'i TMK: 5-2-007: 015 & 022-027**

Thank you for the opportunity to comment on the proposed Molokai Phase IV Water System Project in Ho'olehua, Moloka'i. The planned improvements will be installed within Farrington Avenue between Hauakea Avenue and Ala Ekolu Avenue. DHHL plans to install a new eight-inch water main along Farrington Avenue for a total length of about 17,900 feet. In addition, fire hydrants will be installed at regular intervals along Farrington Avenue in locations immediately adjacent to the road corridor. Our review is based on historic maps, aerial photographs, records, and reports maintained at the State Historic Preservation Division; no field inspections were made of the subject parcels.

It is very unlikely that significant historic sites are still present in the Farrington Avenue roadway corridor, which has undergone extensive ground alteration. Consequently, we believe that the proposed Molokai Phase IV Water System Project will have "no effect" on significant historic sites.

Should you have any questions, please feel free to contact Sara Collins at 692-8026.

Aloha

DON HIBBARD, Administrator  
State Historic Preservation Division

SC:jen

- c: John Min, Director, Dept of Planning, County of Maui, 250 S. High Street, Wailuku, HI 96793
- Cultural Resources Commission, Planning Dept, 250 S. High Street, Wailuku, HI 96793
- Malia Akutagawa, Chair, Molokai Planning Commission, PO Box 1715, Kaunakakai, HI 96748



**SSFM INTERNATIONAL, INC.**

501 Sumner Street, Suite 502

Honolulu, Hawaii 96817

Phone: (808) 531-1308

Fax: (808) 521-7348

Project Managers, Planners, & Engineers  
American Council of Engineering Companies, Member

February 12, 2002

SSFM 9850700

Mr. Don Hibbard, Administrator  
State Historic Preservation Division  
Kakuhihewa Building, Room 555  
601 Kamokila Boulevard  
Kapolei, Hawaii 96707

Dear Mr. Hibbard:

**Subject: Pre-Assessment Consultation For Draft Environmental Assessment  
DHHL Molokai Water System Phase IV Project**

Thank you for your letter dated October 8, 2001 (Doc. No. 0110SC06) providing comments on the Pre-Assessment Consultation for Draft Environmental Assessment for the subject project.

We note your determination that it is very unlikely that significant historic sites are still present in the Farrington Avenue corridor due to extensive ground alteration, and that the proposed project will have "no effect" on significant historic sites.

If you have any questions on this matter, please contact me at 531-1308. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'L. Asuncion, Jr.' with a stylized flourish at the end.

Leo R. Asuncion, Jr, AICP  
Project Planner

BENJAMIN J. CAYETANO  
GOVERNOR



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

BRIAN K. MINAAI  
DIRECTOR

DEPUTY DIRECTORS  
GLENN M. OKIMOTO  
JADINE Y. URASAKI

IN REPLY REFER TO:

DIR 1694  
HWY-PS  
2.4687

OCT 30 2001

Mr. Ronald A. Sato  
SSFM International, Inc.  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817

Dear Mr. Sato:

Subject: Pre-Assessment Consultation for Draft Environmental Assessment, DHHL  
Molokai Phase IV, Water System Project, Hoolehua, Molokai,  
TMK: 5-2-07: vars

Thank you for requesting our comments on the proposed DHHL water main project.

We have the following comments:

1. The new water main and fire hydrants should be placed as far away from the paved roadway as possible.
2. Construction plans, including typical sections for the water main cross-sections, must be submitted to our Maui District Office for review and approval.

If there are any questions, contact Ronald Tsuzuki, Head Planning Engineer, at 587-1830.

Very truly yours,

*Brian K. Minai*  
BRIAN K. MINAAI  
Director of Transportation

SSFM INTERNATIONAL, INC.  
RECEIVED

OCT 31 2001

✓ RAS	_____
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**SSFM INTERNATIONAL, INC.**  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817  
Phone: (808) 531-1308  
Fax: (808) 521-7348

Project Managers, Planners, & Engineers  
American Council of Engineering Companies, Member

February 12, 2002

SSFM 9850700

Mr. Brian K. Minaai, Director  
Department of Transportation  
State of Hawaii  
869 Punchbowl Street  
Honolulu, Hawaii 96813-5097

Dear Mr. Minaai:

Subject: Pre-Assessment Consultation For Draft Environmental Assessment  
DHHL Molokai Water System Phase IV Project

Thank you for your letter dated October 30, 2001 providing comments on the Pre-Assessment Consultation for Draft Environmental Assessment for the subject project.

The new fire hydrants would be placed at appropriate locations away from the paved roadway to the extent possible, but within the existing rights-of-way. The water main will generally be located within the existing roadway.

The proposed locations of the new water main and fire hydrants will be shown on construction plans that will be submitted to your Maui District Office for review and approval prior to commencement of the project.

If you have any questions on this matter, please contact me at 531-1308. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Leo R. Asuncion, Jr.'.

Leo R. Asuncion, Jr, AICP  
Project Planner

BENJAMIN J. CAYETANO  
GOVERNOR



**STATE OF HAWAII**  
DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM  
**LAND USE COMMISSION**  
P.O. Box 2359  
Honolulu, HI 96804-2359  
Telephone: 808-587-3822  
Fax: 808-587-3827

ANTHONY J.H. CHING  
EXECUTIVE OFFICER

**FILE COPY**

SSFM INTERNATIONAL, INC.  
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OCT 12 2001

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October 9, 2001

Mr. Ronald A. Sato, AICP  
Senior Project Planner  
SSFM International  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817

Dear Mr. Sato:

Subject: DHHL Molokai Phase IV Water System Project  
Pre-Assessment Consultation for Draft Environmental Assessment

We are in receipt of your letter dated September 27, 2001, requesting comments on the subject project. Our review of the conceptual site plan indicates that the project location is designated within the boundary of the State Land Use Agricultural District. We suggest that the Draft Environmental Assessment (DEA) include a map showing the project location in relation to the State land use districts.

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

Please feel free to contact Bert Saruwatari of my office at 587-3822 should you require clarification or any further assistance.

Sincerely,

*Anthony J. Ching*  
ANTHONY J.H. CHING  
Executive Officer

c: Office of Environmental Quality Control



**SSFM INTERNATIONAL, INC.**  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817  
Phone: (808) 531-1308  
Fax: (808) 521-7348

Project Managers, Planners, & Engineers  
American Council of Engineering Companies, Member

February 12, 2002

SSFM 9850700

Mr. Anthony J.H. Ching  
Executive Officer  
State Land Use Commission  
P.O. Box 2359  
Honolulu, Hawaii 96804-2359

Dear Mr. Ching:

Subject: Pre-Assessment Consultation For Draft Environmental Assessment  
DHHL Molokai Water System Phase IV Project

Thank you for your letter dated October 9, 2001 providing comments on the Pre-Assessment Consultation for Draft Environmental Assessment for the subject project.

We note your response that the project location is within the State Land Use Agricultural District. The Draft Environmental Assessment will include a map showing the project location in relation to the State land use districts.

If you have any questions on this matter, please contact me at 531-1308. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Leo R. Asuncion, Jr.', written in a cursive style.

Leo R. Asuncion, Jr, AICP  
Project Planner

PHONE (808) 594-1888



STATE OF HAWAII  
OFFICE OF HAWAIIAN AFFAIRS  
711 KAPI'OLANI BOULEVARD, SUITE 600  
HONOLULU, HAWAII 96813

FAX (808) 594-1865

SSFM INTERNATIONAL, INC.  
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OCT 17 2001

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HRD01-31&E

October 15, 2001

**FILE COPY**

Ronald Sato  
SSFM International, Inc.  
501 Sumner Street, Suite 502  
Honolulu, HI 96817

Subject: DHHL Molokai Phase IV Water System Project  
Pre-Assessment Consultation for Draft Environmental Assessment

Dear Mr. Sato:

Thank you for the opportunity to comment on the draft environmental assessment (EA) for the above-referenced project. OHA requests that the DEA address the following issues.

**CULTURAL DEPOSITS**

As the project will involve ground-disturbing activity, OHA requests that the draft EA include an assessment of the project's impacts on cultural deposits and a mitigation plan. The mitigation plan itself should be included in the EA and subject to public review as a means of determining the adequacy of the plan in its protection of cultural resources.

OHA requests that the mitigation plan include provisions for a cultural monitor. A cultural monitor works in conjunction with the archaeological monitor to ensure that cultural deposits which are inadvertently discovered are handled in a manner that is culturally appropriate. The cultural monitor should have some understanding and practice in the use of Hawaiian cultural protocol, ability to relate with sensitivity to the handling of Native Hawaiian remains, and possess traditional knowledge of families, the history and genealogy of the area.

The draft EA should also include a discussion of how the applicant will comply with applicable state law on human burials, both previously known and inadvertently discovered. If necessary, approval on burial treatment plans from the appropriate island burial council should be obtained prior to the inception of the project.

#### CULTURAL IMPACT STATEMENT

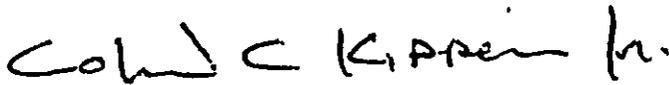
OHA requests that the EA identify and address the effects on Hawai'i's culture and traditional and customary rights pursuant to Section 343-2, Hawai'i Revised Statutes, as amended by Act 50 Session Laws of Hawaii 2000. The cultural impact statement must identify and describe the cultural practices located within the potentially affected area; assess the impact on these practices; examine alternatives to the proposed action; and propose mitigation measures. The preparer of the cultural impact statement should consult with Native Hawaiian individuals and organizations to determine the impact of the proposed structures and activities on cultural practices. The EA should include a discussion of the methods used to identify and select persons with knowledge of cultural practices and the results of consultation with them. At a minimum, the draft EA should identify individuals and organizations with expertise on cultural practices with whom consultation has occurred.

#### FEDERAL LAW

If the project involves the use of Federal funds, as may well be the case due to DHHL involvement, the project may implicate Section 106 of the National Historic Preservation Act and NAGPRA. The draft EA should address how the applicant will comply with applicable Federal law.

If you have any questions, please contact Sharla Manley, Policy Analyst at 594-1944.

Sincerely,



Colin C. Kippen, Jr.  
Deputy Administrator

CK: sam

cc: OHA Board of Trustees  
Clyde W. Namu'o, Administrator  
Molokai CAC



**SSFM INTERNATIONAL, INC.**

501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817  
Phone: (808) 531-1308  
Fax: (808) 521-7348

Project Managers, Planners, & Engineers  
American Council of Engineering Companies, Member

February 12, 2002

SSFM 9850700

Mr. Colin C. Kippen, Jr., Deputy Administrator  
Office of Hawaiian Affairs  
State of Hawaii  
711 Kapiolani Boulevard, Suite 500  
Honolulu, Hawaii 96813

Dear Mr. Kippen:

Subject: Pre-Assessment Consultation For Draft Environmental Assessment  
DHHL Molokai Water System Phase IV Project

Thank you for your letter dated October 15, 2001 providing comments on the Pre-Assessment Consultation for Draft Environmental Assessment (Draft EA) for the subject project.

The Draft EA will address the potential impacts on cultural deposits along the water line route, and identify necessary mitigative measures. Such mitigative measures would include compliance with Chapter 6E, HRS, Chapter 13-300 HAR, and NAGPRA concerning treatment of human burials. This Draft EA will be published for public review as part of the environmental review process.

There are no previously known burials located within the water line corridor. In the event inadvertently discovered human remains are encountered during construction, a burial treatment plan will be developed in consultation with the Molokai Island Burial Council.

The State Department of Hawaiian Home Lands (DHHL) currently has no plans to include a cultural monitor for this project. However, they will consider your request to include a cultural monitor as part of construction activities associated with this project.

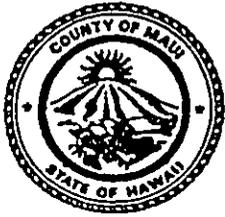
The Draft EA will address the project's probable impact on traditional cultural practices occurring along the water line route. The project will not involve the use of Federal funds triggering Section 106 consultation.

If you have any questions on this matter, please contact me at 531-1308. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Leo R. Asuncion, Jr.', written over a horizontal line.

Leo R. Asuncion, Jr, AICP  
Project Planner



**DEPARTMENT OF  
PARKS AND RECREATION  
COUNTY OF MAUI**

1580-C KAAHUMANU AVENUE WAILUKU, HAWAII 96793

JAMES "KIMO" APANA  
Mayor

FLOYD S. MIYAZONO  
Director

ELIZABETH D. MENOR  
Deputy Director

(808) 270-7230  
FAX (808) 270-7233

**FILE COPY**

October 3, 2001

Mr. Ronald A. Sato, AICP  
Senior Project Planner  
SSFM International, Inc.  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817

Dear Mr. Sato:

**SUBJECT: DHHL MOLOKAI PHASE IV WATER SYSTEM PROJECT**

Thank you for the opportunity to review the conceptual plan and summary for the subject project. At this time, we have no comments or objections to the proposed action.

If there are any questions, please contact Mr. Patrick Matsui, Chief of Parks Planning and Development, at (808)270-7387.

Sincerely,

*Patrick S. Matsui*  
FLOYD S. MIYAZONO  
Director

c. Patrick Matsui, Chief of Planning and Development

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OCT 08 2001  
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**SSFM INTERNATIONAL, INC.**

501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817  
Phone: (808) 531-1308  
Fax: (808) 521-7348

Project Managers, Planners, & Engineers  
American Council of Engineering Companies, Member

February 12, 2002

SSFM 9850700

Mr. Floyd Miyazono, Director  
Department of Parks and Recreation  
County of Maui  
1580-C Kaahumanu Avenue  
Wailuku, Hawaii 96793

Dear Mr. Miyazono:

**Subject: Pre-Assessment Consultation For Draft Environmental Assessment  
DHHL Molokai Water System Phase IV Project**

Thank you for your letter dated October 3, 2001 providing comments on the Pre-Assessment Consultation for Draft Environmental Assessment for the subject project.

We note your response that the Department of Parks and Recreation has no comments to offer at this time, and no objection to the subject project.

If you have any questions on this matter, please contact me at 531-1308. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Leo R. Asuncion, Jr.', written in a cursive style.

Leo R. Asuncion, Jr, AICP  
Project Planner

JAMES "KIMO" APANA  
Mayor

DAVID C. GOODE  
Director

MILTON M. ARAKAWA, A.I.C.P.  
Deputy Director

Telephone: (808) 270-7845  
Fax: (808) 270-7955



COUNTY OF MAUI  
**DEPARTMENT OF PUBLIC WORKS  
AND WASTE MANAGEMENT**  
200 SOUTH HIGH STREET  
WAILUKU, MAUI, HAWAII 96793

November 1, 2001

RALPH NAGAMINE, L.S., P.E.  
Land Use and Codes Administration

Wastewater Reclamation Division

LLOYD P.C.W. LEE, P.E.  
Engineering Division

BRIAN HASHIRO, P.E.  
Highways Division

Solid Waste Division  
**FILE COP**

Mr. Ronald A. Sato, AICP  
SSFM INTERNATIONAL, INC.  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817

Dear Mr. Sato:

**SUBJECT: DHHL MOLOKAI PHASE IV WATER SYSTEM PROJECT  
PRE-ASSESSMENT CONSULTATION FOR DRAFT  
ENVIRONMENTAL ASSESSMENT**

We have reviewed the information relating to a pre-assessment consultation for the Draft Environmental Assessment for the subject project. We have the following comment:

1. The contractor shall obtain a Work to Perform on County Highways Permit prior to commencement of construction.

If you have any questions regarding this letter, please call Milton Arakawa at 270-7845.

Very truly yours,

DAVID GOODE  
Director

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**SSFM INTERNATIONAL, INC.**

501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817  
Phone: (808) 531-1308  
Fax: (808) 521-7348

Project Managers, Planners, & Engineers  
American Council of Engineering Companies, Member

February 12, 2002

SSFM 9850700

Mr. David C. Goode, Director  
Department of Public Works and Waste Management  
County of Maui  
200 South High Street  
Wailuku, Hawaii 96793

Dear Mr. Goode:

Subject: Pre-Assessment Consultation For Draft Environmental Assessment  
DHHL Molokai Water System Phase IV Project

Thank you for your letter dated November 1, 2001 providing comments on the Pre-Assessment Consultation for Draft Environmental Assessment for the subject project.

The contractor for the project shall obtain a Work to Perform on County Highways Permit, prior to commencement of construction.

If you have any questions on this matter, please contact me at 531-1308. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Leo R. Asuncion, Jr.', written in a cursive style.

Leo R. Asuncion, Jr, AICP  
Project Planner



JAMES "KIMO" APANA  
MAYOR

OUR REFERENCE  
ty  
YOUR REFERENCE

# POLICE DEPARTMENT COUNTY OF MAUI

55 MAHALANI STREET  
WAILUKU, HAWAII 96793  
(808) 244-6400  
FAX (808) 244-6411

November 13, 2001

FILE COPY



THOMAS M. PHILLIPS  
CHIEF OF POLICE

KEKUHAUPIO R. AKANA  
DEPUTY CHIEF OF POLICE

SSFM INTERNATIONAL, INC.  
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FILE

Mr. Ronald A. Sato, AICP  
SSFM International, Inc.  
501 Sumner Street, Suite 502  
Honolulu, Hi 96817

Dear Mr. Sato:

SUBJECT: DHHL Molokai Phase IV Water System Project  
Pre-Assessment Consultation for Draft Environmental Assessment

We are in receipt of your letter of September 27, 2001 requesting comments on the above subject and apologize for the delay in notifying you.

After reviewing the proposed summary, we have enclosed our comments and recommendations. Thank you for giving us the opportunity to comment on the proposed project.

Very truly yours,

  
Assistant Chief Robert Tam Ho  
for: Thomas M. Phillips  
Chief of Police

Enclosure

c: John E. Min, Planning Department

DOCUMENT CAPTURED AS RECEIVED

COPY

TO : THOMAS PHILLIPS, CHIEF OF POLICE, MAUI POLICE DEPARTMENT

VIA : CHANNELS

FROM : KELLY M. ARLOS, POLICE OFFICER III, MOLOKAI PATROL

SUBJECT : DEPARTMENT OF HAWAIIAN HOMELANDS MOLOKAI PHASE IV WATER SYSTEM PROJECT IN HOOLEHUA.

*10.24.01*  
*MS/KC*  
*Draft response*  
*with actuals*  
*to/from*

Sir this To/From is being respectfully submitted in regards to the above project being undertaken by SSFM International, Inc.

The Molokai Phase IV Water System project will involve the installation of an 8 inch water main section to replace the existing 6 inch water main along the mauka shoulder of Farrington Avenue between Ala Ekolu and Haukea Avenue. This will also include the installation of fire hydrants at necessary locations along the 17,900 feet route.

I spoke to Senior Project Planner Ronald SATO who related that construction is tentatively set to begin in June 2002 and should be completed by November 2003. Work will be done from Monday to Friday with the exception of Holidays from 0800 hours to 1600 hours.

I do not for see any problems with the above project location as there are a few houses in the area and traffic is relatively light. They might consider traffic control to reroute traffic when construction is being done across cross streets. They will need traffic control at the intersection of Farrington and Puupeelua Avenue.

This communication is being respectfully submitted for your perusal.

*I concur with*  
*2-10 report.*  
*512. 10/22/01*

*Concur with Ofc. Arlos, Low traffic area. Traffic Control will be required at intersections and during times roads are blocked.*

*Lt. D. Matsumoto*  
*10/22/01*

*Alaic L. Linder*  
*10/24/01*

*Recommend Approval of this project. No impact on Crime or Safety. Request Terri Jorg draft letter to that effect. (not trans)*

*Kelly M. Arlos*  
 Kelly M. ARLOS 10652  
 P.O III Molokai Patrol  
 102201 @ 1447 hours



**SSFM INTERNATIONAL, INC.**  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817  
Phone: (808) 531-1308  
Fax: (808) 521-7348

Project Managers, Planners, & Engineers  
American Council of Engineering Companies, Member

February 12, 2002

SSFM 9850700

Mr. Thomas M. Phillips, Chief of Police  
Police Department  
County of Maui  
55 Mahalani Street  
Wailuku, Hawaii 96793

Dear Chief Phillips:

Subject: Pre-Assessment Consultation For Draft Environmental Assessment  
DHHL Molokai Water System Phase IV Project

Thank you for your letter dated November 13, 2001 providing comments on the Pre-Assessment Consultation for Draft Environmental Assessment for the subject project.

A traffic control plan will be developed to make sure that vehicular traffic in the project area is not severely impacted, and to specify that the contractor takes necessary precautions for the protection, safety, and convenience of public traffic. Traffic controls will be provided to reroute traffic through intersections affected and at times when the roads are blocked.

If you have any questions on this matter, please contact me at 531-1308. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Leo R. Asuncion, Jr.', written in a cursive style.

Leo R. Asuncion, Jr, AICP  
Project Planner



FILE COPY

SSFM INTERNATIONAL, INC.  
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**DEPARTMENT OF WATER SUPPLY  
COUNTY OF MAUI  
P.O. BOX 1109  
WAILUKU, MAUI, HAWAII 96793-7109  
Telephone (808) 270-7816 • Fax (808) 270-7833**

October 30, 2001

Ronald A. Sato, Senior Planner  
SSFM International, Inc.  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817  
Phone: (808) 531-1308

Re: TMK: 5-02-07:015;022;027  
Project Name: DHHL Molokai Phase IV Water System Project  
Pre-Assessment Consultation For Draft Environmental Assessment

Dear Mr. Ronald A. Sato,

Thank you for the opportunity to comment on this proposal. The Department of Water Supply has the following suggestions at this time.

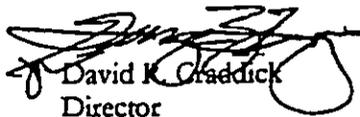
The project is located on the Hoolehua Aquifer which has a sustainable and developable yield of 2 mgd. In order to protect Molokai's groundwater and surface water resources, DWS recommends that the EA outline the specific Best Management Practices (BMP's) the project intends to use to minimize infiltration and runoff from all construction and vehicle operations. We have attached sample BMP's for principle operations for reference. Additional information is available from the State Department of Health.

This subdivision is served by a private well in the Kualapu'u Aquifer. The EA should delineate current status of the source, as well as any anticipated changes in consumption based on this project. The State Commission on Water Resource Management has designated the island of Molokai as Groundwater Management Area. As a result, any withdrawals of water are limited to quantities approved by the commission. According to the Molokai Working Group Report, the "sustainable yield of the Kualapu'u Aquifer appears to have been fully allocated in 1996."

We recommend that DHHL design and construct the water system improvements using criteria that meets or exceeds DWS standards. The applicant is encouraged to contact our Engineering Department at 270-7835.

Should you have any questions, please contact our Water Resources and Planning Division at 270-7199.

Sincerely,

  
David K. Craddick  
Director

mni  
C: Engineering Division



**SSFM INTERNATIONAL, INC.**

501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817  
Phone: (808) 531-1308  
Fax: (808) 521-7348

Project Managers, Planners, & Engineers  
American Council of Engineering Companies, Member

February 12, 2002

SSFM 9850700

Mr. David R. Craddick, Director  
Department of Water Supply  
County of Maui  
P.O. Box 1109  
Wailuku, Hawaii 96793-7109

Dear Mr. Craddick:

**Subject: Pre-Assessment Consultation For Draft Environmental Assessment  
DHHL Molokai Water System Phase IV Project**

Thank you for your letter dated October 30, 2001 providing comments on the Pre-Assessment Consultation for Draft Environmental Assessment for the subject project.

The Draft Environmental Assessment (Draft EA) will discuss Best Management Practices (BMP) that is planned to be implemented during construction of this project to minimize infiltration and runoff to groundwater and surface water resources. The information on best management practices provided with your letter will be used in developing such practices.

The Draft EA will provide information on the status of water source from the Kualapuu Aquifer serving this existing water system as well as anticipated changes in consumption based upon this relocation project. Information will also be provided on water allocation from the State Commission of Water Resource Management and the sustainable yield of the aquifer.

The water system improvements will be designed to meet the County Department of Water Supply standards.

If you have any questions on this matter, please contact me at 531-1308. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Leo R. Asuncion, Jr.'.

Leo R. Asuncion, Jr, AICP  
Project Planner

JAMES "KIMO" APANA  
Mayor

JOHN E. MIN  
Director

CLAYTON I. YOSHIDA  
Deputy Director



COUNTY OF MAUI  
**DEPARTMENT OF PLANNING**

December 3, 2001

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SSFM INTERNATIONAL, INC.  
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Mr. Ronald A. Sato, AICP  
SSFM International, Inc.  
501 Summer Street, Suite 502  
Honolulu, Hawaii 96817

Dear Mr. Sato:

RE: Pre-Assessment Consultation for DHHL Molokai Phase IV Water System Project

Thank you for the opportunity to provide you with pre-assessment comments on this project. We note that Molokai is a water management area, and is under the jurisdiction of the Commission on Water Resource Management.

1. Consistency with Policy Documents. The document should address consistency with two documents: The Molokai Community Plan (current and proposed); and the Final Report of the Molokai Water Working Group, revised 1996.
2. Within the last few years, the projected sustainable yield from the Kualapuu Aquifer has been recalculated downward. The project should be examined in the light of the new projected yields, and with the allocations made by the Commission on Water Resource Management.

If you have any questions, please contact Mr. William Spence, Staff Planner, of this office at 270-7735.

Very truly yours,

JOHN E. MIN  
Planning Director

250 SOUTH HIGH STREET, WAILUKU, MAUI, HAWAII 96793  
PLANNING DIVISION (808) 270-7735; ZONING DIVISION (808) 270-7253; FACSIMILE (808) 270-7634

*Quality Seamless Service - Now and for the Future*

Mr. Ronald A. Sato, AICP  
December 3, 2001  
Page 2

JEM:WRS:cmb

c: Clayton Yoshida, AICP, Planning Program Administrator  
William Spence, Staff Planner  
General File  
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**SSFM INTERNATIONAL, INC.**  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817  
Phone: (808) 531-1308  
Fax: (808) 521-7348

Project Managers, Planners, & Engineers  
American Council of Engineering Companies, Member

February 12, 2002

SSFM 9850700

Mr. John E. Min, Director  
Department of Planning  
County of Maui  
250 South High Street  
Wailuku, Hawaii 96793

Dear Mr. Min:

Subject: Pre-Assessment Consultation For Draft Environmental Assessment  
DHHL Molokai Water System Phase IV Project

Thank you for your letter dated December 3, 2001 providing comments on the Pre-Assessment Consultation for Draft Environmental Assessment for the subject project.

We note your comment that the Island of Molokai is a water management area under the jurisdiction of the Commission on Water Resource Management.

The Draft EA will address the project's consistency with the existing and proposed Molokai Community Plan along with the report of the Molokai Water Working Group.

The projected sustainable yield of the Kualapuu Aquifer will be addressed in the Draft EA along with the project's relation to allocations made by the Commission on Water Resource Management.

If you have any questions on this matter, please contact me at 531-1308. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Leo R. Asuncion, Jr.', written in a cursive style.

Leo R. Asuncion, Jr, AICP  
Project Planner

## APPENDIX B-2

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### *Draft EA Comment Letters And Responses*



DEPARTMENT OF THE ARMY  
U. S. ARMY ENGINEER DISTRICT, HONOLULU  
FT. SHAFTER, HAWAII 96858-5440

REPLY TO  
ATTENTION OF

February 26, 2002

Regulatory Branch

Mr. Leo R. Asuncion, Jr., AICP  
SSFM International, Inc.  
501 Summer Street, Suite 502  
Honolulu, Hawaii 96817

Dear Mr. Asuncion:

This letter responds to your request for comments concerning the proposed Molokai Phase IV Water System Project, dated February 23, 2002. Based on the information concerning streams and aquatic resources contained in the Draft Environmental Assessment dated February 2002, I have determined that a Department of the Army (DA) permit will not be required for this project.

If you have any questions concerning this determination, please contact William Lennan of my staff at 438-6986 or FAX 438-4060, and reference File No. 200200003.

Sincerely,

*for*

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

SSFM INTERNATIONAL, INC.  
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FEB 27 2002

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**FILE COPY**

BENJAMIN J. CAYETANO  
GOVERNOR  
STATE OF HAWAII



RAYNARD C. SOON  
CHAIRMAN  
HAWAIIAN HOMES COMMISSION

JOBIE M. K. M. YAMAGUCHI  
DEPUTY TO THE CHAIRMAN

STATE OF HAWAII  
DEPARTMENT OF HAWAIIAN HOME LANDS  
P.O. BOX 1879  
HONOLULU, HAWAII 96805

April 10, 2002

Mr. George P. Young, P.E.  
Chief, Regulatory Branch  
Department of the Army  
U.S. Army Engineer District, Honolulu  
Ft. Shafter, Hawaii 96858-5440

Dear Mr. Young:

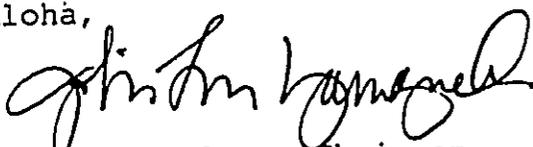
Subject: Department of Hawaiian Home Lands  
Molokai Water System, Phase IV Project  
Draft Environmental Assessment Comments

Thank you for your letter dated February 26, 2002 on the Draft Environmental Assessment for the Department of Hawaiian Home Lands, Molokai Water System, Phase IV Project.

We note your comment that the subject project will not require a Department of the Army (DA) permit.

Should you have any questions, please contact Mr. Patrick Young at 586-3918.

Aloha,

  
Raynard C. Soon, Chairman  
Hawaiian Homes Commission

c. SSFM International, Inc.



Our People...Our Islands...In Harmony

4101 Maunaloa Highway, P.O. Box 396, Ho'olehua, HI 96729-0396  
Phone: 808-567-6868 Ext. 2  
Fax: 808-567-9062

**FILE COPY**

SSFM INTERNATIONAL, INC  
RECEIVED  
MAR 21 2002  
LBY

March 25, 2002

Mr. Leo R. Asuncion, Jr., AICP  
SSFM International, Inc.  
501 Sumner Street, Suite 502  
Honolulu, HI 96817

RE: Department of Hawaiian Home Lands Molokai Water System, Phase IV

I have reviewed the above draft environmental assessment for the DHHL Molokai Water System. The effects from construction activity and the use of best management practices to minimize soil erosion due to wind and water have been adequately addressed within the draft EA. Therefore, I have no further comments at this time.

Sincerely,

*Sheila Cox*  
Sheila Cox  
Resource Conservationist

Copy: State of Hawaii, DHHL  
1099 Alakea Street 20<sup>th</sup> Floor  
Honolulu, HI 96813  
Attn: Mr. Patrick Young

BENJAMIN J. CAYETANO  
GOVERNOR  
STATE OF HAWAII



RAYNARD C. SOON  
CHAIRMAN  
HAWAIIAN HOMES COMMISSION

JOBIE M. K. M. YAMAGUCHI  
DEPUTY TO THE CHAIRMAN

STATE OF HAWAII  
DEPARTMENT OF HAWAIIAN HOME LANDS  
P.O. BOX 1879  
HONOLULU, HAWAII 96805

April 10, 2002

Ms. Sheila Cox, Resource Conservationist  
Natural Resources Conservation Service  
U.S. Department of Agriculture  
P.O. Box 396  
Hooilelua, Hawaii 96729-0396

Dear Ms. Cox:

Subject: Department of Hawaiian Home Lands  
Molokai Water System, Phase IV Project  
Draft Environmental Assessment Comments

Thank you for your letter dated March 25, 2002 on the Draft Environmental Assessment for the Department of Hawaiian Home Lands, Molokai Water System, Phase IV Project.

We note that your department has reviewed the Draft Environmental Assessment, and have no comments at this time.

Should you have any questions, please contact Mr. Patrick Young at 586-3918.

Aloha,

A handwritten signature in cursive script, appearing to read "Raynard C. Soon".

Raynard C. Soon, Chairman  
Hawaiian Homes Commission

c. SSFM International, Inc.



GLENN M. OKIMOTO  
COMPTROLLER  
MARY ALICE EVANS  
DEPUTY COMPTROLLER

BENJAMIN J. CAYETANO  
GOVERNOR

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

LETTER NO. PWD02.P150

MAR 14 2002

**FILE COPY**

SSFM INTERNATIONAL, II  
RECEIVED.

MAR 13 2002

LVA

FILE

Mr. Leo R. Asuncion, Jr., AICP  
Project Planner  
SSFM International, Inc.  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 98817

Dear Mr. Asuncion:

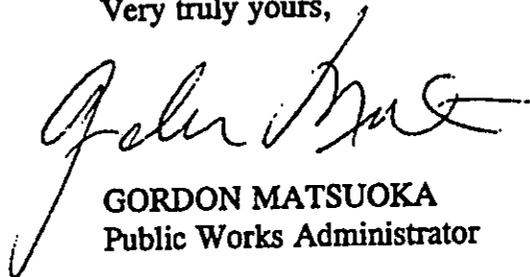
Subject: DHHL Molokai Phase IV Water System Project  
Draft Environmental Assessment (EA)

Thank you for the opportunity to review the Draft EA for the subject project.

The project does not impact any of the Department of Accounting and General Services projects or existing facilities. Therefore, we have no comments to offer.

Should you have any questions, please have your staff call Mr. Allen Yamanoha of the Planning Branch at 586-0488.

Very truly yours,

  
GORDON MATSUOKA  
Public Works Administrator

AY:mo  
c: DHHL

BENJAMIN J. CAYETANO  
GOVERNOR  
STATE OF HAWAII



RAYNARD C. SOON  
CHAIRMAN  
HAWAIIAN HOMES COMMISSION

JOBIE M. K. M. YAMAGUCHI  
DEPUTY TO THE CHAIRMAN

STATE OF HAWAII  
DEPARTMENT OF HAWAIIAN HOME LANDS  
P.O. BOX 1879  
HONOLULU, HAWAII 96805

April 10, 2002

Mr. Gordon Matsuoka  
Public Works Administrator  
Department of Accounting  
and General Services  
State of Hawaii  
P.O. Box 119  
Honolulu, Hawaii 96810

Dear Mr. Matsuoka:

Subject: Department of Hawaiian Home Lands  
Molokai Water System, Phase IV Project  
Draft Environmental Assessment Comments

Thank you for your letter dated March 14, 2002 on the Draft Environmental Assessment for the Department of Hawaiian Home Lands, Molokai Water System, Phase IV Project.

We note that your department has no comments to offer as the subject project will not impact any of the Department of Accounting and General Services projects or existing facilities.

Should you have any questions, please contact Mr. Patrick Young at 586-3918.

Aloha,

A handwritten signature in black ink, appearing to read "Raynard C. Soon".

Raynard C. Soon, Chairman  
Hawaiian Homes Commission

c. SSFM International, Inc.

BENJAMIN J. CAYETANO  
GOVERNOR



PATRICIA HAMAMOTO  
SUPERINTENDENT

FILE COPY

STATE OF HAWAII  
DEPARTMENT OF EDUCATION  
P.O. BOX 2380  
HONOLULU, HAWAII 96804

OFFICE OF THE SUPERINTENDENT

March 12, 2002

SSFM INTERNATIONAL, INC.  
RECEIVED  
ZALP 120

Mr. Leo R. Asuncion, Jr., AICP  
SSFM International, Inc.  
501 Sumner Street, Suite 502  
Honolulu, Hawai'i 96817

Dear Mr. Asuncion:

Subject: DHHL Molokai Water System, Phase IV Project  
Draft Environmental Assessment (DEA)

The Department of Education has no comment on the subject DEA.

Thank you for the opportunity to respond.

Very truly yours,

Patricia Hamamoto  
Superintendent

PH:hy

cc: A. Suga, OBS  
P. Young, DHHL

AN AFFIRMATIVE ACTION AND EQUAL OPPORTUNITY EMPLOYER

BENJAMIN J. CAYETANO  
GOVERNOR  
STATE OF HAWAII



RAYNARD C. SOON  
CHAIRMAN  
HAWAIIAN HOMES COMMISSION

JOBIE M. K. M. YAMAGUCHI  
DEPUTY TO THE CHAIRMAN

STATE OF HAWAII  
DEPARTMENT OF HAWAIIAN HOME LANDS  
P.O. BOX 1879  
HONOLULU, HAWAII 96805

April 10, 2002

The Honorable Patricia Hamamoto, Superintendent  
Department of Education  
State of Hawaii  
P.O. Box 2360  
Honolulu, Hawaii 96804

Dear Ms. Hamamoto:

Subject: Department of Hawaiian Home Lands  
Molokai Water System, Phase IV Project  
Draft Environmental Assessment Comments

Thank you for your letter dated March 12, 2002 on the Draft Environmental Assessment for the Department of Hawaiian Home Lands, Molokai Water System, Phase IV Project.

We acknowledge that the Department of Education has no comment on the Draft Environmental Assessment for the subject project.

Should you have any questions, please contact Mr. Patrick Young at 586-3918.

Aloha,

A handwritten signature in cursive script, appearing to read "Raynard C. Soon".

Raynard C. Soon, Chairman  
Hawaiian Homes Commission

c. SSFM International, Inc.

BENJAMIN J. CAYETANO  
GOVERNOR OF HAWAII



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

FILE COPY

SSFM INTERNATIONAL, INC. RECEIVED  
BRUCE B. ANDERSON, Ph.D., M.P.H.  
DIRECTOR OF HEALTH

APR 05 2002

LRA

In reply, please refer to:  
File:

02-048/epo

FILE

April 3, 2002

Mr. Leo R. Asuncion, Jr., AICP  
SSFM International, Inc.  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817

Dear Mr. Asuncion:

Subject: Draft Environmental Assessment (DEA)  
Molokai Water System, Phase IV Project, Hoolehua, Molokai  
Department of Hawaiian Home Lands  
Tax Map Keys: 5-02-007; 5-02-15; 5-02-22 through 27

Thank you for the opportunity to review and comment on the subject proposal. The DEA was routed to the various branches of the Environmental Health Administration. We have the following comments.

Clean Water Branch (CWB)

1. The Army Corps of Engineers should be contacted to identify whether a Federal permit (including a Department of Army permit) is required for any of the future projects. If it is determined that a Federal permit is required for the subject project, then a Section 401 Water Quality Certification would also be required from our office;
2. If construction project involves any of the following discharges into Class A or Class 2 State waters, a National Pollutant Discharge Elimination System (NPDES) general permit coverage is required for each discharge:
  - a. Storm water runoff associated with construction activities, including clearing, grading, and excavation that result in the disturbance of equal to or greater than five (5) acres 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. (Note: After March 10, 2003, an NPDES permit will be required for discharges of storm water associated with construction activities, including clearing, grading, and excavation that result in the disturbance of one (1) acre or more.);

days before the discharge is to occur. For all NPDES individual permit applications can be

---

Mr. Leo R. Asuncion, Jr., AICP  
April 3, 2002  
Page 2

- b. Hydro-testing water, and
  - c. Construction de-watering effluent.
3. If the discharges mentioned in Item 2 above enter Class 1 State waters, then an NPDES individual permit would be required. One individual permit could cover all types of discharges.

The CWB requires that Notices of Intent (NOI) for NPDES general permits be submitted 30 days before the discharge is to occur. NPDES individual permit applications should be submitted 180 days before the discharge is to occur. NOI and NPDES individual permit applications can be picked up at our office or downloaded from our website at <http://www.state.hi.us/doh/eh/cwb/forms/index.html>. Please note that the current NPDES general permits will expire at midnight, September 21, 2002. If the project continues after this date, you will need to reapply for all applicable NPDES general permit coverage's prior to the expiration date.

If you have any questions, please contact the Clean Water Branch at (808) 586-4309.

Clean Air Branch (CAB)

**Control of Fugitive Dust**

There is a significant potential for fugitive dust emissions during the various phases of construction activities. It is recommended that a dust control management plan be developed which identifies and addresses activities having a potential to generate fugitive dust. Implementation of adequate dust control measures during all phases of construction is warranted.

Construction activities must comply with provisions of Hawaii Administrative Rules, Chapter 11-60.1, "Air Pollution Control," Section 11-60.1-33, Fugitive Dust.

The contractor should provide adequate measures to control dust from the road areas and during the various phases of construction. These measures include, but are not limited to:

- a. Planning the different phases of construction, focusing on minimizing the amount of dust generating materials and activities, centralizing on-site vehicular traffic routes, and locating potentially dusty equipment in areas of the least impact;
- b. Providing an adequate water source at the site prior to start up of construction activities;
- c. Landscaping and rapid covering of bare areas, including slopes, starting from the initial grading phase;
- d. Controlling of dust from shoulders and access roads;

e. Controlling of dust from debris being hauled away from project site

---

Mr. Leo R. Asuncion, Jr., AICP  
April 3, 2002  
Page 3

- e. Providing adequate dust control measures during weekends, after hours, and prior to daily start-up of construction activities; and
- f. Controlling of dust from debris being hauled away from project site.

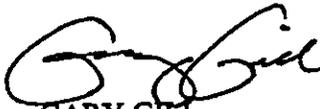
If you have any questions regarding these issues on fugitive dust, please contact the Clean Air Branch at 586-4200.

Noise, Radiation and Indoor Air Quality (NRIAQ) Branch

All project activities shall comply with the Administrative Rules of the Department of Health, Chapter 11-46, on "Community Noise Control"; chapter 11-501, on "Asbestos Requirements"; and chapter 11-504, "Asbestos Abatement Certification Program".

If you have any questions, please contact the NRIAQ at (808) 586-4701.

Sincerely,



GARY GILL  
Deputy Director  
Environmental Health Administration

c: CWB  
CAB  
NRIAQ

BENJAMIN J. CAYETANO  
GOVERNOR  
STATE OF HAWAII



RAYNARD C. SOON  
CHAIRMAN  
HAWAIIAN HOMES COMMISSION

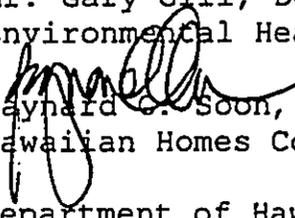
JOHIE M. K. M. YAMAGUCHI  
DEPUTY TO THE CHAIRMAN

STATE OF HAWAII  
DEPARTMENT OF HAWAIIAN HOME LANDS  
P.O. BOX 1879  
HONOLULU, HAWAII 96805

April 11, 2002

TO: The Honorable Bruce S. Anderson, Director  
Department of Health

ATTN.: Mr. Gary Gill, Deputy Director  
Environmental Health Administration

FROM:  Raynard C. Soon, Chairman  
Hawaiian Homes Commission

SUBJECT: Department of Hawaiian Home Lands  
Molokai Water System, Phase IV Project  
Draft Environmental Assessment Comments

Thank you for your letter dated April 3, 2002 (File 02-048/epo), on the Draft Environmental Assessment for the Department of Hawaiian Home Lands, Molokai Water System, Phase IV Project.

The Army Corps of Engineers has been consulted on the subject project and has determined that Federal permits are not required. Additionally, the project will not involve discharge in Class A, Class 1 or 2 State waters.

As the project is implemented, the contractor will remain in compliance with applicable Department of Health regulations.

Should you have any questions, please contact Mr. Patrick Young of our Design and Construction Branch, Land Development Division at 586-3918.

c. Leo R. Asuncion, SSFM International, Inc.



FILE COPY

STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION  
P.O. BOX 521  
HONOLULU, HAWAII 96809  
March 20, 2002

AQUATIC RESOURCES  
BOATING AND OCEAN RECREATION  
CONSERVATION AND  
RESOURCES ENFORCEMENT  
CONVEYANCES  
FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION  
LAND DIVISION  
STATE PARKS  
WATER RESOURCE MANAGEMENT

LD-NAV  
L-1048/1326/1214/1249

DHHLMOLOWATERIV.RCM

SSFM International, Inc.  
Leo R. Asuncion, Jr., AICP  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817

SSFM INTERNATIONAL,  
RECEIVED  
MAR 22 2002  
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Dear Mr. Asuncion:

SUBJECT: Draft Environmental Assessment for Department of  
Hawaiian Home Lands Molokai Water System IV Project  
Located at Palāau-Hoolehua Homestead, Hoolehua, Hawaii  
TMK: 2<sup>nd</sup>/ 5-02: 07, 15 and 5-02: 22 - 27

Thank you for the opportunity to review and comment on the  
subject matter.

A copy of the Draft Environmental Assessment covering the  
subject matter was transmitted to the following Department of  
Land and Natural Resources' Division for their review and  
comment:

- Division of Forestry and Wildlife
- Commission on Water Resource Management
- Land Division Engineering Branch
- Land Division Planning and Technical Services
- Land Division Maui District Land Office

The Department of Land and Natural Resources has no comment  
to offer on the subject matter.

Should you have any questions, please feel free to contact  
Nicholas A. Vaccaro of the Land Division Support Services Branch  
at (808) 587-0438.

Very truly yours,

HARRY M. YADA  
Acting Administrator

C: Maui District Land Office  
DHHL 1099 Alakea Street

BENJAMIN J. CAYETANO  
GOVERNOR  
STATE OF HAWAII



RAYNARD C. SOON  
CHAIRMAN  
HAWAIIAN HOMES COMMISSION

JOBIE M. K. M. YAMAGUCHI  
DEPUTY TO THE CHAIRMAN

STATE OF HAWAII  
DEPARTMENT OF HAWAIIAN HOME LANDS  
P.O. BOX 1879  
HONOLULU, HAWAII 96805

April 10, 2002

Mr. Harry M. Yada, Acting Administrator  
Land Division  
Department of Land and Natural Resources  
State of Hawaii  
P.O. Box 621  
Honolulu, Hawaii 96809

Dear Mr. Yada:

Subject: Department of Hawaiian Home Lands  
Molokai Water System, Phase IV Project  
Draft Environmental Assessment Comments

Thank you for your letter dated March 20, 2002 (DHHLMOLOWATERIV.  
RCM) on the Draft Environmental Assessment for the Department of  
Hawaiian Home Lands, Molokai Water System, Phase IV Project.

We note that your department has no comments to offer on the  
subject project.

Should you have any questions, please contact Mr. Patrick Young  
at 586-3918.

Aloha,

A handwritten signature in black ink, appearing to read "Raynard C. Soon".

Raynard C. Soon, Chairman  
Hawaiian Homes Commission

c. SSFM International, Inc.

BENJAMIN J. CAYETANO  
GOVERNOR OF HAWAII



GILBERT S. COLOMA-AGARAN, CHAIRPERSON  
BOARD OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCES MANAGEMENT

DEPUTIES  
ERIC T. HIRANO  
LINNEL NISHIOKA

SSFM INTERNATIONAL INC.  
RECEIVED *lee*

MAR 5 2002

ZLBA

STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

HISTORIC PRESERVATION DIVISION  
KAKUHIWEWA BUILDING, ROOM 565  
801 KAMOKILA BOULEVARD  
KAPOLEI, HAWAII 96707

AQUATIC RESOURCES  
BOATING AND OCEAN RECREATION  
COMMISSION ON WATER RESOURCE  
MANAGEMENT  
CONSERVATION AND RESOURCES  
ENFORCEMENT  
CONVEYANCES  
FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION  
LAND  
STATE PARKS

HAWAII HISTORIC PRESERVATION  
DIVISION REVIEW

Log #: 29340  
Doc #: 0203SC08

FILE \_\_\_\_\_

Applicant/Agency: Mr. Leo Asuncion, Jr.  
SSFM International, Inc.  
Address: 501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817  
SUBJECT: Chapter 6E-8 Historic Preservation Review of a Draft Environmental  
Assessment for the Proposed DHHL Molokai Water System Phase IV

Ahupua'a: Ho'olehua  
District, Island: Moloka'i  
TMK: (2)-5-2-007, 5-2-015, 5-2-022 through 027

1. We believe there are no historic properties present, because:

- a) intensive cultivation has altered the land
- b) residential development/urbanization has altered the land
- c) previous grubbing/grading has altered the land
- d) an acceptable archaeological assessment or inventory survey found no historic properties
- e) other: We previously commented that significant historic sites are unlikely to be present in this developed roadway.

2. This project has already gone through the historic preservation review process, and mitigation has been completed \_\_\_\_.

Thus, we believe that "no historic properties will be affected" by this undertaking

Staff: Jane J. Collins

Date: 6 March 2002

Title: Archaeologist - Moloka'i (Phone: 808-692-8026)

C: John Min, Director, Dept of Planning, County of Maui, 250 S. High Street, Wailuku, HI 96793  
Cultural Resources Commission, Planning Dept, County of Maui, 250 S. High Street, Wailuku,  
HI 96793  
Malia Akutagawa, Chair, Molokai Planning Commission, PO Box 1715, Kaunakakai, HI 96748

FILE COPY

BENJAMIN J. CAYETANO  
GOVERNOR  
STATE OF HAWAII



RAYNARD C. SOON  
CHAIRMAN  
HAWAIIAN HOMES COMMISSION

JOBIE M. K. M. YAMAGUCHI  
DEPUTY TO THE CHAIRMAN

STATE OF HAWAII  
DEPARTMENT OF HAWAIIAN HOME LANDS  
P.O. BOX 1879  
HONOLULU, HAWAII 96805

April 10, 2002

Ms. Sara Collins, Archaeologist  
State Historic Preservation Division  
Department of Land and Natural Resources  
601 Kamokila Boulevard  
Kapolei, Hawaii 96707

Dear Ms. Collins:

Subject: Department of Hawaiian Home Lands  
Molokai Water System, Phase IV Project  
Draft Environmental Assessment Comments

Thank you for your letter dated March 6, 2002 on the Draft Environmental Assessment for the Department of Hawaiian Home Lands, Molokai Water System, Phase IV Project.

We note your comments that your department believes no historic properties are present on the project site, and therefore no historic properties will be affected by the subject project.

Should you have any questions, please contact Mr. Patrick Young at 586-3918.

Aloha,

A handwritten signature in black ink, appearing to read "Raynard C. Soon".

Raynard C. Soon, Chairman  
Hawaiian Homes Commission

c. SSFM International, Inc.



BENJAMIN J. CAYETANO  
GOVERNOR  
STATE OF HAWAII



STATE OF HAWAII  
DEPARTMENT OF HAWAIIAN HOME LANDS  
P.O. BOX 1879  
HONOLULU, HAWAII 96805

RAYNARD C. SOON  
CHAIRMAN  
HAWAIIAN HOMES COMMISSION

JOBIE M. K. M. YAMAGUCHI  
DEPUTY TO THE CHAIRMAN

April 10, 2002

The Honorable Brian K. Minaai, Director  
Department of Transportation  
State of Hawaii  
869 Punchbowl Street  
Honolulu, Hawaii 96813-5097

Dear Mr. Minaai:

SUBJECT: Department of Hawaiian Home Lands  
Molokai Water System, Phase IV Project  
Draft Environmental Assessment Comments

Thank you for your letter dated March 18, 2002 on the Draft Environmental Assessment for the Department of Hawaiian Home Lands, Molokai Water System, Phase IV Project. We note that your department's comments provided for the Pre-Assessment Consultation phase of the subject Draft Environmental Assessment are still applicable.

The new fire hydrants would be placed at appropriate locations away from the paved roadway to the extent possible, but within the existing rights-of-way.

Construction plans will be submitted to your Maui District Office for review and approval prior to commencement of the project.

Should you have any questions, please contact Mr. Patrick Young at 586-3918.

Aloha,

A handwritten signature in cursive script, appearing to read "Raynard C. Soon".

Raynard C. Soon, Chairman  
Hawaiian Homes Commission

c. SSFM Engineers, Inc.

BENJAMIN J. CAYETANO  
GOVERNOR



**FILE COPY**

BRIAN K. MINAII  
DIRECTOR  
DEPUTY DIRECTORS  
JADINE Y. URASAKI  
Jean L. Oshita

**STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION**

MAUI DISTRICT  
650 PALAPALA DRIVE  
KAHULUI, HAWAII 96732

March 18, 2002

SSFM INTERNATIONAL, INC.  
RECEIVED

MAR 27 2002

*CRB*  
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IN REPLY REFER TO:  
HWY-M2.074-02

Mr. Leo Asuncion, Jr., AICP  
SSFM International, Inc.  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817

Dear Mr. Asuncion:

Subject: Molokai Water System – Phase IV  
ME 00-03

Thank you for giving us the opportunity to review and comment on the Draft Environmental Assessment for the subject project. Based on our review of the assessment, it appears that the proposed development should not have significant impacts to our facilities, therefore, we have no objection to this project.

If there are any questions or concerns, please call me at 873-3535.

Very truly yours,  
*Ferdinand Cajigal*  
FERDINAND CAJIGAL  
District Engineer, Maui

/pmc

BENJAMIN J. CAYETANO  
GOVERNOR  
STATE OF HAWAII



RAYNARD C. SOON  
CHAIRMAN  
HAWAIIAN HOMES COMMISSION

JOBIE M. K. M. YAMAGUCHI  
DEPUTY TO THE CHAIRMAN

STATE OF HAWAII  
DEPARTMENT OF HAWAIIAN HOME LANDS  
P.O. BOX 1879  
HONOLULU, HAWAII 96805

April 10, 2002

Mr. Ferdinand Cajigal  
District Engineer, Maui  
Department of Transportation  
State of Hawaii  
650 Palapala Drive  
Kahului, Hawaii 96732

Dear Mr. Cajigal:

Subject: Department of Hawaiian Home Lands  
Molokai Water System, Phase IV Project  
Draft Environmental Assessment Comments

Thank you for your letter dated March 18, 2002 (HWY-M2.074-02) on the Draft Environmental Assessment for the Department of Hawaiian Home Lands, Molokai Water System, Phase IV Project.

We note that based on your office's review of the Draft Environmental Assessment, the proposed project will not have significant impacts to DOT facilities. We also note that your office has no objection to this project.

Should you have any questions, please contact Mr. Patrick Young at 586-3918.

Aloha,

A handwritten signature in cursive script, appearing to read "Raynard C. Soon".

Raynard C. Soon, Chairman  
Hawaiian Homes Commission

c. SSFM International, Inc.



BENJAMIN J. CAYETANO  
GOVERNOR  
STATE OF HAWAII



RAYNARD C. SOON  
CHAIRMAN  
HAWAIIAN HOMES COMMISSION

JOBIE M. K. M. YAMAGUCHI  
DEPUTY TO THE CHAIRMAN

STATE OF HAWAII  
DEPARTMENT OF HAWAIIAN HOME LANDS  
P.O. BOX 1879  
HONOLULU, HAWAII 96805

April 10, 2002

Ms. Genevieve Salmonson, Director  
Office of Environmental Quality Control  
State of Hawaii  
235 South Beretania Street, Suite 702  
Honolulu, Hawaii 96813

Dear Ms. Salmonson:

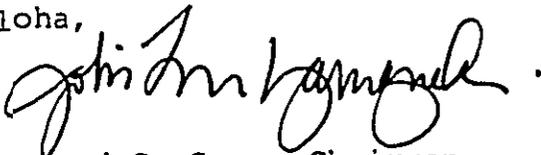
Subject: Department of Hawaiian Home Lands  
Molokai Water System, Phase IV Project  
Draft Environmental Assessment Comments

Thank you for your letter dated March 25, 2002 on the Draft Environmental Assessment for the Department of Hawaiian Home Lands, Molokai Water System, Phase IV Project.

The Department of Hawaiian Home Lands will consult with citizen groups and individuals who are directly affected by this project as it is implemented.

Should you have any questions, please contact Mr. Patrick Young at 586-3918.

Aloha,

  
Raynard C. Soon, Chairman  
Hawaiian Homes Commission

c. SSFM International, Inc.

# FILE COPY

PHONE (808) 594-1888



STATE OF HAWAII  
OFFICE OF HAWAIIAN AFFAIRS  
711 KAPI'OLANI BOULEVARD, SUITE 500  
HONOLULU, HAWAII 96813

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FAX (808) 594-1885

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FILE

March 5, 2002

Leo Asuncion, Jr., AICP  
SSFM International, Inc.  
501 Sumner Street, Suite 502  
Honolulu, HI 96817

Subject: DHHL Molokai Phase IV Water System Project  
Draft Environmental Assessment

Dear Mr. Asuncion:

Thank you for the opportunity to comment on the draft environmental assessment (EA) for the above-referenced project. OHA has no comments on the draft EA at this time. If you have any questions, please contact Sharla Manley, Policy Analyst at 594-1944.

Sincerely,

A handwritten signature in black ink that reads "Colin C. Kippen Jr.".

Colin C. Kippen, Jr.  
Deputy Administrator

CK: sam

cc: OHA Board of Trustees  
Clyde W. Namu'o, Administrator  
Molokai CAC  
Patrick Young, Department of Hawaiian Home Lands

BENJAMIN J. CAVETANO  
GOVERNOR  
STATE OF HAWAII



RAYNARD C. SOON  
CHAIRMAN  
HAWAIIAN HOMES COMMISSION

JOBIE M. K. M. YAMAGUCHI  
DEPUTY TO THE CHAIRMAN

STATE OF HAWAII  
DEPARTMENT OF HAWAIIAN HOME LANDS  
P.O. BOX 1879  
HONOLULU, HAWAII 96805

April 10, 2002

Mr. Colin C. Kippen, Jr.  
Deputy Administrator  
Office of Hawaiian Affairs  
State of Hawaii  
711 Kapiolani Boulevard, Suite 500  
Honolulu, Hawaii 96813

Dear Mr. Kippen:

Subject: Department of Hawaiian Home Lands  
Molokai Water System, Phase IV Project  
Draft Environmental Assessment Comments

Thank you for your letter dated March 5, 2002 on the Draft Environmental Assessment for the Department of Hawaiian Home Lands, Molokai Water System, Phase IV Project.

We note that your department has reviewed the Draft Environmental Assessment, and have no comments at this time.

Should you have any questions, please contact Mr. Patrick Young at 586-3918.

Aloha,

A handwritten signature in black ink, appearing to read "Raynard C. Soon".

Raynard C. Soon, Chairman  
Hawaiian Homes Commission

c. SSFM International, Inc.



**DEPARTMENT OF WATER SUPPLY**  
**COUNTY OF MAUI**  
P.O. BOX 1109  
WAILUKU, MAUI, HAWAII 96793-7109  
Telephone (808) 270-7818 • Fax (808) 270-7833

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March 22, 2002

Leo R. Asuncion, Jr, Project Planner  
SSFM International, Inc.  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817  
Phone: (808) 531-1308

**FILE COPY**

Re: TMK: 5-02-07;5-02-15  
Project Name: DHHL Molokai Phase IV Water System Project  
Draft Environmental Assessment

Dear Mr. Ronald A. Sato,

Thank you for the opportunity to comment on this Draft Environmental Assessment, (DEA). The Department of Water Supply has the following comments:

The project is located on the Hoolehua Aquifer which has a sustainable and developable yield of 2 mgd. We note that the DEA outlines the specific Best Management Practices (BMPs) the project intends to use to minimize infiltration and runoff from all construction and vehicle operations. We recommend that these practices be implemented in order to protect Molokai's groundwater and surface water resources. We have also attached sample BMPs for principle operations for reference. Additional information is available from the State Department of Health.

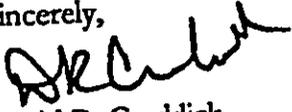
This subdivision is served by two private wells in the Kualapu'u Aquifer System. The DEA delineates current status of the source with an estimated sustainable yield of 5mgd. DHHL also outlines their well withdrawals: permitted use .367mgd, actual use for 2001 .692mgd, future reservations 2.905mgd (CWRM 2002) from Kualapu'u Aquifer System and the anticipated changes based on the project are none.

The State Commission on Water Resource Management (CWRM) has designated the Island of Molokai as Groundwater Management Area. As a result, any withdrawals of water are limited to quantities approved by the commission. Accordingly, the DHHL is working with CWRM to find and establish a relief well. Although the project anticipates no direct changes in consumption due to their waterline replacement we do note that many of the lots are yet undeveloped and that the current 6" waterline will be replaced with an 8" waterline thus increasing distribution capabilities. Our concern is that the over-withdrawl issue be resolved with CWRM before any further expansion of the system. In addition, according to the Molokai Working Group Report, the "sustainable yield of the Kualapu'u Aquifer appears to have been fully allocated in 1996."

We also recognize that DHHL attempts to design and construct the water system improvements using criteria that meet or exceed DWS standards. We recommend that this continue. The applicant is encouraged to contact our Engineering Division at 270-7835 with regards to this issue.

Should you have any questions, please contact our Water Resources and Planning Division at 270-7199.

Sincerely,



David R. Craddick  
Director

mni

C: Engineering Division

BENJAMIN J. CAYETANO  
GOVERNOR  
STATE OF HAWAII



RAYNARD C. SOON  
CHAIRMAN  
HAWAIIAN HOMES COMMISSION

JOBIE M. K. M. YAMAGUCHI  
DEPUTY TO THE CHAIRMAN

STATE OF HAWAII  
DEPARTMENT OF HAWAIIAN HOME LANDS  
P.O. BOX 1879  
HONOLULU, HAWAII 96805

April 10, 2002

The Honorable David R. Craddick, Director  
Department of Water Supply  
County of Maui  
P.O. Box 1109  
Wailuku, Hawaii 96793-7109

Dear Mr. Craddick:

Subject: Department of Hawaiian Home Lands  
Molokai Water System, Phase IV Project  
Draft Environmental Assessment Comments

Thank you for your letter dated March 22, 2002, on the Draft Environmental Assessment for the Department of Hawaiian Home lands, Molokai Water System, Phase IV Project.

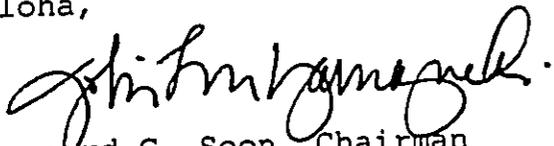
The Department of Hawaiian Home Lands intends to implement best management practices during installation of the replacement waterline to protect Molokai's groundwater and surface water resources. We will also coordinate the design and construction of this water system improvement with your department.

Further, we continue to work with the State Commission on Water Resource Management (CWRM) in terms of finding and establishing relief wells for our subdivision. Coordination amongst our office, the State CWRM, and your department will be pursued as future development of the Hoolehua Homestead area occurs.

The Honorable David R. Craddick, Director  
April 10, 2002  
Page 2

Should you have any further questions, please contact me at 586-3801, or have your staff contact Mr. Patrick Young, Design & Construction Branch at 586-3918.

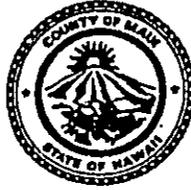
Aloha,



Raynard C. Soon, Chairman  
Hawaiian Homes Commission

c. SSFM International, Inc.

JAMES "KIMO" APANA  
Mayor



FLOYD S. MIYAZONO  
Director

GLENN T. CORREA  
Deputy Director

(808) 270-7230  
Fax (808) 270-7934

**DEPARTMENT OF PARKS & RECREATION**

1580-C Kaahumanu Avenue, Wailuku, Hawaii 96793

February 25, 2002

Mr. Leo R. Asuncion, Jr., AICP  
SSFM International, Inc.  
501 Sumner Street, Suite 502  
Honolulu, Hawaii 96817

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SSFM INTERNATIONAL, INC.  
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MAR 07 2002  
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Dear Mr. Asuncion:

**SUBJECT: DHHL MOLOKAI WATER SYSTEM, PHASE IV**

Thank you for the opportunity to review the Draft Environmental Assessment for the subject project. At this time, we have no comments or objections to the proposed action.

If there are any questions, please contact Mr. Patrick Matsui, Chief of Parks Planning and Development, at (808)270-7387.

Sincerely,

FLOYD S. MIYAZONO

for Director

c: Patrick Matsui, Chief of Planning and Development  
Mr. Patrick Young, DHHL

BENJAMIN J. CAYETANO  
GOVERNOR  
STATE OF HAWAII



RAYNARD C. SOON  
CHAIRMAN  
HAWAIIAN HOMES COMMISSION

JODIE M. K. M. YAMAGUCHI  
DEPUTY TO THE CHAIRMAN

STATE OF HAWAII  
DEPARTMENT OF HAWAIIAN HOME LANDS  
P.O. BOX 1879  
HONOLULU, HAWAII 96805

April 10, 2002

Mr. Floyd S. Miyazono, Director  
Department of Parks & Recreation  
County of Maui  
1580-C Kaahumanu Avenue  
Wailuku, Hawaii 96793

Dear Mr. Miyazono:

Subject: Department of Hawaiian Home Lands  
Molokai Water System, Phase IV Project  
Draft Environmental Assessment Comments

Thank you for your letter dated February 25, 2002 on the Draft Environmental Assessment for the Department of Hawaiian Home Lands, Molokai Water System, Phase IV Project.

We note that your department has no comments or objections to offer at this time.

Should you have any questions, please contact Mr. Patrick Young at 586-3918.

Aloha,

A handwritten signature in black ink, appearing to read "Raynard C. Soon".

Raynard C. Soon, Chairman  
Hawaiian Homes Commission

c. SSFM International, Inc.