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STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES  
DIVISION OF WATER RESOURCE MANAGEMENT

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P. O. BOX 373  
HONOLULU, HAWAII 96809

OFC. OF ENVIRONMENTAL  
QUALITY CONTROL

FEB 7 1991

Dr. Bruce Anderson  
Acting Director  
Office of Environmental  
Quality Control  
465 South King Street  
Kekuanaoa Building, Room 104  
Honolulu, Hawaii 96813

Dear Dr. Anderson:

Job No. 4-OW-4, Upper Palolo Valley  
Water System Improvements, Honolulu, Oahu, Hawaii

Pursuant to Section 11 of the Environmental Impact Statement Rules, transmitted for processing are four (4) copies of the Environmental Assessment and Notice of Determination (Negative Declaration) for the subject project. Also attached is a completed OEQC Bulletin Publication Form.

If there are any questions on this matter, please have your staff contact Mr. Edward Lau of the Planning Branch at extension 8-7496.

Sincerely,

KAZUO G. AKITA  
Manager-Chief Engineer

AM:lc

Enc.

1991-03-08-0A-FEA

ENVIRONMENTAL ASSESSMENT  
AND  
NEGATIVE DECLARATION

Job No. 4-OW-4

\* Upper Palolo Valley

Water System Improvements \*

Honolulu, Oahu, Hawaii

OFFICE OF ENVIRONMENTAL  
QUALITY

'91 FEB -8 AM:10

RECEIVED

State of Hawaii  
Department of Land and Natural Resources  
Division of Water Resource Management  
January, 1991

**NOTICE OF DETERMINATION: Negative Declaration**

**FOR: Job No. 4-OW-4  
Upper Palolo Valley  
Water System Improvements  
Honolulu, Oahu, Hawaii**

**BY: Division of Water Resource Management  
Department of Land and Natural Resources**

The proposed action will have no significant effect on the environment and therefore does not require the preparation of an Environmental Impact Statement. This Notice of Determination and Environmental Assessment are being filed as a Negative Declaration.

## ENVIRONMENTAL ASSESSMENT

For

Job No. 4-OW-4  
Upper Palolo Valley  
Water System Improvements  
Honolulu, Oahu, Hawaii

### I. Applicant/Proposing Agency

Division of Water Resource Management  
Department of Land and Natural Resources

### II. Agencies Consulted

State of Hawaii  
Department of Land and Natural Resources  
Division of Forestry  
Historic Preservation Program

County of Honolulu  
Department of Land Utilization  
Board of Water Supply

### III. Project Description

The State Department of Land and Natural Resources, Division of Water Resource Management is proposing the construction of a 25,000 gallon steel water reservoir with new booster pump and 3 inch water line in upper Palolo Valley on the island of Oahu (see figures 1 and 2). The proposed reservoir is to be located at an elevation of about 960 feet above mean sea level. Approximately 2,630 linear feet of new copper pipe running along an existing dirt road will connect the reservoir to the booster pump, which will be adjacent to the existing Board of Water Supply reservoir at an elevation of about 590 feet.

Presently, the households in the upper reaches of Palolo Valley are not supplied with water by a Board of Water Supply system. Much of the area is taken up in small agricultural lots, and water is obtained through individual private intakes in the nearby streams. The proposed reservoir will aid the residents by providing them with a reliable source of domestic water.

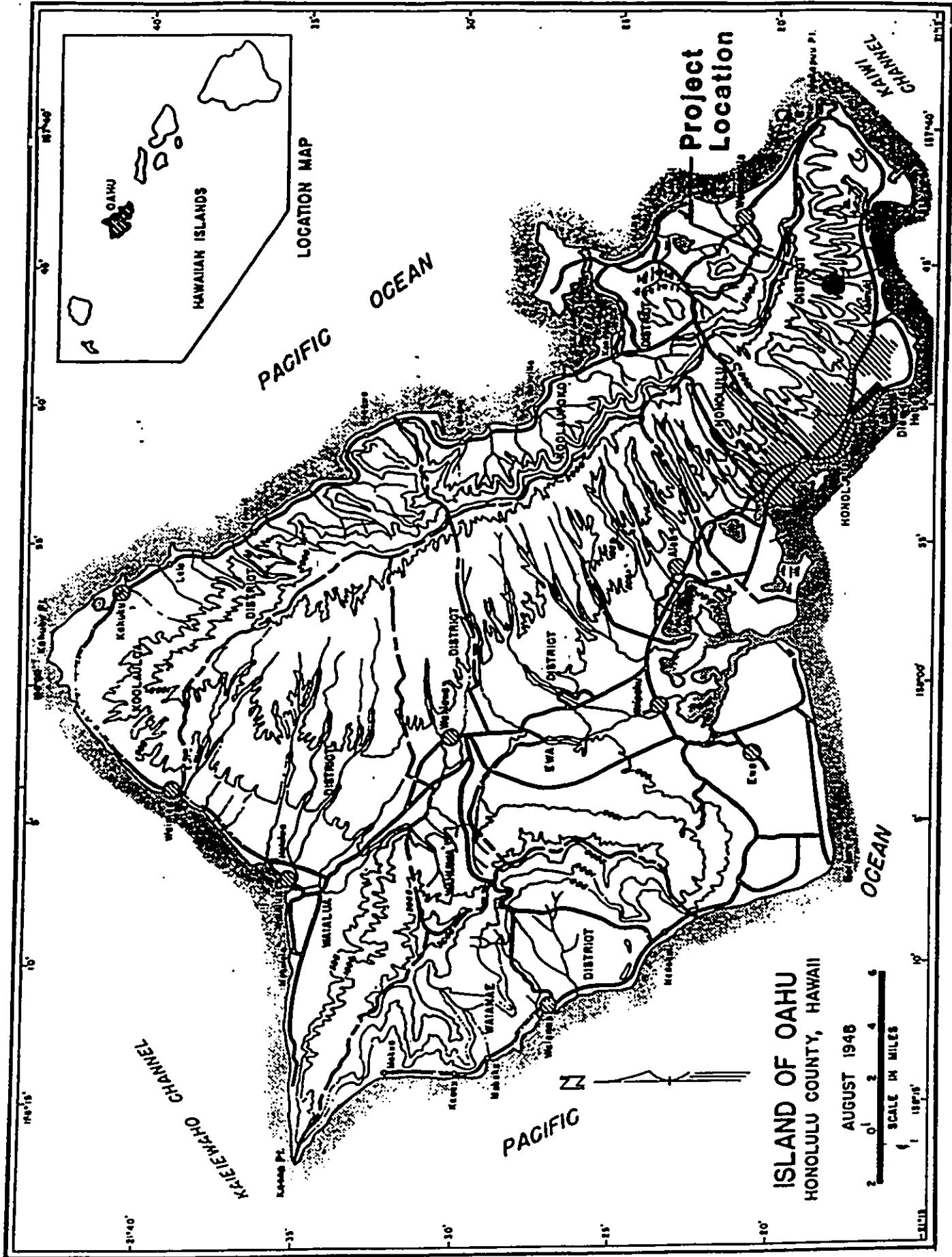
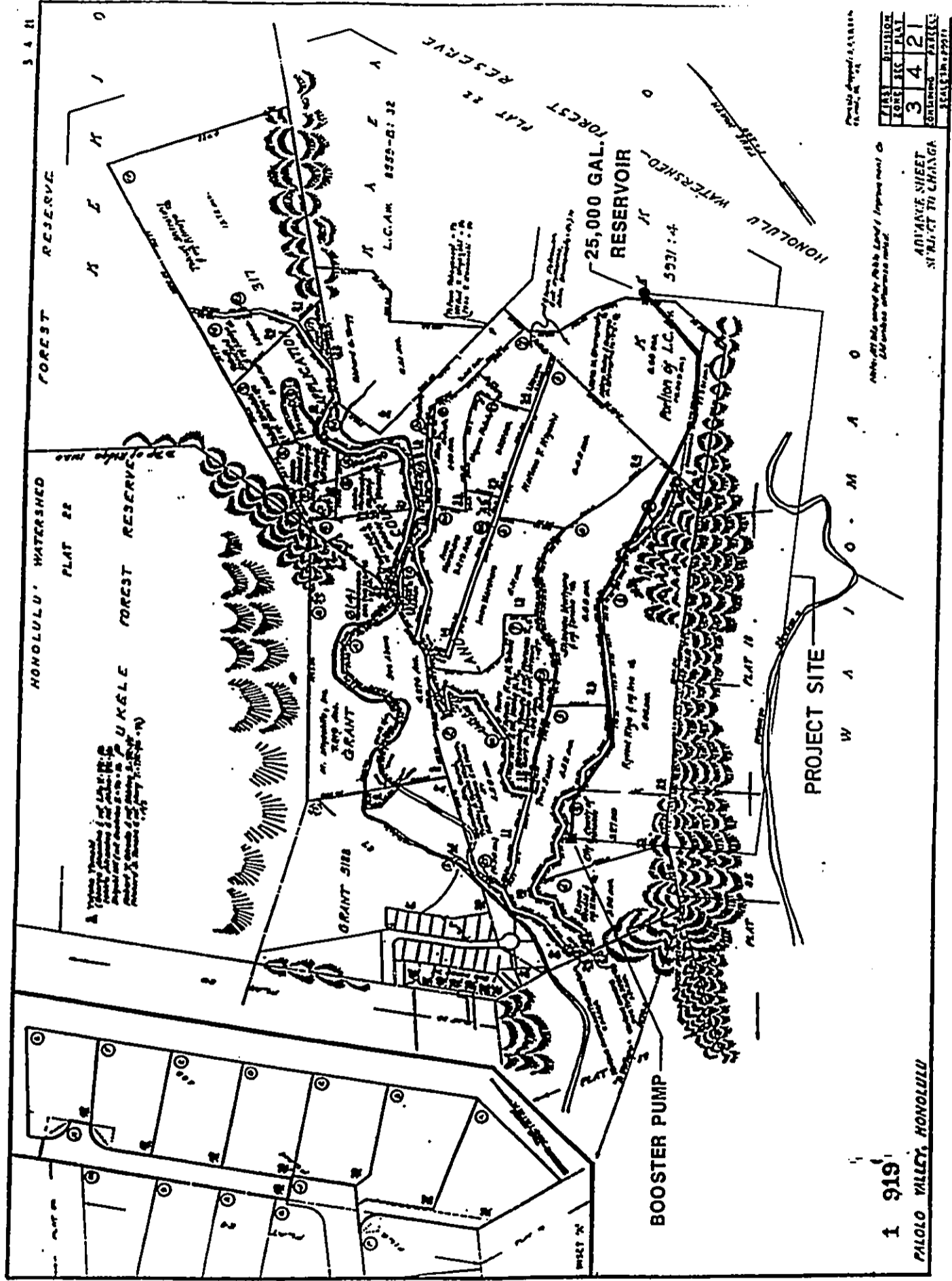


FIGURE 1

DOCUMENT CAPTURED AS RECEIVED



DATE	DESCRIPTION
3 4 21	ADVANCE SHEET
3 4 21	SUBJECT TO CHANGE
3 4 21	SCALE 1/4" = 100'

NOT TO BE USED BY ANY OTHER PARTY WITHOUT THE WRITTEN CONSENT OF THE ENGINEER

FIGURE 2

#### IV. Project Schedule and Cost Estimate

The construction portion of the project should be completed 240 calendar days after receipt of notice to proceed. The construction cost estimate for the project is \$607,500.00.

#### V. Potential Impacts

##### Short Term Impacts

Short term impacts of the proposed project should be minimal. Control measures will be performed to reduce any dust nuisance caused by the construction. The operation of heavy equipment will be scheduled such that the noise impact upon nearby residents is minimal, and will be limited to daylight hours. All short term impacts will be mitigated by normal construction practices.

##### Long Term Impacts

The proposed reservoir and water system should serve to greatly improve the current unreliable and makeshift system set up by the residents. It will also provide chlorinated water, which is presently unavailable from the small individually owned transmission pipelines. Once construction of the reservoir is complete, operation and maintenance costs should be minimal. No adverse long term environmental impacts are anticipated.

#### VI. Alternatives to the Proposed Action

##### Alternative Site

The present site is easily accessible since the proposed 3 inch water line will, for the most part, run alongside an existing dirt road. The reservoir is located at an elevation such that the water will be delivered to the residents by gravity flow. Other possible sites are not as advantageously situated and would prove to be less practical.

##### No Action

No action would mean continued dependence on the present inadequate private water systems. The residents of upper Palolo Valley would be forced to continue relying on the unpredictable and possibly substandard surface water supply for domestic use. Given these circumstances, taking no action would not be a reasonable option.

## VII. Discussion of Significant Criteria

In considering the significance of potential environmental impacts, both short and long term, with respect to the criteria as defined in Chapter 343, Hawaii Revised Statutes Section 1:31, it has been determined that:

1. The proposed action does not involve an irrevocable commitment or loss of or destruction of any natural cultural resource:

There are no natural or cultural resources associated with the project site. Care will be taken to preserve the natural landscape and protect the trees in the area.

2. The proposed action does not curtail the range of beneficial uses of the environment:

The proposed plan is consistent with the County's general plan and would not curtail beneficial uses of the environment in the area. The reservoir will, in fact, benefit the environment by decreasing the amount of water diverted from the Pukele Stream. The proposed project will be compatible with the uses of the surrounding area.

3. The proposed action is in concert with the state's long-term environmental policies, goals and guidelines as expressed in Chapter 343, HRS, and any revisions and amendments thereto, court decisions and executive orders:

The proposed project is consistent with the State Land Use Plan which is in concert with all applicable policies, goals and guidelines. No long-term environmental conflicts are foreseen.

4. The proposed action does not substantially affect the economic or social welfare of the community or state:

The proposed project will provide a dependable domestic water supply to the community. The economic impact will be affected by the short term construction related activities only. Any long term effects of the proposed project should be positive.

5. The proposed action does not involve substantial secondary impacts such as population changes or effects on public facilities:

The proposed project will not result in an increase in population, nor will it affect normal population growth in the area. Public facilities should experience minimal impacts.



6. The proposed action does not substantially affect public health:

Construction activities will be regulated to minimize noise, dust and erosion. Short term impacts will be mitigated by normal construction practices and long term adverse impacts are not anticipated.

7. The proposed action does not involve a substantial degradation of environmental quality:

The existing physical aspects of the surrounding area will be preserved. Once completed, the reservoir will not generate any noise and will have no adverse impact on the air quality. The booster pump, which will be located at a lower elevation than the nearby residences, will be placed in a heavily wooded area. The lower elevation and the abundance of trees should serve to amply mute any noise from the 30-horsepower pump.

8. The proposed action is individually limited and cumulatively, does not have a considerable effect upon the environment or involve a commitment for larger actions:

The proposed project is a development of the State Department of Land and Natural Resources, Division of Water Resource Management. Approval of the project does not involve a commitment for any larger action.

9. The proposed action does not substantially affect rare, threatened or endangered species or habitats:

There are no known rare, threatened or endangered species or habitats associated with the project site.

10. The proposed action does not affect areas of archaeological interest:

No historic or archaeologically significant locations have been identified at the site. If any unanticipated sites or artifacts are discovered during construction, the work will be halted and the State Historic Preservation Office will be contacted.

11. The proposed action does not detrimentally affect air or water quality or ambient noise levels:

Short term impacts on air quality and noise will occur during the construction period but will be mitigated by normal control measures. Development of the site should not unduly increase ambient noise levels. Air and water quality will not be substantially affected during construction. Once the reservoir is operational, there should be no adverse effects on

ambient noise levels or air and water quality in the area. Noise from the booster pump will be minimal, and should not affect nearby residents, who are all located at least 300 feet from the pump site.

**VIII. Determination**

In accordance with Chapter 343, Hawaii Revised Statutes, it is determined that the proposed project would not have any significant adverse effects on the environment. Any potentially negative effects have been identified along with suggested mitigative measures. Consequently, an Environmental Impact Statement is not required and this Environmental Assessment is hereby being filed as a Negative Declaration.