January 26, 1988

Dr. Marvin T. Miura, Interim Director
Office of Environmental Quality Control
State of Hawaii
465 South King Street, Room 115
Honolulu, Hawaii 96812

Dear Dr. Miura:

Subject: Notice of Negative Declaration for the Construction of Maintenance Ramps in the Moanalua Stream Channel

This letter is a Notice of Negative Declaration for the subject project pursuant to Chapter 343, HRS. The project will involve the use of City funds and City lands. This Notice of Determination is based on an Environmental Assessment prepared by the Division of Engineering after consultation with other governmental agencies. Four (4) copies of the Environmental Assessment are attached.

The pertinent data for this notice are as follows:

1. **Proposing Agency** — Department of Public Works,
   City and County of Honolulu

2. **Proposed Action** — The proposed project consists of the construction of fourteen (14) concrete maintenance ramps in the Moanalua Stream Channel at existing velocity drops.

The project is intended to provide access in the channel for maintenance vehicles. Presently, vehicles cannot negotiate the 2:1 slope at the velocity drops, and all maintenance equipment, materials, channel debris and cut vegetation must be hand carried.
3. **Determination** - After assessing the potential environmental effects of the proposed project and consulting with other governmental agencies, we have determined that the proposed project will not have significant impacts on the environment and an Environmental Impact Statement is not required.

4. **Reasons for Supporting Determination** - It was found that there were no effects which conflicted with the policy, guidelines and provisions of Chapters 342, 343, and 344, HRS, and that a Negative Declaration was appropriate for the following reasons:

   (a) There will not be any adverse effect on the physical and social environment.

   (b) There will be no permanent degradation of existing air and noise levels and water quality.

   (c) There will be no displacement of residences or businesses.

   (d) There are no known endangered species of animals or plants within the project area.

   (e) There are no known natural, historic or archaeological sites within the project limits.

   (f) There will be little or no impact on the land use pattern for the area.

   (g) The project is compatible with the Development Plan for Oahu.

5. **Contact Person** - Raymond Nakahara  
   Division of Engineering  
   Department of Public Works  
   City and County of Honolulu  
   650 South King Street  
   Honolulu, Hawaii 96813

   Telephone No. 523-4041

   Very truly yours,

   [Signature]

   ALFRED J. THIEDE  
   Director and Chief Engineer

Attach. (4)

cc: Dept. of Land Utilization
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

ENVIRONMENTAL ASSESSMENT
FOR THE
CONSTRUCTION OF MAINTENANCE RAMPS IN THE
MOANALUA STREAM CHANNEL
MOANALUA, HONOLULU, OAHU, HAWAII
TAX MAP KEY 1-1-12, 40 TO 44

This document is prepared pursuant to Chapter 343, HRS.

PROPOSING AGENCY: DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU
650 SOUTH KING STREET
HONOLULU, HAWAII 96813

RESPONSIBLE OFFICIAL: [Signature]
ALFRED J. THIEDE
Director and Chief Engineer

PREPARED BY
STRUCTURAL SECTION
DIVISION OF ENGINEERING
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Appendix A - Site Map
Appendix B - Location Map
Appendix C - Ramp Details
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I. Description of Proposed Action and Statement of Objective

The proposed project will modify fourteen existing velocity drops at various locations in the Moanalua Stream Channel (see Appendix A - Site Map) to provide maintenance ramps (see Appendix C - Ramp Details) for stream cleaning and channel repair equipment.

All new work will be within the confines of the existing channel. The new work will not increase the area of the existing channel.

The objective of the project is to provide vehicular access in the channel to facilitate maintenance work.

II. Description of Affected Environment

The proposed project is located in Moanalua Valley, Honolulu, Oahu, Hawaii, mauka of Moanalua Highway. The project area is approximately five miles from the State Capitol in Honolulu (see Appendix B - Location Map). The project area is zoned Residential.

Moanalua Stream Channel, an improved concrete trapezoidal drainage structure, 7,500 feet long was constructed in 1965. The 1-1/2:1 side slopes and invert are lined with four-inch thick concrete slabs. Fourteen velocity drops, three to four feet high with 2:1 slopes are located in the channel.

The average annual rainfall in this area is 40 inches per year. The project site is located in an area of undetermined but possible flood hazards according to the Flood Insurance Rate Map Index. The average temperature varies from 72 degrees to 82 degrees.

According to a recent United States Geological Survey annual report on water resources, Moanalua Stream is an intermittent stream with no water flow for most of the year. There is no significant marine life inhabiting the stream, except for a few fishes such as guppies and swordtails.

Wildlife in the project area consists of the usual common birds found in Hawaii, and no rare or endangered species are known to frequent the lands adjacent to the proposed project.

There are no known archaeological or historical sites in the immediate project area. A search of The Hawaii Register of Historic Places, 1974 shows that there are six historical sites in the Moanalua District. However, the nearest listed site, Aliamanu Burials (Identification
No. 80-13-88), is located approximately 5,300 feet southwest of the project site.

III. Agencies Consulted in Making this Assessment

A. City and County of Honolulu

1. Department of General Planning
2. Department of Land Utilization

B. State of Hawaii

1. Department of Land and Natural Resources
2. Department of Health
3. Department of Business and Economic Development

C. U. S. Government

1. Department of Interior, Fish and Wildlife Service
2. Department of the Army, Corps of Engineers

Responses to the environmental assessment are located in Appendix D.

IV. General Description of the Project's Technical, Economic, Social and Environmental Characteristics

The construction of the maintenance ramps is proposed to be accomplished by cutting the existing concrete invert slab at the velocity drops, excavating material to provide a 15% ramp slope and constructing concrete side walls and invert slab.

The new ramps will not create any adverse hydraulic effects at the drops because a flatter invert slope and an increased channel cross section will be provided. Thus, water flow will be slower and less turbulent, and the water surface level will be lower.

The project has an estimated construction cost of $180,000; it is anticipated that construction will begin in July 1988. It will take approximately 90 calendar days to complete the work. Operating funds from the Division of Road Maintenance, City and County of Honolulu, will be utilized for the project.

This project will not require the displacement or relocation of any persons nor will it require the acquisition of any land because the new construction will be confined to within the existing drainage channel.

The project will require a United States Department of Army permit, a State of Hawaii Board of Health Water Quality Certification and a State of Hawaii Department of Business
and Economic Development Hawaii Coastal Zone Management Program Consistency Certification.

V. Identification and Summary of Major Impacts and Proposed Mitigation Measures

The environmental impact of the proposed project will be only during the construction work and may include the following temporary, unavoidable, adverse environmental effects:

A. Dust and Noise Emission: The discharge of dust into the atmosphere may occur during the construction period. This is, however, only a short-term effect on the environment, and dust will be reduced and controlled through the application of water and/or other appropriate methods. The specifications will contain provisions that will require the contractor to prevent dust nuisance at all times and must have sufficient equipment and manpower at the job site to accomplish this.

Noise will be generated by construction equipment such as backhoes, compressors and jackhammers during the project. The increase in noise level by construction equipment cannot be avoided, but will be controlled and limited to normal working daylight hours. The contractor will be required to obtain a Community Noise Permit pursuant to Chapter 43 of the State Public Health Regulations and comply with the provisions of Chapter 42, Vehicular Noise Control for Oahu. Individuals that may be adversely affected by the construction noises will be the employees and users of the Moanalua Golf Course and the residents of homes adjacent to the Moanalua Stream Channel. Approximate distances from the work area nearest to various locations and the estimated sound level from equipment noise at the locations from the project site are as follows:

<table>
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<tr>
<th>Location</th>
<th>Distance from Project</th>
<th>Sound Level dBA</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Nearest residence</td>
<td>50 feet</td>
<td>88</td>
</tr>
<tr>
<td>(2) Nearest church</td>
<td>3,000 feet</td>
<td>53</td>
</tr>
<tr>
<td>(3) Nearest school</td>
<td>6,700 feet</td>
<td>42</td>
</tr>
<tr>
<td>(4) Nearest hospital</td>
<td>3,000 feet</td>
<td>53</td>
</tr>
</tbody>
</table>

B. Water Pollution: The work is located in an active watercourse and provisions will be made to divert or transfer the water around or through the project site. This can be accomplished through the use of diversion ditches, pumps, etc. Some small incidental amounts of petrochemical products from the contractor's equipment

3
may be deposited into the stream waters. This adverse effect can be minimized by proper control of the contractor's operations such as proper disposal of wash and dust control water, etc. The specifications will contain provisions concerning water pollution controls. In addition, the work will be done during the summer months when stream flow is low.

C. Flood Hazard. The project will not increase the possibility of flood damages. The cross sectional area of the existing channel will be increased to accommodate greater flow at the project locations.

V. Alternatives Considered

The following courses of action was considered: a) No action, 2) The proposed project.

A. Discussion

Alternative 1: To take no action will mean more manhours to maintain the channel, less frequent maintenance cleanings which may contribute to possible flooding of adjacent properties, and greater difficulty to make structural repairs.

Alternative 2: The proposed project will enable maintenance personnel to maintain the channel more efficiently with the use of debris hauling equipment. Also small repair work can be done with in-house forces rather than contracting the work.

B. It is recommended that the ramps be constructed to provide easy access for the proper maintenance of the Moanalua Stream Channel.
APPENDIX B

LOCATION MAP

SCALE IN FEET

0 1000 2000 3000
APPENDIX C
RAMP DETAIL
APPENDIX D

COMMENTS
November 6, 1987

Mr. William W. Paty, Chairperson
Board of Land and Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Paty:

Subject: Environmental Assessment for the Construction of Maintenance Ramps in the Moanalua Stream Channel, TMK: 1-1-12, 40 to 44

We request your assistance and comments on our environmental assessment for this project because of your expertise, area of responsibility or special interest in this matter. This assessment is being made to determine whether an Environmental Impact Statement will be required.

Enclosed is a copy of the environmental assessment giving a description and the characteristics of the proposed project, including a summary of the potential environmental effects. Please call Ray Nakahara at 523-4041 of our Division of Engineering if additional information is needed.

We would appreciate a reply by November 25, 1987.

Very truly yours,

[Signature]

ALFRED J. THIEDE
Director and Chief Engineer

RN: HK: pto
Encl.

bcc: Chev Lun Lau
November 20, 1987

MEMORANDUM

TO: ALFRED J. THIEDE, DIRECTOR AND CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS

FROM: DONALD A. CLEGG, CHIEF PLANNING OFFICER
DEPARTMENT OF GENERAL PLANNING

SUBJECT: ENVIRONMENTAL ASSESSMENT FOR THE CONSTRUCTION OF MAINTENANCE RAMPS IN THE MOANALUA STREAM CHANNEL, TMK: 1-1-12, 40 TO 44

We have no objections to your proposal to modify velocity drops within the Moanalua Stream Channel to provide maintenance ramps for stream cleaning repair.

The proposal is minor in nature and will have little or no impact on the land use pattern for the area. Therefore, an amendment to the Development Plan Public Facilities Map would not be necessary.

Donald Clegg
Chief Planning Officer
MEMORANDUM

TO:        ALFRED J. THIEDE, DIRECTOR & CHIEF ENGINEER
           DEPARTMENT OF PUBLIC WORKS

FROM:      JOHN P. WHALEN, DIRECTOR

SUBJECT:   ENVIRONMENTAL ASSESSMENT FOR THE CONSTRUCTION OF
           MAINTENANCE RAMPS IN THE MOANALUA STREAM CHANNEL
           TAX MAP KEY 1-1-12, 40 - 44

November 25, 1987

We have reviewed the Environmental Assessment for the construction of
the maintenance ramps in the Moanalua Stream Channel. The
Department of Land Utilization has no objections to this project.

Since the project area is outside the Special Management Area
(SMA), no SMA permit will be required.

[Signature]

JOHN P. WHALEN
Director of Land Utilization

JPW:s1
14768
MEMORANDUM

To: Mr. Alfred J. Thiede, Director and Chief Engineer
   Department of Public Works, City and County of Honolulu

From: Deputy Director for Environmental Health

Subject: Environmental Assessment for Construction of Maintenance Ramps in the
        Moanalua Stream Channel, TMK 1-1-12: 40-44

November 19, 1987

Thank you for allowing us to review and comment on the subject EA. We provide
the following comments on noise.

1. In addition to obtaining a Community Noise Permit, construction activities must
   comply with the provisions of Title 11, Administrative Rules Chapter 43,
   Community Noise Control for Oahu.

   a. Construction equipment and onsite vehicles requiring an exhaust of gas or air
      must be equipped with mufflers.

   b. The contractor must comply with the conditional use of the permit as
      specified in the rules and conditions issued with the permit.

2. Traffic noise from heavy vehicles travelling to and from the construction site must
   be minimized near existing residential areas.

3. Should there be a baseyard or stockpile area located adjacent to residences,
   precautions to reduce the noise in these areas, such as barriers or berms, must be
   implemented. Contingency plans must be developed in the event that complaints
   are received regarding noise emanating from these areas.

   [Signature]

   BRUCE S. ANDERSON, Ph.D.
Mr. Alfred J. Thiede  
Director and Chief Engineer  
Department of Public Works  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

Re: Environmental Assessment for the Construction of Maintenance Ramps in the Moanalua Stream Channel, Oahu

Dear Mr. Thiede:

We have reviewed the referenced Environmental Assessment and offer the following comments for your consideration.

The purpose of these improvements is to reduce the slope of fourteen velocity drops within the 7,500-foot long concrete-lined Moanalua Stream channel. These improvements will simplify maintenance work in the channel.

To limit the release of silt and debris from the construction of the new velocity ramps into coastal waters, we recommend that construction work be conducted during the summer months when the stream channel is dry.

We appreciate this opportunity to comment.

Sincerely,

Ernest Kosaka, Field Supervisor  
Environmental Services  
Pacific Islands Office

Save Energy and You Serve America!
Mr. Alfred J. Thiede  
Director and Chief Engineer  
Department of Public Works  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813  

Dear Mr. Thiede:

Thank you for the opportunity to review the Environmental Assessment for the Construction of Maintenance Ramps in the Moanalua Stream Channel, Moanalua, Oahu, Hawaii. The following comments are offered.

a. As you are already aware, the proposed project requires a Department of the Army permit. Please continue to consult with Operations Branch regarding the permit application.

b. According to the enclosed Flood Insurance Rate Map Index for the City and County of Honolulu, the project site is located in Zone D, an area of undetermined but possible flood hazards.

Sincerely,

[Signature]

Chief, Engineering Division

Enclosure
Ref. No. P-7651

November 18, 1987

The Honorable Alfred J. Thiede
Director and Chief Engineer
Department of Public Works
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

Dear Mr. Thiede:

Subject: Environmental Assessment for the Construction of Maintenance Ramps in the Moanalua Stream Channel

The environmental assessment (EA) indicates that the project will require a U.S. Department of the Army permit. Therefore, Hawaii Coastal Zone Management (CZM) Federal Consistency determination will also be required. We will review the proposed project for CZM consistency certification at that time.

Thank you for the opportunity to review this EA. If there are any questions regarding this matter, please feel free to call our CZM office at 548-8467.

Sincerely,

Roger A. Ulveling