February 26, 1991

Office of Environmental Quality Control
Central Pacific Plaza
220 South King Street, 4th Floor
Honolulu, Hawaii  96813

Re:  Keokea Lateral
     Kula, Maui, Hawaii

Gentlemen:

In accordance with the requirement of Chapter 343, HRS and Chapter 200 to Title 11, Administrative Rules, we hereby notify you that an Environmental Impact Statement will not be required for the subject project.

As the proposing agency, we are forwarding, herewith, one copy of OEQC Form 89-01 and four (4) copies of an Environmental Assessment (Negative Declaration) indicating no significant impacts on the environment as a result of the subject project. These are respectfully submitted for your consideration.

Sincerely,

[Signature]

Rae M. Shikuma
Director

Encl:  One (1)-OEQC Form 89-01
       Four (4)-Environmental Assessments (Negative Declaration)

cip/dj

"By Water All Things Find Life"
ENVIRONMENTAL ASSESSMENT - DETERMINATION
FOR
KEOEKA LATERAL
AT KEOEKA
IN THE
MAKAWAQ DISTRICT
COUNTY OF MAUI

FOR

DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI
WAILUKU, MAUI, HAWAII

PREPARED BY
AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS * SURVEYORS
HONOLULU * WAILUKU * HILO, HAWAII

FEBRUARY 1991
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ENVIRONMENTAL ASSESSMENT - DETERMINATION

KEOEKA LATERAL

AT KEOKEA

MAKAWAO DISTRICT

COUNTY OF MAUI

I. PROPOSING AGENCY

Department of Water Supply
County of Maui
200 South High Street
Wailuku, Maui, Hawaii
Director: Ms. Rae Shikuma

II. APPROVING AGENCY

Office of the Governor, State of Hawaii

III. AGENCIES CONSULTED IN PREPARING THIS ASSESSMENT

A. State of Hawaii
   Department of Transportation
   Department of Health
   Department of Land and Natural Resources

B. County of Maui
   Department of Planning
   Department of Public Works
   Department of Water Supply
IV. GENERAL DESCRIPTION OF PROJECT'S TECHNICAL, ECONOMIC, SOCIAL AND ENVIRONMENTAL CHARACTERISTICS

A. Technical Description

The project consists of installing a new water main to the community of Keokea and, depending on availability of funds, three additional extensions at the locations described herein. Pipe material will be ductile iron. The design concept calls for the pipes to be laid with inverts at a depth of about 4 feet below existing ground. All construction work will be in accordance with construction specifications prepared for the project, as well as with the Standard Specifications and Standard Details of the Department of Public Works, and the Department of Water Supply of the County of Maui.

Basic construction, named the Main Waterline, comprises approximately 3,980 linear feet of 8-inch waterline. This waterline begins at its connection to the existing 47,000-gallon corrugated steel water tank to the southeast of Middle Road. It follows Middle Road to the point at which Middle Road turns south and then turns northwest through a utility easement, bypassing a cemetery, to Kula Highway. The alignment then follows Kula Highway to a deadend beyond Fong Store. If available funds permit, any of three additional waterline extensions will be constructed as follows:

1. Additive No. 1: an 8-inch extension 500 linear feet long, along Middle Road from an existing 6-inch deadend at Hookano Place;

2. Additive No. 2: an 8-inch waterline branch, 513 linear feet long, of the Main Waterline along Kula Highway, northward of the Cross Road intersection.
3. Additive No. 3: a new 8-inch connection from the existing water tank 710 linear feet southeast to the existing Upper Kula waterline, replacing the existing 3-inch galvanized pipe connection.

New fire hydrants at appropriate intervals will be installed along the new waterlines. Existing service laterals for properties along the new waterlines will be replaced with new laterals.

Two pressure reducing valve (PRV) stations will be installed in the system. One station will be used to bypass the water tank from Additive No. 3 pipeline and the other will be located at the intersection of Kula Highway and Cross Road. These PRV stations will reduce the high static pressures to reasonable lower pressures for most of the water users.

The estimated cost of the project is $310,000.

B. Economic and Social Characteristics

The proposed project will provide water service to meet the domestic demand and fire flow requirements for areas that do not have adequate service at this time.

The land use and lifestyle of the area are not anticipated to change with the implementation of the water project. No families or businesses will be relocated by the proposed water project. Further development of the area served by this waterline should not be encouraged by the implementation of this project.

The Keokea lateral requires new utility easements through pasturelands.

C. Environmental Characteristics

There will be no major changes to the environmental characteristics of the areas in which the project is located, as the proposed waterline will be installed underground. Upon completion of the construction of the waterline, all affected areas will
be restored to near original condition and existing general drainage patterns will be
maintained. There are no known historical or archeological sites along the waterline
alignment. No rare or endangered species of flora or fauna have been identified within
the project area.

V. SUMMARY AND DESCRIPTION OF AFFECTED ENVIRONMENT

Portions of the proposed waterline alignment are through existing pastur-lands
covered with cattle grass and with scattered trees, consisting of avocado, Norfolk Pine,
Eucalyptus and Black Wattle. The remaining portions are in roadway rights-of-ways within
grassed shoulder areas. The shoulder area of the roadsides is graded and grassed.

Soils in the area are classified as Kula Very Rock Loam (KbE) and Kula Loam (KxD)
by the U.S. Soil Conservation Service. Permeability is moderately rapid. Runoff is
medium and the soil erosion hazard is moderate. Some outcropping of rocks exists in
the pastureland. See Exhibit 1 for Project Location, Exhibit 2 for Site Plan showing
proposed pipelines and Exhibits 3 through 9 for alignment of waterlines.

VI. IDENTIFICATION AND SUMMARY OF MAJOR IMPACTS AND ALTERNATIVES
    CONSIDERED

A. Major Impacts

    There will be no permanent adverse environmental impacts created in the area by
the proposed project. Some temporary, unavoidable adverse environmental effects
will occur during construction. These effects will be noise and airborne emissions
from construction equipment, and inconvenience to motorists, pedestrians and
abutting property owners during the construction period.

    There will be no other significant adverse effects on the environment of the area.
B. Alternatives

The alternative of "no action" would mean that inadequate water systems and poor
or no fire protection would continue to exist for the project location.

VII. PROPOSED MITIGATION MEASURES

A. Noise and Airborne Emission Management

The Contractor will be required to observe all Federal, State and County rules and
regulations relating to air and noise pollution during construction.

B. Vehicular and Pedestrian Traffic Inconvenience

Contract provisions will restrict work during peak periods of traffic. Specific
working hours in the public rights-of-way will be established. Safety precautions and
traffic control measures contained in the "Rules and Regulations Governing the Use
of Traffic Control Devices at Work Sites on or Adjacent to Public Streets and
Highways", as adopted by the State Highway Coordinator and the "Manual of Uniform
Traffic Control Devices for Streets and Highways, Part VI - Traffic Controls for Street
and Highway Construction, Maintenance, Utility and Emergency Operations" will be
used on the project.

VIII. DETERMINATION

After completing an assessment of the potential environmental effects of the proposed
project, it is determined that the adverse effects will not be significant and does not
warrant an environmental impact statement. Therefore, this document constitutes a notice
of negative declaration.
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