

2004-09-23 FONSI

SEP 23 2004

**KOKEE-WAINEKE & KOKEE A-1
EXPLORATORY WELLS**

FILE COPY

Chapter 345, Hawaii Revised Statutes (HRS)

**FINAL ENVIRONMENTAL ASSESSMENT
Finding of No Significant Impact (FONSI)**

for

**DRILLING AND TESTING
KOKEE-WAINEKE AND KOKEE A-1
EXPLORATORY WELLS**

Tax Map Key: 1-4-04
Kokee, Kauai, Hawaii

Proposing Agency:

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Engineering Division
1151 Punchbowl Street, Room 221
Honolulu, Hawaii 96813
Telephone: (808) 587-0230

Prepared by:

FUKUNAGA AND ASSOCIATES, INC.
1388 Kapiolani Boulevard, Second Floor
Honolulu, Hawaii 96814
Telephone: (808) 944-1821

August 2004

TABLE OF CONTENTS

	<u>Page</u>
I. PROJECT DESCRIPTION	1
A. Purpose of the Project	1
B. Project Location	1
C. Existing Kokee Water System.....	1
D. Proposed Project.....	1
E. Required Permits and Approvals.....	4
II. DESCRIPTION OF THE ENVIRONMENT.....	5
A. Physical Environment	5
1. Land Ownership	5
2. Land Classification and Zoning	5
3. Climate and Topography.....	5
4. Soils.....	5
5. Flora and Fauna.....	7
6. Natural Hazards.....	7
7. Archaeological, Historical and Cultural Features	7
B. Hydrology.....	8
1. Waimea Aquifer System	8
2. Geology of Project Area.....	8
3. Existing Wells	8
4. Water Quality	12
5. Contamination and Vulnerability Assessment	12
C. Socio-Economic Environment	13
III. PROBABLE IMPACTS AND MITIGATIVE MEASURES	13
A. Short Term Impacts.....	13
1. Construction Related.....	13
2. Hydrogeology.....	13
B. Long Term Impacts	13
1. The Waimea Aquifer.....	13
2. Public Funds, Energy and Construction Materials.....	14
IV. ALTERNATIVES TO THE PROPOSED PROJECT	14
A. No Project Alternative.....	14
B. Alternative Site Selection.....	14
C. Surface Water.....	14

TABLE OF CONTENTS (Cont.)

	<u>Page</u>
D. Rain Catchments	14
E. Water Conservation.....	15
V. AGENCIES CONSULTED – PRE-CONSULTATION LIST	15
VI. AGENCIES CONSULTED – DRAFT ENVIRONMENTAL ASSESSMENT – CONSULTATION LIST.....	16
VII. DETERMINATION, FINDINGS AND REASONS FOR SUPPORTING DETERMINATION.....	17
VII. REFERENCES.....	19

FIGURES

1 General Location Map.....	2
2 Location Map	3
3 Soils Map.....	6
4 Waimea Aquifer System – Island of Kauai.....	9
5 Geologic and Topographic Map.....	10
6 Existing Wells Map.....	11

APPENDICES

APPENDIX 1A – Kokee-Waincke Exploratory Well Site Photo

APPENDIX 1B – Kokee A-1 Exploratory Well Site Photo

APPENDIX 2 – Kokee-Waineke & Kokee A-1 Exploratory Wells – Proposed Sections

APPENDIX 3 – Archaeological Assessment – Proposed Exploratory Wells Kokee State Park

APPENDIX 4 – Draft EA Pre-Assessment Consultation List

APPENDIX 5 – Draft EA Pre-Assessment Comment & Response Letters

APPENDIX 6 – Draft EA Consultation List

APPENDIX 7 – Draft EA Comment & Response Letters

I. PROJECT DESCRIPTION

A. Purpose of the Project

The State of Hawaii, Department of Land and Natural Resources (DLNR), Engineering Division for the Division of State Parks, is proposing to develop a new water source in the Kokee and Waimea Canyon State Park on Kauai. The purpose of this project is to drill and test two new exploratory wells for possible future development as potable water sources to serve the Kokee and Waimea Canyon State Parks, see **Figure 1**.

B. Project Location

The proposed Kokee-Waineke exploratory well site is located approximately 3,500 feet southeast of the Kokee Lodge and approximately 500 feet southwest of the Noe Stream and Elekeninui Stream convergence. The proposed Kokee A-1 well site is located approximately 4,000 feet southeast of the Kokee Lodge and approximately 500 feet west of the Elekeninui Stream and Elekeniiki Stream convergence, next to the existing Kokee Well A, see **Figure 2**. The proposed Kokee-Waineke and Kokee A-1 well sites are located at elevation 3,550 and 3,565 feet above mean sea level, respectively. Photos of both well sites are included in Appendix 1 (A & B).

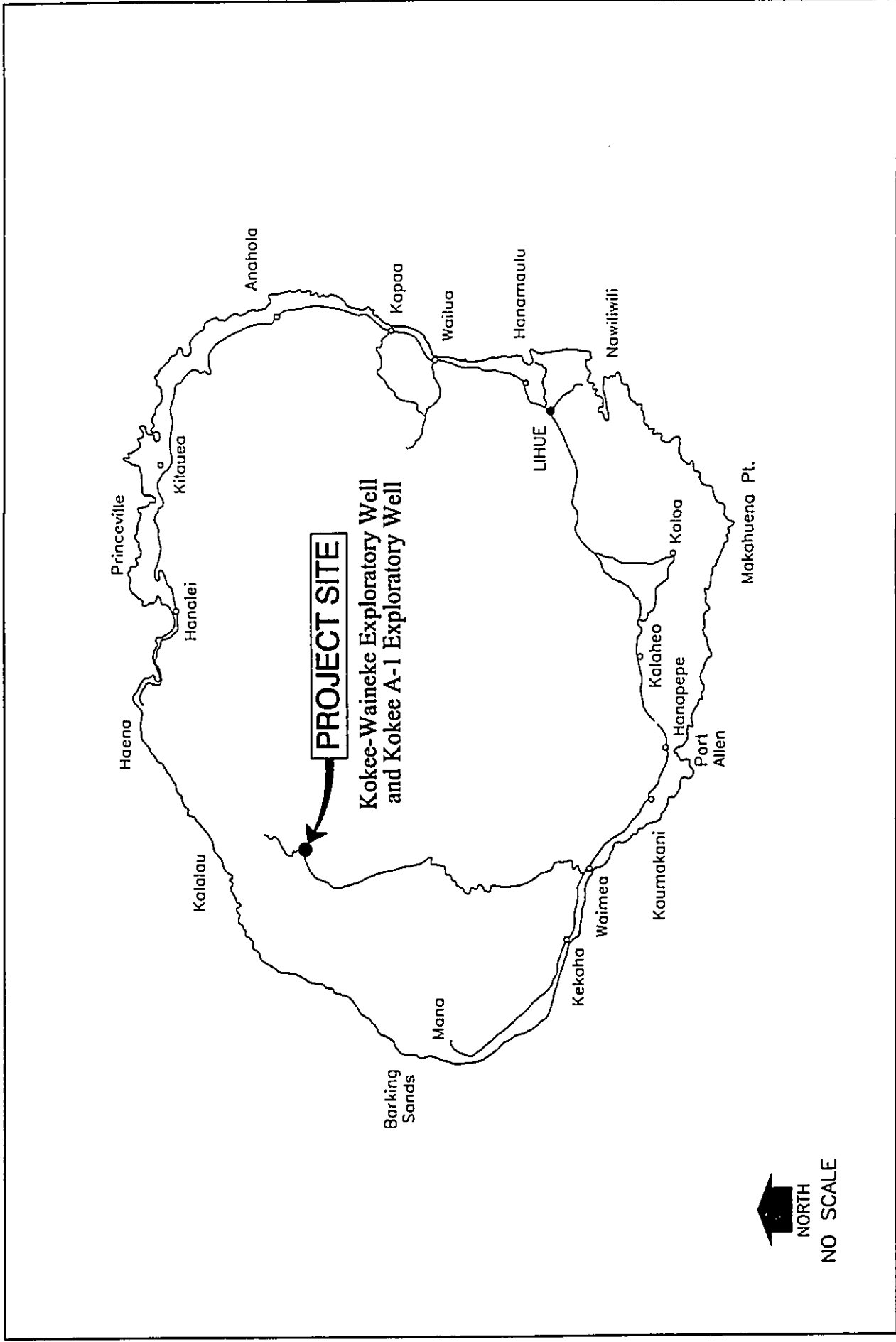
C. Existing Kokee Water System

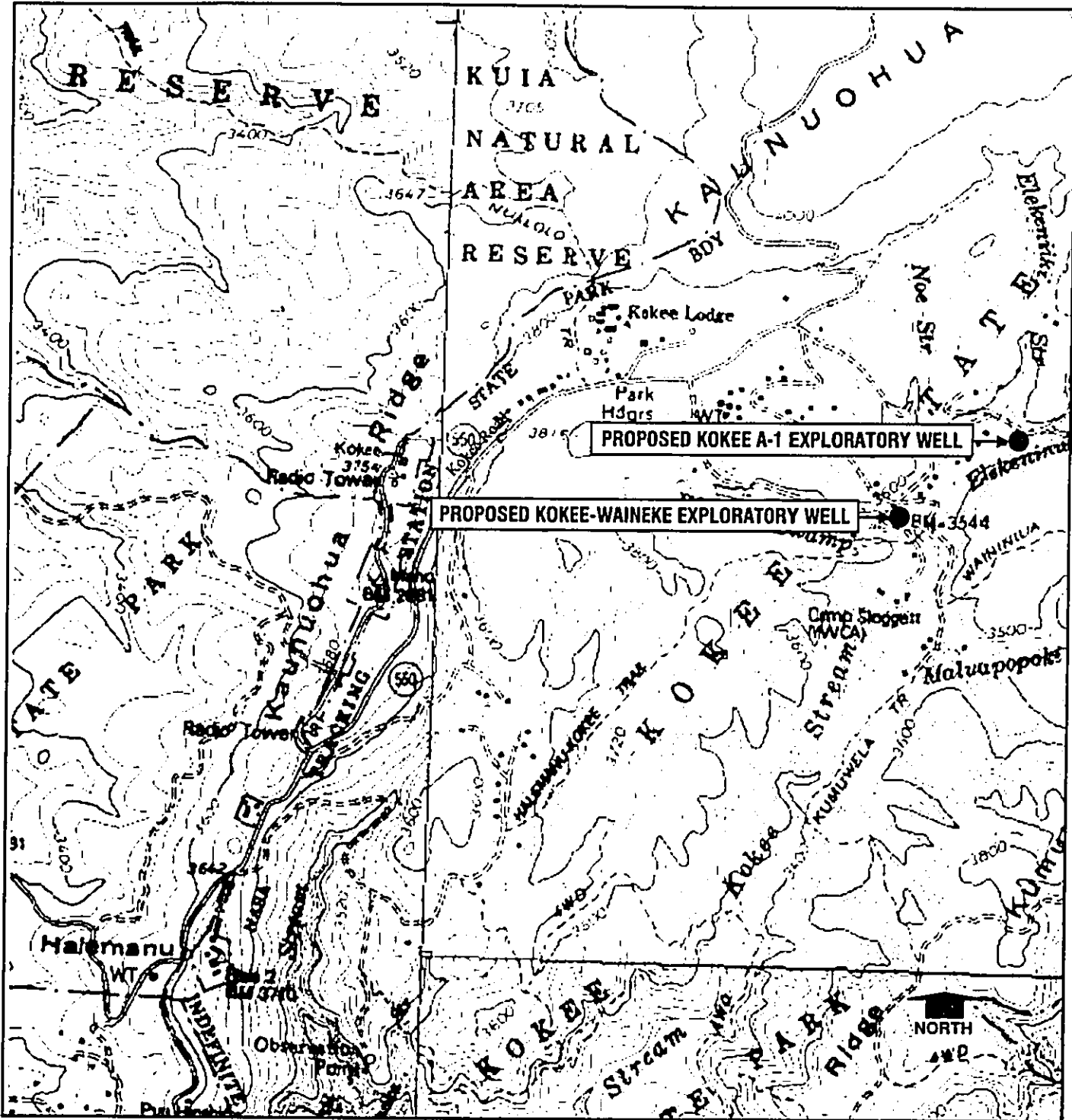
The Kokee State Park water system is owned and operated by the DLNR, Division of State Parks. The Kokee State Park water system is classified as a non-transient, non-community water system and provides water to approximately 2,000 people with a total of 93 service connections according to the Division of State Parks. The Kokee State Park water system serves the existing park facilities that include the DLNR facilities, leasehold lots, Kokee Lodge and Museum, lookouts and Discovery Center, the U.S. Navy facilities, and the Kokee campgrounds.

The Kokee State Park water system obtains water from two wells, Well A (USGA number 2-0739-01) at a depth of 39 feet and the Kokee Noe Well (USGS number 2-0739-03) at a depth of 150 feet. The Kokee Well A is located at elevation 3,560 and the Kokee Noe Well is located at elevation 3,640 feet. Water from the Kokee Well A and Noe Well is pumped to the Kokee Tank (0.2 MG) at an elevation of 3,760 feet. The Kokee Tank provides water by gravity flow into the distribution system and to the Makaha Tank (elevation 3,580 feet) and the Puu Hinahina Tank (elevation 3,500 feet).

D. Proposed Project

The DLNR, Division of State Parks is responsible for the development, operation and maintenance of the Kokee State Park water system. According to a sanitary survey report, done by the State Department of Health's Environmental Management Division, dated September 9, 2003, the





State of Hawaii
 DEPARTMENT OF LAND AND NATURAL RESOURCES
 Kokee-Waineke and Kokee A-1 Exploratory Wells, Kauai
 Final Environmental Assessment

LOCATION MAP

Figure 2

adequacy of the present water sources, serving the Kokee State Park, are insufficient to meet the future demands of the park.

From the "Final Facility Assessment Report – Kokee and Waimea Canyon State Park Master Plan and Environmental Impact Statement, 2003", by R.M. Towill Corporation" one of the recommendations was stated as follows, "A replacement and backup source of potable water is needed for the park to service existing uses [recreational residences, Kokee Lodge and Museum, State cabins, Civilian Conservation Corps (CCC) camp], as well as provide additional capacity for park development. Well exploration by the Land Division should continue as a high priority."

This proposed project involves the drilling and testing of two new exploratory wells for possible future development. The basic scope of work includes the following:

- Drilling a 20-inch diameter cased well to a maximum depth of approximately 200 feet below the ground surface elevation.
- Kokee-Waineke Exploratory Well includes installing approximately 50 feet of 12-inch diameter solid casing, 3/8-inch wall and below that, a 100 feet of 12-inch perforated casing, 5/16-inch wall (Ful Flo Louver Screen). Option of 50 feet of additional open hole if required by engineer to increase water production.
- Kokee A-1 Exploratory Well includes installing approximately 20 feet of 12-inch diameter solid casing, 3/8-inch wall and below that a 50 feet of 12-inch perforated casing, 5/16-inch wall (Ful Flo Louver Screen). Option of 50 feet of additional open hole if required by engineer to increase water production.

See Appendix 2 for the Kokee-Waineke & Kokee A-1 Exploratory Wells – Proposed Sections.

If well tests prove out, well(s) will be developed in following phase, which will go through another Environmental Assessment.

E. Required Permits and Approvals

The following permits and approvals are anticipated for the construction of the proposed exploratory wells for the Kokee State Park:

Permits

- Well Construction Permit/Pump Installation Permit – Commission on Water Resource Management;
- Building Permit – County of Kauai; and
- Non-Point Discharge Elimination System, NPDES Permit – State Department of Health (if required).

Approvals

- Plan Approval – Engineering Branch, Land Division, Department of Land and Natural Resources (DLNR), State of Hawaii;

- State Historic Preservation Office, DLNR, State of Hawaii;
- Commission on Water Resources Management, DLNR, State of Hawaii; and
- Office of Environmental Quality Control, State of Hawaii.

The State of Hawaii, Department of Land and Natural Resources (DLNR), Engineering Division is responsible for obtaining the above-mentioned permits and approvals for the proposed construction of the wells.

II. DESCRIPTION OF THE ENVIRONMENT

A. Physical Environment

1. Land Ownership

By Executive Order 1509, dated May 15, 1942, the state government-owned lands within the Territory Forest Reserve were set-aside as a Territorial Park to be known as the "Kokee Park." The park falls under the administration of the Division of State Parks, Department of Land and Natural Resources.

2. Land Classification and Zoning

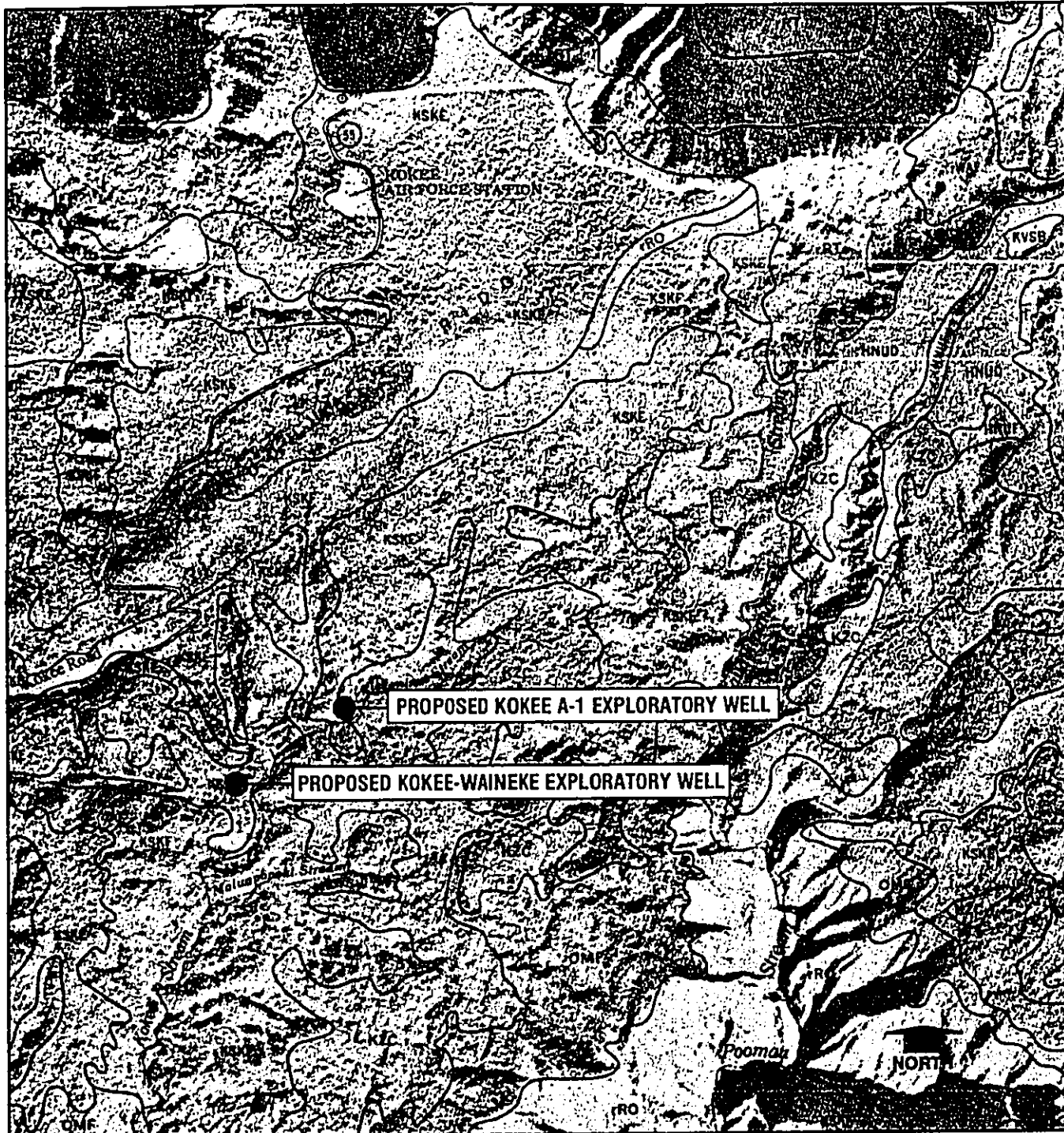
The Kokee State Park is designated under the State Land Use Classification of Conservation and is within the Resource Subzone. According to the Hawaii Administrative Rules (HAR) Title 13, Conservation district means those lands within the various counties of the State and state marine waters bounded by the conservation district line, as established under provisions of Act 187, Session Laws of Hawaii, 1961, and Act 205, Session Laws of Hawaii 1963.

3. Climate and Topography

The Kokee-Waineke exploratory well site is located within the Kokee State Park. The Kokee State Park encompasses approximately 4,345 acres of land located in the northwestern portion of Kauai and is identified by TMK: 1-4-01:13, 19; 1-4-03:1-14, 16-17; and 1-4-04: 1-14, 16-21, 24, 27-33, 35-50. The park is noted for its many scenic lookouts and beautiful surroundings. The climate in the area is generally cool, and sunny to misty most of the time. Annual rainfall in the area is about 60 - 78 inches. Temperatures at the park range from approximately 45 to 80 degrees F.

4. Soils

The soil type present at the Kokee-Waineke and Kokee A-1 well sites are KSKE & KSKF. KSKE - Kokee silty clay loam has a 0 to 35 percent slope, permeability is moderately rapid. Runoff is medium, and the erosion hazard is slight to moderate. KSKF - Kokee silty clay loam has a 25 to 70 percent slope; runoff is rapid and erosion hazard is severe, see Figure 3.



Source: Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai. State of Hawaii; U.S. Dept. of Agriculture, Soil Conservation Service; Aug. 1972

LEGEND:

- | | | | |
|------|--|------|---|
| HNUD | Hulua gravelly silty clay loam, 3 to 25% slopes | KZC | Kunuweia very gravelly clay loam, 0 to 15% slopes |
| HNUF | Hulua gravelly silty clay loam, 25 to 70% slopes | OMF | Oli silt loam, 30 to 70% slopes |
| KSKE | Kokee silty clay loam, 0 to 35% slopes | rRO | Rock outcrop |
| KSKF | Kokee silty clay loam, 35 to 70% slopes | rRT | Rough mountainous land |
| KVSF | Koolau silty clay, 0 to 8% slopes | rWAF | Waialeale mucky silty clay loam, 30 to 70% slopes |

5. Flora and Fauna

A botanical study was conducted for the Kokee and Waimea Canyon State Park Master Plan. Ten sites were surveyed by Botanical Consultants, Evangeline J. Funk, Ph.D., and findings documented in "Botanical Survey Report for Ten Kokee and Waimea Canyon State Park Sites". According to the study, no candidate, proposed, or listed threatened or endangered species as set forth in the Endangered Species Act of 1973, as amended (16 U.S.C. 1531-1543) were found.

A fauna study was conducted for the Kokee and Waimea Canyon State Park Master Plan. This report summarizes the findings of an ornithological and mammalian assessment made of 11 separate locations within the two parks. Reginald E. David of Rana Productions, Ltd., documented findings in the report, "An Assessment of Avian and Terrestrial Mammalian Species Within Various Developed Areas in Kokee and Waimea Canyon State Parks, Kauai". The main recommendation regarding development within the parks is "To reduce the possibility that nocturnally flying Hawaiian Petrels and Newell's Shearwaters may be disoriented by external lights and collide with man-made structures, it is recommended that any external lighting within the 11 sites be shielded. This mitigation would minimize the threat of disorientation and downing of Hawaiian Petrels, and Newell's Shearwaters." The proposed work at the well sites will be done during daylight hours and it is not anticipated that any night work will be done on the exploratory well construction.

6. Natural Hazards

The Flood Insurance Rate Map indicates that the project site is located within the Zone "X" boundary. Areas within the Zone "X" boundary are determined to be outside the 500-year flood plain. According to the Uniform Building Code, the Island of Kauai is classified as a Seismic Zone 1. Therefore, all new structures will be designed and constructed to resist stresses produced by lateral forces, which apply to Zone 1.

7. Archaeological, Historical and Cultural Features

The Division of State Parks of DLNR prepared an archaeological assessment of the well sites for a determination on any known historical and/or archaeological sites in the project areas. The archaeological assessment for the proposed exploratory wells concluded the following:

- An archaeological site survey was conducted on May 5, 2004 at the proposed well sites. The survey did not locate any surface features, and no subsurface testing was conducted. However, road-cuts were examined, and no cultural deposits were located.
- The project area for each of the well sites is relatively small, averaging around 30 by 30 feet. The proposed sites are adjacent to existing dirt roads, which means that access roads to the project area are not required. Therefore, impacts from the drilling and testing of these wells will be limited to the project area and adjacent roadways.

- Based on these findings, it is felt that the drilling and testing of the exploratory wells within the Kokee State Park will have “no adverse effect” on any archaeological or cultural resources.

The Archaeological Assessment – Proposed Exploratory Wells – Kokee State Park report is included in Appendix 3.

B. Hydrology

1. Waimea Aquifer System

The Kokee-Waineke and Kokee A-1 Exploratory Wells are located in Hydrological Sector Waimea - 203. According to the DLNR - State Water Projects Plan for the Island of Kauai, the sustainable yield for the Waimea Sector is 110 million gallons per day (mgd). Within the Waimea Hydrological Sector, the Kokee-Waineke and Kokee A-1 Exploratory Wells are in the Aquifer System – Waimea – 20302, see **Figure 4**. The Kokee-Waineke and Kokee A-1 Exploratory Well sites will be used to find a new potential water source for perched high-level water and should have negligible effects on the sustainable yield within the Waimea Hydrological Sector.

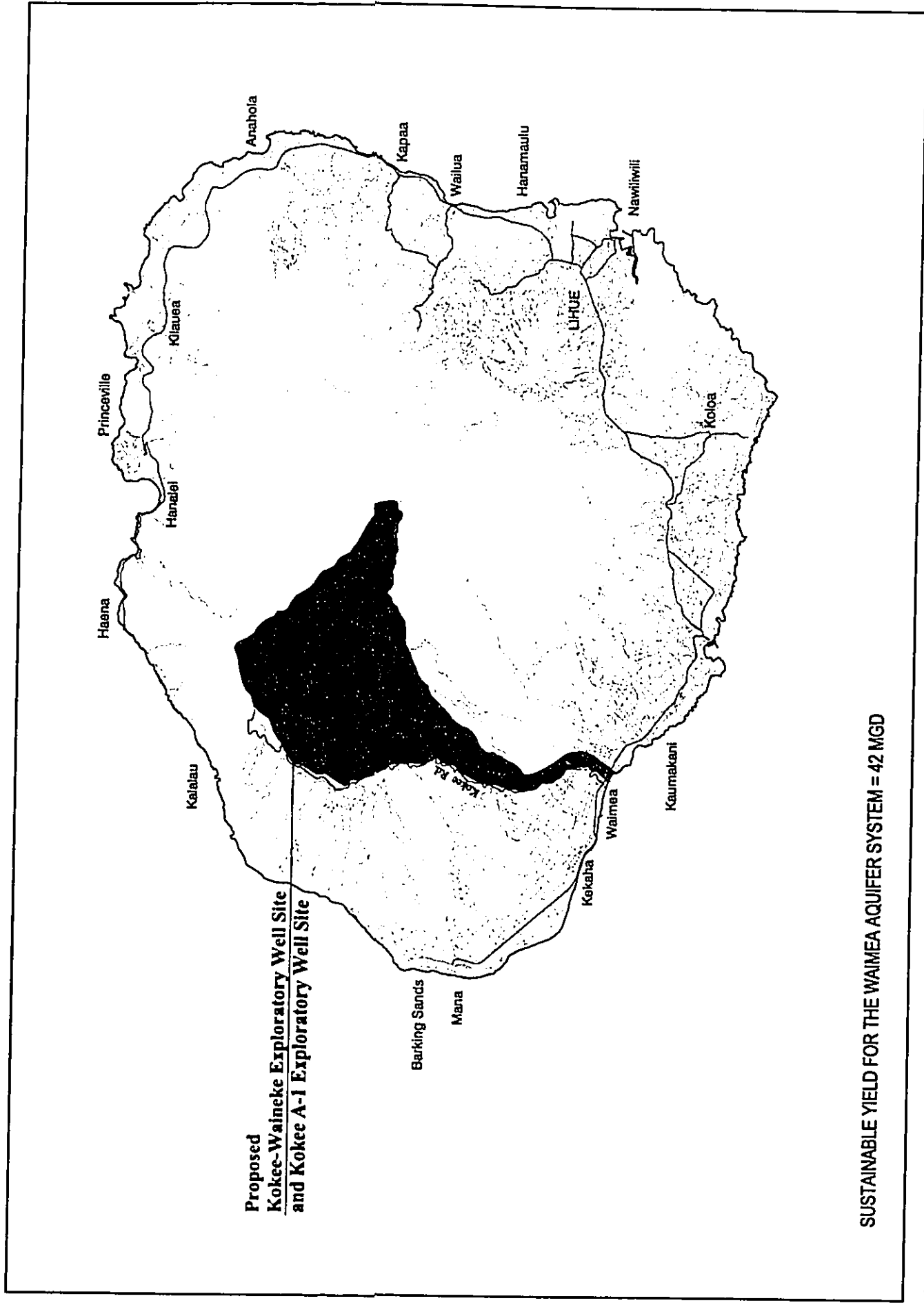
2. Geology of Project Area

According to the Geology and Ground-Water Resources of the Island of Kauai, Hawaii, Bulletin 13, the Kokee-Waineke Exploratory Well is located on Olokele Formation, see **Figure 5**. The lava flows and associated pyroclastic rocks that accumulated within the boundaries of the major caldera of the Kauai shield volcano are named the Olokele Formation of the Waimea Canyon volcanic series. Most of the water that enters the lavas of the Olokele Formation probably descends to the basal water table.

3. Existing Wells

There are two existing wells near the proposed Kokee-Waineke Exploratory Well site, Kokee Well A (USGS number 2-0739-01) and the Kokee Noe Well (USGS number 2-0739-03), see **Figure 6**.

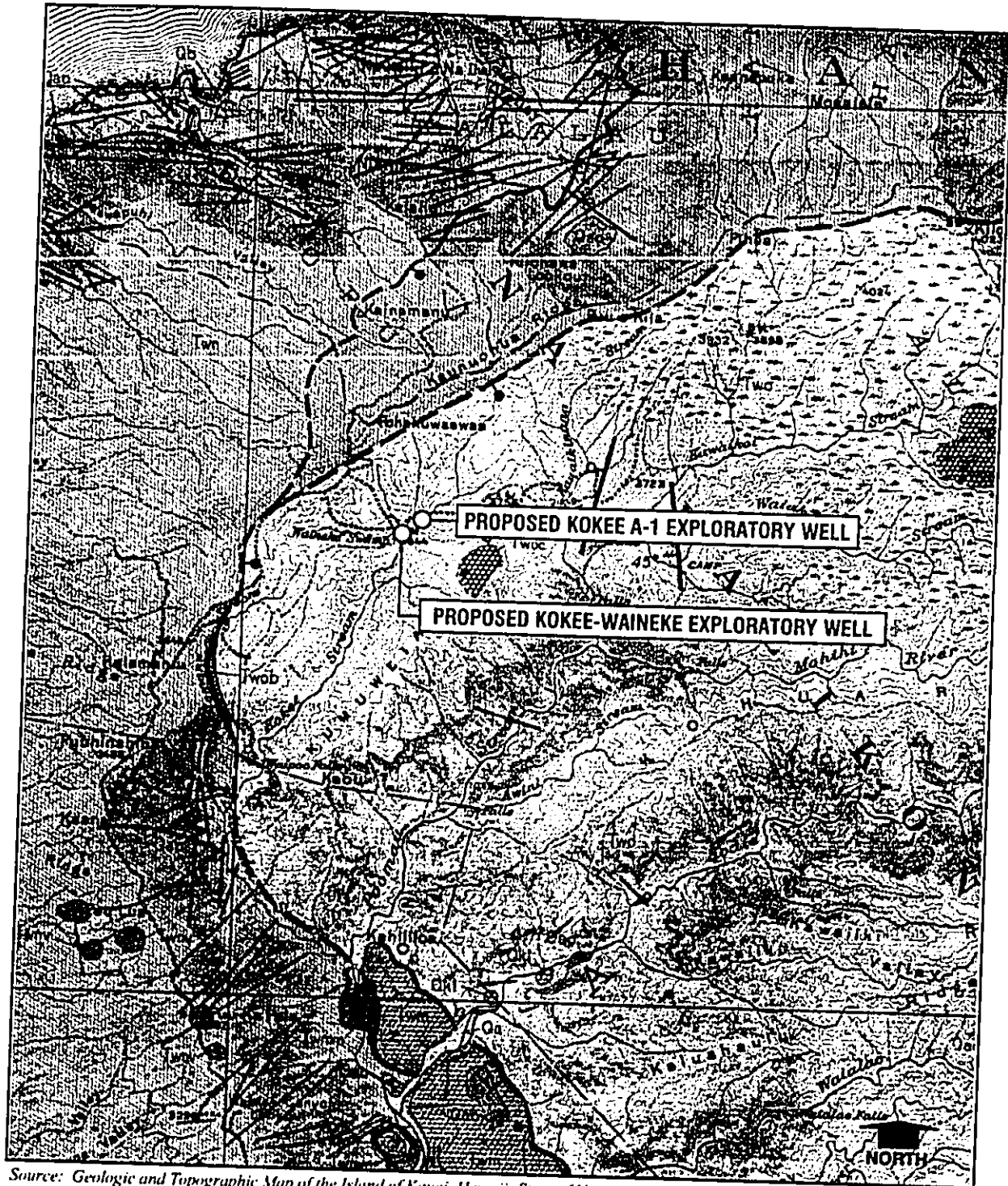
- The Kokee Well A is located approximately 150 feet west of the Elekeniki Stream and Kelekeninui Stream convergence. The well is at elevation 3,560 feet mean sea level (msl) with a well depth of 39 feet. This well site, served by a submersible pump, has a capacity of 30 gallons per minute. Water from Kokee Well A is disinfected at the well site with chlorine gas.



State of Hawaii
 DEPARTMENT OF LAND AND NATURAL RESOURCES
Kokee-Waineke and Kokee A-1 Exploratory Wells, Kauai
 Final Environmental Assessment

WAIMEA AQUIFER SYSTEM - Island of Kauai

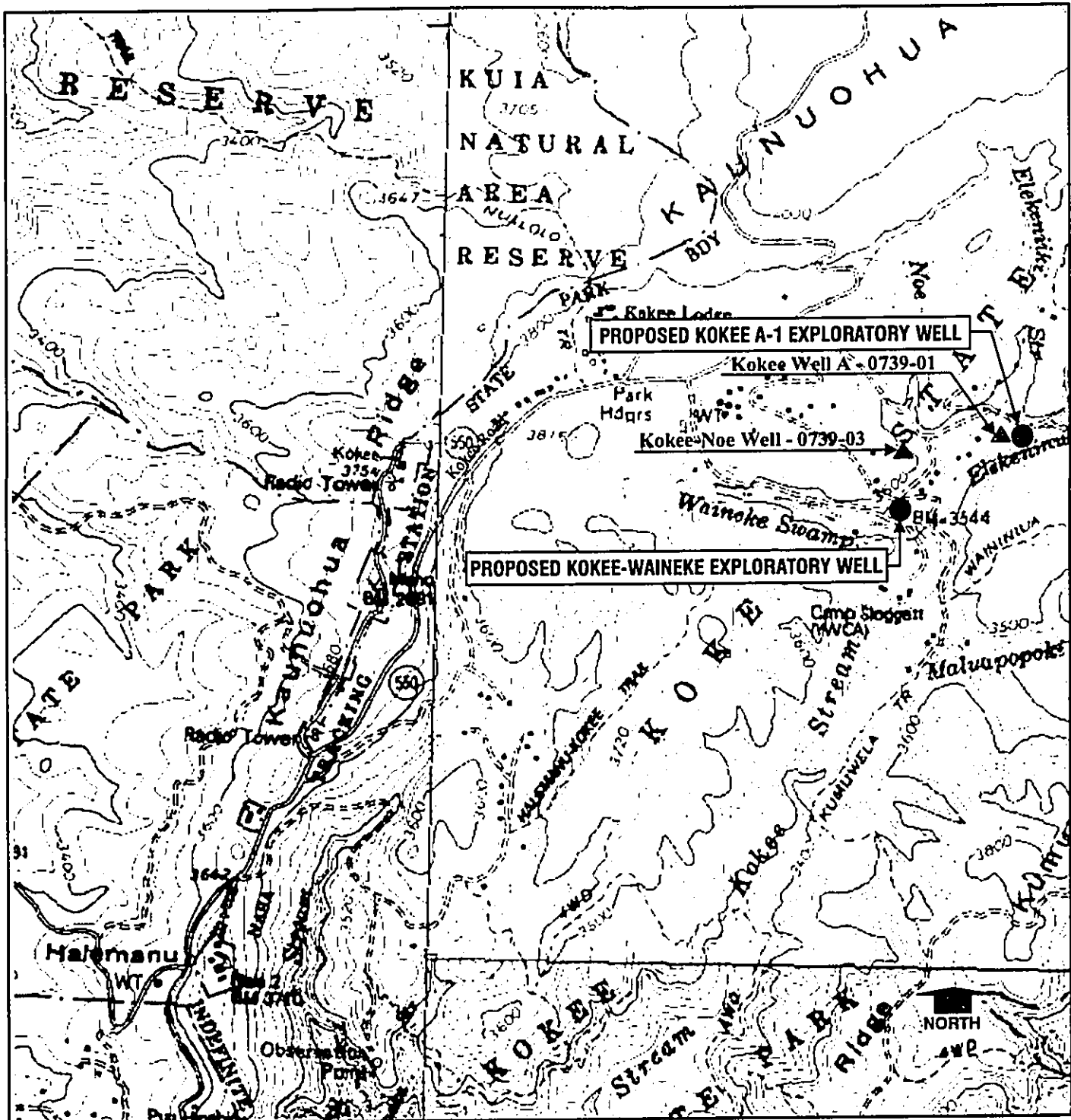
Figure 4



Source: *Geologic and Topographic Map of the Island of Kauai, Hawaii; State of Hawaii, Div. of Hydrography, 1960*

LEGEND:

- Two Olokele formation consists of thick flows of olivine basalt, basalt, picrite-basalt, and rare andesite accumulated in a broad caldera at the summit of the shield
- Twoc Cinder cones at vents
- Twm Napali formation consists of thin flows of olivine basalt, basalt, and picrite-basalt accumulated on the flanks of the big shield volcano



State of Hawaii
 DEPARTMENT OF LAND AND NATURAL RESOURCES
*Kokee-Waineke and Kokee A-1 Exploratory Wells, Kauai
 Final Environmental Assessment*

EXISTING WELLS MAP

Figure 6

- The Kokee-Noe Well is located approximately 600 feet west of the Noe Stream and Elekeninui Stream convergence. The well is at elevation 3,640 feet msl with a well depth of 150 feet. The well site, also served by a submersible pump, has a capacity of 40 gallons per minute. Water from the Kokee-Noe Well is disinfected with sodium hypochlorite at the well site. A Pall 10 micron filter in the Noe Well pump discharge header is used to remove sediments remaining in the water after the pump-to-waste line isolation valve is shut during the start-up of the well pump.

The water from Kokee Well A and Kokee Noe Well are treated with soda ash and zinc orthophosphate (Calgon C9). The soda ash is used to raise the pH of the water for the zinc orthophosphate (Calgon C9) to work effectively. The zinc orthophosphate is added to stabilize the lead in the water system piping and prevent lead from leaching into the water system.

4. Water Quality

According to the Sanitary Survey Report prepared by the Department of Health for Kokee State Park Public Water System No. 425, September 9, 2003 the following assessments were made to the DLNR, Division of State Parks.

- The chemical monitoring program is being performed in an acceptable manner.
- There were no violations of the microbiological monitoring requirements.
- Lead in the water system exceeded the lead action level; DLNR is currently working on reduction of the lead concentration in the water by providing treatment.
- There has not been any coliform detected during the past several years from both routine and quality assurance testing.

Since the exploratory wells may be a potential source of potable water, the well water will need to comply with Hawaii Administrative Rules, Title 11, Chapter 20, "Rules Relating to Potable Water Systems" prior to its use. To meet the Department of Health's requirements for a new drinking water source, a water quality test will be conducted on water collected from the exploratory wells and tested for potential contaminants.

5. Contamination and Vulnerability Assessment

A potential source of contamination for the Kokee-Waineke and Kokee Well A-1 Exploratory Wells would be from the sewage treatment plant (STP) for the Kokee Lodge and Restaurant and individual wastewater systems for the scattered recreation resident cabins sites in the vicinity of the wells. The closest recreation resident cabin to the exploratory wells is approximately 300 feet away. The STP is approximately 3,500 feet from the proposed Kokee-Waineke well site and approximately 4,000 feet from the proposed Kokee Well A-1 site. A chlorination system will be provided to protect the water supply from contamination if the development of the wells is realized. Existing well sources of the Kokee State Park water system show no signs of contamination at the present time.

C. Socio-Economic Environment

The Kokee State Park encompasses approximately 4,345 acres and is located in the northwestern portion of the Island of Kauai. The Kokee State Park water system serves existing park facilities that include the DLNR facilities, state leasehold lots, Kokee Lodge and Museum, lookouts and Discovery Center, U.S. Navy facilities, and the Kokee campgrounds. The park has approximately 400,000 visitors per year. Prior to Hurricane Iniki, the visitor count was about 1,000,000 per year. The visitor count is expected to slowly rise and place additional burden on the existing water supply. The proposed project is the first step in the future development of a new water supply for the Kokee State Park. The estimated cost for the construction of each exploratory well is approximately \$100,000. Funding for this project is available through Act 259, SLH 2001, Item H-5 as amended by Act 177, SLH 2002, Item H-5.

III. PROBABLE IMPACTS AND MITIGATIVE MEASURES

A. Short Term Impacts

1. Construction Related

Major short-term impacts anticipated as a result of this project are all associated with the construction activity required to drill and test the proposed well. Increased traffic, construction noise, dust and vehicular and equipment emissions can be expected. These impacts will be minimized, through conscientious efforts by the contractor and strict enforcement of specified environmental protection provisions by the construction manager under the direction of the Department of Land and Natural Resources. The construction-related impacts will be temporary, and will be confined to the immediate vicinity of the project site.

2. Hydrogeology

Possible impacts of the well testing efforts may include temporary fluctuations of the groundwater table in the immediate vicinity of the proposed well site; however, based on initial hydrogeologic studies of the area, the water source to be tapped is high-level perched water and this should minimize the fluctuations of the groundwater table.

B. Long Term Impacts

Depending upon the results of the two exploratory well tests, the State may decide to proceed with the development of the well(s) into a state-owned water supply source(s).

1. The Waimea Aquifer

The long-term effect of the proposed project on the Waimea Aquifer will be determined from the exploratory well test results. Preliminary indications are that the proposed well, if developed, is not expected to affect the quality of groundwater flows in the area. The

proposed withdrawal of approximately 0.058 mgd would come from high-level perched water and not from ground water in the Waimea Aquifer System. Therefore the sustainable yield of the aquifer system would not be adversely affected by this project.

2. Public Funds, Energy and Construction Materials

The exploratory well project will involve the irretrievable commitment of public funds, electrical energy, and well construction materials.

IV. ALTERNATIVES TO THE PROPOSED PROJECT

A. No Project Alternative

One alternative to the proposed project would be the "no project" option. The Kokee State Park is projected to grow in visitor count in the future and consequently, the demands for potable quality water will increase. According to the DLNR, the present water sources are inadequate for the future (next 5 years).

B. Other Alternative Site Selection

Other alternative sites were considered. The proposed well sites were selected as the most favorable location in terms of water source production, based on prior investigations and evaluation. However, additional sites may need to be considered if the proposed sites prove to be unsatisfactory.

C. Surface Water

Water treatment of surface water was discontinued at the Kokee State Park in the late 1980's/early 1990's. Surface water development for potable use was cost prohibitive, given the regulatory process involved with the in-stream flow standards and the monitoring requirements of the Safe Drinking Water Act.

D. Rain Catchments

The Kokee area has an annual rainfall of about 60-78 inches and would be ideal for rain catchments as a source of drinking water. However, during periods of low rainfall, the water demand of Kokee State Park cannot be met. The past dry weather periods have caused a prolonged drought in the Kokee area, which prompted water restrictions on the users of the water system. The only reliable water source is potable groundwater.

E. Water Conservation

Conservation efforts will play a key role in helping to reduce the demand for the existing groundwater supplies. Conservation alone, however, cannot be relied upon to meet all of the Kokee State Park's future water needs. Until such time that an alternative source development can reliably and economically supplement existing resources, conservation in conjunction with the development of new water sources will remain the preferred DLNR strategy.

V. AGENCIES CONSULTED – PRE-CONSULTATION LIST

The 14 agencies/organizations that were consulted in the Pre-Consultation phase of this Draft Environmental Assessment (DEA) are listed below:

- U.S. Army Corps of Engineers, Engineering District, Honolulu
- Department of Land and Natural Resources, Land Division
- Department of Land and Natural Resources, Historic Preservation Division
- Office of Hawaiian Affairs – Honolulu
- Office of Hawaiian Affairs – Kauai
- Department of Health, Environmental Planning Office
- USDA Natural Resources Conservation Service
- Department of Hawaiian Home Lands, Hawaiian Homes Commission
- University of Hawaii at Manoa, Water Resources Research Center
- University of Hawaii at Manoa, Environmental Center
- Department of the Interior, Fish & Wildlife Services
- County of Kauai – Planning Department
- County of Kauai – Department of Water
- County of Kauai – Public Works Department

A complete table of contact information has been provided in Appendix 4. The following fourteen agencies/organizations provided written responses and/or comments on the Pre-Assessment Consultation. The written comments and responses are presented in Appendix 5.

- U.S. Army Corps of Engineers, Engineering District, Honolulu (Dated April 12, 2004)
- Department of Land and Natural Resources, Land Division (Dated April 26, 2004)
 - Division of Aquatic Resources
 - Division of Forestry and Wildlife
 - Division of State Parks
 - Commission on Water Resource Management
 - Engineering Division
 - Office of Conservation and Coastal Lands
 - Land – Kauai District Land Office
- Department of Land and Natural Resources, Historic Preservation Division (Dated April 26, 2004)
- Office of Hawaiian Affairs – Honolulu (Dated April 12, 2004)

- Department of Health, Environmental Planning Office (Dated April 6, 2004)
- Department of Hawaiian Home Lands (Dated April 6, 2004)
- County of Kauai – Department of Water (Dated April 12, 2004)

**VI. AGENCIES CONSULTED – DRAFT ENVIRONMENTAL ASSESSEMNT-
CONSULTATION LIST**

The 21 agencies/organizations that were consulted in the Draft Environmental Assessment (EA) are listed below:

- U.S. Army Corps of Engineers, Engineering District, Honolulu
- Department of Land and Natural Resources, Land Division
- Department of Land and Natural Resources, Historic Preservation Division
- Department of Land and Natural Resources, Division of Aquatic Resources
- Department of Land and Natural Resources, Division of Forestry and Wildlife
- Department of Land and Natural Resources, Division of State Parks
- Department of Land and Natural Resources, Commission on Water Resource Management
- Department of Land and Natural Resources, Engineering Division
- Department of Land and Natural Resources, Office of Conservation and Coastal Lands
- Office of Hawaiian Affairs – Honolulu
- Office of Hawaiian Affairs – Kauai
- Department of Health, Environmental Planning Office
- Office of Environmental Quality Control
- USDA Natural Resources Conservation Service
- Department of Hawaiian Home Lands, Hawaiian Homes Commission
- University of Hawaii at Manoa, Water Resources Research Center
- University of Hawaii at Manoa, Environmental Center
- Department of the Interior, Fish & Wildlife Services
- County of Kauai – Planning Department
- County of Kauai – Department of Water
- County of Kauai – Public Works Department

A complete table of contact information has been provided in Appendix 6. The following ten (10) agencies/organizations provided written responses and/or comments during the Draft Environmental Assessment Consultation. The written comments and responses are presented in Appendix 7.

- Department of Land and Natural Resources:
 - Land Division (Dated June 1, 2004)
 - Division of Forestry and Wildlife (Dated May 12, 2004)
 - Commission on Water Resource Management (Dated May 11, 2004)
 - Land – Kauai District Land Office (Dated May 11, 2004)
 - Historic Preservation Division (Dated June 4, 2004)
 - Division of Aquatic Resources (Date June 23, 2004)
- Office of Environmental Quality Control (Dated June 21, 2004)
- Department of Health, Environmental Planning Office (Dated May 28, 2004)

- Department of Hawaiian Home Lands (Dated May 26, 2004)
- County of Kauai – Department of Water (Dated May 18, 2004)

VII. DETERMINATION, FINDINGS AND REASONS FOR SUPPORTING DETERMINATION

Significance Criteria

According to the Department of Health Rules (11-200-12), an applicant or agency must determine whether an action may have significant impact on the environment including all phases of the project, its expected consequences both primary and secondary, its cumulative impact with other projects, and its short and long-term effects. In making the determination, the Rules establish "Significant Criteria" to be used as a basis for identifying whether significant environmental impact will occur. According to the Rules, an action shall be determined to have a significant impact on the environment, if it meets any one of the following criteria:

- (1) **Involves an irrevocable commitment to loss or destruction of any natural or cultural resources:**

The proposed project will not significantly impact the natural or cultural resources in the area. The sites are located near existing dirt roads that have been previously developed. The sites are selected for drilling exploratory wells to determine adequate yield and quality for future water demands.

As previously noted, no significant archaeological or historical sites are known to exist according to the "Archaeological Assessment – Proposed Exploratory Wells Kokee State Park", dated May, 2004. Should any significant artifacts, bones, or other indicators of previous on-site activity be uncovered during construction, as a standard measure, the construction contract will include provisions for the contractor to halt construction and contact the State Historic Preservation Division.

- (2) **Curtails the range of beneficial uses of the environment:**

The proposed site is located near developed areas of Kokee State Park and will have no impact on the overall environment of the park. The close proximity to the existing water distribution system, and nearby overhead electrical lines, makes these good sites for the proposed project.

- (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 proposed development is consistent with the Environmental Policies established in Chapter 344, HRS and the National Environmental Policy Act. The drilling of the wells are consistent with the long range plans to meet the water demand of Kokee State Park.

(4) Substantially affects the economic or social welfare of the community or state:

The proposed project is part of the ongoing plan for providing an adequate water supply for Kokee State Park. Current water demand for the park is being met with an aging water system. The proposed project is part of the plan to provide additional water supply. The proposed project will help to maintain the economic viability of the recreation area as a popular visitor attraction.

(5) Substantially affects public health:

The proposed project will be performed in accordance with all federal, state, or local regulations to ensure the protection of humans and the environment. Impacts to the public health may be affected by air, noise, and water quality impacts. However, these impacts will be temporary, insignificant, or not detectable; especially when weighed against the positive implication associated with this project.

(6) Involves substantial secondary impacts, such as population changes or effects on public facilities:

The proposed project will not in itself generate new population growth, and will help to provide a much-needed reliable source of water for the park.

(7) Involves substantial degradation of environmental quality:

The proposed project will utilize an undeveloped parcel of land and will not impact the present or future use of the park. Once drilling and testing of the wells is completed, the surrounding environment will be restored.

(8) Is individually limited, but cumulatively has considerable effect on the environment, or involves a commitment for larger actions:

Impacts during the construction of the project are expected to be temporary and insignificant. If the well test results prove positive, the State would move to develop the well(s) by installing pumps. This further action would be evaluated via another EA for the well development.

(9) Substantially affects a rare, threatened or endangered species or its habitat:

No known endangered or threatened species of plant or animal are known to inhabit the project areas. The project areas in question are in areas that have previously faced disturbance during the construction of the dirt road and existing water infrastructure.

(10) Detrimentially affects air or water quality or ambient noise levels:

Temporary impacts to air, water, and noise levels are expected during construction. Dust, erosion, sediment, and noise control provisions will be included in the contact provisions.

(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, freshwater, or coastal waters:

There are no known environmentally sensitive areas associated with the proposed project sites. The physical character of the area is near existing dirt roads, which have been previously disturbed during development.

(12) Substantially affects scenic vistas and view planes identified in county or state plans or studies:

Once constructed, the well will not pose any threat to existing scenic vistas and view planes.

(13) Requires substantial energy consumption:

Energy in the form of gasoline, diesel fuel, and electricity will be consumed during construction. This consumption will be small and temporary.

The proposed action to construct exploratory wells is by far the best and most cost-effective solution to meet the future water demands for the Kokee State Park. The exploratory wells will provide valuable information on future development of a water source for the Kokee State Park. If the wells are proposed for development, the water quality and quantity information will be incorporated into another separate Environment Assessment for the future well development. This project, if successful as planned, will provide the State with the necessary data to continue development of these potential sources of water. Any adverse impacts of the proposed project have been determined to be insignificant. The applicant will comply with applicable statutes, ordinances, and rules of the Federal, State, and County governments during the implementation of the actual drilling phase.

VIII. REFERENCES

- Department of Geography, University of Hawaii at Hilo, Atlas of Hawaii, Third Edition, University of Hawaii Press, 1998.
- Department of Land and Natural Resources, State of Hawaii, Final Environmental Assessment for Job No. 93-KP-B7, Kokee Exploratory Well No. 0739-03 Development, Kokee, Kauai, September 1999.
- MacDonald, Davis and Cox, Bulletin 13, Geology and Ground-Water Resources of the Island of Kauai, Hawaii, 1960.

- U.S. Department of Agriculture, Soil Conservation Service, University of Hawaii Agricultural Experiment Station, Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii, August 1972.
- Commission of Water Resource Management, Department of Land and Natural Resources, State of Hawaii, State Water Projects Plan, Hawaii Water Plan, Volume 3, SWPP for Island of Kauai, February 2003.
- State Land Use District, Island of Kauai, Hawaii Statewide GIS Program.
- State Department of Health, Sanitary Survey Report for Kokee State Park Public Water System No. 425, September 2003.
- R.M. Towill Corporation, Final Background Research and Inventory Assessment Report, Kokee and Waimea Canyon State Park Master Plan and Environmental Impact Statement, July 2003.
- R.M. Towill Corporation, Final Facility Assessment Report, Kokee and Waimea Canyon State Park Master Plan and Environmental Impact Statement, 2003.
- Evangeline J. Funk, Ph.D., Botanical Consultants, Botanical Survey Report for Ten Kokee and Waimea Canyon State Park Sites, 2004.
- Reginald E. David, An Assessment of Avian and Terrestrial Mammalian Species Within Various Developed Areas in Kokee and Waimea Canyon State Parks, Kauai, Draft, 2004.

APPENDIX 1

RECEIVED AS FOLLOWS



Looking northward at open area off the road to Camp Sloggett. There is a overhead telephone line along the left side of the road. To the left of photo is a road intersection and at the right edge of the photo is the no-name stream that drains Waineke Swamp. Crosses under the road from right to left.

**PROPOSED KOKEE-WAINEKE EXPLORATORY WELL SITE
SITE PHOTO**

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
*Kokee-Waieke and Kokee A-1 Exploratory Wells, Kauai
Final Environmental Assessment*

Appendix 1A

RECEIVED AS FOLLOWS



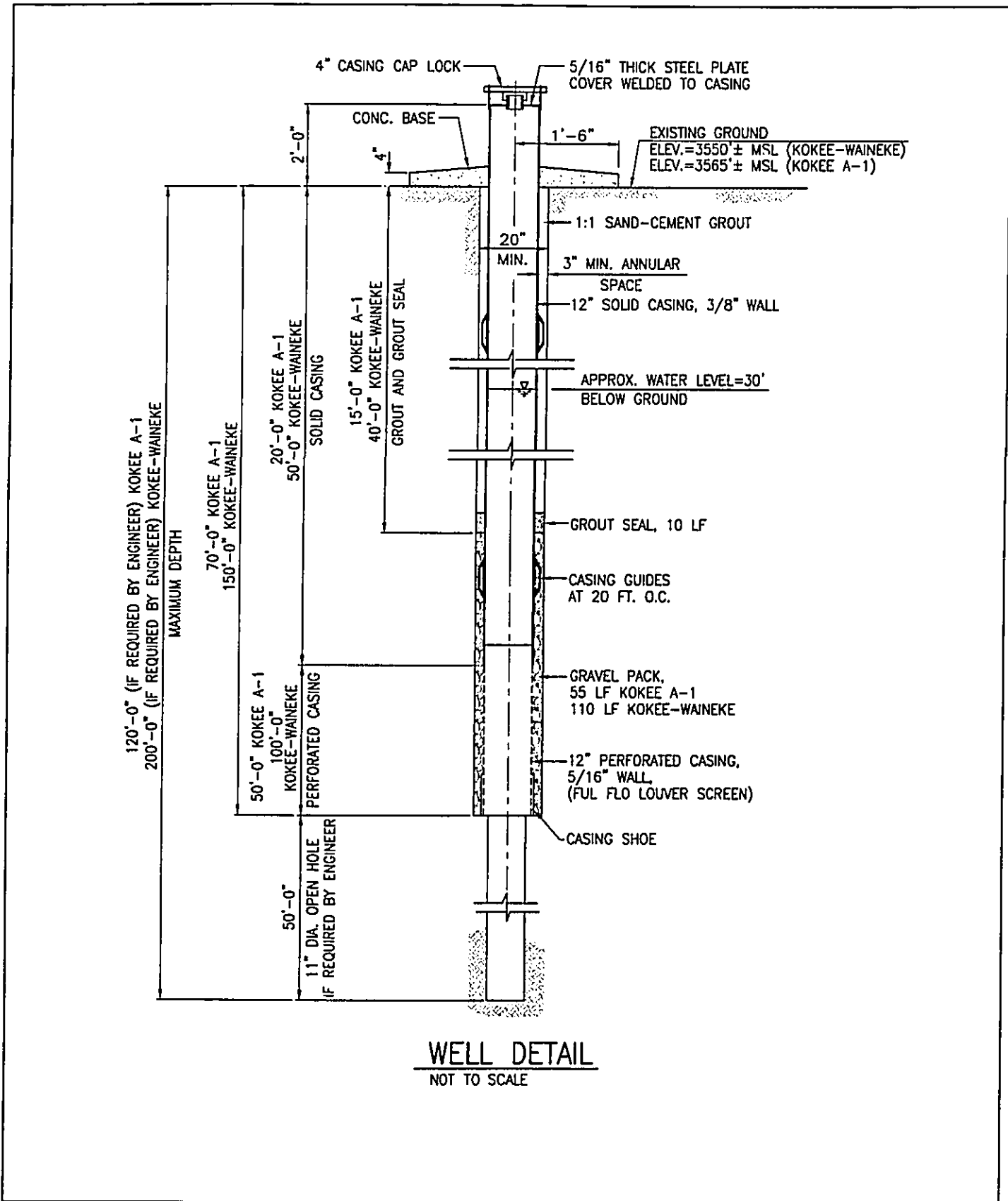
Well site is located in center of photo on the right side of the road. The site is narrow, 20± feet, and on top of the stream bank which drops off to Elekenimui Stream in back of vegetation and trees, similar to Well A (chain-link fence on right edge of photo). Site is an estimated 50± feet from Well A.

**PROPOSED KOKEE A-1 EXPLORATORY WELL SITE
SITE PHOTO**

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
*Kokee-Wainke and Kokee A-1 Exploratory Wells, Kauai
Final Environmental Assessment*

Appendix 1B

APPENDIX 2



APPENDIX 3

LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

DIVISION OF STATE PARKS
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

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

May 14, 2004

MEMORANDUM:

TO: Holly McEldowney, Acting Administrator
Historic Preservation Division

ATTN: Sara Collins, Archaeology Branch Chief

FROM: Daniel Quinn, State Parks Administrator *Daniel Quinn*

SUBJECT: Archaeological Assessment for Exploratory Wells
Kōke'e State Park, Waimea District, Kaua'i
TMK: 1-4-01: por. 13 and 1-4-04: por. 29

Enclosed is an archaeological assessment for the drilling and testing of three proposed well sites within Kōke'e State Park. The assessment was conducted by State Parks archaeologist Martha Yent on May 5, 2004 for the Engineering Division of DLNR. She was accompanied by Nancy McMahan, Kaua'i Staff Archaeologist with SHPD.

The survey did not locate any archaeological sites at any of the three well sites. Therefore, we believe that this project will have no adverse impact on any historic sites. This assessment will be incorporated into the Final Environmental Assessment for the project.

A copy of the assessment has been forwarded directly to Nancy McMahan on Kaua'i.

cc: Nancy McMahan, SHPD-Kaua'i
Carty Chang, Engineering Division
Wayne Souza, Kaua'i District Parks Superintendent

04 MAY 17 PM 1:14 ENGINEERING

ARCHAEOLOGICAL ASSESSMENT

PROPOSED EXPLORATORY WELLS KŌKE'E STATE PARK WAIMEA, KAUA'I

(TMK: 1-4-01: por. 13 and 1-4-04: por. 29)



State of Hawai'i
Department of Land & Natural Resources
Division of State Parks

ARCHAEOLOGICAL ASSESSMENT

PROPOSED EXPLORATORY WELLS
KŌKE'E STATE PARK
WAIMEA, KAUA'I
(TMK: 1-4-01: por. 13 and 1-4-04: por. 29)

Prepared by:
Martha Yent, M.A.
Department of Land and Natural Resources
Division of State Parks

May, 2004

INTRODUCTION

Kōke'e State Park consists of 4,345 acres located in the northern uplands of Kaua'i. The park is located within both the Waimea and Hanalei districts. The valleys of Nā Pali, including Nā Pali Coast State Park, abut the northern boundary of Kōke'e State Park. Waimea Canyon, including Waimea Canyon State Park, abuts the southern boundary (Fig. 1). Much of the Kōke'e State Park is situated on the forested plateau that rises to 4,000 feet above sea level. The Alaka'i Swamp, an excellent example of a native Hawaiian forest environment, encompasses much of the northeastern end of this plateau. The park is surrounded by forest reserves with the Pu'u Ka Pele Forest Reserve to the west and the Nā Pali-Kona Forest Reserve along the other 3 sides of the park.

Existing Park Conditions

The central park area, comprised of the park headquarters, museum, and lodge, is located at the western end of Kaunuohua Ridge at an elevation of 3,880 feet above sea level. The park is accessed by Highway 550 which originates in Waimea Town and runs upslope along the western side of Waimea Canyon. Besides the central area, the park consists of numerous hiking trails and the lookouts at Kalalau Valley and Pu'u o Kila.

The built environment in the central portion of Kōke'e State Park is centered around Kanaloahuluhulu Meadow and encompasses an area of approximately 50 acres. This built environment includes the following sites (Fig. 2):

- Kōke'e Natural History Museum. This wooden structure was moved to its present location from the former Army Camp at Kaunuohua Ridge in the 1950s when the Army Camp was dismantled. Museum was officially opened in 1953.
- Kōke'e Lodge. This wooden structure adjacent to the Museum houses the restaurant and gift shop. This structure was built in the 1950s with wood from the former Kōke'e Army Camp. This is a concession-operated facility.
- Park Headquarters. A small wooden building at the western end of Kanaloahuluhulu Meadow. This structure was built circa 1954 for park purposes and is currently used as office space for Kōke'e State Park personnel.
- Rental Cabins. Series of 10 wooden cabins along the western side of Highway 550 and just south of the park headquarters. These cabins are part of the concession lease and are made available for visitor rental. These cabins were built in the 1950s.
- Civilian Conservation Corps (CCC) Camp. At present, the main complex consists of 7 wooden buildings around the grassed quadrangle. Outlying this central complex are the ranger's cabin and a group of buildings related to vehicle storage and maintenance. The State Parks maintenance crew utilizes these maintenance structures, including several that post-date the CCC Camp. Kōke'e Natural History Museum is utilizing 3 of the wooden buildings for office space, living quarters for visiting researchers, and a dining hall while State Parks uses the former foreman's cabin for staff and volunteers working in the park.

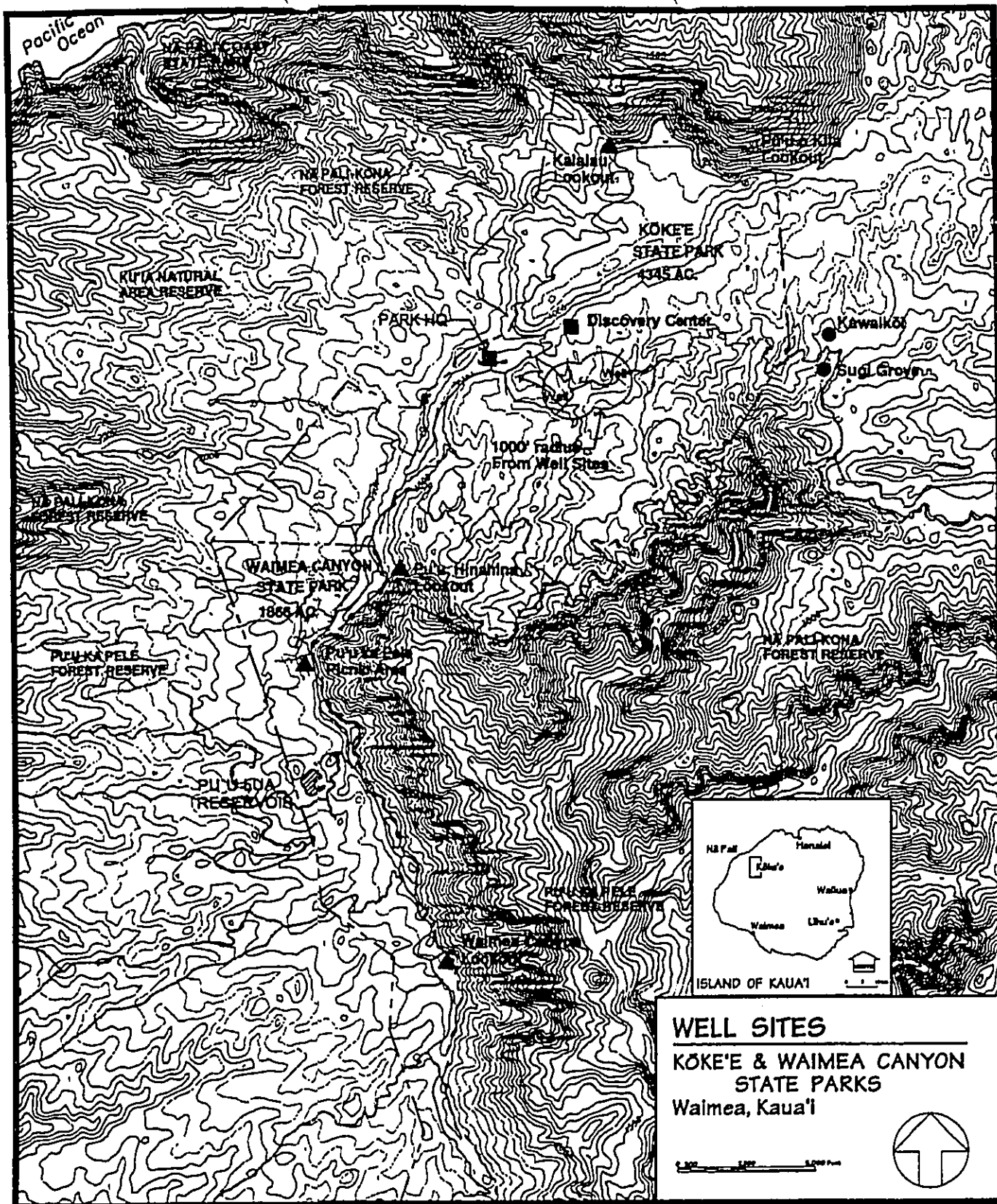


FIG. 1 - Location of Kōke'e State Park and project area for existing and proposed well sites.

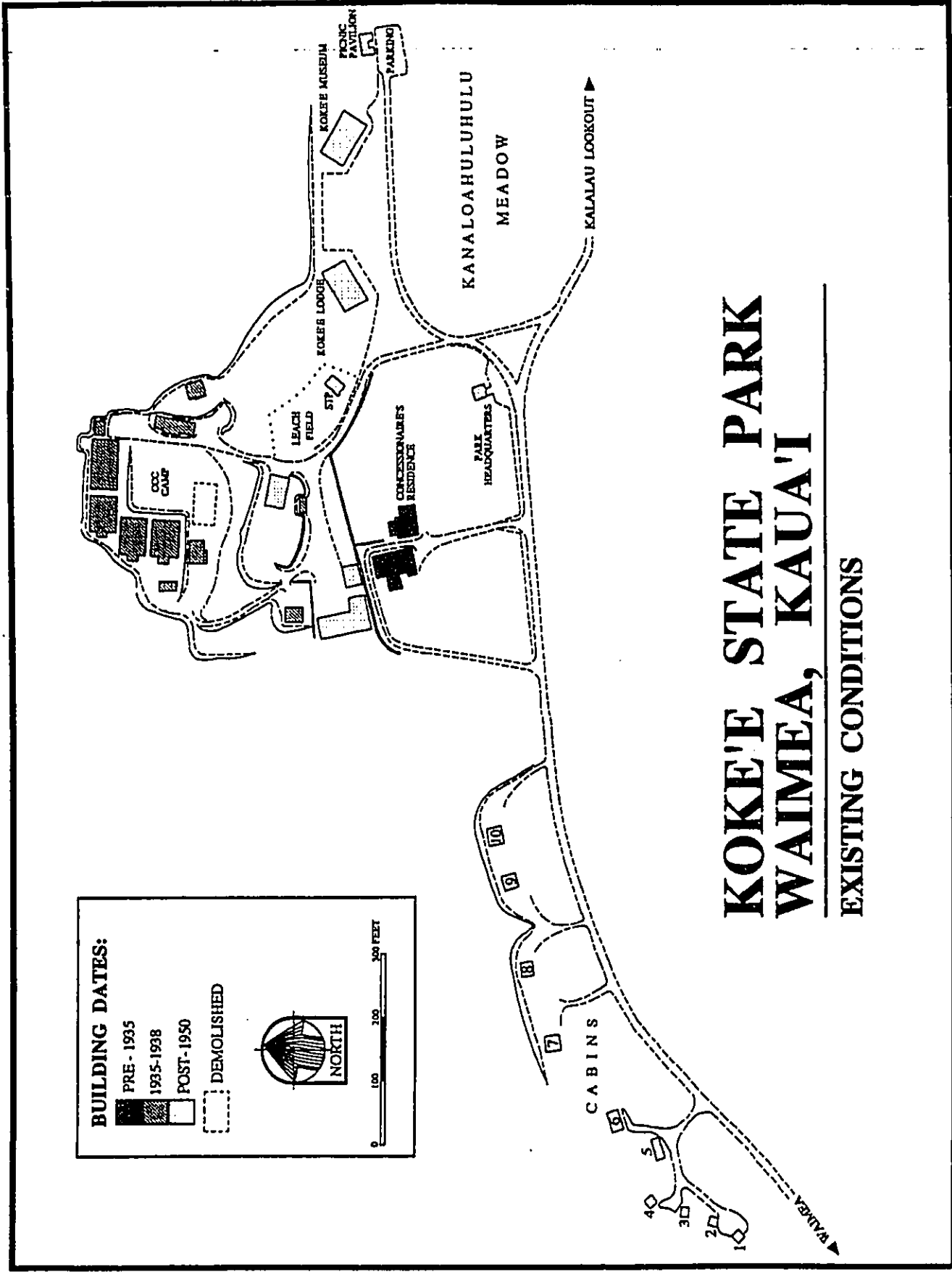


FIG. 2 - Developed portion of Kōke'e State Park, including recreational cabin lots and park facilities.

- Ranger's Cabin. This building was constructed in the early 1930s and pre-dates the CCC camp facility. However, the building is included in the 1938 map of the camp and is labelled Ranger's Cabin. This building now serves as the concessionaire's residence and is located between the cabins and the Kōke'e Lodge.
- Kanaloahuluhulu Meadow. Tent-camping, a picnic pavilion, and a comfort station are located along the north and eastern sides of this large grassed meadow. The ground surface of this meadow is water-logged and maintained as open space.
- Sewage Treatment Plant and Leach Field. Constructed in 1993, this facility is located between the CCC camp and the Kōke'e Lodge. It services the facilities alongside Kanaloahuluhulu Meadow.

Also located within Kōke'e and Waimea Canyon State Parks are approximately 110 recreational cabins, some of which were built as early as the 1930s. These recreational cabins can be divided into 3 groupings: Pu'u Ka Pele Lots within Waimea Canyon State Park, and Halemanu and the Kōke'e Campsites within Kōke'e State Park. These recreational cabins are on 20-year leases that terminate in 2006.

Project Description and Location

There are three existing wells in the Kōke'e Campsite Lots of Kōke'e State Park to provide water to the recreational cabins, park facilities, and several federal installations (Fig. 3). These wells take water from the Waimea aquifer, but are located adjacent to the four (4) streams in the area: Waineke, Noe, Elekiniiki, and Elekininui. Elekiniiki and Elekininui converge to create Kōke'e Stream into which Noe and Waineke Steams converge further downstream.

From these wells, the water is pumped to the Kōke'e Tank and then distributed within the park. The existing three wells are referred to as Well A, Well B, and Noe Well. Noe Well is located adjacent to Noe Stream and alongside the road that connects Waineke Road and Mohihi Road. Well A is alongside Mohihi Road to the east of the historic cabins known as the Rice Lots. Well B is on Kōke'e Stream above the confluence with Waineke Stream. Well B includes a pumphouse structure and concrete dam.

The well sites are located along dirt roads within the Kōke'e Campsite Lots that access the leased recreational cabin lots. The southern road is Waineke Road that runs alongside Waineke Stream from Kōke'e Road to Camp Sloggett (YMCA Camp). Mohihi Road is to the north and runs from to Sugi Grove. There is an unnamed road to the west of Kōke'e Stream that connects Waineke and Mohihi Roads.

To accommodate the growing need for potable water for the recreational cabins and facilities in Kōke'e and Waimea Canyon State Parks, it is proposed that two new exploratory wells be drilled and tested. The locations for these two well sites and an optional third site are near the existing wells within Kōke'e State Park (TMK: 1-4-01: 13) (Fig. 3).

Site 1 - Also referred to as the Kōke'e-Waieke exploratory well, this site is on the east side of Waieke Road and within a vacant lot (TMK: 1-4-04: 29). The site is

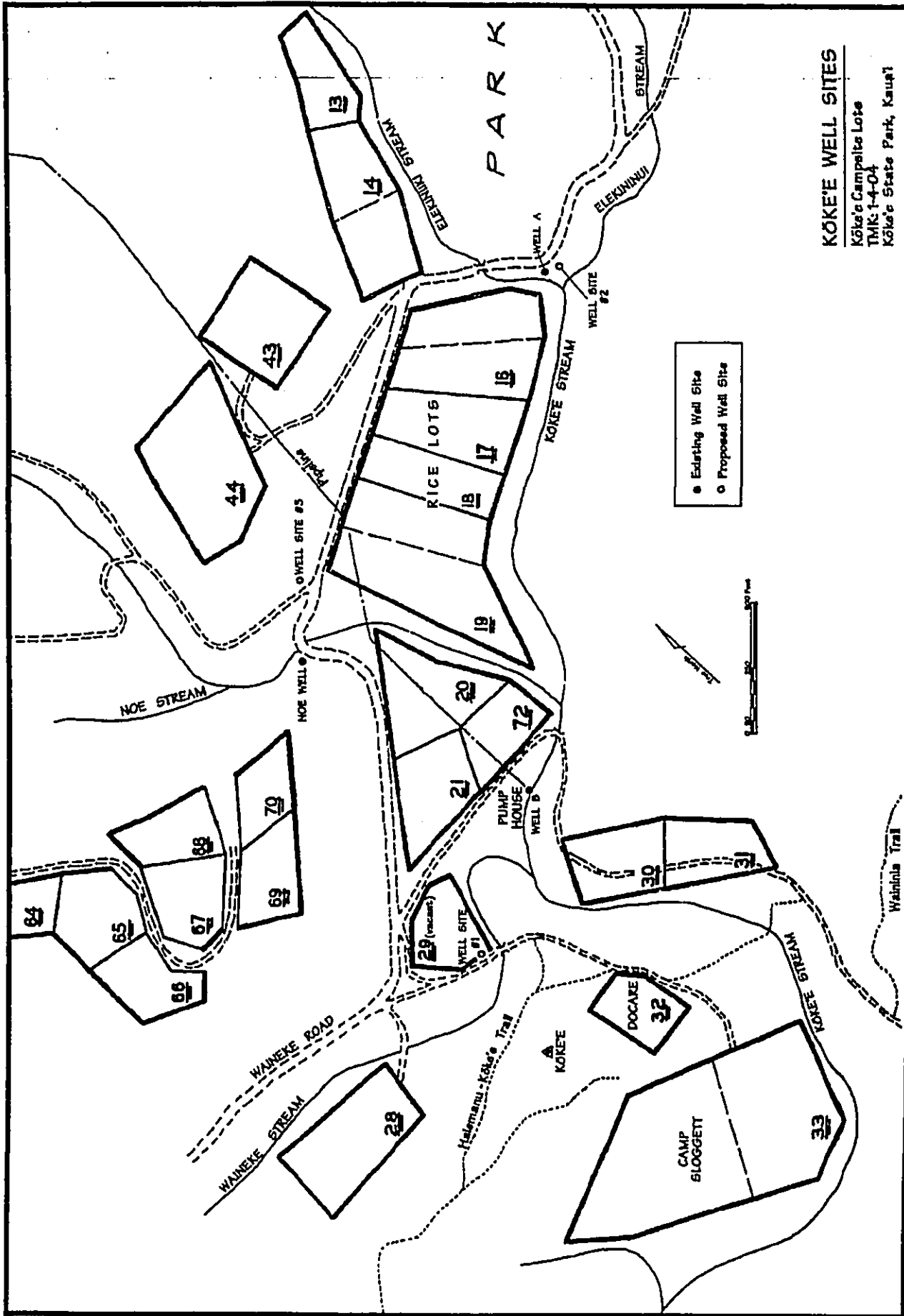


FIG. 3 - Location of existing and proposed well sites within Kōke'e Campsite Lots portion of Kōke'e State Park (Tax Map Key 1-4-01; por. 13 and 1-4-04).

around 200 feet past the intersection of Waineke Road and the unnamed road connecting to Mohihi Road, approximately 1,000 feet south of Noe Well, and about 75 feet north of the former Forester's cabin now used by DOCARE. The project site measures around 20 meters (N-S) by 10 meters (E-W). The perimeter of the proposed well site #1 is defined by 'ōhi'a and koa trees with blackberry, ginger, and high grasses dominating the project site (Photo I). The project site is about 2 feet above the level of the roadbed and approximately 40 feet north of where Waineke Road crosses Waineke Stream.

Site 2 - This site is on the south side of Mohihi Road, just east of Well A. The project site is adjacent to the shoulder of the dirt road (Photo II). The project area measures about 40 feet by 10 feet with a dense cover of ginger. The project site drops off steeply on the south side which corresponds to the streambank above the confluence of Elekeniiki and Elekeninui Streams.

Site 3 - A site across Mohihi Road and about 250 feet north of Noe Well was identified as a third optional site. This site is on a raised bluff about 3 feet above the roadbed with a dense cover of ginger and scattered eucalyptus trees.

Existing Environmental Conditions

The project area is located between Kaunuohua Ridge (west) and Kumuwela Ridge (east). The soil in this central park area falls is part of the Kōke'e silty clay loam series. These soils are well-drained and developed in material weathered from igneous rock mixed with volcanic ash (Foote et. al. 1972). Rainfall averages 60-70 inches annually. The natural vegetation adjacent to the built environment consists of a stand of mesic forest dominated by 'ōhi'a lehua and koa. The contact between the forest and the developed area is marked by a band of exotics that includes lasiandra (*Tibouchina urvilleana*), ginger (*Hedychium flavescens*), banana poka (*Passiflora mollisima*), hydrangea (*Hydrangea macrophylla*), blackberry (*Rubus argutus*), and strawberry guava (*Psidium cattleianum*).

HISTORICAL OVERVIEW

It appears likely that the upland area of Kōke'e and the Alaka'i Swamp were utilized in the pre-contact period as resource gathering zones, rather than areas of permanent habitation or agriculture. Several legends suggest this use. One attributes the road of sticks through the Alaka'i Swamp to the *menehune* (Rice 1923). Another refers to Lahi (or Lauhaka), a young man who would eat only birds, and traveled to the top of Kilohana (a lookout at the edge of the Alaka'i Swamp) where the *Uwa'u* bird nested to satisfy his hunger (ibid). Pu'u Ka Pele is referred to as an area for gathering *koa* canoe logs and other building materials:

At one time the Menehune built two canoes of koa in the mountains near Puu-ka-Pele. As they were dragging them down to the lowlands, they were caught by a heavy rain-storm, and were forced to leave the canoes across the little valley. The storm covered the canoes with debris, and later, a road was built across them, over which all the materials to build the village of Waimea were hauled (ibid).

RECEIVED AS FOLLOWS



PHOTO I

Proposed Well Site #1 adjacent to Waineke Road and just north of Waineke Stream.
View is to the east with Waineke Road in foreground.



PHOTO II

Proposed Well Site #2 adjacent to Mohihi Road and just east of Well A.
View is to the east with existing Well A within fence to the right.

Further evidence for the gathering of canoe logs from the uplands comes from the narrative of the Dutch merchant Captain Jacobus Boelen, who visited Waimea in 1828. While his ship was being loaded with sandalwood, he spent some time exploring the region and included the following observation:

On that day we visited Quequaheva's [Kaikio'ewa's] shipyard, which consisted of large sheds where the largest and most beautiful canoes that can be found in the islands were made. We were assured that the island of Atooi [Kauai] had always been the principal workshop of the islands in these matters. Under one very neatly made roof I saw two of the largest double canoes I have ever seen . . . Long, narrow, and lightly built, although of a strong and heavy type of wood [*koa*], they have only a shallow draught. . . some of these vessels - especially those double canoes of the largest sort, which the highest chiefs use - are up to seventy or eighty feet long . . . (Broeze 1988).

It is apparent from this description that *koa* trees of exceptional size were being harvested in the uplands, where they were partially worked to lessen their weight prior to transport to the coast.

Handy does not specifically mention Kōke'e with respect to Hawaiian agriculture, although he does state that "the upper gulches and forests in and above Waimea Canyon should be favorable localities for yams" (Handy 1940: 171). He also mentions that boggy areas in the uplands were utilized for the cultivation of *olonā*.

There are trails recorded which ran from the valleys of Nā Pali to Kōke'e and Waimea Canyon. Bennett (1931) recorded several trails connecting different areas of Nā Pali coast with the uplands. A network of upland and coastal trails is recorded in the following:

More anciently the old Hawaiians used a number of overland trails. The Kamaile trail descended into Nu'ulolo [Nu'alolo] Valley inland. There was a trail connecting Nu'ulolo with Honopu. A good trail overland connects Kalalau with Ha'ena. There is a trail from Koke'e in the mountains above Kekaha down into Kalalau. From Polihale travelers could go on foot, with a little swimming, to Miloli'i, and a trail connected Miloli'i with Nu'ulolo flats. Another trail connects Miloli'i with Koke'e. And there was the path (*ala*), said to have been built by King 'Ola, that led from Waimea Delta up the canyon to Koke'e, over the Alaka'i Swamp, where it was said to have been paved with sticks (*kipapa*), and thence down Maunahina ridge into Wainiha by way of Koke'e. (Handy and Handy, 1972)

This trail system suggests a connection between the north and south sides of the island, although whether the trails facilitated trade or simply travel between the two areas is not known. It can be assumed that the upland forests were utilized as resource gathering zones for such items as hardwoods, bird feathers, and medicinal plants, as well as freshwater resources such as *o'opu* and *opae*. Undoubtedly a substantial trail existed between the upper Waimea Canyon and Waimea Village to facilitate the transport of large canoe logs.

The Reverend Hiram Bingham traveled from Waimea to Hanalei in 1821 along the old established route passing through Kōke'e. The trail consisted of a "narrow, winding, slippery foot-path, sometimes on sharp ridges, here ascending and there descending rugged steep" (Bingham, 1981). He described the uplands as being uninhabited but

mentioned several temporary shelters along the way which he attributed to sandalwood cutters and reported abundant sandalwood forests still in existence at that time.

Queen Emma, in 1871, made a trek from Waimea to the "Kilohana of Hanalei", at the edge of Wainiha Valley. A party of about 100 people accompanied the queen, along a route which again likely followed the old trail. At that time the trail was very overgrown but still recognizable. Among the more interesting anecdotes of the trip was a stop the party made on the edge of Kauaikinana Valley where Queen Emma, overcome by the beauty of the spot, insisted upon a *hula* performance. The trip then continued through the Alaka'i Swamp where the party spent the night. The trail through the swamp was described as a "corduroy road", built of tree-fern logs placed side by side. They reached the Kilohana the next morning and then retraced their steps to Waimea (Knudsen 1940).

The sandalwood trade dominated the Kaua'i economy in the early nineteenth century. Beginning in 1810 and reaching a peak in 1821-22, commoners were forced to leave their taro fields and head into the mountains to cut the precious wood. The resource was controlled by King Kaumuali'i, who exchanged the commodity for ships and other western luxuries. Unfortunately, this took a great toll upon the people as well as the sandalwood forests, which were all but depleted by the mid-1830's. Waimea was the sole port of export on Kaua'i for the wood, which came almost exclusively from the upland gulches of Waimea Canyon and Kōke'e (Joesting 1984).

Valdemar Knudsen obtained a lease to much of the present day Kōke'e State Park in the mid-1800's. He used the land to run cattle, which provided beef to provision the whaling vessels. The cattle industry on Kaua'i diminished greatly by 1900 due to the decline of the whaling business (Joesting 1984). Also in the early 1850s, Mr. Archer built the first house in Kōke'e at Halemanu. Mr. Archer travelled through Kōke'e in transit between his tobacco farms in Hanalei and Mana (Damon 1931: 292).

The decline of cattle overlapped with the onset of the sugar industry. Beginning in the late 1800's and continuing into early this century, an irrigation system known as the Waimea Canyon-Kekaha ditch tapped the upland streams to irrigate the cane lands on the west side of the island. In 1923, the Kōke'e Ditch was built by Kekaha Sugar as part of this larger system. The Kōke'e Ditch captures water from streams in the Kōke'e area (Wilcox, 1984). In conjunction with this development, plantation camps were constructed in the uplands to house the Chinese and Japanese workers who built and maintained the ditch system.

Land use in Kōke'e during the 20th Century consists mainly of recreational and military activities (Heathcote 1993). Wealthy sugar plantation owners built vacation cabins in Kōke'e to escape the summer heat of the lowland plains. Hunters travelled on horseback to the uplands in search of pigs and goats. In 1929, there was an effort to establish forest reserves to encourage the recovery of the native forests after the range fire of 1890 (Wenkam 1967: 102). This met with objections from the ranchers of Kōke'e, but was supported by the public seeking recreational opportunities in the mountains. In 1930, 755 acres were designated the Waimea Canyon Territorial Park, but it was not until 1952 that Kōke'e Territorial Park was designated when 4,451 acres were removed

from the Nā Pali-Kona Forest Reserve for park purposes. At this time, these parks were under the jurisdiction of the Board of Agriculture and Forestry.

The Civilian Conservation Corps (CCC) facility at Kōke'e was constructed in 1935 and a large network of trails was built and existing trails were refurbished by the CCC following the Great Depression. During World War II, the CCC Camp was used by Army's Signal Corps while laying a telephone line through the Alaka'i Swamp and down to Hanalei. In 1940, the Army also constructed a support camp for their a radar station at Kōke'e in the vicinity of the Kalalau Lookout. This camp consisted of one concrete administrative building, several wooden buildings, numerous tents, a motor pool, and an extensive garden (Plews 1995). The radar station was returned to the Territory of Hawaii in 1949.

In the 1940's, the road to Kōke'e was improved, and the lookouts at Waimea Canyon and Kalalau were constructed. The Army camp was dismantled in the early 1950s and the wooden buildings were relocated or dismantled to create many of the buildings for Kōke'e State Park. One building is now the Kōke'e Museum while wood from other buildings was used to construct the Kōke'e Lodge and four park cabins. Between 1947 and 1953, much of Kōke'e State Park was built, including the Kalalau Lookout and the Waimea Canyon Lookout (DLNR 1962: 38).

The last major developments in Kōke'e were in the 1960's with the establishment of a Hawaii Air National Guard installation and a NASA tracking station was constructed as part of the National Space Program. The Air National Guard (Air Force) has operated its radar tracking facility on the former site of the Army radar station since 1961 (Dept. of the Air Force 1995). This use of recreational areas for military purposes was controversial when these activities were first proposed at Kōke'e (Wenkam 1967: 118-119).

PREVIOUS ARCHAEOLOGICAL SURVEYS

Archaeological surveys in the Kōke'e and Waimea Canyon State Parks have been limited in number and scope. As a result, few archaeological sites are recorded in the Kōke'e area. Kōke'e is generally regarded as a resource gathering zone rather than an area of permanent habitation which implies that few archaeological sites will be found. The previous archaeological surveys are summarized below and the location of the inventoried sites is shown in Figure 4.

The 1906 survey of *heiau* sites by Thomas Thrum identified 2 sites in Kōke'e:

Ahuloulu Heiau: Located at the base of Puukapele, this site consists of 3 platforms. The central platform is described as an enclosure measuring 12 by 30 feet with walls about 3 feet high but badly dilapidated. Thrum states that "no special significance seems to be attached to this so-called heiau".

Ka-unu-aiea Shrine: Small shrine in the dense *koa* forest of Miloli'i but there is no platform left to indicate its existence. Thrum states that this shrine is located on Kaunuohua Ridge and it may have been located in the

RECEIVED AS FOLLOWS



FIG. 4 - Distribution of known archaeological sites within Kōke'e.

area of the NASA tracking station. Thrum classifies the shrine as an *unu* for the shifting population of the forest belt. When Bennett recorded this site in 1928-29, he called it a *heiau* and described it as a small clearing containing a line of stones forming no outline or platform. He further added that the location is "in the forest above Halemanu".

Bennett recorded 2 additional sites at Pu'u Ka Pele, both being house site complexes (Bennett, 1931: 104). Three site numbers were given to the sites at Pu'u Ka Pele:

- 50-30-01-19: Ahuloulu Heiau. This *heiau* consists of a walled enclosure, the outside dimensions of which are 37 by 41 feet. The walls are 4 feet wide and badly broken. In front of this structure is a flat area about 50 by 50 feet without paving or boundaries. Back of the enclosure there is a paved platform 8 by 12 feet. This platform is backed by a large rock, the plugged-up holes in which indicate that it might have been used as a *depository for umbilical cords*.
- 50-30-01-20: House sites around the crater of Pu'ukapele. The remains of 7 house sites are indicated by stones in line forming a terrace with a flat space behind. Some of these house sites measure 30 by 20 feet.
- 50-30-01-21: House sites toward the sea from Pu'ukapele on the north side of the road. A series of house sites are located on top of a flat ridge, the edge of which is lined with stones for 50 feet or more.
- 50-30-01-22: Kaumauaiea Heiau.

Francis Ching fieldchecked the sites in 1974 in conjunction with the Statewide Inventory of Historic Places. He relocated sites 19 and 20 and although he suggested that site 21 was probably still present, he could not confirm this because of the dense vegetation. Subsequently, sites 19, 20, and 21 were consolidated under site #19, the Pu'u Ka Pele Complex. The condition of the *heiau* site (#19) was evaluated during a fieldcheck in April, 1995 by State Parks Archaeologist Martha Yent. The site is covered by a dense growth of lantana and *koa haole* with a dense mat of silk oak leaves on the surface.

Brief reconnaissance surveys in the Kōke'e area have been conducted by Ching (1978a, 1978b), Kikuchi (1982), Yent (1982), and Walker and Rosendahl (1990). However, these surveys did not locate any archaeological sites.

In 1993, an archaeological reconnaissance survey was conducted along the ridge roads of Kōke'e prior to widening of these roads as firebreaks after Hurricane Iniki (McMahon 1993). A single archaeological site was recorded at the end of Polihale Ridge (State site #50-30-05-499). This site consists of a 5 meter long stone alignment that may have served as a sweet potato planting area. The general lack of sites recorded during this survey is believed to be the result of the extensive disturbance in the 20th Century from the sugarcane plantations, military activities, and reforestation.

Another 1993 survey involved 3 facilities in the Kōke'e and Waimea uplands (Dowden and Rosendahl 1993). No sites were located at the Pacific Missile Range - Makaha Ridge Facility, the Halemanu section of the Pacific Missile Range - Kōke'e Facility, or at the Kōke'e Air Force Station and Former NASA site.

Two independent archaeological surveys were conducted in conjunction with the proposed concession facility at the Waimea Canyon Lookout. State Parks archaeologists recorded site #50-30-06-707 during a 1993 survey (Carpenter 1993). This site consists of a single row of stones on 3 sides on a level area about 80 meters southwest of the men's restroom at the lookout. The site is may be a temporary habitation site related to the logging of wood for canoes. The other survey conducted at the lookout involved archaeological testing (Chaffee and Spear 1993). No sites or subsurface cultural deposits were located during this survey.

In December 1993, an archaeological survey was conducted on the *makai* portion of Kahuama'a Flat for a plant sanctuary proposed by DOFAW (Carpenter and Yent 1994). This survey area is on the *makai* side of the Kōke'e Park Road and approximately 1.25 miles northeast of the Army Camp project area. Much of the Kahuama'a survey area consists of extremely steep cliffs at the back of Kalalau Valley. The dense vegetation hampered a thorough survey of the flat portion on the rim of the valley. No archaeological sites were located during this survey.

A survey of the old Army Camp site at Kōke'e was conducted in October 1994 (Yent 1995a). This camp was built in the early 1940s on Kaunuohua Ridge and was dismantled in the 1950s. This camp site is approximately 1.5 miles northeast of the CCC camp site. The Army Camp consisted of 5 major buildings along a dirt roadway off the paved Kōke'e Road with an additional 4 outlying structures. One concrete building remains along with the concrete slabs from 2 other buildings. No subsurface archaeological deposits or features other than those associated with the camp were located during the survey. A similar survey of the CCC Camp was conducted in 1995 (Yent 1995b). This facility consists of 7 wooden buildings around a grassed quadrangle. No subsurface testing has been conducted to determine the presence or absence of cultural deposits at the CCC Camp. The CCC Camp was listed on the Hawai'i and National Registers of Historic Places in 1996.

In 2004, in conjunction with the master planning for Kōke'e and Waimea Canyon State Parks, an archaeological fieldcheck was conducted at 10 sites identified for future park development (Chiogioji et al. 2004). Several of these sites are existing park facilities, such as the lookouts. No significant sites were located at any of the 10 locations.

The archaeological surveys conducted to-date in Kōke'e tend to support the idea that this upland area was used largely as a resource gathering zone with limited habitation. The stone-lined platforms recorded at Pu'u Ka Pele and near the Waimea Canyon Lookout appear to be temporary habitation sites.

() ()

ARCHAEOLOGICAL ASSESSMENT

An archaeological site survey was conducted on May 5, 2004 at the three proposed well sites. The survey did not locate any surface features and no subsurface testing was conducted. However, roadcuts were examined and no cultural deposits were located.

The project area for each of the well sites is relatively small, averaging around 30 by 30 feet. The proposed sites are adjacent to existing dirt roads which means that access roads to the project area are not required. Therefore, impacts from the drilling and testing of these wells will be limited to the project area and adjacent roadways.

Based on these findings, it is felt that the drilling and testing of the exploratory wells within Kōke'e State Park will have "no adverse effect" on any archaeological or cultural resources.

REFERENCES CITED

- Bennett, Wendell C.
1931 The Archaeology of Kauai. Bulletin 80, Bernice P. Bishop Museum, Honolulu.
- Bingham, Hiram
1981 A Residence of Twenty-one Years in the Sandwich Islands. Charles E. Tuttle Co., Rutland, Vermont and Tokyo, Japan.
- Broeze, Frank J. A.
1988 A Merchant's Perspective: Captain Jacobus Boelen's Narrative of his Visit to Hawai'i in 1828. Translated from original Dutch. Hawaiian Historical Society, Honolulu.
- Carpenter, Alan
1993 "Fieldcheck of Archaeological Site, Waimea Canyon Lookout, Waimea Canyon State Park, Kaua'i." Memorandum to State Parks Administrator Ralston Nagata, July 6, 1993. On file at the Division of State Parks, Honolulu.
- Carpenter, Alan and Martha Yent
1994 Archaeological Reconnaissance Survey of a Portion of Kahuama'a Flat, Koke'e State Park, Hanalei District, Island of Kaua'i (TMK: 5-9-01: por. 1 and por. 16). Report prepared for Dept. of Land of Natural and Resources, Division of Forestry and Wildlife by Division of State Parks.
- Chaffee, David B. and Robert L. Spear
1993 An Inventory Survey of a Parcel of Land in the Pu'u Ka Pele Forest Reserve, Waimea Canyon Park, Waimea Ahupua'a, Waimea, Island of Kaua'i (TMK: 1-2-01:4 partial). Scientific Consultant Services, Inc., Kane'ohe.
- Ching, Francis
1974 "Inventory of Historic Sites Records #50-30-01-19 through #50-30-01-22". Forms on file at the Historic Preservation Division, Dept. of Land and Natural Resources.
- 1978a Archaeological Reconnaissance of Kukui Trail, Waimea Canyon State Park, Kona, Kaua'i Island. On file at the Historic Preservation Division, Honolulu.
- 1978b Archaeological Reconnaissance of Proposed Mule Staging Area, Waimea Canyon State Park, Waimea, Kona, Kaua'i. On file at the Historic Preservation Division, Honolulu.
- Damon, Ethel M.
1931 Koamalu: A Story of Pioneers on Kauai and of What They Built in that Island Garden. Honolulu: Privately Printed.

Department of Land and Natural Resources

1962 Annual Report to the Governor: July 1, 1961 to June 30, 1962. Honolulu:
Dept. of Land and Natural Resources.

Department of the Air Force

1995 Memorandum for Distribution from Lt. Col. Randie Strom entitled
"Submission of Final Plans for 15th Air Base Wing (15ABW) Preliminary
Assessment/Site Inspection (PA/SI)". July 28, 1995.

Dowden, Sheryl and Paul Rosendahl

1994 Archaeological Inventory Survey: Mountaintop Sensor Integration and
Test Program Project Area, Land of Waimea, Waimea District, Island of
Kauai (TMK: 4-1-2-01:6; 4-1-4-01:13; 4-5-9-01:16). Paul H. Rosendahl, Inc.,
Hilo.

Foote, D.E., E.L. Hill, S. Nakamura, and F. Stephens

1972 Soil Survey of the Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State
of Hawaii. U.S. Dept. of Agriculture, Soil Conservation Service and
University of Hawaii Agriculture Experiment Station. Government
Printing Office, Washington, D.C.

Handy, E. S. Craighill

1940 The Hawaiian Planter, Volume 1. Bishop Museum Bulletin 161, Bishop
Museum Press, Honolulu.

Handy, E. S. Craighill and Elizabeth

1972 Native Planters in Old Hawaii. Their Life, Lore, and Environment. Bishop
Museum Bulletin 233, Bishop Museum Press, Honolulu.

Heathcote, Sheila

1993 "Kokee: Rich tapestry of fact, fiction, folklore". Article in The Kauai
Times, November 10, 1993.

Jackson, Donald Dale

1994 "They were poor, hungry, and they built to last". In Smithsonian, Vol. 25,
No. 9 (December 1994).

Joesting, Edward

1984 Kauai: the Separate Kingdom. University of Hawaii Press, Honolulu.

Kikuchi, William

1982 Field Inspection of Makaha Ridge, Waimea, Kaua'i. On file at the Historic
Preservation Division, Honolulu.

Klass, Tim

n.d. World War II on Kauai. Prepared by the Westland Foundation for the
Kauai Historical Society. Kauai Historical Society, Lihue.

- Knudsen, Eric
 1940 "Queen Emma Goes to Alakai Swamp." Paper presented to the Kauai Historical Society, May 27, 1940. Reprinted in The Kauai Papers, Kauai Historical Society, Lihue (1991).
- Koke'e Natural History Museum (Hui o Laka)
 1993 Preliminary Master Plan for Renovation of the Old C.C.C. Camp as an Environmental Resource Center for Hawaii and the Pacific at Koke'e State Park, Kaua'i, Hawai'i. Draft, October 1993.
- McMahon, Nancy A.
 1993 Archaeological Reconnaissance Survey for Emergency Watershed Protection along Ridge Roads in the Koke'e Uplands, Koke'e, Waimea District, Island of Kaua'i. Prepared for Dept. of Land and Natural Resources, Division of Forestry and Wildlife.
- Plews, John
 1995 Letter to Timothy Flynn, National Tropical Botanical Garden Regarding Proposed Nursery on the Old Army Camp Site. January 10, 1995. Copy on file with Division of State Parks.
- Rice, William Hyde
 1923 Hawaiian Legends. B. P. Bishop Museum, Bulletin 3, Honolulu.
- Chiogioji, Rodney, David Schidler, Todd Tulchin, and Hallett Hammatt
 2004 Archaeological Field Inspection of Ten Localities within Kōke'e and Waimea Canyon State Parks, Waimea Ahupua'a, Kona (Waimea) District, Island of Kaua'i (TMK: 4-8-01). Report prepared by Cultural Surveys Hawai'i, Inc. for R.M. Towill Corp., Honolulu. Draft report subject to revision.
- Thrum, Thomas G.
 1906 Hawaiian Almanac and Annual for 1907. Thomas G. Thrum, Honolulu.
- Walker, A.T. and P.H. Rosendahl
 1990 Archaeological Inventory Survey USN Radio Telescope Project Area, Land of Waimea, Waimea District, Island of Kauai. On file at the Historic Preservation Division, Honolulu.
- Wenkam, Robert
 1967 Kauai and the Park Country of Hawaii. Sierra Club Publishers.
- Wilcox, Carol
 1984 Irrigation Systems of Hawaii's Sugar Plantations. Report prepared for Dept. of Land and Natural Resources, Historic Preservation Office.

Yent, Martha

- 1982 Archaeological Reconnaissance: Proposed Kokee Hydropower Project, Kokee State Park, Waimea Canyon State Park, and Upper Kekaha, Waimea District, West Kauai. Report prepared for the Dept. of Land and Natural Resources, Division of Water and Land Development, Honolulu.
- 1994 Archaeological Reconnaissance Survey: Kukui Facility Radio Communication Upgrade, Koke'e Air Force Station, Waimea Canyon State Park, Waimea, Kaua'i (TMK: 1-2-01: 9). Report prepared for Dept. of Public Works, County of Kaua'i, Honolulu.
- 1995a Archaeological Survey: Former Army Camp Site, Koke'e State Park, Waimea, Kaua'i (TMK: 1-4-01). Report prepared for Dept. of Land and Natural Resources, Division of Forestry and Wildlife by Division of State Parks, Honolulu.
- 1995b Archaeological Survey: Civilian Conservation Corps (CCC) Camp, Kōke'e State Park, Waimea, Kaua'i (TMK: 1-4-01: 13). Report prepared for Dept. of Land and Natural Resources, Division of State Parks, Honolulu.

APPENDIX 4

APPENDIX 4
Draft EA Pre-Consultation List

Title	First Name	Last Name	Job Title	Organization	Address1	Address2	City	State	Zip Code
Mr.	George	Young	Chief	U.S. Army Engineer District, Honolulu	Regulatory Branch	Building 230	Fort Shafter	HI	96858-5440
Ms.	Dierdre	Mamiya	Administrator	Department of Land and Natural Resources, Land Division	1151 Punchbowl Street	Room 220	Honolulu	HI	96813
Mr.	Clyde	Namuo	Administrator	Office of Hawaiian Affairs - Honolulu	711 Kapiolani Blvd.	Suite 500	Honolulu	HI	96813
Ms.	La-France	Kapaka-Arboleda	Administrator	Office of Hawaiian Affairs - Kauai	3110 Kuhio Highway	Suite C4	Lihue	HI	96766
Ms.	P. Holly	McEldowney	Administrator	Department of Land and Natural Resources, Historic Preservation Division	601 Kamokila Boulevard	Room 555	Kapolei	HI	96707
Ms.	June F.	Harrington-Lum	Manager	Department of Health, Environmental Planning Office	P.O. Box 3378		Honolulu	HI	96801-3378
Mr.	Lawrence	Yamamoto	Acting State Conservationist	USDA Natural Resources Conservation Service	P.O. Box 50004		Honolulu	HI	96850-0050
Mr.	Micah	Kane	Chairman	Hawaiian Homes Commission	Department of Hawaiian Home Lands	P.O. Box 1879	Honolulu	HI	96805
-	-	-	-	UHM Water Resource Research Center	2540 Dole Street	Holmes Hall, Room 283	Honolulu	HI	96822
-	-	-	Pacific Islands Administrator	Department of the Interior Fish & Wildlife Services	300 Ala Moana Blvd.	Room 3-122	Honolulu	HI	96813
-	-	-	-	UHM Environmental Center	2550 Campus Road	Crawford 317	Honolulu	HI	96822
-	-	-	-	County of Kauai - Planning Department	4444 Rice Street	Suite 473	Lihue	HI	96766
Mr.	Edward	Tschupp	Manager	County of Kauai - Department of Water	P.O. Box 1706		Lihue	HI	96766
-	-	-	-	County of Kauai - Public Works Department	4444 Rice Street		Lihue	HI	96766

APPENDIX 5

May 6, 2004

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: Kokee-Waineke Exploratory Well Pre-Assessment Consultation and
Addition of Kokee A-1 Exploratory Well**

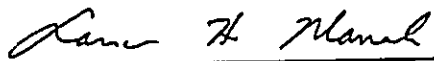
Thank you for your agency's response to the Pre-Assessment Consultation for Draft Environmental Assessment (EA) - Kokee-Waineke Exploratory Well. We understand that your department has no comments at the present time and that a Department of the Army permit will not be required.

The Department of Land and Natural Resources has decided to add a second exploratory well – Kokee A-1, to the scope of this project, therefore the Draft EA will include the assessment of both the Kokee-Waineke and Kokee A-1 Exploratory Wells. The Draft EA for the Kokee-Waineke and Kokee A-1 Exploratory Wells will be sent to you for your review and comment.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.



Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

FUKUNAGA & ASSOCIATES, INC.





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

REPLY TO
ATTENTION OF

April 12, 2004

Regulatory Branch

Mr. Lance H. Manabe
Fukunaga & Associates, Inc.
1388 Kapiolani Blvd.
Honolulu, Hawaii 96858-5440

Dear Mr. Manabe:

This responds to your request for comments on the proposed Kokee-Waineke Exploratory Well project located within the Koke State Park, Kauai.

Based on the information submitted and office reference materials, there appears to be no streams, tributaries or waterways within the project area. Therefore, a Department of the Army permit will not be required.

File number 200400257 is assigned to this project. If you have any questions, you may contact Ms. Lolly Silva at 438-7023 or by FAX at 438-4060.

Sincerely,

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

May 6, 2004

Ms. Dierdre S. Mamiya, Administrator
Department of Land and Natural Resources
Land Division
P.O. Box 621
Honolulu, Hawaii 96809

Dear Ms. Mamiya:

**SUBJECT: Kokee-Waineke Exploratory Well Pre-Assessment Consultation and
Addition of Kokee A-1 Exploratory Well**

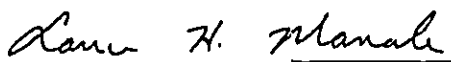
Thank you for your agency's responses to the Pre-Assessment Consultation for Draft Environmental Assessment (EA) - Kokee-Waineke Exploratory Well. We have attached the letters of response to all the DLNR Divisions that reviewed and commented on the Pre-Assessment Consultation. We understand that DLNR has no other comment to offer for this project at the present time.

The Department of Land and Natural Resources has decided to add a second exploratory well – Kokee A-1, to the scope of this project, therefore the Draft EA will include the assessment of both the Kokee-Waineke and Kokee A-1 Exploratory Wells. The Draft EA for the Kokee-Waineke and Kokee A-1 Exploratory Wells will be sent to you for your review and comment.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.

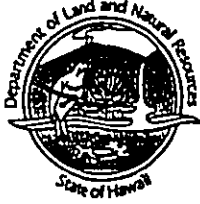

Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

FUKUNAGA & ASSOCIATES, INC.



LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

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

April 26, 2004
KOKEE-WAINEKEWELLEXP.RCM

LD-NAV

Fukunaga & Associates, Inc.
Lance H. Manabe
1388 Kapiolani Blvd. 2nd Floor
Honolulu, Hawaii 96814

Dear Mr. Manabe:

SUBJECT: Pre-Assessment Consultation for Preparation of a Draft Environmental Assessment for Kokee-Waineke Exploratory Well, Kauai, Hawaii

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

A copy of the your letter dated March 30, 2004 (with maps), pertaining to the subject matter was transmitted to the following Department of Land and Natural Resources' (DLNR) Divisions for their review and comment:

- Division of Aquatic Resources
- Division of Forestry and Wildlife
- Division of State Parks
- Commission on Water Resource Management
- Engineering Division
- Office of Conservation and Coastal Lands
- Land-Kauai District Land Office
- Land-Planning and Development

Enclosed please find a copy of the Engineering Division, Commission on Water Resource Management, Office of Conservation and Coastal Lands and Division of Aquatic Resources comment.

Based on the attached responses, the Department of Land and Natural Resources has no other comment to offer on the subject matter at this time.

Should you have any questions, please feel free to contact Nicholas A. Vaccaro of the Land Division Support Services Branch at 808-587-0384.

Very truly yours,

DIERDRE S. MAMIYA
Administrator

c: KDLO

May 6, 2004

Mr. William S. Devick, Administrator
Department of Land and Natural Resources
Division of Aquatic Resources
1151 Punchbowl Street
Honolulu, Hawaii 96813

Dear Mr. Devick:

**SUBJECT: Kokee-Waineke Exploratory Well Pre-Assessment Consultation and
Addition of Kokee A-1 Exploratory Well**

Thank you for your agency's response to the Pre-Assessment Consultation for Draft Environmental Assessment (EA) - Kokee-Waineke Exploratory Well. Your comments will be addressed in the Draft EA.

The Department of Land and Natural Resources has decided to add a second exploratory well - Kokee A-1, to the scope of this project, therefore the Draft EA will include the assessment of both the Kokee-Waineke and Kokee A-1 Exploratory Wells. The Draft EA for the Kokee-Waineke and Kokee A-1 Exploratory Wells will be sent to you for your review and comment.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.



Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division



LINDA LINGLE
GOVERNOR OF HAWAII



DIVISION OF AQUATIC RESOURCES	
DIRECTOR	Suspense Date:
COM FISHERIES	Draft Reply <input type="checkbox"/>
AQ REC/ENV	Reply Direct <input type="checkbox"/>
AQ RECR'N	Comments <input type="checkbox"/>
STAFF SVCS	Information <input type="checkbox"/>
FISH DEV	Comp Act & File <input type="checkbox"/>
STATISTICS	DEPARTMENT OF LAND AND NATURAL RESOURCES
ADMIN	COPIES TO:
OPERATION	Remarks: POST OFFICE BOX 621
PLANNING	HONOLULU, HAWAII 96809
CONSERVATION	04-281
RECORDS	
TRAINING	
LEGISLATION	
OTHER	



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

April 2, 2004

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

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

LD/NAV
KOKEE-WAINEKEWELLEXP.CMT

L-1812
Suspense Date: 4/13/04

MEMORANDUM:

TO: XXX Division of Aquatic Resources ✓
 XXX Division of Forestry & Wildlife
 Na Ala Hele Trails
 XXX Engineering Division
 XXX Division of State Parks
 Division of Boating and Ocean Recreation
 XXX Commission on Water Resource Management
 XXX Office of Conservation and Coastal Lands
 XXX Land-Kauai District Land Office
 XXX Land-Planning and Development



RECEIVED
LAND DIVISION
2004 APR 15 A 9 26
DEPT. OF LAND &
NATURAL RESOURCES
STATE OF HAWAII

FROM: Dierdre S. Mamiya, Administrator
Land Division

SUBJECT: Pre-Assessment Consultation for the Preparation of a Draft Environmental Assessment for the Proposed Kokee-Waineke Exploratory Well Project, Kokee State Park, Island of Kauai - TMK: (4) 1-4-001: 013

Please review the attached letter (summary) dated March 30, 2004 and attachment pertaining to the subject matter and submit your comments (if any) to us on Division letterhead signed and dated by the suspense date.

Should you need more time to review the subject matter, please contact Nicholas A. Vaccaro at ext.: 7-0384.

If this office does not receive your comments by the suspense date, we will assume there are no comments.

() We have no comments. (X) Comments attached.

Date: 4/13/04

Signed: William S. Devick
William S. Devick, Administrator

DIVISION: Aquatic Resources Name: _____

LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF AQUATIC RESOURCES
1151 PUNCHBOWL STREET
HONOLULU, HAWAII 96813

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER
COMMISSION ON WATER RESOURCE MANAGEMENT

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONSERVATION
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT

FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

April 13, 2004

MEMORANDUM

TO: William Devick, Administrator *WLD*
FROM: Annette Tagawa, Aquatic Biologist
SUBJECT: Comments on Preparation of DEA for the Proposed Kokee-Waineke Exploratory Well Project,
File No. :L-1812

Comments Dean Uchida, Administrator

Requested By Land Division

Date of Request 4/2/04 Date Received 4/6/04

Summary of Project

Title: Preparation of Proposed Kokee-Waineke Exploratory Well

Project By: Fukunaga & Associates, Inc.

Location: Kokee, Kauai, Hawaii TMK: 1-4-001: 013

Brief Description:

The applicant, Fukunaga & Associates, Inc. are preparing a Draft Environmental Assessment for the Kokee-Waineke Exploratory Well as part of the Kokee/Waimea Canyon State Park Water Systems Improvements Project. The Kokee-Waineke Exploratory Well is located within the Kokee State Park on the island of Kauai.

The project involves the drilling and testing of the Kokee-Waineke Exploratory Well located at Latitude 22°7.44N and Longitude 159°39.12W. This proposed exploratory drilling and testing project will determine if the well site would be a feasible ground water source.

Comments:

The Division of Aquatic Resources has no objection to this request since the proposed project is not expected to have adverse impact on aquatic resource values in this area. However, construction activities could have short term impacts on aquatic resources such as temporary turbidity, biota displacement and disturbance. We strongly recommend that mitigative measures should be taken during construction to prevent contaminants such as drill cuttings, cutting extraction medium, sediment, pollutants, petroleum products, and debris from possibly entering the aquatic environment. We also suggest that site work be scheduled for periods of minimal rainfall and lands denuded of vegetation be replanted or covered as quickly as possible to control erosion.

May 6, 2004

Mr. Michael G. Buck, Administrator
Department of Land and Natural Resources
Division of Forestry and Wildlife
1151 Punchbowl Street, Room 325
Honolulu, Hawaii 96813

Dear Mr. Buck:

**SUBJECT: Kokee-Waineke Exploratory Well Pre-Assessment Consultation and
Addition of Kokee A-1 Exploratory Well**

Thank you for your agency's response to the Pre-Assessment Consultation for Draft Environmental Assessment (EA) - Kokee-Waineke Exploratory Well. We understand your office has no comments at the present time.

The Department of Land and Natural Resources has decided to add a second exploratory well – Kokee A-1, to the scope of this project, therefore the Draft EA will include the assessment of both the Kokee-Waineke and Kokee A-1 Exploratory Wells. The Draft EA for the Kokee-Waineke and Kokee A-1 Exploratory Wells will be sent to you for your review and comment.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.

Lance H. Manabe

Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

FUKUNAGA & ASSOCIATES, INC.



Nelson

LINDA LINGLE
GOVERNOR OF HAWAII



RECEIVED
LAND DIVISION



2004 APR 12 P 3:56

DEPT. OF LAND &
NATURAL RESOURCES
STATE OF HAWAII

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

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

April 2, 2004

LD/NAV
KOEKE-WAINEKEWELLEXP.CMT

L-1812
Suspense Date: 4/13/04

MEMORANDUM:

TO: XXX Division of Aquatic Resources
XXX Division of Forestry & Wildlife ✓
Na Ala Hele Trails
XXX Engineering Division
XXX Division of State Parks
Division of Boating and Ocean Recreation
XXX Commission on Water Resource Management
XXX Office of Conservation and Coastal Lands
XXX Land-Kauai District Land Office
XXX Land-Planning and Development

FROM: Dierdre S. Mamiya, Administrator
Land Division

SUBJECT: Pre-Assessment Consultation for the Preparation of a Draft Environmental Assessment for the Proposed Kokee-Waineke Exploratory Well Project, Kokee State Park, Island of Kauai - TMK: (4) 1-4-001: 013

Please review the attached letter (summary) dated March 30, 2004 and attachment pertaining to the subject matter and submit your comments (if any) to us on Division letterhead signed and dated by the suspense date.

Should you need more time to review the subject matter, please contact Nicholas A. Vaccaro at ext.: 7-0384.

If this office does not receive your comments by the suspense date, we will assume there are no comments.

We have no comments.

Comments attached.

Date: APR - 6 2004

Signed:

DIVISION: _____

Name:

**MICHAEL G. BUCK, ADMINISTRATOR
DIVISION OF FORESTRY AND WILDLIFE**

May 6, 2004

Mr. Daniel S. Quinn, Administrator
Department of Land and Natural Resources
State Parks
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Quinn:

**SUBJECT: Kokee-Waineke Exploratory Well Pre-Assessment Consultation and
Addition of Kokee A-1 Exploratory Well**

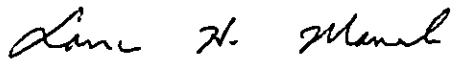
Thank you for your agency's response to the Pre-Assessment Consultation for Draft Environmental Assessment (EA) - Kokee-Waineke Exploratory Well. We understand your office has no comments at the present time.

The Department of Land and Natural Resources has decided to add a second exploratory well – Kokee A-1, to the scope of this project, therefore the Draft EA will include the assessment of both the Kokee-Waineke and Kokee A-1 Exploratory Wells. The Draft EA for the Kokee-Waineke and Kokee A-1 Exploratory Wells will be sent to you for your review and comment.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.



Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division



LINDA LINGLE
GOVERNOR OF HAWAII

RECEIVED
DIVISION OF
STATE PARKS



APR 6 10 30 AM '04

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

April 2, 2004

- ADMINISTRATOR
- ASST ADMIN
- FIF BR
- PLAN BR
- RES MGT BR
- CLERICAL
- ADMIN ASST
- INTERP BR
- CIRC/POST/STAFF RM
- COMMENTS & REC
- DRAFT REPLY
- FILE
- FOLLOW UP
- INFO
- RUN COPIES
- RUSH DUE
- SEE ME
- FAX/SEND COPY TO

2624

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

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

LD/NAV
KOEKE-WAINEKEWELLEXP.CMT

L-1812
Suspense Date: 4/13/04

MEMORANDUM:

TO: XXX Division of Aquatic Resources
 XXX Division of Forestry & Wildlife
 Na Ala Hele Trails
 XXX Engineering Division
 XXX Division of State Parks ✓
 Division of Boating and Ocean Recreation
 XXX Commission on Water Resource Management
 XXX Office of Conservation and Coastal Lands
 XXX Land-Kauai District Land Office
 XXX Land-Planning and Development

FROM: Dierdre S. Mamiya, Administrator
Land Division

SUBJECT: Pre-Assessment Consultation for the Preparation of a Draft Environmental Assessment for the Proposed Kokee-Waineke Exploratory Well Project, Kokee State Park, Island of Kauai - TMK: (4) 1-4-001: 013

Please review the attached letter (summary) dated March 30, 2004 and attachment pertaining to the subject matter and submit your comments (if any) to us on Division letterhead signed and dated by the suspense date.

Should you need more time to review the subject matter, please contact Nicholas A. Vaccaro at ext.: 7-0384.

If this office does not receive your comments by the suspense date, we will assume there are no comments.

() We have no comments.

() Comments attached.

Date: _____

Signed: _____

DIVISION: _____

Name: _____

TO: Land Division

FROM: State Parks

?

Do you want us to comment on our project?

RECEIVED
LAND DIVISION
2004 APR - 8 P 4: 20
DEPT. OF LAND & NATURAL RESOURCES
STATE OF HAWAII

May 6, 2004

Mr. Ernest Y.W. Lau, Deputy Director
Department of Land and Natural Resources
Commission on Water Resource Management
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Lau:

**SUBJECT: Kokee-Waineke Exploratory Well Pre-Assessment Consultation and
Addition of Kokee A-1 Exploratory Well**

Thank you for your agency's response to the Pre-Assessment Consultation for Draft Environmental Assessment (EA) - Kokee-Waineke Exploratory Well. Your comments will be addressed in the Draft EA.

The Department of Land and Natural Resources has decided to add a second exploratory well – Kokee A-1, to the scope of this project, therefore the Draft EA will include the assessment of both the Kokee-Waineke and Kokee A-1 Exploratory Wells. The Draft EA for the Kokee-Waineke and Kokee A-1 Exploratory Wells will be sent to you for your review and comment.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.



Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

FUKUNAGA & ASSOCIATES, INC.



UNDA LINGLE
GOVERNOR OF HAWAII



RECEIVED

04 APR 6 AIO: 41

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION COMMISSION ON WATER
POST OFFICE BOX 62100
HONOLULU, HAWAII 96809

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

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

April 2, 2004

LD/NAV
KOEKE-WAINEKEWELLEXP.CMT

L-1812
Suspense Date: 4/13/04

MEMORANDUM:

TO: XXX Division of Aquatic Resources
XXX Division of Forestry & Wildlife
Na Ala Hele Trails
XXX Engineering Division
XXX Division of State Parks
Division of Boating and Ocean Recreation
XXX Commission on Water Resource Management ✓
XXX Office of Conservation and Coastal Lands
XXX Land-Kauai District Land Office
XXX Land-Planning and Development

FROM: Dierdre S. Mamiya, Administrator *[Signature]*
Land Division

SUBJECT: Pre-Assessment Consultation for the Preparation of a Draft Environmental Assessment for the Proposed Kokee-Waineke Exploratory Well Project, Kokee State Park, Island of Kauai - TMK: (4) 1-4-001: 013

Please review the attached letter (summary) dated March 30, 2004 and attachment pertaining to the subject matter and submit your comments (if any) to us on Division letterhead signed and dated by the suspense date.

Should you need more time to review the subject matter, please contact Nicholas A. Vaccaro at ext.: 7-0384.

If this office does not receive your comments by the suspense date, we will assume there are no comments.

() We have no comments.

Comments attached.

Date: 4-8-04

Signed: *[Signature]*

DIVISION: CWRM

Name: LENDRE Y. NAKAMA

LINDA LINGLE
GOVERNOR OF HAWAII

RECEIVED
LAND DIVISION



2004 APR -8 P 4: 15

DEPT. OF LAND &
NATURAL RESOURCES
STATE OF HAWAII

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

PETER T. YOUNG
CHAIRPERSON

MEREDITH J. CHING
CLAYTON W. DELA CRUZ
JAMES A. FRAZIER
CHIYOME L. FUKINO, M.D.
STEPHANIE A. WHALEN

ERNEST Y.W. LAU
DEPUTY DIRECTOR

April 8, 2004

Ref: Kokee-WainekeExploratory Well.dr

TO: Ms. Dede Mamiya, Administrator
Land Division

FROM: Ernest Y.W. Lau, Deputy Director ^R
Commission on Water Resource Management (CWRM)

SUBJECT: Pre-Assessment Consultation for the Preparation of a Draft Environmental Assessment for the Proposed Kokee-Waineke Exploratory Well Project, Kokee State Park, Island of Kauai

FILE NO.: KOKEE-WAINEKEWELLEXP.CMT

Thank you for the opportunity to review the subject document. Our comments related to water resources are marked below.

In general, the CWRM strongly promotes the efficient use of our water resources through conservation measures and use of alternative non-potable water resources whenever available, feasible, and there are no harmful effects to the ecosystem. Also, the CWRM encourages the protection of water recharge areas, which are important for the maintenance of streams and the replenishment of aquifers.

- We recommend coordination with the county government to incorporate this project into the county's Water Use and Development Plan.
- We recommend coordination with the Land Division of the State Department of Land and Natural Resources to incorporate this project into the State Water Projects Plan.
- We are concerned about the potential for ground or surface water degradation/contamination and recommend that approvals for this project be conditioned upon a review by the State Department of Health and the developer's acceptance of any resulting requirements related to water quality.
- A Well Construction Permit and/or a Pump Installation Permit from the Commission would be required before ground water is developed as a source of supply for the project.
- The proposed water supply source for the project is located in a designated water management area, and a Water Use Permit from the Commission would be required prior to use of this source.
- Groundwater withdrawals from this project may affect streamflows, which may require an instream flow standard amendment.
- We are concerned about the potential for degradation of instream uses from development on highly erodible slopes adjacent to streams within or near the project. We recommend that approvals for this project be conditioned upon a review by the corresponding county's Building Department and the developer's acceptance of any resulting requirements related to erosion control.
- If the proposed project includes construction of a stream diversion, the project may require a stream diversion works permit and amend the instream flow standard for the affected stream(s).
- If the proposed project alters the bed and banks of a stream channel, the project may require a stream channel alteration permit.
- OTHER:

The report should address geologic/hydrologic conditions found in Well No. 0739-03. The report should also address possible effects on the adjacent stream.

If there are any questions, please contact Glenn Bauer at 587-0263.

May 6, 2004

Mr. Eric T. Hirano, Chief Engineer
Department of Land and Natural Resources
Engineering Division
P.O. Box 1879
Honolulu, Hawaii 96805

Dear Mr. Hirano:

**SUBJECT: Kokee-Waineke Exploratory Well Pre-Assessment Consultation and
Addition of Kokee A-1 Exploratory Well**

Thank you for your agency's response to the Pre-Assessment Consultation for Draft Environmental Assessment (EA) - Kokee-Waineke Exploratory Well. We understand that the project site, according to the Flood Insurance Rate Map (FIRM), is located in Zone X. This information will be included in the Draft EA.

The Department of Land and Natural Resources has decided to add a second exploratory well – Kokee A-1, to the scope of this project, therefore the Draft EA will include the assessment of both the Kokee-Waineke and Kokee A-1 Exploratory Wells. The Draft EA for the Kokee-Waineke and Kokee A-1 Exploratory Wells will be sent to you for your review and comment.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.



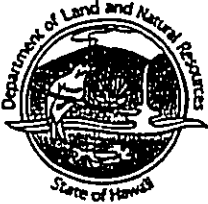
Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

FUKUNAGA & ASSOCIATES, INC.



LINDA LINGLE
GOVERNOR OF HAWAII



RECEIVED
LAND DIVISION



SURVEY DIVISION
D.A.G.S.

APR 6 10 10 AM '04

2004 APR 12 P 3:22

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

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

April 2, 2004

LD/NAV
KOKEE-WAINEKEWELLEXP.CMT

L-1812
Suspense Date: 4/13/04

MEMORANDUM:

TO: XXX Division of Aquatic Resources
XXX Division of Forestry & Wildlife
Na Ala Hele Trails
XXX Engineering Division ✓
XXX Division of State Parks
Division of Boating and Ocean Recreation
XXX Commission on Water Resource Management
XXX Office of Conservation and Coastal Lands
XXX Land-Kauai District Land Office
XXX Land-Planning and Development

FROM: Dierdre S. Mamiya, Administrator
Land Division

SUBJECT: Pre-Assessment Consultation for the Preparation of a Draft Environmental Assessment for the Proposed Kokee-Waineke Exploratory Well Project, Kokee State Park, Island of Kauai - TMK: (4) 1-4-001: 013

Please review the attached letter (summary) dated March 30, 2004 and attachment pertaining to the subject matter and submit your comments (if any) to us on Division letterhead signed and dated by the suspense date.

Should you need more time to review the subject matter, please contact Nicholas A. Vaccaro at ext.: 7-0384.

If this office does not receive your comments by the suspense date, we will assume there are no comments.

() We have no comments.

(✓) Comments attached.

Date: _____

Signed: _____

DIVISION: _____

Name: _____

DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

LA/NAV

Ref.: KOKEE-WAINEKEWELLEXP.CMT

COMMENTS

- () We confirm that the project site, according to the Flood Insurance Rate Map (FIRM), is located in Flood Zone ____.
- (X) Please take note that the project site, according to the Flood Insurance Rate Map (FIRM), is located in Zone X.
- () Please note that the correct Flood Zone Designation for the project site according to the Flood Insurance Rate Map (FIRM) is ____.
- () Please note that the project must comply with the rules and regulations of the National Flood Insurance Program (NFIP) presented in Title 44 of the Code of Federal Regulations (44CFR), whenever development within a Special Flood Hazard Area is undertaken. If there are any questions, please contact the State NFIP Coordinator, Ms. Carol Tyau-Beam, of the Department of Land and Natural Resources, Engineering Division at (808) 587-0267.

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

- () Mr. Robert Sumimoto at (808) 523-4254 or Mr. Mario Siu Li at (808) 523-4247 of the City and County of Honolulu, Department of Planning and Permitting.
 - () Mr. Kelly Gomes at (808) 961-8327 (Hilo) or Mr. Kiran Emier at (808) 327-3530 (Kona) of the County of Hawaii, Department of Public Works.
 - () Mr. Francis Cerizo at (808) 270-7771 of the County of Maui, Department of Planning.
 - () Mr. Mario Antonio at (808) 241-6620 of the County of Kauai, Department of Public Works.
- () The applicant should include project water demands and infrastructure required to meet water demands. Please note that the implementation of any State-sponsored projects requiring water service from the Honolulu Board of Water Supply system must first obtain water allocation credits from the Engineering Division before it can receive a building permit and/or water meter.
 - () The applicant should provide the water demands and calculations to the Engineering Division so it can be included in the State Water Projects Plan Update.
 - () Additional Comments: _____
 - () Other: _____

Should you have any questions, please call Mr. Andrew Monden of the Planning Branch at 587-0229.

Signed: Eric T. Hirano
For ERIC T. HIRANO, CHIEF ENGINEER

Date: 4/12/04

May 6, 2004

Mr. Samuel J. Lemmo, Administrator
Department of Land and Natural Resources
Office of Conservation and Coastal Lands
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Lemmo:

**SUBJECT: Kokee-Waineke Exploratory Well Pre-Assessment Consultation and
Addition of Kokee A-1 Exploratory Well**

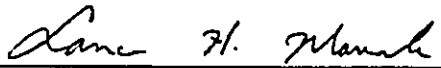
Thank you for your agency's response to the Pre-Assessment Consultation for Draft Environmental Assessment (EA) - Kokee-Waineke Exploratory Well. We acknowledge your comment and understand that a Conservation District Use Permit is not required.

The Department of Land and Natural Resources has decided to add a second exploratory well - Kokee A-1, to the scope of this project, therefore the Draft EA will include the assessment of both the Kokee-Waineke and Kokee A-1 Exploratory Wells. The Draft EA for the Kokee-Waineke and Kokee A-1 Exploratory Wells will be sent to you for your review and comment.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.



Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

FUKUNAGA & ASSOCIATES, INC.



LINDA LINGLE
GOVERNOR OF HAWAII



RECEIVED
LAND DIVISION



2004 APR 15 A STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION
DEPT. OF LAND &
NATURAL RESOURCES POST OFFICE BOX 621
STATE OF HAWAII HONOLULU, HAWAII 96809

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

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

April 2, 2004

LD/NAV
KOKEE-WAINEKEWELLEXP.CMT

L-1812
Suspense Date: 4/13/04

MEMORANDUM:

TO: XXX Division of Aquatic Resources
XXX Division of Forestry & Wildlife
Na Ala Hele Trails
XXX Engineering Division
XXX Division of State Parks
Division of Boating and Ocean Recreation
XXX Commission on Water Resource Management
XXX Office of Conservation and Coastal Lands ✓
XXX Land-Kauai District Land Office
XXX Land-Planning and Development

KA-04-135

FROM: Dierdre S. Mamiya, Administrator
Land Division

SUBJECT: Pre-Assessment Consultation for the Preparation of a Draft Environmental Assessment for the Proposed Kokee-Waineke Exploratory Well Project, Kokee State Park, Island of Kauai - TMK: (4) 1-4-001: 013

Please review the attached letter (summary) dated March 30, 2004 and attachment pertaining to the subject matter and submit your comments (if any) to us on Division letterhead signed and dated by the suspense date.

Should you need more time to review the subject matter, please contact Nicholas A. Vaccaro at ext.: 7-0384.

If this office does not receive your comments by the suspense date, we will assume there are no comments.

() We have no comments.

Comments attached.

Date: _____

Signed:

DIVISION: _____

Name: _____

LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
OFFICE OF CONSERVATION AND COASTAL LANDS

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

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

REF:OCCL:TM

Correspondence: KA-04-135

MEMORANDUM

TO: Dierdre S. Mamiya, Administrator
Land Division

FROM: Samuel J. Lemmo, Administrator
Office of Conservation and Coastal Lands

SUBJECT: Pre-Assessment Consultation for the Preparation of a Draft Environmental Assessment for the Proposed Kokee-Waineke Exploratory Well Project, Kokee State Park, Island of Kauai, TMK: (4) 1-4-001:013

The Office of Conservation and Coastal Lands (OCCL) has reviewed the pre-assessment consultation for the preparation of a draft environmental assessment for the proposed Kokee-Waineke exploratory well project located at Kokee State Park on the island of Kauai, TMK: (4) 1-4-001:013.

The OCCL notes that subject parcel is located in the State Land Use Conservation District, Resource Subzone. In addition, OCCL also notes that Kokee State Park was established through Executive Order 1509 and falls under the jurisdiction of the Department of Land and Natural Resources (DLNR), Division of State Parks. Pursuant to § 184-3 (6), Hawaii Revised Statutes, DLNR, may construct and operate suitable public facilities under its jurisdiction and control as are deemed by it to be in the public interest. Because the proposed exploratory drilling and testing project is part of the Kokee/Waimea Canyon State Park Water System Improvements for State Park purposes, OCCL has no objections to the proposed project. Therefore, no Conservation District Use Permit is required.

However, State Parks should comply with all applicable statutes, ordinances, rules, regulations, and conditions of the Federal, State, and County governments. The Water Commission's approval should also be obtained.

Should you have any questions, please contact Tiger Mills of our Office of Conservation and Coastal Lands staff at 587-0382

May 6, 2004

Mr. Thomas Oi
Department of Land and Natural Resources
Land – Kauai District Land Office
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Oi:

**SUBJECT: Kokee-Waineke Exploratory Well Pre-Assessment Consultation and
Addition of Kokee A-1 Exploratory Well**


Thank you for your agency's response to the Pre-Assessment Consultation for Draft Environmental Assessment (EA) - Kokee-Waineke Exploratory Well. We understand your office has no comments at the present time.

The Department of Land and Natural Resources has decided to add a second exploratory well – Kokee A-1, to the scope of this project, therefore the Draft EA will include the assessment of both the Kokee-Waineke and Kokee A-1 Exploratory Wells. The Draft EA for the Kokee-Waineke and Kokee A-1 Exploratory Wells will be sent to you for your review and comment.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.



Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

FUKUNAGA & ASSOCIATES, INC.



LINDA LINGLE
GOVERNOR OF HAWAII



PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER



RECEIVED
LAND DIVISION

APR 14 A 9:22

DEPT. OF LAND &
NATURAL RESOURCES
STATE OF HAWAII

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

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

April 2, 2004

LD/NAV
KOKEE-WAINEKEWELLEXP.CMT

L-1812
Suspense Date: 4/13/04

MEMORANDUM:

TO: XXX Division of Aquatic Resources
XXX Division of Forestry & Wildlife
Na Ala Hele Trails
XXX Engineering Division
XXX Division of State Parks
Division of Boating and Ocean Recreation
XXX Commission on Water Resource Management
XXX Office of Conservation and Coastal Lands
XXX Land-Kauai District Land Office ✓
XXX Land-Planning and Development

FROM: Dierdre S. Mamiya, Administrator *[Signature]*
Land Division

SUBJECT: Pre-Assessment Consultation for the Preparation of a Draft Environmental Assessment for the Proposed Kokee-Waineke Exploratory Well Project, Kokee State Park, Island of Kauai - TMK: (4) 1-4-001: 013

Please review the attached letter (summary) dated March 30, 2004 and attachment pertaining to the subject matter and submit your comments (if any) to us on Division letterhead signed and dated by the suspense date.

Should you need more time to review the subject matter, please contact Nicholas A. Vaccaro at ext.: 7-0384.

If this office does not receive your comments by the suspense date, we will assume there are no comments.

We have no comments.

Comments attached.

Date: 4-6-2004

Signed: *[Signature]*

DIVISION: LAND - KAWAI DIST. OFF.

Name: THOMAS OI

RECEIVED
LAND DIVISION
2004 APR 14 A 9:22
DEPT. OF LAND &
NATURAL RESOURCES
STATE OF HAWAII

11-184119

2004 APR 6

11-184119

May 6, 2004

Ms. P. Holly McEldowney, Administrator
Department of Land and Natural Resources
Historic Preservation Division
Kakuhihewa Building, Room 555
601 Kamokila Boulevard
Kapolei, Hawaii 96707

Dear Mr. Kane:

**SUBJECT: Kokee-Waineke Exploratory Well Pre-Assessment Consultation and
Addition of Kokee A-1 Exploratory Well**

Thank you for your agency's response to the Pre-Assessment Consultation for Draft Environmental Assessment (EA) - Kokee-Waineke Exploratory Well. Your comments will be addressed in the Draft EA.

The Department of Land and Natural Resources has decided to add a second exploratory well – Kokee A-1, to the scope of this project, therefore the Draft EA will include the assessment of both the Kokee-Waineke and Kokee A-1 Exploratory Wells. The Draft EA for the Kokee-Waineke and Kokee A-1 Exploratory Wells will be sent to you for your review and comment.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.



Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

FUKUNAGA & ASSOCIATES, INC.



LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

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

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

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

April 26, 2004

Mr. Lance H. Manabe
Fukunaga & Associates, Inc.
1388 Kapiolani Blvd., 2nd Floor
Honolulu, Hawaii 96814

LOG NO: 2004.1140
DOC NO: 0404NM12

Dear Mr. Manabe:

**SUBJECT: Chapter 6E-8 Historic Preservation Review: Pre-Assessment
Consultation for a Draft Environmental Assessment (EA) for
the Kokee-Waineke Exploratory Well
Kokee Ahupuaa, Waimea District, Kauai Island
TMK: (4) 1-4-001: 013**

Thank you for the opportunity to comment on this consultation for a well site in Koke'e, received on March 31, 2004. No archaeological inventory surveys have been conducted on this parcel; in fact no archaeological inventory surveys or assessments were done for the previous well sites. Although historic properties in the Koke'e area are not very extensive, we will not know this unless a systematic archaeological survey is conducted. Given the above, we recommend the following conditions be attached to any approved permit, to ensure significant historic properties have been properly identified and treated:

1) An archaeologist inventory survey shall be conducted by a qualified archaeologist prior to any construction or drilling activities. If no historic properties are found, then an archaeological assessment report can be submitted. A report documenting the archaeological work shall be submitted to the State Historic Preservation Division for review and approval. The report shall contain the information specified in HAR 13-276. If significant historic sites are found, a mitigation plan may need to be developed and implemented prior to any construction work.

If you have any questions, please call Nancy McMahon 742-7033.

Aloha,

P. Holly McElDowney
P. HOLLY MCELLOWNEY, Administrator
State Historic Preservation Division

NM:jen

c: Ian Costa, Director, Dept of Planning
Chair, Kaua'i Historic Preservation Review Commission

May 6, 2004

Mr. Clyde W. Namu'o, Administrator
State of Hawaii
Office of Hawaiian Affairs
711 Kapiolani Boulevard, Suite 500
Honolulu, Hawaii 96813

Dear Mr. Namu'o:

**SUBJECT: Kōkee-Waineke Exploratory Well Pre-Assessment Consultation and
Addition of Kōkee A-1 Exploratory Well**

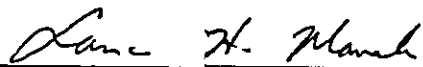
Thank you for your agency's response to the Pre-Assessment Consultation for Draft Environmental Assessment (EA) - Kōkee-Waineke Exploratory Well. Your comments will be addressed in the Draft EA. We will inform DLNR that because these are ceded lands, OHA notes that 20 percent of the lease of these lands is owed to the OHA Trust.

The Department of Land and Natural Resources has decided to add a second exploratory well – Kōkee A-1, to the scope of this project, therefore the Draft EA will include the assessment of both the Kōkee-Waineke and Kōkee A-1 Exploratory Wells. The Draft EA for the Kōkee-Waineke and Kōkee A-1 Exploratory Wells will be sent to you for your review and comment.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.



Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

FUKUNAGA & ASSOCIATES, INC.





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

HRD04/1340

April 12, 2004

Lance H. Manabe
Fukunaga & Associates, Inc.
1388 Kapiolani Boulevard
2nd Floor
Honolulu, HI 96814

**RE: Request for Pre-Assessment Consultation for Draft Environmental Assessment,
Kokee-Waineke Exploratory Well, Kaua'i, TMK: 1-4-001: 013**

Dear Lance H. Manabe,

The Office of Hawaiian Affairs is in receipt of your March 30, 2004, request for comments on the above project, which would determine if the well site would be a feasible ground water source. OHA offers the following comments.

OHA is curious as to the magnitude of the testing, how much impact will be had on the surrounding land, what equipment will be used, and whether a cultural overview of the area has been completed. Also, because these are ceded lands, OHA notes that 20 percent of the lease of these lands is owed to the OHA Trust.

The Environmental Assessment should include an archaeological inventory survey in the area of the test well to ensure that the well is sited so as not to disturb any cultural and historical deposits and burials. OHA requests assurances from the developer that should this project go forward, and should iwi or Native Hawaiian cultural or traditional deposits be found during ground disturbance or excavation, work will cease, and the appropriate agencies will be contacted pursuant to applicable law.

If the water from the potential well is to be for potable uses, those uses should be identified in the EA. Ground water in the region recently has been found to be a source of leptospirosis and other contaminants. Research and reporting on these factors is relevant and necessary.

The EA should also address the sustainable yield of the ground water to be tapped and any planning processes in place (of which there should be at least one) to ensure that enough water exists for any projects that may use the aquifer in the future.

OHA requests that you contact Mr. Joseph Manini in Waimea, Kaua'i at (808) 338-1538 for pertinent, detailed background information on the area and its water issues.

Thank you for the opportunity to comment. If you have further questions, please contact Heidi Guth at 594-1962 or e-mail her at heidig@oha.org.

Sincerely,



Clyde W. Namu'o
Administrator

CC: La France Kapaka-Arboleda

May 6, 2004

Ms. June F. Harrigan-Lum, Manager
State of Hawaii
Department of Health
P.O. Box 3378
Honolulu, Hawaii 96801-3378

Dear Ms. Harrigan-Lum:

**SUBJECT: Kokee-Waineke Exploratory Well Pre-Assessment Consultation and
Addition of Kokee A-1 Exploratory Well**

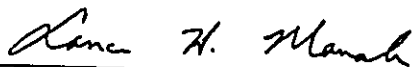
Thank you for your agency's response to the Pre-Assessment Consultation for Draft Environmental Assessment (EA) - Kokee-Waineke Exploratory Well. Your standard comments will be addressed in the Draft EA.

The Department of Land and Natural Resources has decided to add a second exploratory well – Kokee A-1, to the scope of this project, therefore the Draft EA will include the assessment of both the Kokee-Waineke and Kokee A-1 Exploratory Wells. The Draft EA for the Kokee-Waineke and Kokee A-1 Exploratory Wells will be sent to you for your review and comment.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.



Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division



LINDA LINGLE
GOVERNOR OF HAWAII



CHIYOME L. FUKINO, M.D.
DIRECTOR OF HEALTH

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

In reply, please refer to:
EPO-04-071

April 6, 2004

Mr. Lance H. Manabe
Fukunaga & Manabe, INC.
1388 Kapiolani Blvd. 2nd Floor
Honolulu, Hawaii 96814

Dear Mr. Manabe:

SUBJECT: Early Consultation Request for Draft Environmental Assessment
Kokee-Waineke Exploratory Well
TMK: 1-4-001:13

Thank you for allowing us to review and comment on the subject document. We have the enclosed standard comments to offer. If you have any questions about the standard comments please contact Ryan Davenport at 586-4346.

Sincerely,

June F. Harrigan-Lum

JUNE F. HARRIGAN-LUM, MANAGER
Environmental Planning Office

Enclosures

c: CAB
EPO
SHWB
NRAIQ
CWB
WWB
HEER
SDWB

Standard Comments

Environmental Planning Office Dated 3/2/04

The Environmental Planning Office (EPO) is responsible for several surface water quality management programs mandated by the federal Clean Water Act or dictated by State policy . (<http://www.state.hi.us/doh/eh/epo/wqm/wqm.htm>). Among these responsibilities, EPO:

- maintains the *List of Impaired Waters in Hawaii Prepared under Clean Water Act §303(d)* (<http://www.state.hi.us/doh/eh/epo/wqm/303dpcfinal.pdf>);
- develops and establishes Total Maximum Daily Loads (TMDLs) for listed waters (suggesting how much existing pollutant loads should be reduced in order to attain water quality standards, please see <http://www.epa.gov/owow/tmdl/intro.html>);
- writes TMDL Implementation Plans describing how suggested pollutant load reductions can be achieved; and
- conducts assessments of stream habitat quality and biological integrity.

To facilitate TMDL development and planning, and to assist our assessment of the potential impact of proposed actions upon water quality, pollutant loading, and biological resources in receiving waters, we suggest that environmental review documents, permit applications, and related submittals include the following standard information and analyses:

Waterbody type and class

1. Identify the waterbody type and class, as defined in Hawaii Administrative Rules Chapter 11-54 (<http://www.state.hi.us/doh/rules/11-54.pdf>), of all potentially affected water bodies¹.

Existing water quality management actions

2. Identify any existing National Pollutant Discharge Elimination System (NPDES) permits and related connection permits (issued by permittees) that will govern the management of water that runs off or is discharged from the proposed project site or facility. Please include NPDES and other permit numbers; names of permittees, permitted facilities, and receiving waters (including waterbody type and class as in 1. above); diagrams showing drainage/discharge pathways and outfall locations; and note any permit conditions that may specifically apply to the proposed project.

3. Identify any planning documents, groups, and projects that include specific prescriptions for water quality management at the proposed project site and in the potentially affected waterbodies. Please note those prescriptions that may specifically apply to the proposed project.

Pending water quality management actions

4. Identify all potentially affected water bodies that appear on the current *List of Impaired Waters in Hawaii Prepared under Clean Water Act §303(d)* including the listed waterbody, geographic scope of listing, and pollutant(s) (See Table 7 at <http://www.state.hi.us/doh/eh/epo/wqm/303dpcfina.pdf>).
5. If the proposed project involves potentially affected water bodies that appear on the current *List of Impaired Waters in Hawaii Prepared under Clean Water Act §303(d)*, identify and quantify expected changes in the following site and watershed conditions and characteristics:
 - surface permeability
 - hydrologic response of surface (timing, magnitude, and pathways)
 - receiving water hydrology
 - runoff and discharge constituents
 - pollutant concentrations and loads in receiving waters
 - aquatic habitat quality and the integrity of aquatic biota

Where TMDLs are already established they include pollutant load allocations for the surrounding lands and point source discharges. In these cases, we suggest that the submittal specify how the proposed project would contribute to achieving the applicable load reductions.

Where TMDLs are yet to be established and implemented, a first step in achieving TMDL objectives is to prevent any project-related increases in pollutant loads. This is generally accomplished through the proper application of suitable best management practices in all phases of the project and adherence to any applicable ordinances, standards, and permit conditions. In these cases we suggest that the submittal specify how the proposed project would contribute to reducing the polluted discharge and runoff entering the receiving waters, including plans for additional pollutant load reduction practices in future management of the surrounding lands and drainage/discharge systems.

Proposed Action and Alternatives Considered

We suggest that each submittal identify and analyze potential project impacts at a watershed scale by considering consider the potential contribution of the proposed project to cumulative, multi-project watershed effects on hydrology, water quality, and aquatic and riparian ecosystems.

We also suggest that each submittal broadly evaluate project alternatives by identifying more than one engineering solution for proposed projects. In particular, we suggest the

consideration of "alternative," "soft," and "green" engineering solutions for channel modifications that would provide a more environmentally friendly and aesthetically pleasing channel environment and minimize the destruction of natural landscapes.

If you have any questions about these comments or EPO programs, please contact Ryan Davenport at 586-4346.

¹"Potentially affected waterbodies" means those in which proposed project activity would take place and any that could receive water discharged by the proposed project activity or water flowing down from the proposed project site. These waterbodies can be presented as a chain of receiving waters whose top link is at the project site upslope and whose bottom link is in the Pacific Ocean, and can be named according to conventions established by Chapter 11-54 and the *List of Impaired Waters in Hawaii Prepared under Clean Water Act §303(d)*. For example, a recent project proposed for Nuhelewai Stream, Oahu might potentially affect Nuhelewai Stream, Kapalama Canal, and Honolulu Harbor and Shore Areas.

[OTHER EXAMPLES OR DIAGRAM??]

Solid and Hazardous Waste Branch Dated 3/2/04

1)
The OSWM recommends the development of a solid waste management plan that encompasses all project phases including demolition, construction, and occupation/operation of the completed project.

Specific examples of elements that the plan should address include:

- The recycling of green-waste during clear and grub activities;
- Recycling construction and demolition wastes, if appropriate;
- The use of locally produced compost in landscaping;
- The use of recycled content building materials;
- The provision of recycling facilities in the design of the project.

2)
The developer shall ensure that all solid waste generated during project construction is directed to a Department of Health permitted solid waste disposal or recycling facility.

3)
The developer should consider providing space in the development for recycling activities. The provision of space for recycling bins for paper, glass, and food/wet waste would help to encourage the recycling of solid waste(s) generated by building occupants.

4)
The discussion of solid waste issues contained in the document is restricted to activities within the completed project. The OSWM recommends the development of a solid waste management plan that encompasses all project phases, from construction (and or demolition) to occupation of the project.

Specific examples of plan elements include: the recycling of green-waste during clear and grub activities; maximizing the recycling of construction and demolition wastes; the use of locally produced compost in the landscaping of the project; and the provision of recycling facilities in the design of the project.

5)

Hawaii Revised Statutes Chapter 103D-407 stipulates that all highway and road construction and improvement projects funded by the State or a county or roadways that are to be accepted by the State or a county as public roads shall utilize a minimum of ten per cent crushed glass aggregate as specified by the department of transportation in all base-course (treated or untreated) and sub-base when the glass is available to the quarry or contractor at a price no greater than that of the equivalent aggregate.

If you have any questions, please contact the Solid and Hazardous Waste Branch at (808) 586-4240.

Noise, Radiation & Indoor Air Quality Branch Dated 3/2/04

"Project activities shall comply with the Administrative Rules of the Department of Health:

- Chapter 11-39 Air Conditioning and Ventilating.
- Chapter 11-45 Radiation Control.
- Chapter 11-46 Community Noise Control.
- Chapter 11-501 Asbestos Requirements.
- Chapter 11-502 Asbestos-Containing Materials in Schools.
- Chapter 11-503 Fees for Asbestos Removal and Certification
- Chapter 11-504 Asbestos Abatement Certification Program

Should there be any questions, please contact Russell S. Takata, Environmental Health Program Manager, Noise, Radiation and Indoor Air Quality Branch, at 586-4701."

Clean Water Branch Dated 3/2/04

1. The Army Corps of Engineers should be contacted at (808) 438-9258 to identify whether a Federal license or permit (including a Department of Army permit) is required for this project. Pursuant to Section 401(a)(1) of the Federal Water Pollution Act (commonly known as the "Clean Water Act"), a Section 401 Water Quality Certification is required for "[a]ny applicant for Federal license or permit to conduct any activity including, but not limited to, the construction or operation of facilities, which may result in any discharge into the navigable waters...."
2. A National Pollutant Discharge Elimination System (NPDES) general permit coverage is required for the following activities:

- a. Storm water associated with industrial activities, as defined in Title 40, Code of Federal Regulations, Sections 122.26(b)(14)(i) through 122.26(b)(14)(ix) and 122.26(b)(14)(xi).
- b. Construction activities, including clearing, grading, and excavation, that result in the disturbance of equal to or greater than one (1) acre 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. **An NPDES permit is required before the commencement of the construction activities.**
- c. Discharges of treated effluent from leaking underground storage tank remedial activities.
- d. Discharges of once through cooling water less than one (1) million gallons per day.
- e. Discharges of hydrotesting water.
- f. Discharges of construction dewatering effluent.
- g. Discharges of treated effluent from petroleum bulk stations and terminals.
- h. Discharges of treated effluent from well drilling activities.
- i. Discharges of treated effluent from recycled water distribution systems.
- j. Discharges of storm water from a small municipal separate storm sewer system.
- k. Discharges of circulation water from decorative ponds or tanks.

The CWB requires that a Notice of Intent (NOI) to be covered by a NPDES general permit for any of the above activities be submitted at least 30 days before the commencement of the respective activities. The NOI forms may be picked up at our office or downloaded from our website at <http://www.state.hi.us/health/eh/cwb/forms/genl-index.html>.

3. The applicant may be required to apply for an individual NPDES permit if there is any type of activity in which wastewater is discharged from the project into State waters and/or coverage of the discharge(s) under the NPDES general permit(s) is not permissible (i.e. NPDES general permits do not cover discharges into Class 1 or Class AA receiving waters). An application for the NPDES permit is to be submitted at least 180 days before the commencement of the respective activities. The NPDES application forms may also be picked up at our office or downloaded from our website at <http://www.state.hi.us/health/eh/cwb/forms/indiv-index.html>.
4. Hawaii Administrative Rules, Section 11-55-38, also requires the owner to either submit a copy of the new NOI or NPDES permit application to the State Department of Land and Natural Resources, State Historic Preservation Division (SHPD), or demonstrate to the satisfaction of the DOH that the project, activity, or site covered by the NOI or application has been or is being reviewed by SHPD.

Please submit a copy of the request for review by SHPD or SHPD's determination letter for the project.

If you have any questions, please contact the CWB at 586-4309.

Waste Water Branch Dated 3/2/04

All wastewater plans must conform to applicable provisions of the Department of Health's Administrative Rules, Chapter 11-62, "Wastewater Systems". We do reserve the right to review the detailed wastewater plans for conformance to applicable rules.

Should you have any questions, please contact the Planning & Design Section of the Wastewater Branch at 586-4294.

Clean Air Branch Dated 3/2/04

Construction/Demolition Involving Asbestos:

Since the proposed project would entail renovation/demolition activities which may involve asbestos, the applicant should contact the Asbestos Abatement Office in the Noise, Radiation and Indoor Air Quality Branch at 586-5800.

Control of Fugitive Dust:

A significant potential for fugitive dust emissions exists during all phases of construction. Proposed construction activities will occur in proximity to **existing residences, businesses, public areas and thoroughfares**, thereby exacerbating potential dust problems. It is recommended that a dust control management plan be developed which identifies and addresses all activities that have a potential to generate fugitive dust. Implementation of adequate dust control measures during all phases of development and construction activities is warranted.

Construction activities must comply with the provisions of Hawaii Administrative Rules, §11-60.1-33 on 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, the following:

- a) Plan the different phases of construction, focusing on minimizing the amount of dust-generating materials and activities, centralizing on-site vehicular traffic routes, and locating potential dust-generating equipment in areas of the least impact;
- b) Provide an adequate water source at the site prior to start-up of construction activities;
- c) Landscape and provide rapid covering of bare areas, including slopes, starting from the initial grading phase;
- d) Minimize dust from shoulders and access roads;

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

Hazard Evaluation and Emergency Response Office(HEER) Dated 3/2/04

1. A phase I Environmental Site Assessment (ESA) should be conducted for developments or redevelopments. If the investigation shows that a release of petroleum, hazardous substance, pollutants or contaminants occurred at the site, the site should be properly characterized through an approved Hawaii State Department of Health (DOH)/Hazard Evaluation and Emergency Response Office (HEER) soil and or groundwater sampling plan. If the site is found to be contaminated, then all removal and remedial actions to clean up hazardous substance or oil releases by past and present owners/tenants must comply with chapter 128D, Environmental Response Law, HRS, and Title 11, Chapter 451, HAR, State Contingency Plan.
2. All lands formerly in the production of sugarcane should be characterized for arsenic contamination, If arsenic is detected above the US EPA Region (preliminary remediation goal (PRG) for non-cancer effects, then a removal and or remedial plan must be submitted to the Hazard Evaluation and Emergency Response (HEER) Office of the State Department of Health for approval. The plan must comply with Chapter 128D, Environmental Response Law, HRS, and Title 11, Chapter 451, HAR, State Contingency Plan.
3. If the land has a history of previous releases of petroleum, hazardous substances, pollutants, or contaminants, we recommend that the applicant request a "no further action" (NFA) letter from the Hawaii State Department of Health (DOH)/Hazard Evaluation and Emergency Response (HEER) Office prior to the approval of the land use change or permit approval.

Safe Drinking Water Branch Dated 3/11/04

The Safe Drinking Water Branch administers programs in the areas of: 1) public water systems; 2) underground injection control; and 3) groundwater protection. Our general comments on projects are as follows.

Public Water Systems

Federal and state regulations define a public water system as a system that serves 25 or more individuals at least 60 days per year or has at least 15 service connections. All public water system owners and operators are required to comply with Hawaii Administrative Rules, Title 11, Chapter 20, titled Rules Relating to Potable Water Systems.

All new public water systems are required to demonstrate and meet minimum capacity requirements prior to their establishment. This requirement involves demonstration that the system will have satisfactory technical, managerial and financial capacity to enable the system to comply with safe drinking water standards and requirements.

Projects that propose development of new sources of potable water serving or proposed to serve a public water system must comply with the terms of Section 11-20-29 of Chapter 20. This section requires that all new public water system sources be approved by the Director of Health prior to its use. Such approval is based primarily upon the submission of a satisfactory engineering report which addresses the requirements set in Section 11-20-29.

The engineering report must identify all potential sources of contamination and evaluate alternative control measures which could be implemented to reduce or eliminate the potential for contamination, including treatment of the water source. In addition, water quality analyses for all regulated contaminants, performed by a laboratory certified by the State Laboratories Division of the state of Hawaii, must be submitted as part of the report to demonstrate compliance with all drinking water standards. Additional parameters may be required by the Director for this submittal or additional tests required upon his or her review of the information submitted.

All sources of public water system sources must undergo a source water assessment which will delineate a source water protection area. This process is preliminary to the creation of a source water protection plan for that source and activities which will take place to protect the source of drinking water.

Projects proposing to develop new public water systems or proposing substantial modifications to existing public water systems must receive approval by the Director of Health prior to construction of the proposed system or modification. These projects include treatment, storage and distribution systems of public water systems. The approval authority for projects owned and operated by a County Board or Department of Water or Water Supply has been delegated to them.

All public water systems must be operated by certified distribution system and water treatment plant operators as defined by Hawaii Administrative Rules, Title 11, Chapter 11-25 titled; Rules Pertaining to Certification of Public Water System Operators.

All projects which propose the use of dual water systems or the use of a non-potable water system in proximity to an existing potable water system to meet irrigation or other needs must be carefully design and operate these systems to prevent the cross-connection of these systems and prevent the possibility of backflow of water from the non-potable system to the potable system. The two systems must be clearly labeled and physically separated by air gaps or reduced pressure principle backflow prevention devices to avoid contaminating the potable water supply. In addition backflow devices must be tested periodically to assure their proper operation. Further, all non-potable spigots and irrigated areas

should be clearly labeled with warning signs to prevent the inadvertent consumption on non-potable water. Compliance with Hawaii Administrative Rules, Title 11, Chapter 11-21 titled; Cross-Connection and Backflow Control is also required.

All projects which propose the establishment of a potentially contaminating activity (as identified in the Hawai'i Source Water Assessment Plan) within the source water protection area of an existing source of water for a public water supply should address this potential and activities that will be implemented to prevent or reduce the potential for contamination of the drinking water source.

For further information concerning the application of capacity, new source approval, operator certification, source water assessment, backflow/cross-connection prevention or other public water system programs, please contact the Safe Drinking Water Branch at 586-4258.

Underground Injection Control (UIC)

Injection wells used for the subsurface disposal of wastewater, sewage effluent, or surface runoff are subject to environmental regulation and permitting under Hawai'i Administrative Rules, Title 11, Chapter 11-23, titled Underground Injection Control (UIC). The Department of Health's approval must be first obtained before any injection well construction commences. A UIC permit must be issued before any injection well operation occurs.

Authorization to use an injection well is granted when a UIC permit is issued to the injection well facility. The UIC permit contains discharge and operation limitations, monitoring and reporting requirements, and other facility management and operational conditions. A complete UIC permit application form is needed to apply for a UIC permit.

A UIC permit can have a valid duration of up to five years. Permit renewal is needed to keep an expiring permit valid for another term.

For further information about the UIC permit and the Underground Injection Control Program, please contact the UIC staff of the Safe Drinking Water Branch at 586-4258.

Groundwater Protection Program

Projects that propose to develop a golf course are asked to use the Guidelines Applicable to Golf Courses in Hawai'i (Version 6) in order to address certain groundwater protection concerns, as well as other environmental concerns

May 6, 2004

Mr. Micah A. Kane, Chairman
State of Hawaii
Department of Hawaiian Home Lands
P.O. Box 1879
Honolulu, Hawaii 96805

Dear Mr. Kane:

**SUBJECT: Kokee-Waineke Exploratory Well Pre-Assessment Consultation and
Addition of Kokee A-1 Exploratory Well**

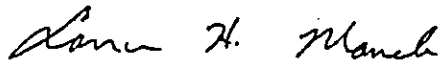
Thank you for your agency's response to the Pre-Assessment Consultation for Draft Environmental Assessment (EA) - Kokee-Waineke Exploratory Well. We understand your department has no comments at the present time.

The Department of Land and Natural Resources has decided to add a second exploratory well - Kokee A-1, to the scope of this project, therefore the Draft EA will include the assessment of both the Kokee-Waineke and Kokee A-1 Exploratory Wells. The Draft EA for the Kokee-Waineke and Kokee A-1 Exploratory Wells will be sent to you for your review and comment.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.



Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

FUKUNAGA & ASSOCIATES, INC.



LINDA LINGLE
GOVERNOR
STATE OF HAWAII



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

MICAH A. KANE
CHAIRMAN
HAWAIIAN HOMES COMMISSION

BEN HENDERSON
DEPUTY TO THE CHAIRMAN

KALANA IL PARK
EXECUTIVE ASSISTANT

April 6, 2004

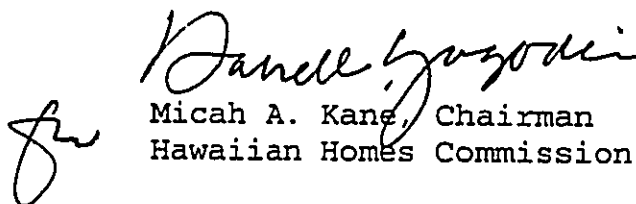
Mr. Lance H. Manabe
Fukunaga & Associates, Inc.
1388 Kapiolani Boulevard, 2nd Floor
Honolulu, Hawaii 96814

Dear Mr. Manabe:

Thank you for the opportunity to review the pre-assessment consultation summary on the Kokee-Waineke Exploratory Well on the island of Kauai in preparation of a draft environmental assessment. The Department of Hawaiian Home Lands has no comments to offer at this time.

If you have any questions, please call me at 586-3801 or call our Planning Office at 586-3836.

Aloha and mahalo,


Micah A. Kane, Chairman
Hawaiian Homes Commission

May 6, 2004

Mr. Gregg Fujikawa
Chief of Water Resources and Planning
County of Kauai – Department of Water
P.O. Box 1706
Lihue, Hawaii 96766

**SUBJECT: Kokee-Waineke Exploratory Well Pre-Assessment Consultation and
Addition of Kokee A-1 Exploratory Well**

Thank you for your agency's response to the Pre-Assessment Consultation for Draft Environmental Assessment (EA) - Kokee-Waineke Exploratory Well. We understand that your department has no comments at the present time. We will inform DLNR of the "Waiver and Release" agreement to be made with the Department of Water, County of Kauai.

The Department of Land and Natural Resources has decided to add a second exploratory well – Kokee A-1, to the scope of this project, therefore the Draft EA will include the assessment of both the Kokee-Waineke and Kokee A-1 Exploratory Wells. The Draft EA for the Kokee-Waineke and Kokee A-1 Exploratory Wells will be sent to you for your review and comment.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.



Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

FUKUNAGA & ASSOCIATES, INC.





Water has no substitute.....Conserve it

April 12, 2004

UID #4442

Mr. Lance Manabe
Fukunaga & Associates
1388 Kapiolani Blvd. 2nd floor
Honolulu, HI 96814

Dear Mr. Manabe:

Subject: Pre-Assessment Consultation for Draft Environmental Assessment – Koke'e-Waineke Exploratory Well, TMK: 1-4-1:13

This is in regard to your letter dated March 30, 2004 requesting our comments on the proposed exploratory well on parcel 13.

We do not have a domestic water system serving this area and, therefore, have no comments on the proposed exploratory well on parcel 13. However, the applicant for building permits serviced by this non-County water system, will be required to execute a "Waiver and Release" agreement with the Department of Water, agreeing that water service is not available from the Department of Water, County of Kauai.

If you have any questions, please call Edward Doi at 245-5417.

Sincerely,

A handwritten signature in black ink, appearing to read "Gregg Fujikawa".

Gregg Fujikawa
Chief of Water Resources and Planning

ED:bdm
24-155 Koke'e, Manabe

APPENDIX 6

**APPENDIX 6
Draft EA Consultation List**

Title	First Name	Last Name	Job Title	Organization	Address1	Address2	City	State	Zip Code
Mr.	George	Young	Chief	U.S. Army Engineer District, Honolulu	Regulatory Branch	Building 230	Fort Shafter	HI	96858- 5440
Ms.	Dierdre	Mamiya	Administrator	Department of Land and Natural Resources, Land Division	1151 Punchbowl Street	Room 220	Honolulu	HI	96813
Ms.	P. Holly	McEldowney	Administrator	Department of Land and Natural Resources, Historic Preservation Division	601 Kamokila Boulevard	Room 555	Kapolei	HI	96707
Mr.	William S.	Devick	Administrator	Department of Land and Natural Resources, Division of Aquatic Resources	1151 Punchbowl Street	Room 330	Honolulu	HI	96813
Mr.	Michael G.	Buck	Administrator	Department of Land and Natural Resources, Division of Forestry and Wildlife	1151 Punchbowl Street	Room 325	Honolulu	HI	96813
Mr.	Daniel S.	Quinn	Administrator	Department of Land and Natural Resources, Division of State Parks	P.O. Box 621		Honolulu	HI	96809
Mr.	Ernest Y.W.	Lau	Deputy Director	Department of Land and Natural Resources, Commission on Water Resource Management	P.O. Box 621		Honolulu	HI	96809
Mr.	Eric T.	Hirano	Chief Engineer	Department of Land and Natural Resources, Engineering Division	1151 Punchbowl Street	Room 221	Honolulu	HI	96809
Mr.	Clyde	Namuo	Administrator	Office of Hawaiian Affairs - Honolulu	711 Kapiolani Blvd.	Suite 500	Honolulu	HI	96813
Ms.	La-France	Kapaka- Arboleda	Administrator	Office of Hawaiian Affairs - Kauai	3-3100 Kuhio Highway	Suite C4	Lihue	HI	96766
Ms.	June F.	Harrington- Lum	Manager	Department of Health, Environmental Planning Office	P.O. Box 3378		Honolulu	HI	96801- 3378
Ms.	Genevieve	Salmonson	Director	Office of Environmental Quality Control	235 South Beretania Street	Suite 702	Honolulu	HI	96813
Mr.	Lawrence	Yamamoto	Acting State Conservationist	USDA Natural Resources Conservation Service	P.O. Box 50004		Honolulu	HI	96850- 0050
Mr.	Micah	Kane	Chairman	Hawaiian Homes Commission	Department of Hawaiian Home Lands	P.O. Box 1879	Honolulu	HI	96805

APPENDIX 6 (Continued)
Draft EA Consultation List

Title	First Name	Last Name	Job Title	Organization	Address1	Address2	City	State	Zip Code
-	-	-	-	UHM Water Resource Research Center	2540 Dole Street	Holmes Hall, Room 283	Honolulu	HI	96822
-	-	-	-	UHM Environmental Center	2550 Campus Road	Crawford 317	Honolulu	HI	96822
-	-	-	Pacific Islands Administrator	Department of the Interior Fish & Wildlife Services	300 Ala Moana Blvd.	Room 3-122	Honolulu	HI	96813
-	-	-	-	County of Kauai - Planning Department	4444 Rice Street	Suite 473	Lihue	HI	96766
Mr. Edward	Tschupp	-	Manager	County of Kauai - Department of Water	P.O. Box 1706		Lihue	HI	96766
-	-	-	-	County of Kauai - Public Works Department	4444 Rice Street		Lihue	HI	96766

APPENDIX 7

August 06, 2004

Mr. Micah A. Kane, Chairman
State of Hawaii
Department of Hawaiian Home Lands
P.O. Box 1879
Honolulu, Hawaii 96805

Dear Mr. Kane:

**SUBJECT: Finding of No Significant Impact (FONSI) for Drilling and Testing Kokee-Waineke and Kokee A-1 Exploratory Wells
TMK 1-4-04
Kokee, Kauai, Hawaii**

Thank you for your review and comment on the Draft EA. This letter is in response to the comments in your letter dated May 26, 2004.

1. Comment: (Page 1, B. Project Location) Based on the maps, photos and text, the proposed well sites are fairly close (50' – 1000') to two existing wells and within 3,500 – 4,000 feet from the Kokee Lodge. Selection of well sites and expansion of the water system should anticipate and avoid conflict with existing facilities and the direction of future growth. The Report notes (Page 11) that the sewage treatment plant for the Lodge and Restaurant could be a potential source of well contamination. And there is a recreation resident cabin about 300 feet from the exploratory wells. Are there suitable well locations more distant from the development and closer to the water tanks?

Response: The well sites selected involved not only careful consideration of existing well sources, system facilities, and recreational uses of the park; but also the hydrogeologic prospects for water development in the watershed. No suitable potential well sites closer the water tanks were identified. Although potential sources of contamination exists in the watershed, no contaminants related to the Department of Health's requirements for potable water sources, have been detected in the system's existing well sources. We do not anticipate any contamination problems with the proposed well location.

2. Comment: (Page 5, 5. Flora and Fauna) The general area is habitat to many endangered, threatened and rare native plants, and several native birds; so a qualified botanist should pre-inspect the areas that will be disturbed by construction.

FUKUNAGA & ASSOCIATES, INC.



Response: A botanical study was conducted for the Kokee and Waimea Canyon State Park Master Plan. Ten sites were surveyed by Botanical Consultants, Evangeline J. Funk, Ph.D., and findings documented in "Botanical Survey Report for Ten Kokee and Waimea Canyon State Park Sites". According to the study, no candidate, proposed, or listed threatened or endangered species as set forth in the Endangered Species Act of 1973, as amended (16 U.S.C. 1531-1543) were found.

A fauna study was conducted for the Kokee and Waimea Canyon State Park Master Plan. This report summarizes the findings of an ornithological and mammalian assessment made of 11 separate locations within the two parks. Rana Productions, Ltd., Reginald E. David documented findings in the report, "An Assessment of Avian and Terrestrial Mammalian Species Within Various Developed Areas in Kokee and Waimea Canyon State Parks, Kauai". The main recommendation regarding development within the parks is "To reduce the possibility that nocturnally flying Hawaiian Petrels and Newell's Shearwaters may be disoriented by external lights and collide with man-made structures, it is recommended that any external lighting within the 11 sites be shielded. This mitigation would minimize the threat of disorientation and downing of Hawaiian Petrels, and Newell's Shearwaters." The proposed work at the well sites will be done during daylight hours and it is not anticipated that any night work will be done on the exploratory well construction.

As a standard measure, should any suspected endangered, threatened or rare flora or fauna be encountered provisions to halt construction and contact the State Department of Land and Natural Resources, Division of Fish & Wildlife, Natural Area Reserves System (NARS) at (808) 587-0054.

3. **Comment:** The potential impacts of the project upon flow in nearby streams should be discussed; specifically, will there be any impacts on flows in Kokee Stream and the Kokee Ditch system?

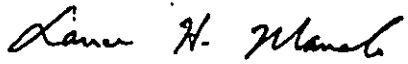
Response: The proposed development of an approximately 40 gpm well source for the Kokee/Waimea Canyon State Park water system, is not expected to impact nearby Kokee Stream or the Kokee Ditch system which derives the bulk of its water from watersheds outside (east) of the project watershed. Nevertheless, the streamflow in nearby Kokee Stream will be monitored for a period before, during, and after well tests are performed, as approved by the State Commission on Water Resource Management.

Mr. Micah A. Kane
August 06, 2004
Page 3 of 3

No significant environmental impacts are anticipated for this project; and the notice for the FONSI will be submitted to the Office of Environmental Quality Control. The Final EA will be mailed to you in the near future. If you have any questions or concerns, don't hesitate to call us at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.



Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

LINDA LINGLE
GOVERNOR
STATE OF HAWAII



MICAH A. KANE
CHAIRMAN
HAWAIIAN HOMES COMMISSION

BEN HENDERSON
DEPUTY TO THE CHAIRMAN

KAULANA H. PARK
EXECUTIVE ASSISTANT

STATE OF HAWAII
DEPARTMENT OF HAWAIIAN HOME LANDS

P.O. BOX 1879

HONOLULU, HAWAII 96805

May 26, 2004

Mr. Lance H. Manabe
Fukunaga & Associates, Inc.
1388 Kapiolani Blvd., 2nd Floor
Honolulu, Hawaii 96814

Dear Mr. Manabe:

Subject: Draft Environmental Assessment - Kokee-Waineke &
Kokee A-1 Exploratory Wells


Thank you for allowing our review of the subject report dated May 2004. Our comments:

1. (Page 1, B. Project Location) Based on the maps, photos and text, the proposed well sites are fairly close (50' - 1000") to two existing wells and within 3,500 - 4,000 feet from the Kokee Lodge. Selection of well sites and expansion of the water system should anticipate and avoid conflict with existing facilities and the direction of future growth. The Report notes (Page 11) that the sewage treatment plant for the Lodge and Restaurant could be a potential source of well contamination. And there is a recreation resident cabin about 300 feet from the exploratory wells. Are there suitable well locations more distant from development and closer to the water tanks?
2. (Page 5, 5. Flora and Fauna) The general area is habitat to many endangered, threatened and rare native plants, and several native birds; so a qualified botanist should pre-inspect the areas that will be disturbed by construction.
3. The potential impacts of the project upon flows in nearby streams should be discussed; specifically, will there be any impacts on flows in Kokee Stream and the Kokee Ditch system?

Mr. Lance H. Manabe
May 26, 2004
Page 2

If you have any questions, call Joe Chu at 586-4836.

Aloha and Mahalo,


Micah A. Kane, Chairman
Hawaiian Homes Commission



RECEIVED
MAY 27 2004
HAWAIIAN HOMES COMMISSION

August 02, 2004

Mr. William S. Devick, Administrator
State of Hawaii
Department of Land and Natural Resources
Division of Aquatic Resources

Dear Mr. Devick:

**SUBJECT: Finding of No Significant Impacts (FONSI) for Drilling and Testing Kokee-Waineke and Kokee A-1 Exploratory Wells
TMK 1-4-04
Kokee, Kauai, Hawaii**

Thank you for your review and comment on the Draft EA. This letter is in response to the comments in your letter dated June 23, 2004.

Comment: Besides examining the potential impact of the project on groundwater flows, impacts on surface stream flows should also be documented.


Response: The well sites selected involved not only careful consideration of existing well sources, system facilities, and recreational uses of the park; but also the hydrogeologic prospects for water development in the watershed. The exploratory well sites will be used to find a new potential water source for perched high-level water and should have negligible effects on the groundwater flows and sustainable yield within the Waimea Hydrological Sector.

The proposed development of an approximately 40 gpm well source for the Kokee/Waimea Canyon State Park water system, is not expected to impact nearby Kokee Stream or the Kokee Ditch system which derives the bulk of its water from watersheds outside (east) of the project watershed. Nevertheless, the streamflow in nearby Kokee Stream will be monitored for a period before, during, and after well tests are performed, as approved by the State Commission on Water Resource Management.

No significant environmental impacts are anticipated for this project; and the notice for the FONSI will be submitted to the Office of Environmental Quality Control. The Final EA will be mailed to you in the near future. If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.


Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources - Engineering Branch, Land Division

FUKUNAGA & ASSOCIATES, INC.



State of Hawaii
Department of Land and Natural Resources
DIVISION OF AQUATIC RESOURCES
June 23, 2004

MEMORANDUM

To: Dierdre S. Mamiya, Administrator
Land Division
From: William S. Devick, Administrator *WSD*
Division of Aquatic Resources
Subject: Comments on x Draft Environmental Assessment

Comments Requested By: Nicholas A. Vaccaro

Summary of Project

Applicant: Division of State Parks, DLNR, State of Hawaii
Location: Kokee, Kauai

Brief Description:

The State of Hawaii, Department of Land and Natural Resources (DLNR), Engineering Division for the Division of State Parks, is proposing to develop a new water source in the Kokee and Waimea Canyon State Park on Kauai. The purpose of this project is to drill and test two new exploratory wells for possible future development as potable water sources to serve the Kokee and Waimea Canyon State Parks.

The Division of State Parks is responsible for the development, operation and maintenance of the Kokee State Park water system. According to a sanitary survey report, done by the State Department of Health's Environmental Management Division (Sept. 9, 2003), the present water sources will not be sufficient to meet the future needs of the park.

The proposed Kokee-Waimeke exploratory well site is located approximately 3,500 feet southeast of the Kokee Lodge and approximately 500 feet southwest of the Noe Stream and Elekeninui Stream convergence. The proposed Kokee A-1 well site is located approximately 4,000 feet southeast of the Kokee Lodge, and approximately 500 feet west of the Elekeninui Stream and Elekeniiki Stream convergence, next to the existing Kokee Well A.

The long-term effects of the proposed project on the Waimea Aquifer will be determined from the exploratory well test results. Preliminary indications are that the proposed well, if developed, will not affect the quality of groundwater flows in the area. The proposed withdrawal of approximately 0.058 mgd would come from high-level perched water, and not from ground water in the Waimea Aquifer System.

Comments:

Besides examining the potential impact of the project on groundwater flows, impacts on surface stream flows should also be documented.

DLNR DIVISION OF AQUATIC RESOURCES

August 02, 2004

Ms. Dierdre S. Mamiya, Administrator
State of Hawaii
Department of Land and Natural Resources
Land Division
P.O. Box 621
Honolulu, Hawaii 96809

Dear Ms. Mamiya:

**SUBJECT: Finding of No Significant Impact (FONSI) for Drilling and Testing Kokee-Waineke
and Kokee A-1 Exploratory Wells
TMK 1-4-04
Kokee, Kauai, Hawaii**


Thank you for your review and comment on the Draft EA. We understand that DLNR has no other comments to offer on the Draft Environmental Assessment aside from comments given by the Commission on Water Resource Management and the response by the Kauai District Land Office.

No significant environmental impacts are anticipated for this project; and the notice for the FONSI will be submitted to the Office of Environmental Quality Control. The Final EA will be mailed to you in the near future.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.

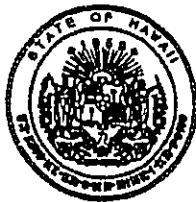

Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

FUKUNAGA & ASSOCIATES, INC.



LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

June 1, 2004

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

YVONNE Y. IZU
DEPUTY DIRECTOR - WATER

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

KOKEE-WAINEKEWELLEXP.RCM2
LD-NAV

Fukunaga & Associates, Inc.
Lance H. Manabe
1388 Kapiolani Blvd. 2nd Floor
Honolulu, Hawaii 96814

Dear Mr. Manabe:

SUBJECT: Draft Environmental Assessment for Kokee-Waineke and
Kokee A-1 Exploratory Wells
Kokee State Park, Island of Kauai, Hawaii

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

A copy of the document pertaining to the subject matter was transmitted to the following Department of Land and Natural Resources' (DLNR) Divisions for their review and comment:

- Division of Aquatic Resources
- Commission on Water Resource Management
- Engineering Division
- Land-Kauai District Land Office

Enclosed please find a copy of the Commission on Water Resource Management comment and Kauai District Land Office response.

The Department of Land and Natural Resources has no other 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 808-587-0384.

Very truly yours,

A handwritten signature in black ink, appearing to read "Dierdre S. Mamiya".

DIERDRE S. MAMIYA
Administrator

c: KDLO

August 02, 2004

Ms. June F. Harrigan-Lum, Manager
State of Hawaii
Department of Health, Environmental Planning Office
P.O. Box 3378
Honolulu, Hawaii 96801-3378

Dear Ms. Harrigan-Lum:

**SUBJECT: Finding of No Significant Impact (FONSI) for Drilling and Testing Kokee-Waineke and Kokee A-1 Exploratory Wells
TMK 1-4-04
Kokee, Kauai, Hawaii**

Thank you for your review and comment on the Draft EA. This letter is in response to the comments in your letter dated May 28, 2004.

1. **Comment:** The Army Corp of Engineers should be contacted at (808) 438-9258 to identify whether a Federal license or permit (including a Department of Army Permit) is required for this project. Pursuant to Section 401 (a)(1) of the Federal Water Pollution Act (commonly known as the "Clean Water Act"), a Section 401 Water Quality Certification is required for "[a]ny applicant for Federal license or permit to conduct any activity including, but not limited to, the construction or operation of facilities, which may result in any discharge into the navigable waters..."

Response: The Army Corp of Engineers was contacted and the determination that a Department of Army permit would not be required was rendered.

2. **Comment:** A National Pollutant Discharge Elimination System (NPDES) general permit coverage is required for the following activities:

- a. Storm water associated with industrial activities, as defined in Title 40, code of Federal Regulations, Sections 122.26(b)(14)(i) through 122.26(b)(14)(ix) and 122.26(b)(14)(xi).
- b. Construction activities, including clearing, grading, and excavation, that result in the disturbance of equal to or greater than one (1) acre 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. **An NPDES permit is required before commencement of the construction activities.**

FUKUNAGA & ASSOCIATES, INC.



- c. Discharges of treated effluent from leaking underground storage tank remedial activities.
- d. Discharges of once through cooling water less than one (1) million gallons per day.
- e. Discharges of hydrotesting water.
- f. Discharges of construction dewatering effluent.
- g. Discharges of treated effluent from petroleum bulk stations and terminals.
- h. Discharges of treated effluent from well drilling activities.
- i. Discharges of treated effluent from recycled water distribution systems.
- j. Discharges of storm water from a small municipal separate storm sewer system.
- k. Discharges of circulation water from decorative ponds or tanks.

The CWB requires that a Notice of Intent (NOI) to be covered by a NPDES general permit for any of the above activities be submitted at least 30 days before the commencement of the respective activities. The NOI forms may be picked up at our office or downloaded from our website at <http://www.state.hi.us/health/eh/cwb/forms/genl-index.html>.

Response: The NPDES permit requirements are included in the exploratory well construction documents. The Contractor is required to verify whether or not a NPDES permit is required and if so shall obtain such a permit prior to drilling the well.

3. **Comment:** The applicant may be required to apply for an individual NPDES permit if there is any type of activity in which wastewater is discharged from the project into State waters and/or coverage of the discharge(s) under the NPDES general permit(s) is not permissible (i.e. NPDES general permits do not cover discharges into Class 1 or Class AA receiving waters). An application for the NPDES permit is to be submitted at least 180 days before the commencement of the respective activities. The NPDES application forms may also be picked up at our office or downloaded from our website at <http://www.state.hi.us/health/eh/cwb/forms/indiv-index.html>.

Response: The NPDES permit requirements are included in the exploratory well construction documents. The Contractor is required to verify whether or not a NPDES permit is required and if so shall obtain such a permit prior to drilling the well.

Ms. June F. Harrigan-Lum
August 02, 2004
Page 3 of 3

4. Comment: Hawaii Administrative Rules, Section 11-55-38, also requires the owner to either submit a copy of the new NOI or NPDES permit application to the State Department of Land and Natural Resources, State Historic Preservation Division (SHPD), or demonstrate to the satisfaction of the DOH that the project, activity, or site covered by the NOI or application has been or is being reviewed by SHPD. Please submit a copy of the request for review by SHPD, or SHPD's determination letter for the project.

Response: The NPDES permit requirements are included in the exploratory well construction documents. The Contractor is required to verify whether or not a NPDES permit is required and if so shall obtain such a permit prior to drilling the well.

No significant environmental impacts are anticipated for this project; and the FONSI will be submitted to the Office of Environmental Quality Control. The Final EA will be mailed to you in the near future.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.



Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

LINDA LINGLE
GOVERNOR OF HAWAII



CHIYOME L. FUKINO, M.D.
DIRECTOR OF HEALTH

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

In reply, please refer to:
EPO-04-071a

May 28, 2004

Mr. Lance H. Manabe
Fukunaga & Associates, Inc.
1388 Kapiolani Blvd., 2nd Floor
Honolulu, Hawaii 96814

Dear Mr. Manabe:

SUBJECT: Draft Environmental Assessment – Kokee Waineke & Kokee A-1
Exploratory Wells.
TMK 1-4-004

Thank you for allowing us to review and comment on the subject document. We have the following comments to offer:

Clean Water Branch Standard Comments Dated 3/2/04

1. The Army Corps of Engineers should be contacted at (808) 438-9258 to identify whether a Federal license or permit (including a Department of Army permit) is required for this project. Pursuant to Section 401(a)(1) of the Federal Water Pollution Act (commonly known as the "Clean Water Act"), a Section 401 Water Quality Certification is required for "[a]ny applicant for Federal license or permit to conduct any activity including, but not limited to, the construction or operation of facilities, which may result in any discharge into the navigable waters...."
2. A National Pollutant Discharge Elimination System (NPDES) general permit coverage is required for the following activities:
 - a. Storm water associated with industrial activities, as defined in Title 40, Code of Federal Regulations, Sections 122.26(b)(14)(i) through 122.26(b)(14)(ix) and 122.26(b)(14)(xi).
 - b. Construction activities, including clearing, grading, and excavation, that result in the disturbance of equal to or greater than one (1) acre 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. **An NPDES permit is required before the commencement of the construction activities.**

Mr. Lance H. Manabe

May 28, 2004

Page 2

- c. Discharges of treated effluent from leaking underground storage tank remedial activities.
- d. Discharges of once through cooling water less than one (1) million gallons per day.
- e. Discharges of hydrotesting water.
- f. Discharges of construction dewatering effluent.
- g. Discharges of treated effluent from petroleum bulk stations and terminals.
- h. Discharges of treated effluent from well drilling activities.
- i. Discharges of treated effluent from recycled water distribution systems.
- j. Discharges of storm water from a small municipal separate storm sewer system.
- k. Discharges of circulation water from decorative ponds or tanks.

The CWB requires that a Notice of Intent (NOI) to be covered by a NPDES general permit for any of the above activities be submitted at least 30 days before the commencement of the respective activities. The NOI forms may be picked up at our office or downloaded from our website at <http://www.state.hi.us/health/eh/cwb/forms/genl-index.html>.

- 3. The applicant may be required to apply for an individual NPDES permit if there is any type of activity in which wastewater is discharged from the project into State waters and/or coverage of the discharge(s) under the NPDES general permit(s) is not permissible (i.e. NPDES general permits do not cover discharges into Class 1 or Class AA receiving waters). An application for the NPDES permit is to be submitted at least 180 days before the commencement of the respective activities. The NPDES application forms may also be picked up at our office or downloaded from our website at <http://www.state.hi.us/health/eh/cwb/forms/indiv-index.html>.
- 4. Hawaii Administrative Rules, Section 11-55-38, also requires the owner to either submit a copy of the new NOI or NPDES permit application to the State Department of Land and Natural Resources, State Historic Preservation Division (SHPD), or demonstrate to the satisfaction of the DOH that the project, activity, or site covered by the NOI or application has been or is being reviewed by SHPD. Please submit a copy of the request for review by SHPD or SHPD's determination letter for the project.

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

Sincerely,



JUNE F. HARRIGAN-LUM, MANAGER
Environmental Planning Office

c. CWB

August 02, 2004

Ms. Holly McEldowney, Acting Administrator
State of Hawaii
Department of Land and Natural Resources
Historic Preservation Division
Kakuhihewa Building, Room 555
601 Kamokila Boulevard
Kapolei, Hawaii 96707

Dear Ms. McEldowney:

**SUBJECT: Finding of No Significant Impact (FONSI) for Drilling and Testing Kokee-Waineke
and Kokee A-1 Exploratory Wells
TMK 1-4-04
Kokee, Kauai, Hawaii**

Thank you for your review and comment on the Draft EA in your letter dated June 4, 2004. We understand that DLNR State Parks Division received confirmation that "No historic sites were found at any of the well sites, nor was any evidence of cultural deposits seen in nearby roadcuts" and you have accepted the "Archaeological Assessment - Proposed Exploratory Wells Kokee State Park" report as final, and conclude that "no historic properties will be affected" by the proposed well construction.

No significant environmental impacts are anticipated for this project; and the notice for the FONSI will be submitted to the Office of Environmental Quality Control. The Final EA will be mailed to you in the near future.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

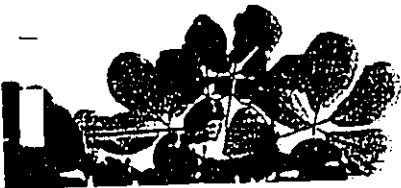
FUKUNAGA & ASSOCIATES, INC.



Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

FUKUNAGA & ASSOCIATES, INC.



LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

HISTORIC PRESERVATION DIVISION
KAKUHIHewa BUILDING, ROOM 655
801 KAMOKILA BOULEVARD
KAPOLEI, HAWAII 96707

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

YVONNE Y. ZU
DEPUTY DIRECTOR - WATER

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

June 24, 2004

MEMORANDUM

LOG NO: 2004.1637

DOC NO: 0405NM30

04 JUL 02 PM 10:36 BERT
DLNR

TO: Dan Quinn, Administrator
State Parks Division

FROM: P. Holly McEldowney, Administrator
State Historic Preservation Division

SUBJECT: Chapter 6E-8 Historic Preservation Review – Archaeological Assessment Report
for Exploratory Wells, Koke'e State Park, Waimea District, Kaua'i
TMK: 1-4-01: por 13 and 1-4-04: por. 29 (Yent, 2004)

Thank you for your report on the locations for the drilling and testing of three proposed well sites with Koke'e State Park (Yent, 2004 *Archaeological Assessment Report for Exploratory Wells, Koke'e State Park, Waimea District, Kaua'i*, State Parks, DLNR ms.). Our staff archaeologist accompanied your archaeologist on this assessment. We received the report on May 19, 2004, and provide the following comments.

The three proposed well sites underwent a surface survey. Each locale is about 30 feet by 30 feet in size, and all locales are adjacent to existing dirt roads. No historic sites were found at any of the well sites, nor was any evidence of cultural deposits seen in nearby roadcuts.

We can accept the assessment report as final, and conclude that "no historic properties will be affected" by the proposed well construction.

If you have any questions please call Nancy McMahon at 742-7033.

NM: sky

c: Wayne Souza, State Parks - Kaua'i
Eric Hirano, Engineering Division, DLNR
Ian Costa, Director, Planning Dept, County of
Chair, Kaua'i Historic Preservation Review Co

LINDA LINGLE
GOVERNOR OF HAWAII



June 4, 2004

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

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

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

YVONNE Y. IZU
DEPUTY DIRECTOR - WATER

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

Mr. Lance H. Manabe
Fukunaga & Associates, Inc.
1388 Kapiolani Blvd., 2nd Floor
Honolulu, Hawaii 96814

LOG NO: 2004.1614
DOC NO: 0405NM20

Dear Mr. Manabe:

**SUBJECT: Chapter 6E-8 Historic Preservation Review
Draft EA Kokee-Waineke and Kokee A-1 Exploratory Well
TMK: (4) 1-4-04: 13
Kokee, Waimea, Kauai**

Thank you for the opportunity to comment on the proposed well sites at Koke'e, which we received on May 12, 2004. As we stated previously to you in our letter of March 30, 2004, no archaeological inventory surveys or archaeological assessments have taken place in this project area. An archaeological field inspection was conducted with State Parks Archaeologist Martha Yent and State Historic Preservation Archaeologist, Nancy McMahon on May 5, 2004. No historic sites were found in the Area of Potential Effect nor is it likely that subsurface historic sites are present. Given the findings of the field inspection, we believe that "no historic properties will be affected" by the proposed action. We do, however, request that the results of the field inspection be documented by the Division of State Parks. To that end, we recommend that the following condition be attached to any approved permit:

- 1) An report documenting the results of the field inspection should be prepared in accordance with Hawaii Administrative Rules 13-275, and shall be submitted to the State Historic Preservation Division for review and approval.

If you have any questions, please call Nancy McMahon 742-7033.

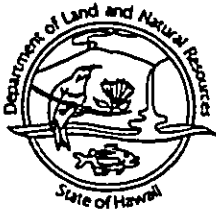
Aloha,

P. Holly McElDowney
P. HOLLY MCELLOWNEY, Administrator
State Historic Preservation Division

NM: sky

C: Dan Quinn, Administrator, State Parks [ATTN: Martha Yent]
Ian Costa, Director, Dept of Planning, County of Kaua'i
Chair, Kaua'i Historic Preservation Review Commission

LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

DIVISION OF STATE PARKS
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

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

May 14, 2004

MEMORANDUM:

TO: Holly McEldowney, Acting Administrator
Historic Preservation Division

ATTN: Sara Collins, Archaeology Branch Chief

FROM: Daniel Quinn, State Parks Administrator *Daniel Quinn*

SUBJECT: Archaeological Assessment for Exploratory Wells
Kōke'e State Park, Waimea District, Kaua'i
TMK: 1-4-01: por. 13 and 1-4-04: por. 29

Enclosed is an archaeological assessment for the drilling and testing of three proposed well sites within Kōke'e State Park. The assessment was conducted by State Parks archaeologist Martha Yent on May 5, 2004 for the Engineering Division of DLNR. She was accompanied by Nancy McMahan, Kaua'i Staff Archaeologist with SHPD.

The survey did not locate any archaeological sites at any of the three well sites. Therefore, we believe that this project will have no adverse impact on any historic sites. This assessment will be incorporated into the Final Environmental Assessment for the project.

A copy of the assessment has been forwarded directly to Nancy McMahan on Kaua'i.

cc: Nancy McMahan, SHPD-Kaua'i
Carty Chang, Engineering Division
Wayne Souza, Kaua'i District Parks Superintendent

704197 17 0411 14 ENGINEERING

August 02, 2004

Ms. Yvonne Y. Izu, Deputy Director
State of Hawaii
Department of Land and Natural Resources
Commission on Water Resource Management
P.O. Box 621
Honolulu, Hawaii 96809

Dear Ms. Izu:

**SUBJECT: Finding of No Significant Impact (FONSI) for Drilling and Testing Kokee-Waineke and Kokee A-1 Exploratory Wells
TMK 1-4-04
Kokee, Kauai, Hawaii**

Thank you for your review and comment on the Draft EA. This letter is in response to the comments in your letter dated May 21, 2004.

1. Comment: We recommend coordination with the county government to incorporate this project into the county's Water Use and Development Plan.

Response: The Kauai County Department of Water was consulted during both the Pre-Assessment Consultation and the Draft EA review process
2. Comment: We recommend coordination with the Engineering Division of the State Department of Land and Natural Resources to incorporate this project into the State Water Projects Plan.

Response: The proposed project is being coordinated by the Engineering Division of the State Department of Land and Natural Resources.
3. Comment: A Well Construction Permit and/or a Pump Installation Permit from the Commission would be required before ground water is developed as a source of supply for the project.

Response: We acknowledge that if the exploratory well proves suitable for permanent production a Well Construction Permit and/or a Pump Installation Permit from the Commission will be required before ground water is developed as a source of supply.

FUKUNAGA & ASSOCIATES, INC.



4. Comment: Groundwater withdrawals from this project may affect streamflows, which may require an instream flow standard amendment.

Response: The proposed exploratory wells are not expected to impact nearby Kokee Stream or the Kokee Ditch system, which derives the bulk of its water from watersheds outside (east) of the project watershed. Nevertheless, the streamflow in nearby Kokee Stream will be monitored for a period before, during, and after well tests are preformed, as approved by the Commission on Water Resource Management. If test pumping affects stream flow, an instream flow standard amendment may be required prior to developing the exploratory well as a production well.

5. Comment: If the proposed project includes construction of a stream diversion, the project may require a stream diversion works permit and amend the instream flow standards for the affected stream(s).

Response: The proposed project does not include construction of a stream diversion and should not require a stream diversion works permit and/or amendment to the instream flow standard for a stream diversion.

6. Comment: If the proposed project alters the bed and banks of a stream channel, the project may require a stream channel alteration permit.

Response: This project will not alter the bed and banks of stream channels and should not require a stream channel alteration permit.

7. Comment: As stated in our earlier response to the Pre-Assessment Consultation for the Draft Environmental Assessment, we recommend that the report address geologic / hydrologic conditions found in Well No. 0739-03 and also possible effects on nearby streams.

Response: The report on the well testing results for the new exploratory well will address the geologic/hydrologic conditions found in Well No. 0739-03, the Kokee-Noe Well and will be included in a separate Environmental Assessment for the well development. As stated earlier, the streamflow in nearby Kokee Stream will be monitored for a period before, during, and after well tests are preformed, as approved by the Commission on Water Resource Management. If test pumping affects stream flow, an instream flow standard amendment may be required prior to developing the exploratory well as a production well.


Ms. Yvonne Y. Izu
August 02, 2004
Page 3 of 3

No significant environmental impacts are anticipated for this project; and the notice for the FONSI will be submitted to the Office of Environmental Quality Control. The Final EA will be mailed to you in the near future.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.



Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

LINDA LINGLE
GOVERNOR OF HAWAII



RECEIVED

04 MAY 12 AM 11:11



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
RESOURCE MANAGEMENT LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

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

May 11, 2004

LD/NAV
KOEKE-WAINEKEWELLDEA.CMT

L-1812
Suspense Date: 5/31/04

MEMORANDUM:

TO: XXX Division of Aquatic Resources
Division of Forestry & Wildlife
Na Ala Hele Trails
XXX Engineering Division
Division of State Parks
Division of Boating and Ocean Recreation
XXX Commission on Water Resource Management
Office of Conservation and Coastal Lands
XXX Land-Kauai District Land Office
Land-Planning and Development

FROM: Dierdre S. Mamiya, Administrator
Land Division

SUBJECT: Draft Environmental Assessment for the Proposed Kokee-Waineke
and Kokee A-1 Exploratory Wells, Kokee State Park, Island of Kauai

Please review the attached DEA pertaining to the subject matter and submit
your comments (if any) to us on Division letterhead signed and dated by the
suspense date.

Should you need more time to review the subject matter, please contact
Nicholas A. Vaccaro at ext.: 7-0384.

If this office does not receive your comments by the suspense date, we will
assume there are no comments.

We have no comments.

Comments attached.

Date: 5-20-04

Signed: [Signature]

DIVISION: CWRM

Name: PETER T. YOUNG

LINDA LINGLE
GOVERNOR OF HAWAII

RECEIVED
LAND DIVISION



2004 MAY 21 P 3:18

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

PETER T. YOUNG
CHAIRPERSON

MEREDITH J. CHING
CLAYTON W. DELA CRUZ
JAMES A. FRAZIER
CHIYOME L. FUKINO, M.D.
STEPHANIE A. WHALEN

YVONNE Y. IZU
DEPUTY DIRECTOR

May 21, 2004

Ref: Kokee Exploratory Wells.dr

TO: Ms. Dede Mamiya, Administrator
Land Division

FROM: Yvonne Y. Izu, Deputy Director ^R
Commission on Water Resource Management (CWRM)

SUBJECT: Draft Environmental Assessment for the Proposed Kokee-Waineke and Kokee A-1 Exploratory
Wells, Kokee State Park, Island of Kauai

FILE NO.: KOKEE-WAINEKEWELLDEA.CMT

Thank you for the opportunity to review the subject document. Our comments related to water resources are marked below.

In general, the CWRM strongly promotes the efficient use of our water resources through conservation measures and use of alternative non-potable water resources whenever available, feasible, and there are no harmful effects to the ecosystem. Also, the CWRM encourages the protection of water recharge areas, which are important for the maintenance of streams and the replenishment of aquifers.

- We recommend coordination with the county government to incorporate this project into the county's Water Use and Development Plan.
- We recommend coordination with the Engineering Division of the State Department of Land and Natural Resources to incorporate this project into the State Water Projects Plan.
- We are concerned about the potential for ground or surface water degradation/contamination and recommend that approvals for this project be conditioned upon a review by the State Department of Health and the developer's acceptance of any resulting requirements related to water quality.
- A Well Construction Permit and/or a Pump Installation Permit from the Commission would be required before ground water is developed as a source of supply for the project.
- The proposed water supply source for the project is located in a designated water management area, and a Water Use Permit from the Commission would be required prior to use of this source.
- Groundwater withdrawals from this project may affect streamflows, which may require an instream flow standard amendment.
- We are concerned about the potential for degradation of instream uses from development on highly erodible slopes adjacent to streams within or near the project. We recommend that approvals for this project be conditioned upon a review by the corresponding county's Building Department and the developer's acceptance of any resulting requirements related to erosion control.
- If the proposed project includes construction of a stream diversion, the project may require a stream diversion works permit and amend the instream flow standard for the affected stream(s).
- If the proposed project alters the bed and banks of a stream channel, the project may require a stream channel alteration permit.
- OTHER:

As stated in our earlier response to the Pre-Assessment Consultation for the Draft Environmental Assessment, we recommend that the report address geologic/hydrologic conditions found in Well No. 0739-03 and also possible effects on nearby streams.

If there are any questions, please contact Glenn Bauer at 587-0263.

August 02, 2004

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

Dear Ms. Salmonson:

**SUBJECT: Finding of No Significant Impact (FONSI) for Drilling and Testing Kokee-Waineke and Kokee A-1 Exploratory Wells
TMK 1-4-04
Kokee, Kauai, Hawaii**

Thank you for your review and comment on the Draft EA. This letter is in response to the comments in your letter dated June 21, 2004.

1. Comment: Please assess the impacts on cultural resources.

Response: The assessment of impacts on cultural resources has been incorporated into the Final EA under Section VI – Determination, Findings, and Reasons for Supporting Determination.

2. Comment: Please provide your findings and reasons for supporting the finding of no significant impact based on all 13 significant criteria listed in HAR 11-200-12.

Response: The findings and reasons for supporting the finding of no significant impacts have been included in the Final EA under Section VI – Determination, Findings, and Reasons for Supporting Determination.

3. Comment: Please list all required permits and approvals.

Response: The list of required permits and approvals has been added to Section I – Project Description.

4. Comment: Please review the attached guidelines for well development and answer the pertinent questions.

Response: The guidelines for well development have been reviewed and questions relative to the exploratory well have been included in the Final EA. The remaining information required by the guidelines for well development will be completed during the well development phase of this project.

FUKUNAGA & ASSOCIATES, INC.




Ms. Genevieve Salmonson
August 02, 2004
Page 2 of 2

No significant environmental impacts are anticipated for this project; and the notice for the FONSI will be submitted. The Final EA will be mailed to you in the near future.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.


Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

LINDA LINGLE
GOVERNOR OF HAWAII



GENEVIEVE SALMONSON
DIRECTOR

STATE OF HAWAII
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

235 SOUTH BERETANIA STREET
SUITE 702
HONOLULU, HAWAII 96813
TELEPHONE (808) 586-4185
FACSIMILE (808) 586-4186
E-mail: oeqc@health.state.hi.us

June 21, 2004

Mr. Peter Young, Chair
Department of Land and Natural Resources
P.O. Box 621
Honolulu, Hawai'i 96809

Dear Mr. Young:


Subject: Draft Environmental Assessment for the Kokee Exploratory Wells, Kauai

Thank you for the opportunity to review the subject document. We have the following comments.

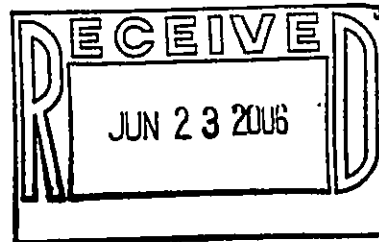
1. Please assess the impacts on cultural resources.
2. Please provide your findings and reasons for supporting the finding of no significant impact based on all 13 significant criteria listed in HAR 11-200-12. Please see the enclosed example.
3. Please list all required permits and approvals.
4. Please review the attached guidelines for well development and answer the pertinent questions.

Should you have any questions, please call Jeyan Thirugnanam at 586-4185.

Sincerely,


Genevieve Salmonson
Director

c: Fukunaga & Associates



From: Mokulele Highway/Puunene Bypass final EA (1997)

DETERMINATION, FINDINGS AND REASONS FOR SUPPORTING DETERMINATION

SIGNIFICANCE CRITERIA: According to the Department of Health Rules (I 1-200-12), an applicant or agency must determine whether an action may have a significant impact on the environment, including all phases of the project, its expected consequences both primary and secondary, its cumulative impact with other projects, and its short and long-term effects. In making the determination, the Rules establish "Significance Criteria" to be used as a basis for identifying whether significant environmental impact will occur. According to the Rules, an action shall be determined to have a significant impact on the environment if it meets any one of the following criteria:

- (1) Involves an irrevocable commitment to loss or destruction of any natural or cultural resources;

The proposed project will not impact scenic views of the ocean or any ridge lines in the area. The visual character of the area will change from the current agricultural land to an improved 4-lane highway which is compatible with the surrounding land use plans and programs being implemented for the region. The highway corridor is comprised of "Prime" agricultural land which is an important resource. Development of drainage systems will follow established design standards to ensure the safe conveyance and discharge of storm runoff. In addition, the subject property is located outside of the County's Special Management Area (SMA).

As previously noted, no significant archaeological or historical sites are known to exist within the corridor. Should any archaeologically significant artifacts, bones, or other indicators of previous onsite activity be uncovered during the construction phases of development, their treatment will be conducted in strict compliance with the requirements of the Department of Land and Natural Resources.

- (2) Curtails the range of beneficial uses of the environment;

Although the subject property is suitable for agricultural uses, the land area adjoining the Mokulele Highway is naturally suited for transportation purposes due to its location proximate to an existing highway system. To return the site to a natural environmental condition is not practical from both an environmental and economic perspective.

- (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 proposed development is consistent with the Environmental Policies established in Chapter 344, HRS, and the National Environmental Policy Act.

- (4) Substantially affects the economic or social welfare of the community or state;

The proposed project will provide a significant contribution to Maui's future population by providing residents with the opportunity to "live and work in harmony" in a high quality living environment. The proposed project is designed to support surrounding land use patterns, will not negatively or significantly alter existing residential areas, nor will unplanned population growth or its distribution be stimulated. The project's development is responding to projected population growth rather than contributing to new population growth by stimulating in-migration.

- (5) Substantially affects public health

Impacts to public health may be affected by air, noise, and water quality impacts, however, these will be insignificant or not detectable, especially when weighed against the positive economic, social, and quality of life implications associated with the project. Overall, air, noise, and traffic impacts will be significantly positive in terms of public health as compared to the "no action" alternative.

- (6) Involves substantial secondary impacts, such as population changes or effects on public facilities

Existing and planned large-scale housing development projects within Wailuku-Kahului and Kihei will contribute to a significant population growth rate that will require expansion of public and private facilities and services. These

improvements will become necessary as the overall population of Maui grows and settlement patterns shift. However, the proposed project will not in itself generate new population growth, but provide needed infrastructure the area's present and future population.

In addition, new employment opportunities will generate new sources of direct and indirect revenue for individuals and the County of Maui by providing both temporary and long-term employment opportunities during the construction period. Indirect employment in a wide range of service related industries will also be created from construction during project development.

(7) Involves a substantial degradation of environmental quality;

The proposed development will utilize existing vacant agricultural land. With development of the proposed project, the addition of urban landscaping will significantly mitigate the visual impact of the development as viewed from outside the site while the overall design will complement background vistas.

Makai views from the subject property are available, however, they are not significant nor generally, available to the public in the property's present restricted condition.

(8) Is individually limited but cumulatively has considerable effect on the environment, or involves a commitment for larger actions;

By planning now to address the future needs of the community and the State, improvement of the transportation system is consistent with the long term plans for Maui. No views will be obstructed or be visually incompatible with the surrounding area.

(9) Substantially affects a rare, threatened or endangered species or its habitat;

No endangered plant or animal species are located within the highway corridor.

(10) Detrimentially affects air or water quality or ambient noise levels;

Any possible impact to near-shore ecosystems resulting from surface runoff, will be mitigated by the establishment of on-site retention basins during the construction phases of development. After development, retention areas within the highway right-of-way will serve the same function to encourage recharge of the groundwater.

(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, freshwater, or coastal waters.

Development of the property is compatible with the above criteria since there are not environmentally sensitive areas associated with the project and the physical character of the corridor has been previously disturbed by agricultural uses. As such, the property no longer reflects a "natural environment". Shoreline, valleys, or ridges will not be impacted by the development.

(12) Substantially affects scenic vistas and view planes identified in county or state plans or studies;

Due to topographical characteristics of the property, views of the area to be developed are generally not significant although they are visible. The majority of the proposed project will not be visible, except from higher elevations by the general public or from persons traveling along the highway.

(13) Requires substantial energy consumption.

The location of the proposed project is between Maui's major growth areas. This relationship will reduce travel times and energy consumption after project build out through efficiencies gained by the increased capacity of the highway. Construction of the proposed project will not require substantial energy consumption relative to other similar projects.

August 02, 2004

Mr. Thomas H. Oi
State of Hawaii
Department of Land and Natural Resources
Land Division – Kauai District Land Office
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Oi:


**SUBJECT: Finding of No Significant Impact (FONSI) for Drilling and Testing Kokee-Waineke
and Kokee A-1 Exploratory Wells
TMK 1-4-04
Kokee, Kauai, Hawaii**

Thank you for your input in the Environmental Review Process. We understand that you have no comments on the Draft EA. The Final EA will be mailed to you in the near future.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

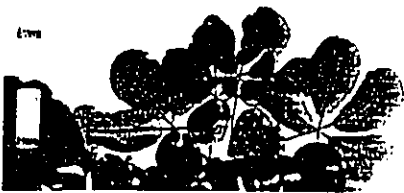
FUKUNAGA & ASSOCIATES, INC.



Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

FUKUNAGA & ASSOCIATES, INC.



LINDA LINGLE
GOVERNOR OF HAWAII

RECEIVED
LAND DIVISION



2004 MAY 26 A 9:57



STATE OF HAWAII
DEPT. DEPARTMENT OF LAND AND NATURAL RESOURCES
NATURAL RESOURCES LAND DIVISION
STATE OF HAWAII POST OFFICE BOX 621
HONOLULU, HAWAII 96809

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

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

May 11, 2004

LD/NAV
KOKEE-WAINEKEWELLDEA.CMT

L-1812
Suspense Date: 5/31/04

MEMORANDUM:

TO: XXX Division of Aquatic Resources
Division of Forestry & Wildlife
Na Ala Hele Trails
XXX Engineering Division
Division of State Parks
Division of Boating and Ocean Recreation
XXX Commission on Water Resource Management
Office of Conservation and Coastal Lands
XXX Land-Kauai District Land Office
Land-Planning and Development

FROM: Dierdre S. Mamiya, Administrator
Land Division

SUBJECT: Draft Environmental Assessment for the Proposed Kokee-Waineke
and Kokee A-1 Exploratory Wells, Kokee State Park, Island of Kauai

Please review the attached DEA pertaining to the subject matter and submit
your comments (if any) to us on Division letterhead signed and dated by the
suspense date.

Should you need more time to review the subject matter, please contact
Nicholas A. Vaccaro at ext.: 7-0384.

If this office does not receive your comments by the suspense date, we will
assume there are no comments.

We have no comments.

Comments attached.

Date: 5/20/2004

Signed: [Signature]

DIVISION: LAND

Name: THOMAS A. OI 5-11-04

400123104

August 02, 2004

Mr. Gregg Fujikawa
Chief of Water Resources and Planning
County of Kauai – Department of Water
P.O. Box 1706
Lihue, Kauai, Hawaii 96766

Dear Mr. Fujikawa:

**SUBJECT: Finding of No Significant Impact (FONSI) for Drilling and Testing Kokee-Waineke
and Kokee A-1 Exploratory Wells
TMK 1-4-04
Kokee, Kauai, Hawaii**

Thank you for your input in the Environmental Review Process. We understand that you have no domestic water system serving the project area and therefore have no comments for the proposed exploratory wells. The Final EA will be mailed to you in the near future.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

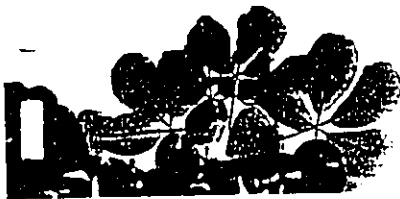
FUKUNAGA & ASSOCIATES, INC.



Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

FUKUNAGA & ASSOCIATES, INC.





Water has no substitute.....Conserve it

May 18, 2004

UID #4442

Mr. Lance Manabe
Fukunaga & Associates
1388 Kapiolani Blvd. 2nd floor
Honolulu, HI 96814

Dear Mr. Manabe:

Subject: Draft Environmental Assessment – Koke'e-Waineke & Koke'e A-1 Exploratory Well, TMK: 1-4-01:13, Koke'e, Kaua'i, Hawai'i.

This is in regard to your letter dated May 11, 2004 requesting our comments for the proposed exploratory well on parcel 13.

We do not have a domestic water system serving this area and therefore, have no comments for the proposed exploratory well on parcel 13. However, the applicant for building permits serviced by this non-County water system, will be required to execute a "Waiver and Release" agreement with the Department of Water (DOW), agreeing that water service is not available from the DOW, County of Kaua'i.

If you have any questions, please call Edward Doi at 245-5417.

Sincerely,

A handwritten signature in black ink, appearing to read "Gregg Fujikawa".

Gregg Fujikawa
Chief of Water Resources and Planning

ED:bdm
24-223 Koke'e, Manabe

August 02, 2004

Mr. Michael G. Buck
Administrator
Department of Land and Natural Resources
Division of Forestry and Wildlife
1151 Punchbowl Street, Room 325
Honolulu, Hawaii 96813

Dear Mr. Buck:

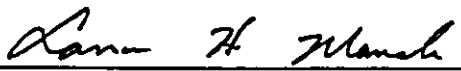
**SUBJECT: Finding of No Significant Impact (FONSI) for Drilling and Testing Kokee-Waineke
and Kokee A-1 Exploratory Wells
TMK 1-4-04
Kokee, Kauai, Hawaii**

Thank you for your input in the Environmental Review Process. We understand that you have no comments on the Draft EA. The Final EA will be mailed to you in the near future.

If you have any questions or concerns, don't hesitate to call me at 944-1821.

Sincerely yours,

FUKUNAGA & ASSOCIATES, INC.


Lance H. Manabe, Project Engineer

cc: Department of Land and Natural Resources -
Engineering Branch, Land Division

FUKUNAGA & ASSOCIATES, INC.



→ Nelson, Appropriate
Action

May 11, 2004

Mr. Michael G. Buck
Administrator
Division of Forestry and Wildlife
1151 Punchbowl Street, Room 325
Honolulu, Hawaii 96813

**SUBJECT: Draft Environmental Assessment – Kokee-Waineke & Kokee A-1
Exploratory Wells**

As a follow-up to our Pre-Assessment Consultation letter of March 30, 2004, we are transmitting the Draft Environmental Assessment for the subject project for your review and comment. The 30-day comment deadline is June 22, 2004.

Please call us at (808) 944-1821 if you have any questions.

Sincerely,
FUKUNAGA & ASSOCIATES, INC.

Lance H. Manabe

Lance H. Manabe

encl.

cc: Department of Land and Natural Resources –
Engineering Branch, Land Division w/o enclosure

We have no comments.

Comments attached.

Signed: _____

Paul G. Conroy

for Michael G. Buck
DOFAW Administrator

Date: _____

MAY 12 2004

