August 10, 1990

Mr. William W. Paty
Chairperson
Commission on Water Resource Management
State of Hawaii
Department of Land and Natural Resources

Dear Mr. Paty:

With your approval and subject to certain conditions, (letter dated May 29, 1990) we did engage Mr. Dan Lum of Water Resources Associates as our consultant to construct and test Hawaii Kai Golf Course Well (Well #1040-08) for possible golf course irrigation.

Mr. Lum's report indicates no brackish ground water and the salinity of the test well is far too high for golf course irrigation.

The test well was sealed with sand and cement grout. Although we met with negative results, we thank you for affording us this opportunity to explore this avenue for golf course irrigation and minimize our dependency on portable water.

As directed, a copy of the report has been submitted to:

Division of Water and Land Development
Geology - Hydrology Section

Sincerely;

Peter T. Suemori
Director & General Manager
August 7, 1990

Mr. Peter Suemori
Director & General Manager
Hawaii Kai Golf Course

Dear Peter:

Hawaii Kai Golf Course Well 1840-08

We are pleased to enclose six copies of "Results of Exploratory Drilling and Testing Hawaii Kai Golf Course Well No. 1840-08" which completes the project to investigate and explore the feasibility of developing a brackish ground water supply for irrigation purposes.

The exploratory test well, in our opinion, indicates that no brackish ground water occurs on the golf course property, or anywhere east of Kalama Valley. The salinity of the test well was 4,200 parts per million chlorides--far too high for golf course irrigation and impractical as a source for mixing with fresh water. As approved, the test well was sealed with sand and cement grout.

We have enjoyed working with you on this project and if we can be of service to you in the future, please let us know.

Sincerely,

[Signature]

DAN LUM
President
August 10, 1990

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Chairperson
Commission on Water Resource Management
State of Hawaii
Department of Land and Natural Resources

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Sincerely,

DAN LUM
President
Honorable John C. Lewin, M.D.
Director
Department of Health
State of Hawaii

Attn. Mr. Thomas Arizumi, Drinking Water Branch

Dear Dr. Lewin:

Well Construction/Pump Installation Permit Applications

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168-12(c), we are sending you a copy of the following permit applications for your review:

Moloaa-Mattson Well (Well No. 1120-07)
Hawaii Kai Golf Course Well (Well No. 1840-08)
Kahuku-Ku'ulima Resort Well (Well No. 4158-14)
Kamaole-Bosa Well (Well No. 4326-07)
Keauhou-Kamehameha Investment Corporation Well (Well No. 3355-01)

Please submit your comments to us, orally or in writing, within three weeks from the date of this letter.

If you have any questions, please contact Manabu Tagomori at

Very truly yours,

WILLIAM W. PATY

Enc.
Dear Mrs. Drake:

Well Construction/Pump Installation Permit Applications

We are sending you a copy of the following permit applications and ask that your staff review each application to determine if Hawaiian Home Lands may be affected:

- Moloaa-Mattson Well (Well No. 1120-07)
- Hawaii Kai Golf Course Well (Well No. 1840-08)
- Kahuku-Kuilima Resort Well (Well No. 4158-14)
- Kamaole-Bosa Well (Well No. 4326-07)
- Keauhou-Kamehameha Investment Corporation Well (Well No. 3355-01)

Please submit your comments to us, orally or in writing, within three weeks from the date of this letter.

If you have any questions, please contact Manabu Tagomori at [redacted]

Very truly yours,

WILLIAM W. PATY
HONOLULU WATER MANAGEMENT AREA

WELL CONSTRUCTION PERMIT

for

Hawaii Kai Golf Course Well
Well No. 1840-08
Hawaii Kai, Oahu

TO: Hawaii Kai Golf Course

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to construct and test Hawaii Kai Golf Course Well (Well No. 1840-08) for golf course irrigation use is approved subject to the following conditions:

1. The Division of Water and Land Development (DOWALD), Geology-Hydrology Section, shall be notified at before any work covered by this permit commences.

2. This permit shall be for construction and testing only. No permanent pump may be installed and no water used from the well without the necessary pump installation and water use permits from the Commission.

3. The issuance of this permit shall in no way prejudice any future consideration by the Commission on the issuance or non-issuance of a permit to withdraw and use water from the well.

4. The proposed use shall not adversely affect existing legal uses in the area.
5. The grouted annulus of the well shall be from 0 to 100 ft, instead of from 0 to 20 ft. as proposed. The grouted annular space shall be at least 2 inches all around the casing.

6. The following shall be submitted to [Insert Address] within 30 days after completion of the well:

   a. Well Completion Report.
   
   b. Elevation (referenced to mean sea level) survey by a Hawaii-licensed surveyor.
   
   c. As-built sectional drawing of the well.
   
   d. Plot plan and map showing the exact location of the well.
   
   e. Complete pumping test record, including time, pumping rate, drawdown, chloride content, and water quality data.

7. The applicant shall comply with all applicable laws, rules, and ordinances.

8. This permit may be revoked if work is not started within six months of the date of issuance or if work is suspended or abandoned for six months. The work shall be completed within two years of the date of issuance.

WILLIAM W. PATY, Chairperson
Commission on Water Resource Management

Date of Issuance

cc: USGS
Department of Health
Drinking Water Branch
Ground Water Protection Program
Honolulu Board of Water Supply
May 14, 1990

The Honorable William W. Paty, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii

Dear Mr. Paty:

SUBJECT: WELL CONSTRUCTION PERMIT APPLICATION
HAWAII KAI GOLF COURSE WELL
STATE WELL NO. 1840-08

Thank you for the opportunity to review and comment on the subject application. We have examined the application and have the following comments to offer:

1. The application indicates that the proposed well will be limited to golf course irrigation. Thus, the Department's Administrative Rules, Title 11, Chapter 20, "Potable Water Systems," will not be applicable. However, in the event that the proposed uses were to change, please inform the Safe Drinking Water Branch.

2. The proposed well is situated above the Underground Injection Control (UIC) line. Land areas above the UIC line are considered to contain underground sources of drinking water. Thus, it is essential that the well be designed and constructed to prevent the possibility of groundwater contamination. For example, the well should have a concrete well pad and full grouting to prevent seepage or floodwaters from migrating down the well shaft.
The Honorable William W. Paty
Page 2
May 14, 1990

If you should have any questions, please contact the Safe Drinking Water Branch at [redacted].

Very truly yours,

[Signature]

JOHN C. LEWIN, M.D.
Director of Health

cc: Peter T. Suemori
Hawaii Kai Golf Course
[Redacted]
CHECKLIST

WELL CONSTRUCTION PERMIT

WELL NAME or LOCATION: Hawaii Kai Golf Course Well
WELL NUMBER: 1840-08
OWNER or OPERATOR: Hawaii Kai Golf Course
TELEPHONE (contact person): Peter T. Suenori

Date application received: 3-30-90
Date acknowledged receipt/request more info: 
Date application accepted: 
Suspense date (90 days): 
Date filing fee deposited: 

Application sent to following:

<table>
<thead>
<tr>
<th>Dept. of Health</th>
<th>Date sent</th>
<th>Comments received</th>
</tr>
</thead>
<tbody>
<tr>
<td>County water board/dept</td>
<td>4-16-90</td>
<td>4-30-90</td>
</tr>
</tbody>
</table>

Date agenda due: 
Date submittal due: 
Date submittal sent to applicant: 

Date application approved or disapproved: 
Date applicant notified of decision: 

REMARKS: 

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May 16, 1990

Chairperson and Members
Commission on Water Resource Management
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Hawaii Kai Golf Course
Application for a Well Construction Permit
Hawaii Kai Golf Course Well, Hawaii Kai, Oahu

Applicant: Hawaii Kai Golf Course
Landowner: Atsugi Kokusai Kanko Co.

Action Requested: Permission to construct and test a 155 ft. deep exploratory well (Well No. 1840-08), in Hawaii Kai.

Proposed Amount of Withdrawal: 140,000 gallons per day.

Well Description:
- Ground elevation: 125 ± ft.
- Casing diameter: 6-inch
- Solid casing depth: 135 ft.
- Screen casing depth: none
- Open Hole: 20 ft.
- Total depth: 155 ft.

Analysis: The well will explore the possibility of developing a brackish, basal water source for golf course irrigation. No adverse impacts are expected.

Water Availability: The well is located in the Honolulu Sector, Waialae System of Oahu, according to the latest work in conjunction with the Hawaii Water Plan. Sustainable yield is estimated at 3 mgd.

RECOMMENDATION:

That the Commission approve the issuance of a well construction permit for Hawaii Kai Golf Course Well, subject to the following conditions:

(1) The Division of Water and Land Development (DOWALD) shall be notified before work commences.

Approved by Commission on Water Resource Management at the meeting held on MAY 16, 1990
Chairperson and Members
Commission on Water Resource Management

May 16, 1990

(2) The permit shall be for construction and testing only. No permanent pump may be installed and no water used from the well without the necessary pump installation and water use permits from the Commission.

(3) The issuance of the permit shall in no way prejudice any future consideration by the Commission on the issuance or non-issuance of a permit to withdraw and use water from the well.

(4) The proposed use shall not adversely affect existing legal uses in the area.

(5) The grouted annulus of the well shall be from 0 to 100 ft. instead of from 0 to 20 ft. as proposed. The grouted annular space shall be at least 2 inches all around the casing.

(6) The following shall be submitted to DOWALD within 30 days after completion of the well:
   a. Well Completion Report.
   b. Elevation (referenced to mean sea level) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.
   e. Complete pumping test record; including time, pumping rate, drawdown, chloride content, and water quality data.

(7) The applicant shall comply with all applicable laws, rules, and ordinances.

(8) The permit may be revoked if work is not started within six months of the date of issuance or if work is suspended or abandoned for six months. The work shall be completed within two years of the date of issuance.

Respectfully submitted,

MANABU TAGOMORI
Deputy Director

APPROVAL FOR SUBMITTAL:

WILLIAM W. PATY, Chairperson
May 8, 1990

Hawaii Kai Golf Course

Gentlemen:

The Commission on Water Resource Management will be acting on your well construction permit application for Hawaii Kai Golf Course Well (Well No. 1840-08) at its meeting on Wednesday, May 16, 1990, at 2:00 p.m. in the State Office Building, Conference Rooms B & C.

Your application will be included on the agenda as Item 8 (enclosed).

You or your representative are invited to attend the meeting.

Sincerely,

ES:bm
Enc.
April 25, 1990

Mr. Manabu Tagomori, Deputy Director
Commission on Water Resource
Management
Department of Land and Natural Resources
State of Hawaii

Dear Mr. Tagomori:

Subject: Well Construction Permit for Hawaii Kai Golf Course, TMK: 3-9-10:06, and Pump Installation Permit for Well at Kualima Resort Golf Course, TMK: 5-1-03: 44

Thank you for the opportunity to comment on the applications. We have no objections to the issuance of a permit to drill a well at Hawaii Kai Golf Course to develop brackish water for irrigation. However, the Kualima Golf Course well may compete with the State's proposed Kahuku Agricultural Park for the area's remaining developable basal water resources. We understand that instead of encountering brackish water for golf course irrigation, the well water met potable standards for salinity at 162 ppm chloride. If the permit is approved, then the proposed agricultural park should cut back its water requirement to prevent pumpages from exceeding the sustainable yield of the groundwater basin.

Very truly yours,

KAZU HAYASHIDA
Manager and Chief Engineer

Pure Water... man's greatest need - use it wisely
April 16, 1990

Mr. Kazu Hayashida  
Manager and Chief Engineer  
Board of Water Supply  
City and County of Honolulu

Dear Mr. Hayashida:

Well Construction/Pump Installation Permit Applications

We are sending you a copy of the following permit applications for your review:

- Hawaii Kai Golf Course Well (Well No. 1840-08)  
- Kahuku-Kuilima Resort Well (Well No. 4158-14)

Please submit your comments to us, orally or in writing, within three weeks from the date of this letter.

If you have any questions, please contact Ed Sakoda at [Redacted].

Sincerely,

/s/ Manabu Tagomori

MANABU TAGOMORI  
Deputy Director

ES:bm  
Enc.
March 28, 1990

Mr. Manabu Tagomori
Manager-Chief Engineer
Division of Water and Land Development

Dear Mr. Tagomori:

Hawaii Kai Golf Course Exploratory Well

Enclosed is an application for a Well Construction Permit for an exploratory well to locate a brackish, non-potable groundwater source suitable for golf course irrigation. If test results are successful, we will apply for a permit to use the well to supplement our existing municipal source of supply.

If you have any questions, please call me at [redacted].

Sincerely,

[Signature]
Peter T. Suemori
Director & General Manager

Encl.
APPLICATION FOR

WELL CONSTRUCTION PERMIT

PUMP INSTALLATION PERMIT

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water and Land Development. Application must be accompanied by a non-refundable filing fee of $12.00 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 3. Hydrology/Geology Section for assistance.

1. WELL LOCATION

Island: Oahu

Tax Map Key: 3-9-10:6

Address: Hawaii Kai

(Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER

Firm Name: Hawaii Kai Golf Course

Contact Person: Peter T. Suemori

Address: _____________________________________________________

LANDOWNER

Firm Name: Atsugi Kokusai Kanko Co.

Contact Person: Peter T. Suemori

Address: _____________________________________________________

3. PROPOSED CONTRACTOR FOR: □ Well Drilling □ Pump Installation

Name: Not available

Address: _____________________________________________________

Contractor's License No: ____________________________

4. PROPOSED WORK

☐ Drill New Well

☐ Deepen

☐ Replace Pump

☐ Redrill

☐ Alter

☐ Seal

☐ Modify Pump

☐ Install New Pump

☐ Replace Pump

☐ Abandon

☐ Modify Pump

(Briefly describe the proposed work and fill in the diagram on the back of this form.)

5. PROPOSED USE

☐ Municipal (including hotels, stores, etc.)

☐ Military

☐ Domestic (individual, noncommercial water systems)

☐ Irrigation (specify): Golf Course

☐ Industrial

☐ Other (specify): ____________________________

6. PROPOSED AMOUNT OF WITHDRAWAL: 140,000 gallons per day

7. PROPOSED PUMP INFORMATION

Pump Type: ☐ Vertical Turbine

☐ Submersible

☐ Centrifugal

Motor: ☐ Diesel

☐ Gas

☐ Electric: ____________________________

Rated Horsepower

Rated Pump Capacity: 100+ gallons per minute (gpm)

Well Owner (print): Hawaii Kai Golf Course

Signature: ____________________________

Date: 3/28/90

Field Checked By: ____________________________

Latitude: ____________________________

Hydrologic Unit:

Date: ____________________________

Longitude: ____________________________

State Well No.: 1640-08

For Official Use Only:

Landowner (print): Atsugi Kokusai Kanko Co.

Signature: ____________________________

Date: 3/28/90

Its: Secretary

Latitude: ____________________________

State Well No.: 1640-08
Briefly describe the proposed work:

Drill and test a 6-inch diameter exploratory well to locate a brackish water source for golf course irrigation. If successful, a water use permit will be applied for to use the well to supplement and conserve existing potable water supply.

*Approximate elevation at time of filing application. Final elevation (msl) by a surveyor licensed by the State must be submitted at start of construction.