CHECKLIST

✓ Well Construction Permit

Water Use Permit Required Also

(3-25-08-10 to 13)

Well Name & Number Lyahualei Golf Course Wells 1 & 4

Island Oahu

Applicant Kabushiki Kaisha Oban

Landowner Same

Consultant Hida, Okamoto & Assoc., Inc.

Date application received............................ 7/19/93
✓ Date acknowledged receipt/request more info........... 8/23/93
✓ Date filing fee deposited.................................

Application sent to following: Date sent Comments received

Dept. of Health

Safe Drinking Water Branch 6/23

Wastewater Branch

Office of Hawaiian Affairs

Dept. of Hawaiian Home Lands

State Historic Preservation Div.

Sierra Club Legal Defense Fund

Honolulu Board of Water Supply

Hawaii Dept. of Water Supply

Kauai Dept. of Water Supply

Hawaii Dept. of Water Supply

Hawaii Dept. of Public Works

Koolauloa-NB #38 (Oahu)

Additional List (Molokai)

Eric Hirano/Lyann Mizuno

Date agenda due........................................... 1 Sep 93

Date submittal due........................................ 1 Sep 93

Date submittal sent to applicant..........................

Date application __ approved OR __ disapproved... 15 Sep 93 Meeting

Date applicant notified of decision........................

Remarks: Check mark if you agree.
FIELD MEMORANDUM

REF: Well 2508-10 to 13 (Inspected 10,11 & 12) on parcel 8-7-09:2

2508-13 was not found. The well was supposed to have been drilled in plat 8-7-10 and is on a PR Drilling map in the file with the notation “105 ft.”

REPORTED ON UNDER SEPARATE COVER:
Well 2408-08 (inspected 5/20/98)
Well 2408-09 (Inspected 12/23/97)
Well 2408-10, an unregistered well with a pump installed (insp5/13/98)

There is discussion regarding sealing a number of these wells. Tracy Runnels of Rosco Moss showed me an unregistered well with a pump in it on the same parcel, TMK 8-7-09:2. The new well has been given the number 2408-10.

INSPECTION DATE: December 23, 1997 (2408-09, 2508-10, 11,12)
May 13,1998 (2408-08, 2408-10, 2508-10,11,12)

PRESENT: 12/23 Mr. Harvey Hida of Hida, Okamoto & Associates
a surveying crew & Susan Swanson, DWRM
5/20/98 Tracy Runnels of Rosco Moss
Susan Swanson, DWRM

GENERAL LOCATION: A 200+ acre parcel in Lualualei, makai of Lualualei Military Reservation on Lualualei Naval Road, Oahu

SOURCES The proposed use is for golf course irrigation; six wells are located inTMK: 8-07-09 (contains 5 permitted wells and one unregistered well with a pump in it)

Original Site Inspection 12-23-97:
A site inspection was conducted to determine how many wells had been drilled, the locations and conditions of each well. Some of the wells were reported to be unsuccessful and may be sealed in the future. See attached maps, photos, etc. During the site visit, Mr. Hida did not mention the unregistered well, 2408-10, along the fence, so I was unaware of it's presence.

Five of the wells on this property were drilled by several different drillers and consultants for a company in Japan. The forms that had been submitted used multiple names, such as Lualualei Golf Course, Maili Irrig. well, Maile Irrig wells, Well # 5, etc. so it was not clear that all these wells were related to the same proposed use. Partial well records were submitted, missing some of the required information. Recently surveyed locations, descriptions, pump tests & well completion reports have been submitted, however not all the information (i.e. elevations, depths, strata, dates, etc.) is consistent.

Mr. Hida was showing the survey crew where the respective wells were so he could submit the survey data for the well completion requirements. In general, the area was overgrown; it took a while to locate three of the five wells. The wells were inspected in the following order: 2508-12, 10, 11, 2408-09.

Mr. Hida is a local contact person for the owner in Japan. I met Mr. Hida and his survey crew on Lualualei Naval Road at 9:30, 12/23/97. The proposed golf course site lies just outside on the southeast of the Lualualei's military gate. The 200+ acre privately owned parcel is bordered by a chain link fence with tall trees down the length of the parcel on the east side of the road. Three dry tributaries cross through the property. The main entrance to the property is at a locked gate near a trailer approx. .4 miles south of military gate.
We searched for 2508-13 on another plat some distance away but didn’t locate it. Access to that parcel is by a circuitous private road on the west side of Lualualei Naval road, approx. .1 mile from the military gate. We located a plug of cement in a basin shaped hole. Mr. Hida stated that the water had been too salty, and suggested that the basin might be caused by gushing water during the pump test. After the cement plug was removed, no casing or empty hole was observed. This may have been the location of the abandoned hole, but nothing is there now.

Second Site Visit:
After some discussion in the office with Lenore Nakama, Harvey Hida (Hida, Okamoto & Assoc.), Tracy Runnels (Rosco Moss) and Mitch Ohye, I returned to document several wells. Tracy Runnels was submitting a proposal to seal several unsuccessful wells and he had asked me to show him where 2508-11 was located. He showed me the location of 2408-08 which had been unstable, had a broken casing and produced water too salty for its proposed use. Of the five wells with permits, two had broken casings (2408-08 & 2508-11) with the possibility of being a conduit for contamination. Another well, (2508-10) was said to have a very low yield.

In addition, Tracy showed me a well that we were not aware of that had a submersible pump installed in it (now designated as 2408-10). A well file and inspection report will be written up separately for that well.

Nursery stock of bougainvillea, and palm trees are being grown adjacent to the trailer. A large stand of banana trees was growing near 2508-12. The irrigation lines run the length of the property and to various kinds of landscape plants near the trailer (near 2508-12). What is the source of irrigation water? This is in a generally dry area, vegetation is sparse. For comparison, see the photo of brown grass and straggley trees without irrigation taken across the street.

The brush and trees in the area between 2508-12 and 2408-10 (the newly discovered well) had recently burned. When we were looking at well 2408-08, embers crackled and caught on fire 300 hundred yards above us, but we were in no danger. Much of the eastern valley nearer the ocean had been burning several days before. Fire crews were finishing their work a mile or two away. Well 2508-12 is located several hundred feet south of the trailer, approximately 30' east from the chain link fence.
**WELL COMPLETION REPORT**

(4/25/97 WCR Form)

**COMMISSION ON WATER RESOURCE MANAGEMENT**
Department of Land and Natural Resources

**WELL COMPLETION REPORT**

*(Check Appropriate Box) [ ] Well Construction [ ] (Permanent) Pump Installation*

**Instructions:** Please print or type and submit completed report within 30 days following well completion to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. An as-built drawing of well and a chemical analysis should also be submitted. For assistance call the Commission Regulation Branch at 743-3720 or Extension 70225.

1. **State Well No.:** 2508-13  
   **Well Name:** Lualualei Golf Course
   **Island:** Oahu

2. **Location/Address:** Hakimo Road, Nanakuli, Waianae  
   **Tax Map Key:** 8-7-10:10

**PART I. WELL CONSTRUCTION REPORT**

<table>
<thead>
<tr>
<th>Depth (ft.)</th>
<th>Rock Description, Water Level, Dates, etc.</th>
<th>Depth (ft.)</th>
<th>Rock Description, Water Level, Dates, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 15</td>
<td>Dark Brown Clay</td>
<td>35 to 45</td>
<td>Dark Brown Clay</td>
</tr>
<tr>
<td>15 to 35</td>
<td>Coral Formation</td>
<td>45 to 70</td>
<td>Dark Brown Clay w/boulders/cobbles</td>
</tr>
</tbody>
</table>

- **Total depth of well below ground:** 103 ft.
- **Hole size:** 4 inch dia. from ft. to ft. below ground
- **Casing installed:**
  - in. I.D. x in. wall solid section to ft. below ground
  - in. I.D. x in. wall perforated section to ft. below ground
- **Casing Material/Slot Size:**
- **Annulus:**
  - Grouted from ft. below ground to ft. below ground
  - Gravel packed from ft. below ground to ft. below ground
- **Initial water level:** 70 ft. below ground
- **Initial temperature:** 28.5°C
- **PUMPING TESTS:** Reference Point (R.P.) used: __________
  - **Step-Drawdown Test Date:** 11-09-94
  - **Start water level:** 70.05 ft. below R.P.
  - **End water level:** 70.67 ft. below R.P.
- **Aquifer Pump Test Procedures data & graphs: 1/9/96
- **As-built drawings attached:** Yes [ ] No [ ]
- **Other remarks/comments:** (On back of this form)

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Mr. Hida is a local contact person for the owner in Japan. I met Mr. Hida and his survey crew on Lualualei Naval Road at 9:30, 12/23/97. The proposed golf course site lies just outside on the southeast of the Lualualei's military gate. The 200+ acre privately owned parcel is bordered by a chain link fence with tall trees down the length of the parcel on the east side of the road. Three dry tributaries cross through the property. The main entrance to the property is at a locked gate near a trailer approx. .4 miles south of military gate.
Wells Located on Proposed golf course site in Lualualei. Harvey Hida is the agent for the owner.

**Well 2508-11**
This well is located along the chain link fence marking the northern property boundary of the military reservation. The casing has been smashed at ground level. A tape was extended down 51.3' of open hole before hitting a solid object. This well is near a dry stream bed. The surveyors left flagging in the nearby tree to mark the site. This well may have to be sealed.

**Well 2508-10** at northwest corner of parcel - within 100' of the military gate guard station. Water visible at depth - reported to have had a low yield. The well is secured only by piece of metal covering the 14" metal casing. The well may need to be sealed.

**Well 2508-08** Tracey Runnels of Rosco Moss showed me this well up on the hillside approx. at 200' elevation. The brush is burnt off from recent fires. Tracy said he drilled this well. He was looking at the wells that may need to be sealed to put in a proposal. He said the hole had collapsed, the casing is broken - now just an open hole. A pebble dropped down the casing falls some distance before it hits solid rock. This well may have to be properly sealed. Tracy said that the yield was too salty for its proposed use of golf course irrigation water.

**Well 2408-09** called the "Quarry Well" - said to be named because it is near the rock face which supplied the building stones for flumes, etc. in plantation days - 8" casing with welded plate and smaller screw cap on top. This is the closest well to the BWS shaft which hasn't been used in many years - now brackish.

**Well 2508-12**
This well was not located. It was supposed to be located on the west side of the Lualualei Naval Road on Plat 8-7-10. The test bore may have been so unpromising that the well was never cased. P R Drilling's map shows that it was drilled to 105'.

**Well 2508-13**
This well was not located. It was supposed to be located on the west side of the Lualualei Naval Road on Plat 8-7-10. The test bore may have been so unpromising that the well was never cased. P R Drilling's map shows that it was drilled to 105'.

**Well 2408-10** (Needs after the fact permits)
- Electrical connection to submersible pump
- 4" pvc casing
- 3" PVC pipe
- Approx 2'-9"
- 8" PVC
- 12" diameter Conductor pipe
- Undocumented well newly designated 2408-10
- 8" pvc casing with wooden plate bolted on.
<table>
<thead>
<tr>
<th>well #</th>
<th>description</th>
<th>coordinates</th>
</tr>
</thead>
<tbody>
<tr>
<td>2508-10</td>
<td>a 14&quot; metal casing, with metal plate sitting on the casing within 40' of military gate at NW corner of parcel — low yield well — discussion regarding plan to seal this well</td>
<td>21-25-16 158-08-22</td>
</tr>
<tr>
<td>2508-11</td>
<td>half way up the eastern military boundary fence near a dry stream — broken metal casing 51' deep of open hole — potentially open to contamination</td>
<td>21-25-08 158-08-15</td>
</tr>
<tr>
<td>2508-12</td>
<td>8&quot; grey pvc casing — said to be a good well</td>
<td>21-25-03 158-08-25</td>
</tr>
<tr>
<td>2408-08</td>
<td>&quot;unstable well&quot; water too salty</td>
<td>21-24-48 158-08-27</td>
</tr>
<tr>
<td>2408-09</td>
<td>&quot;Quarry well&quot; metal casing with screw cap welded on near the cliff face and nearest to the BWS shaft — quarry well is said to be good well</td>
<td>21-24-59 158-08-09</td>
</tr>
<tr>
<td>2408-10</td>
<td>newly found and numbered well 8&quot; pvc with 12&quot; conductor pipe — it appears that there isn't a const permit or pump inst permit</td>
<td>21-24-56 158-08-31</td>
</tr>
</tbody>
</table>

Mapped, edited, and revised by the Geological Survey
Control by USGS, USC&GS, USCE, and Hawaii State Survey
Topography by photogrammetric methods from aerial photographs taken 1952 and planimetric surveys 1927-1930
Field checked 1953. Revised 1967
Selected hydrographic data compiled from USC&GS Chart 4110 (1960) and hydrographic surveys (1924)
This information is not intended for navigational purposes
Polyconic projection. Old Hawaiian Datum
10,000-foot grid based on Hawaii coordinate system Zones 3
3-meter Universal Transverse Mercator grid lines, Zone 4,
shown in blue
Red X indicates areas in which only landmark buildings are shown
SKETCH SHOWING WELLS DRILLED FOR PROPOSED GOLF COURSE

- Documented wells marked in red.
- Well shown in blue was to be drilled on a parcel some distance NE of other wells. It was drilled to 105' according to the PR Drilling map—we didn’t find it.
- Wells with yellow highlighting may need to be sealed, i.e., broken casings, low yield.
- The diagram shows several dry tributaries of Ulehawa Stream.
  - The green line shows the row of tall trees with irrigation lines running down their length.
  - Bananas, bougainvillea & palms are also being grown. There are irrigation lines to these plants.
- We located an unpermitted well in the field that has since been numbered 2408-10. There is a submersible pump in the well and PVC pipe from the well, but the power is disconnected to the well.
A survey crew documented well locations for wells 2508-10, 11 & 12 on December 23, 1997, during my initial inspection. Mr. Hida showed me well 2408-09 and mentioned 2408-08 which were also drilled for this proposed golf course. We were unable to locate well 2508-13 which was supposedly drilled to a depth of 105' on TMK 8-7-10 on the other side of Lualualei Naval Road. Feb. 11, 1998 meeting with Harvey Hida, Tracey Runnels from Rosco Moss Drilling, Mitch Ohye, Lenore Nakama, Susan Swanson. On 5-13-98 Mr. Runnels showed me well 2408-08 and an undocumented well with a pump in it. I showed him where 2508-11 was located. Additional photos were taken of the undocumented well on 5/20/98. After the fact permits should be required for the undocumented well & pump now designated as 2408-10. Irrigation lines run the length of the property. The electricity is currently shut off to the submersible pump.

<table>
<thead>
<tr>
<th>Locations of wells</th>
<th>Well Number</th>
<th>Casing Diameter/ type of material</th>
<th>How is Casing Secured Inside Fenced parcel??</th>
<th>GPS Coordinates</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>@ northwest corner of TMK 8-7-9:2, 35'E &amp; 42'S from chain link fence</td>
<td>2508-10</td>
<td>14&quot; casing metal casing</td>
<td>inspected 12-23-97 16&quot; metal plate resting over casing – This well was reported to have a low yield and may be sealed in the future.</td>
<td>21-25-16 158-08-22</td>
<td>Water visible at depth – surveyors were going to measure depth to water.</td>
</tr>
<tr>
<td>along military fence line, west of dry stream bed</td>
<td>2508-11</td>
<td>diameter ? casing smashed</td>
<td>inspected 12-23-97 No cover – Broken Casing at ground level the tape was lowered 61.3' before hitting a solid object – open hole – I took Tracy Runnels to this well. This is a candidate for sealing.</td>
<td>21-25-08 158-08-15</td>
<td>Surveyors dropped a tape down to the bottom of the open hole to a depth of 51.3 feet. No water encountered.</td>
</tr>
<tr>
<td>reported to be a good well</td>
<td>2508-12</td>
<td>8&quot; grey pvc casing</td>
<td>inspected 12-23-97 &amp; 5-20-98 Wooden board screwed over grey 8&quot; pvc casing</td>
<td>21-25-03 158-08-25</td>
<td>29' E of chain link fence along Lualualei Naval Rd.</td>
</tr>
<tr>
<td>In well folder with 2808-08 located approx at the 200' elev on the hillside</td>
<td>2408-08</td>
<td>casing broken off by bulldozer – open hole</td>
<td>inspected 5-13-98 As per Runnels, Roscoe Moss drilled this 220' deep well – unstable, partially collapsed, water too salty. This is a candidate for sealing.</td>
<td>inspected on 5/13/98 21-24-48 158-08-27</td>
<td></td>
</tr>
<tr>
<td>Inspection report in separate well folder – 2408-09 – Rosco Moss drilled this well for the same golf course</td>
<td>2408-09</td>
<td>8&quot;</td>
<td>inspected 12-23-97 -Maile Irrig. Well This well is referred to in the well file as the &quot;Quarry Well&quot; because the sugar company previously quarried rock from this site. The well has an 8&quot; casing, covered by a welded metal plate w/ small diameter screw cap – reported to be usable brackish water source. This well is closest to the BWS shaft.</td>
<td>21-24-59 158-08-09</td>
<td></td>
</tr>
<tr>
<td>Tracy Runnels said he found this well with a pump in it - the electricity is currently disconnected. There are irrigation feeder lines from an unidentified source scattered around to trees, bananas, bougainvillea &amp; palms. Were these irrigated from this well? This is the only well found with a pump in it.</td>
<td>2508-13 (?)</td>
<td>no casing found</td>
<td>We looked for this well 12-23-97 but did not find anything. Mr. Hida reported that the water was too salty - that the test bore was not cased</td>
<td>not located</td>
<td></td>
</tr>
</tbody>
</table>

| recently given a number - 2408-10 | 8" casing with 12" conductor pipe on cement pad | Inspected 5-13-98 & 5-20-98 |

NEEDS AFTER THE FACT PERMIT APPLICATIONS

there is also a 4" test bore 2-3' away |

| 21-24-56 |

158-08-31 | information unknown regarding this well. |
Well 2508-10
CWRM Field Inspection
Lualualei Golf Course Wells
(Harvey Hida, owners' rep)
This well is located in
the NW corner of parcel
35' east, 42'south of chain
link fence, 14" casing, meta
plate sitting on top of casi
--water visible at depth but
reported to be poor yielding
well -- discussion pending
re sealing this well. Photos
on these two pages taken
12/23/97 & 5/20/98
Well 2508-10
CWRM Field Inspection
Lualualei Golf Course Wells
(Harvey Hida, owners' rep)
This well is located in the NW corner of parcel
35' east, 42'south of chain link fence, 14" casing, metal plate sitting on top of casing
—water visible at depth but reported to be poor yielding well — discussion pending re sealing this well. Photos on these two pages taken 12/23/97 & 5/20/98
Well 2508-11
CWRM Field Inspection
Lualualei Golf Course Wells
(Harvey Hida, owners' rep)
This well is located along the northern border of parcel near a dry stream crossing. The top of the casing is broken, so this is essentially an open hole 51.3' deep — discussion pending re sealing this well.
Photos taken 12/23/97.
Well 2508-12
CWRM Field Inspection
Lualualei Golf Course Wells
(Harvey Hida, owners' rep)
This 8” cased grey pvc well is located along
Lualualei Naval Road,
approx. 30’ from the chain
link fence. This is south of
the double gate & trailer on
the property. Near the
trailer are banana trees,
palms and bougenvilla.
This is reported to be a
good irrigation well. A
wooden plate is screwed
onto the top of casing.
The glossy photos were
taken 12/23/97; the
dig tal photos were
taken 5/20/98.
Well 2508-12
CWRM Field Inspection
Lualualei Golf Course Wells
(Harvey Hida, owners' rep)
This 8" cased grey pvc well is located along Lualualei Naval Road, approx. 30' from the chain link fence. This is south of the double gate & trailer on the property. Near the trailer are banana trees, palms and bougENVilla. This is reported to be a good irrigation well. A wooden plate is screwed onto the top of casing. The glossy photos were taken 12/23/97; the digital photos were taken 5/20/98.
Re: Wells drilled for Lualualei Golf Course
Stop # 5, looked for Well 2508-13
Plug of concrete found & removed
with nothing discernable underneath
next to 6-8' basin (remnant of pump test ?)
Surveyors were going to continue to look
for the well, if it is identifiable.

Well was to be located in this site. TMK:
8-7-10
We didn't find any wells here, site reported to
be unproductive.
TO: State of Hawaii
Commission on Water Resource Management
Department of Land and Natural Resources
P.O. Box 621
Honolulu, Hawaii 96809

WE ARE SENDING YOU:
- Messenger
- Specifications
- Attached
- Mail
- Copy of Letter
- Shop Drawings
- Diskette
- Original Tracings
- Prints

COPIES | DATE | NO. | DESCRIPTION
--- | --- | --- | ---
1 | 3/30/99 | 3 | Well Abandonment Report for
Wells No. 2508-11, 2508-10 & 2408-08
1 | 3/30/99 | 1 | Elevation Data for Wells No. 2408-9 & 2408-10

THESE ARE TRANSMITTED:
- FOR APPROVAL
- PRINTS RETURNED AFTER LOANED TO US
- FOR REVIEW AND COMMENT
- AS REQUESTED
- FOR YOUR USE

REMARKS:
- Access was graded and concrete dumped into well through funnel & 4" tremie pipe.

SIGNED: Harvey K. Hida, PE

Remarks: Access was graded and concrete dumped into well through funnel & 4" tremie pipe.

Contractor (print) Roscoe Moss Hawaii Inc. Title Drilling Activities
Signature Tracy Rennells Date 3-30-99

For Official Use: Well No. _______
    Longitude _______
    Latitude _______

For Driller's Use: Job Name _______ Job No. _______
Mr. Harvey K. Hida  
Hida, Okamoto & Associates  
1440 Kapiolani Blvd., Ste. 915  
Honolulu, Hawaii 96814

Dear Mr. Hida:

After-the-Fact Well Construction Permit  
Lualualei Golf Course Well 2 (Well No. 2408-10)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) that authorize well construction activities but excludes installation work for your permanent pump. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 13:

Special Conditions

1. Attached for your information is a copy of the Department of Health's (DOH) review comments. Please note DOH's requirements related to discharge of effluent from well drilling and testing activities.

This permit does not authorize work for your permanent pump installation. Approval and issuance of your pump installation permit is contingent upon completed application and information provided to and accepted by Commission staff as required in the Well Construction & Pump Installation Standards (1/23/97) and any special conditions performed under this permit.

We understand that the unpermitted pump has been removed from Well No. 2408-10. Please submit a new application for a pump installation permit prior to any future pump installation work.

Thank you for your timely submittal of the elevation surveys for Well Nos. 2408-09 & 10, which we received on March 30, 1999. We have accepted the Well Completion Reports Part I for Well Nos. 2408-09 & 10. Therefore, the requirements under Standard Condition 7 of this permit have been satisfied. However, please validate your permit by signing and having the contractor sign both permit originals and return one for our files.

Thank you also for your timely submittal of the Well Abandonment Reports for Well Nos. 2408-08, 2508-10 & 11, which we received on March 30, 1999. We have accepted the Well Abandonment Reports. Lastly, this letter also transmits the Department of Health's written review comments on the abandonment permit for your record.

If you have any questions, please call the Commission staff at

Aloha,

Enclosures
AFTE THE-FACT WELL CONSTRUCTION PERMIT
Luualei Golf Course Well 2, Well No. 08-10

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the construction and testing of Luualei Golf Course Well 2 (Well No. 2408-10) at Maili, Waianae, Oahu, TMK 8-7-09:2, subject to the Hawaii Well Construction & Pump Installation Standards (123-67) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. The well construction permit shall be for construction and testing of the well only. A minimum one-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pump testing worksheet is attached). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pumping test is approved and issued by the Chairperson.

3. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson.

4. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

5. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and contact the Department's Historic Preservation Division immediately.

6. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of cumulative water rights.

7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (referred to mean sea level, msl) 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 records, including time, pumping rate, drawdown, chloride content, and other data.

8. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

9. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

10. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

11. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee must apply for a well abandonment permit in accordance with §13-168-12(l) prior to any well sealing or plugging work.

12. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assignees, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

13. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: March 31, 1999
Expiration Date: March 31, 2001

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I do not hold a valid permit until I and the driller have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the permit date of approval.

Permittee's Signature: ___________________________ Date: ________________
Printed Name: ___________________________ Firm or Title: ___________________________

Driller's Signature: ___________________________ C-57 License #: ___________________________ Date: ________________
Printed Name: ___________________________ Firm or Title: ___________________________

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment

USGS
Department of Health & Safety Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
WELL ABANDONMENT REPORT

Instructions: Please print or type and submit completed report within 30 days after sealing completion to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96802. An as-built drawing of the well and chemical analysis should also be submitted. For assistance call the Commission Regulation Branch at 587-0255.

1. STATE WELL NO. 2508-10  WELL NAME: Lualualei Golf Course  ISLAND: Oahu
2. LOCATION: Address: Maili, Waianae, Oahu  Tax Map Key: 8-7-09:02
3. DRILLING OR PUMP INSTALLATION CONTRACTOR: Roscoe Moss Hawaii Inc.
4. CONTRACTOR'S G-67 LICENSE NUMBER: AC 16437
5. NAME OF DRILLER WHO PERFORMED WORK: Harold Fenton
6. TYPE OF RIG/CONSTRUCTION: NA
7. DATE OF WELL SEALING COMPLETION: 3-25-99

(Note: Report must be submitted within 30 days after this date)

Finished Grade Elevation 70 ft.

Casing Diameter 14 in.

Check Material Used
Grout Seal: ⃝Cement 🟩Sand/Cement
#2500 concrete Sand/Cement Ratio

Total Measured Depth 94 ft.

Measured Depth Blank Casing 12 ft.

Measured Depth Perforated Casing NA ft.

Measured Depth to Bottom of Grout 94 ft.

Measured Depth of Sand Fill __ ft.

Remarks: Access was graded and concrete dumped into well through funnel & 4" tremie pipe.

(If more space is needed, continue on back)

Contractor (print) Roscoe Moss Hawaii Inc
Signature Trace Runnells
Title Drilling Activities
Date 3-30-99

For Official Use:
Well No. __________________

For Order's Use:
Job Name ____________________
Job No. _____________________

Long. ____________________
Lat. ______________________

* Made well dump
STATE WELL NO. 2508-10  WELL NAME Lualualei Golf Course  ISLAND Oahu

2. LOCATION: Address Maili, Waianae, Oahu  Tax Map Key 3-7-09:02

3. DRILLING OR PUMP INSTALLATION CONTRACTOR Roscoe Moss Hawaii Inc.

4. CONTRACTOR'S C-57 LICENSE NUMBER AC 16437

5. NAME OF DRILLER WHO PERFORMED WORK Harold Fenton

6. TYPE OF RIG/CONSTRUCTION NA

7. DATE OF WELL SEALING COMPLETION 3-25-99

(Note: Report must be submitted within 30 days after this date)

Finishing Grade Elevation 70 ft.

Casing Diameter 14 in.

Check Material Used
- Grout Seal: ☐ Cement ☐ Sand/Cement #2500 concrete Sand/Cement Ratio __

Total Measured Depth 94 ft.

Measured Depth Blank Casing 12 ft.

Measured Depth Perforated Casing NA ft.

Measured Depth to Bottom of Grout 94 ft.

Measured Depth of Sand Fill _______ ft.

Remarks: Access was graded and concrete dumped into well through funnel & 4" tremie pipe.

If more space is needed, continue on back.

Contractor (print) Roscoe Moss Hawaii Inc.  Title Drilling Activities
Signature Tracy Runnels  Date 3-30-99
1. STATE WELL NO. 2508-11  
   WELL NAME: Wai'alea Mill Course  
   ISLAND: Oahu

2. LOCATION: Address: Maili, Waianae, Oahu  
   Tax Map Key: 7-09:02

3. DRILLING OR PUMP INSTALLATION CONTRACTOR: Roscoe Moss Hawaii, Inc.

4. CONTRACTOR'S C-57 LICENSE NUMBER: AC-16437

5. NAME OF DRILLER WHO PERFORMED WORK: Harold Fenton

6. TYPE OF RIG/CONSTRUCTION: NA

7. DATE OF WELL SEALING COMPLETION: 3-25-99

(NOTE: Report must be submitted within 30 days after this date)

Finished Grade Elevation: 70 ft.

Casing Diameter: 12 in.

Total Measured Depth: 56 ft.

Measured Depth Static Casing: NA ft.

Measured Depth Perforated Casing: NA ft.

Measured Depth to Bottom of Grout: 56 ft.

Measured Depth of Sand Fill: NA ft.

Remarks: Access was graded and concrete dumped into well through funnel & 4" tremie pipe.

(If more space is needed, continue on back)

Contractor (print): Roscoe Moss Hawaii Inc.

Signature: Tracy Runnells

Title: Drilling Activities

Date: 3-30-99
WELL ABANDONMENT REPORT

1. STATE WELL NO. 2509-11  WELL NAME: Valulalai Golf Course  ISLAND: Oahu
2. LOCATION: Address: Maili, Waimanalo, Oahu  Tax Map Key: 7-09-02
3. DRILLING OR PUMP INSTALLATION CONTRACTOR: Roscoe Moss Hawaii, Inc.
4. CONTRACTOR'S C-57 LICENSE NUMBER: AC-16437
5. NAME OF DRILLER WHO PERFORMED WORK: Harold Canton
6. TYPE OF RIG/CONSTRUCTION: NA
7. DATE OF WELL SEALING COMPLETION: 3-25-99

(NOTE: Report must be submitted within 30 days after the date)

Remarks: Access was graded and concrete dumped into well through funnel & 4" tremie pipe.

Contractor (print): Roscoe Moss Hawaii Inc.  Title: Drilling Activities
Signature: Tracy Runnels  Date: 3-30-99
WELL ABANDONMENT REPORT

Instructions: Please print or type and submit completed report within 90 days after sealing completion to the Commission on Water Resource Management, P.O. Box 627, Honolulu, Hawaii 96823. An as-built drawing of the well and chemical analysis should also be submitted. For assistance call the Commission’s Regulation Branch at 808-586-0220.

1. STATE WELL NO. 2508-10   WELL NAME: Lualualei Golf Course ISLAND: Oahu
2. LOCATION: Address: Maili, Maili, Oahu, Tax Map Key: R-7-09:02
3. DRILLING OR PUMP INSTALLATION CONTRACTOR: Roscoe Moss Hawaii Inc.
4. CONTRACTOR’S C-87 LICENSE NUMBER: AC 16437
5. NAME OF DRILLER WHO PERFORMED WORK: Harold Fenton
6. TYPE OF RIG/CONSTRUCTION: NA
7. DATE OF WELL SEALING COMPLETION: 3-25-99

(Note: Report must be submitted within 90 days after the date)

Finished Grade Elevation: 70 ft.

Check Material Used:
- Grout Back: [ ] Cement  [ ] Sand/Cement
- #2500 concrete Sand/Cement Ratio: 1/1

Total Measured Depth: 94 ft.

Measured Depth Bore/Casing: 12 ft.

Measured Depth Perforated Casing: 94 ft.

Measured Depth to Bottom of Grout: 94 ft.

Measured Depth of Sand Fill: 30 ft.

Remarks: Access was graded and concrete dumped into well through funnel & 4" tremie pipe.

If more space is needed, continue on back.

Contractor (print): Roscoe Moss Hawaii Inc.  Title: Drilling Activities

Signature: Trace Runnels  Date: 3-30-99

For Official Use:
- Well No. 2508-10
- Longitude
- Latitude
WELL ABANDONMENT REPORT

Instructions: Please print or type and submit completed report within 30 days after sealing completion to the Commission on Water Resource Management, P.O. Box 521, Honolulu, Hawaii 96810. An as-built drawing of the well and chemical analysis should also be submitted. For assistance call the Commission Regulation Branch at 973-0234.

1. STATE WELL NO. 2508-10
   WELL NAME: Lualualei Golf Course
   ISLAND: Oahu

2. LOCATION: Address: Maili, Wai'anae, Oahu
   Tax Map Key: 8-7-09:02

3. DRILLING OR PUMP INSTALLATION CONTRACTOR: Roscoe Moss Hawaii Inc.
   CONTRACTOR'S C-57 LICENSE NUMBER: AC 16437

4. NAME OF DRILLER WHO PERFORMED WORK: Harold Fenton
   TYPE OF RIG/CONSTRUCTION: NA

5. DATE OF WELL SEALING COMPLETION: 3-25-99
   (NOTE: Report must be submitted within 30 days after this date)

6. Finished Grade Elevation: 70 ft.

   Casing Diameter: 14 in.

   Check Material Used:
   Grout Seal: [ ] Cement [ ] Sand/Cement
   #2500 concrete Sand/Cement Ratio: /

   Total Measured Depth: 594 ft.

   Measured Depth Blank Casing: 12 ft.

   Measured Depth Perforated Casing: NA ft.

   Measured Depth to Bottom of Grout: 94 ft.

   Measured Depth of Sand Fill: ft.

   Remarks: Access was graded and concrete dumped into well through funnel & 4" tremie pipe.
   (If more space is needed, continue on back.)

   Contractor (print): Roscoe Moss Hawaii Inc
   Signature: ____________________________
   Title: Drilling Activities
   Date: 3-30-99

   For Driller's Use:
   Job Name: ____________________________
   Job No: ____________________________

   For Official Use:
   Well No: 2508-10
   Longitude: ____________________________
   Latitude: ____________________________

   Contractor (print): Roscoe Moss Hawaii Inc
   Signature: ____________________________
   Title: Drilling Activities
   Date: 3-30-99

   For Driller's Use:
   Job Name: ____________________________
   Job No: ____________________________

   For Official Use:
   Well No: 2508-10
   Longitude: ____________________________
   Latitude: ____________________________
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Maihi Irrigation Well 2 and Luluku Golf Course Wells 1 & 3. Well Nos. 2408-09, 2408-10 & 11

In accordance with Department of Land and Natural Resources, Commission on Water Resources Management's Administrative Rules, Section 13-165, entitled "Water Use, Wells, and Riparian Divisio...the document permits the abandonment/sealing of Maihi Irrigation Well 2 and Luluku Golf Course Wells 1 & 3 (Well Nos. 2408-09, 2408-10 & 11) at Well, Waikele, Oahu, HAWAII, subject to the Hawaii Well Construction & Repair Installation Standards (HWCIRS) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resources Management. P.O. Box 245, Hilo, Hawaii 96720, shall be notified in writing before any work covered by this permit commences.
2. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months unless otherwise specified.
3. The owner or operator of any well which has been determined by the department of voluntarily declared by the owner or operator to be abandoned as defined in R15-165-2, after written notice shall be required to ratify or operator's expertise, to re-case, cement, plug back, cap, or otherwise repair the well or fill and seal the well with cement in a manner approved by the commission.
4. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Repair Installation Standards (January 25, 1987; HWCRS). If the HWCRS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.
5. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resources Management within thirty (30) days after completion of the work.
6. The permittee shall comply with all applicable laws, rules, and ordinances.
7. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: March 18, 1989
Expiration Date: When well is sealed in a manner acceptable to the Commission

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day.

Permittee's Signature: [Signature]
Printed Name: Harvey K. Hida
Firm or Title: Hida Construction, Inc.

Contractor's Signature: [Signature]
Printed Name: Tracy Kauhele
License #: Ac-16437 Date: 3/23/99
Firm or Title: Tracy Kauhele

Please sign both copies of this permit. Return one to the Chairperson, and retain the other for your records.

Attachment

USGS
Department of Health Staks Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
Hakalau Radio Station Chan, do Harvey Hida

Fax Note
TO: Honorable Bruce S. Anderson, Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch  

FROM: Timothy E. Johns, Chairperson  
Commission on Water Resource Management  

SUBJECT: Well Construction Permit Application to Abandon/Seal  
Maili Irrigation Well 2 and Lualualei Golf Course Wells 1 & 3  
(Well Nos. 2408-08, 2508-10 & 11)  

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. The Commission has established a March 30, 1999 deadline for these well abandonments. **We request your help in meeting this deadline by returning this cover memo form by March 25, 1999 or as soon as possible.**

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Lenore Nakama of the Commission staff at XXXXXXXXXXXX.

RESPONSE:

1. This well qualifies as a source which will serve as a source of potable water to a public water system (serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

2. This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

3. If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

4. It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

5. For the applicant's information, a source of possible wastewater contamination is not located near the proposed well site (information attached).

6. Other relevant DOH rules/regulations, information, or recommendations are attached.

[X] No comments/objections

Contact Person: Lori N. Kajiwara  
Phone: XXXXXXXXXXXX

Signed: Lori N. Kajiwara  
Date: 3-23-99
TO: Honorable Bruce S. Anderson, Director  
    Department of Health  
    Attention: Dennis Tulang, Wastewater Branch  
           William Wong, Safe Drinking Water Branch  
FROM: Timothy E. Johns, Chairperson  
    Commission on Water Resource Management  
SUBJECT: Well Construction Permit Application to Abandon/Seal  
Maili Irrigation Well 2 and Lualualei Golf Course Wells 1 & 3  
(Well Nos. 2408-08, 2508-10 & 11)  

Transmitted for your review and comment is a copy of the captioned well application.  

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. The Commission has established a March 30, 1999 deadline for these well abandonments. We request your help in meeting this deadline by returning this cover memo form by March 25, 1999 or as soon as possible.  

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Lenore Nakama of the Commission staff at [contact information].  

Attachment(s)  

RESPONSE:  

This well qualifies as a source which will serve as a source of potable water to a public water system (serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.  

This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.  

If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer; and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.  

It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.  

For the applicant's information, a source of possible wastewater contamination is not located near the proposed well site (information attached).  

Other relevant DOH rules/regulations, information, or recommendations are attached.  

No comments/objections  

Contact Person: William Wong  
Phone: [redacted]  
Signed: William E. Johns  
Date: 3/23/99
<table>
<thead>
<tr>
<th>FACSIMILE TRANSMITTAL</th>
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<tbody>
<tr>
<td>DATE: 3/23/99</td>
</tr>
<tr>
<td>TO: Commissioner</td>
</tr>
<tr>
<td>FROM: Tracy Runnels</td>
</tr>
<tr>
<td>REF: Well Abandonments</td>
</tr>
</tbody>
</table>

Lenore,

We will proceed with well abandonments at 12:00 noon 3/25/99. Wells are to be abandoned per my recommendations and letter dated 3/17/99.

Sincerely,

Tracy Runnels

3-24-99
Spoke w/Tim
Told him permittee needs to sign also.
He said he'd let Harvey know.
Mr. Harvey K. Hida
Hida, Okamoto & Associates
The Commerce Tower
1440 Kapiolani Blvd., Ste. 915
Honolulu, Hawaii 96814

Dear Mr. Hida:

Well Construction Permit to Abandon/Seal
Maili Irrigation Well 2 and Luahalei Golf Course Wells 1 & 3
(Well Nos. 2408-08, 2508-10 & 11)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) which authorizes well abandonment/sealing activities. As part of the Chairperson’s approval, the following special conditions were added and are part of your permit under Permit Condition 7:

**Special Conditions**

1. Department of Health has given verbal approval for the sealing. A copy of the Department of Health’s written review comments will be sent to you as soon as we receive them.

To validate your permit, please sign and have the contractor sign both permit originals and return one for our files.

**IMPORTANT** - The well owner is responsible for all conditions of the permit. This includes ensuring that the your licensed contractor, submits a completed Well Abandonment Report form (enclosed) within sixty (60) days after the well construction work is completed. Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions.

If you have any questions, please call the Commission staff at 587-0218.

Aloha,

[Signature]

TIMOTHY E. JOHNS
Chairperson

Enclosures
Mr. Harvey K. Hida
Hida, Okamoto & Associates
The Commerce Tower
1440 Kapiolani Blvd., Ste. 915
Honolulu, Hawaii 96814

Dear Mr. Hida:

Well Construction Permit to Abandon/Seal
Maili Irrigation Well 2 and Lualualei Golf Course Wells 1 & 3
(Well Nos. 2408-08/2508-10 & 11)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) which authorizes well abandonment/sealing activities. As part of the Chairperson’s approval, the following special conditions were added and are part of your permit under Permit Condition 7:

Special Conditions

1. Department of Health has given verbal approval for the sealing. A copy of the Department of Health’s written review comments will be sent to you as soon as we receive them.

To validate your permit, please sign and have the contractor sign both permit originals and return one for our files.

IMPORTANT - The well owner is responsible for all conditions of the permit. This includes ensuring that your licensed contractor, submits a completed Well Abandonment Report form (enclosed) within sixty (60) days after the well construction work is completed. Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions.

If you have any questions, please call the Commission staff at

Aloha,

Timothy E. Johns
Chairperson

Enclosures
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Maili Irrigation Well 2 and Lualualei Golf Course Wells 1 & 3, Well Nos. 2408-08, 2508-10 & 11

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the abandonment/sealing of Maili Irrigation Well 2 and Lualualei Golf Course Wells 1 & 3 (Well Nos. 2408-08, 2508-10 & 11) at Maili, Waianae, Oahu, TMK 8-7-49; subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809, shall be notified in writing before any work covered by this permit commences.
2. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified.
3. The owner or operator of any well which has been determined by the department or voluntarily declared by the owner or operator to be abandoned as defined in §13-168-2, after written notification, shall be required, at owner's or operator's expense, to re-case, cement, plug back, cap, or otherwise repair the well or fill and seal the well with cement in a manner approved by the commission.
4. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.
5. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within sixty (60) days after completion of the work.
6. The permittee shall comply with all applicable laws, rules, and ordinances.
7. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: March 16, 1999
Expiration Date: When well is sealed in a manner acceptable to the Commission

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day.

Permittee's Signature: ___________________________ Date: ____________

Contractor's Signature: ___________________________ License #: ____________ Date: ____________

Printed Name: ___________________________ Firm or Title: ___________________________

Printed Name: ___________________________ Firm or Title: ___________________________

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment

C:

USGS
Department of Health, Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
Kabushiki Kaisha Oban, c/o Harvey Hida
Mr. Harvey K. Hida  
Hida, Okamoto & Associates, Inc.  
The Commerce Tower  
1440 Kapiolani Blvd., Ste. 915  
Honolulu, HI 96814

Dear Mr. Hida:

After-the-Fact Application for Well Construction for Well No. 2408-10  
Well Construction Permit Applications to Abandon/Seal Well Nos. 2408-08, 2508-10 & 11

We acknowledge receipt, on March 12, 1999, of your completed well construction permit applications for the subject wells. Because the Commission on Water Resource Management has established a deadline to resolve these well violations, we have requested expedited review by the Department of Health. The permits will be transmitted to you as soon we receive approval from the Department of Health.

We will look forward to receiving the elevation surveys for Well Nos. 2408-09 & 10 and the well completion reports for Well Nos. 2408-08, 2508-10 & 11 by the March 31, 1999 deadline.

We understand that the pump has been removed from Well No. 2408-10 and there are no immediate plans to install a permanent pump. Please be aware that an application for pump installation permit must be made and approved prior to pump installation.

If you have any questions about your permit application, please contact Lenore Nakama of the Commission staff at

Sincerely,

Edwin T. Sakoda  
EDWIN T. ŠAKODA  
Acting Deputy Director

LN:ss
TO: Honorable Bruce S. Anderson, Director  
Department of Health  
Attention:  Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch  

FROM: Timothy E. Johns, Chairperson  
Commission on Water Resource Management  

SUBJECT: Well Construction Permit Application to Abandon/Seal  
Maili Irrigation Well 2 and Lualualei Golf Course Wells 1 & 3  
(Well Nos. 2408-08, 2508-10 & 11)  

Transmitted for your review and comment is a copy of the captioned well application.  

We would appreciate your comments on the captioned application for any conflicts or  
inconsistencies with the programs, plans, and objectives specific to your department. The Commission  
has established a March 30, 1999 deadline for these well abandonments. We request your help in  
meeting this deadline by returning this cover memo form by March 25, 1999 or as soon as possible.  

Please find a map, attached, to locate the proposed well. If you have any questions about this  
permit application, request additional information, or request additional review time, please contact  
Lenore Nakama of the Commission staff at [BLANK].

RESPONSE:

[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

[ ] This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

[ ] If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

[ ] It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

[ ] For the applicant's information, a source of possible wastewater contamination is not located near the proposed well site (information attached).

[ ] Other relevant DOH rules/regulations, information, or recommendations are attached.

[ ] No comments/objections

Contact Person: ___________________________ Phone: ___________________________
Signed: ___________________________ Date: ___________________________
TO: Honorable Bruce S. Anderson, Director
Department of Health
Attention: Dennis Tulang, Wastewater Branch
William Wong, Safe Drinking Water Branch

FROM: Timothy E. Johns, Chairperson
Commission on Water Resource Management

SUBJECT: After-the-Fact Well Construction Permit Application
Lualualei Golf Course Well 2 (Well No. 2408-10)

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. The Commission has established a March 30, 1999 deadline for this well permit violation. We request your help in meeting this deadline by returning this cover memo form by March 25, 1999 or as soon as possible.

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Lenore Nakama of the Commission staff at [redacted].

LN:ss
Attachment(s)
RESPONSE:

This well qualifies as a source which will serve as a source of potable water to a public water system (serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

For the applicant's information, a source of possible wastewater contamination [redacted] is not located near the proposed well site (information attached).

Other relevant DOH rules/regulations, information, or recommendations are attached.

No comments/objections.

Contact Person: ___________________________ Phone: ___________________________
Signed: ___________________________ Date: ___________________________
Mr. Timothy E. Johns, Chairperson  
State of Hawaii  
Department of Land and Natural Resources  
Commission on Water Resource Management  
Post Office Box 621  
Honolulu, Hawaii 96809

Attention: Ms. Lenore Nakama,

SUBJECT: Well Nos 2508-10 & 11, 2408-8 & 10  
Lualualei, Waianae, Oahu  
HO&A Job No. 97-1285.1

Pursuant to your February 8, 1999 letter, on behalf of Kabushiki Kaisha Oban, we are transmitting the following items for the subject wells:

- Well Construction Permit Application to Abandon/Seal for Well Nos. 2408-08, 2508-10 and 2508-11.
- After-the-Fact Application and Well Completion Report for Well Construction, Well No. 2408-10.
- $25.00 x 4 = $100.00 Filing Fee payable to Department of Land Natural Resources.

We will complete the construction and submit the Well Abandonment Report for Well Nos. 2408-08, 2508-10 & 2508-11 together with the elevation survey of Well Nos. 2408-09 & 2408-10 by March 31, 1999.

If you have any questions or require additional information, please feel free to call me at 942-0066.

Very truly yours,

HIDA, OKAMOTO & ASSOCIATES, INC.

[Signature]

Harvey K. Hida, P.E.  
President

Enclosures
APPLICATION FOR PERMIT

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. This application may not be considered incomplete applications. For assistance, call the Regulation Branch at...

1. APPLICANT: (circle primary contact a, b, or c) Primary Fax: (808) 643-7515
   (a) WELL OWNER
   Firm/Name: Kaushiki Kaisha Oban
   Contact Person: Harvey K. Hida
   Address: 1440 Kapolei Boulevard Suite 915
   Honolulu, Hawaii 96814
   (b) LANDOWNER
   Firm/Name: Kaushiki Kaisha Oban
   Contact Person: Harvey K. Hida
   Address: 1440 Kapolei Boulevard Suite 915
   Honolulu, Hawaii 96814
   (c) CONTRACTOR
   Firm/Name: Roscoe Moss Hawaii, Inc.
   Contact Person: Tracy Runnells
   Address: 91-255A Olai Street, Kapolei, Hawaii 96707

2. WELL LOCATION/NAME: Lualualei Golf Course Well #1 (2508-10) Island Oahu
   Address: End of Lualualei Access Road
   Tax Map Key: B-7-09:02
   Attach the relevant portion of (a) a 7.5-Minute Series USGS topographic map (scale 1"=24,000''), and (b) a property tax map, showing well location referenced to established property boundaries.

3. (a) PROPOSED WORK:  
   • Drill New Well
   • Deepen
   • Install New Pump
   • Modify Existing Well
   • Redrill
   • Modify Pump
   • Abandon/Seal * 
   * Be sure to complete and submit well abandonment report upon completion of work.
   (b) WELL TYPE:
   • Well
   • Bored
   • Driven
   • Drilled
   • Radial
   Is this well part of a battery of wells? Yes No
   (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION: Rated Pump Capacity: N/A gallons per minute
   Pump Type:
   • Deep Well Turbine
   • Rotary
   • Submersible
   • Propeller
   • Rotary-Displacement
   • Reciprocating
   • Gas
   • Centrifugal
   • Rotary-Gear
   • Impulse
   • Electric, rated horsepower:
   If Pump Replacement, Existing Pump Capacity:
   gallons per minute

5. PROPOSED USE:
   • Municipal (including hotels, stores, etc.)
   • Industrial
   • Domestic (individual, noncommercial water syst.)
   • Irrigation (crop) Golf Course
   • Acres
   • Military
   • Other:

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
   • Flow-meter
   • Open-pipe
   • Orifice Plate
   • Weir

7. PENDING ACTIONS:
   • CDUA
   • SMA
   • EIS
   • EA
   • NONE
   • Other(explain)
   Completion Date:

8. REMARKS, EXPLANATIONS:
   Roscoe Moss drilled this well in 1994 to depth 102'. The well was capped and left due to poor yield in the muddy layers of the hole. We propose to pump 2,500 psi concrete down the well until it reaches ground level.
   (I more space is needed, continue on back)

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 30 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of correlative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: Sanjiro Nakade
Landowner: Sanjiro Nakade
Contractor: Roscoe Moss Hawaii, Inc.

Signature: _______ Date: _______
Signature: _______ Date: _______
Signature: _______ Date: _______

For Official Use Only:
Date Received
Date Accepted
Field Checked By
Date

Latitude
State Well No.

10/10/87 WCPI Form
APPLICATION FOR PERMIT

1. APPLICANT: (circle primary contact a, b, or c) Primary Fax: (808) [redacted]
   (a) WELL OWNER
   Firm Name: Kabushiki Kaisha Oban
   Contact Person: Harvey K. Hida
   Address: 1460 Kapiolani Boulevard Suite 915
   Honolulu, Hawaii 96814

   (b) LANDOWNER
   Firm Name: Kabushiki Kaisha Oban
   Contact Person: Harvey K. Hida
   Address: 1460 Kapiolani Boulevard Suite 915
   Honolulu, Hawaii 96814

   (c) CONTRACTOR
   Firm Name: Roscoe Moss Hawaii, Inc.
   Contact Person: Tracy Runnels
   Address: 91-259A Olai Street, Kapolei, Hawaii 96707

   Contractor's C-57 License No. AC16437

2. WELL LOCATION/NAME: Lualualei Golf Course Wells #3 (2508-11)
   Island: Oahu
   Tax Map Key: 8-7-09-02
   Address: Lualualei, Wai‘anae, Oahu

   Attach the relevant portion of (a) a 7.5-Minute Series USGS topographic map (scale 1"=24,000), and (b) a property tax map, showing well location referenced to established property boundaries.

3. (a) PROPOSED WORK: [ ] Drill New Well [ ] Deepen [ ] Install New Pump
   [ ] Modify Existing Well [ ] Redrill [ ] Modify Pump
   [ ] Abandon/Seal [ ] Replace Pump
   * Be sure to complete and submit well abandonment report upon completion of work.

   (b) WELL TYPE:
   [ ] Dug [ ] Bored [ ] Driven [ ] Drilled [ ] Radial
   Is this well a part of a battery of wells? [ ] Yes [ ] No
   (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: N/A gallons per minute

   Pump Type: [ ] Deep Well Turbine [ ] Rotary
   [ ] Submersible [ ] Propeller [ ] Gas
   [ ] Centrifugal [ ] Rotary-Displacement [ ] Reciprocating
   [ ] Impulse [ ] Electric, rated horsepower: __________________

   If Pump Replacement, Existing Pump Capacity: __________________ gallons per minute

5. PROPOSED USE:
   [ ] Municipal (including hotels, stores, etc.) [ ] Industrial
   [ ] Domestic (individual, noncommercial water syst.) # Dwelling Units ______
   [ ] Irrigation (crop) # Acres ______
   [ ] Military [ ] Other: ______

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: __________ gallons per day

   (b) METHOD OF FLOW MEASUREMENT: [ ] Flow-meter [ ] Open-pipe
   [ ] Orifice Plate [ ] Weir

7. PENDING ACTIONS: [ ] CDUA [ ] SMA [ ] EIS [ ] EA [ ] NONE [ ] Other (explain)
   Completion Date: __________________

8. REMARKS, EXPLANATIONS: We don't have any record of this well. We propose to pumping 2,500 psi concrete until filled to ground level.

   (If more space is needed, continue on back)

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 30 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of correlative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: Sanjirō Nakade
Signature: Sanjirō Nakade
Date: 3-5-99

Landowner: Sanjirō Nakade
Signature: Sanjirō Nakade
Date: 3-5-99

Contractor: Roscoe Moss Hawaii, Inc.
Signature: Roscoe Moss Hawaii, Inc.
Date: 3-5-99

For Official Use Only:
Date Received __________________
Date Accepted __________________
Field Checked By __________________
Date __________________

Longitude: __________________
State Well No: __________________

10/10/97 WCPI Form
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Maili Irrigation Well 2 and Lualualei Golf Course Wells 1 & 3, Well Nos. 2408-08, 2508-10 & 11

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-181, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the abandonment/sealing of Maili Irrigation Well 2 and Luahualei Golf Course Wells 1 & 3 (Well Nos. 2408-08, 2508-10 & 11) at Maili, Wai'anae, Oahu, TMK 8-7-35, subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96801, shall be notified in writing before any work covered by this permit commences.
2. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified.
3. The owner or operator of any well which has been determined by the department or voluntarily declared by the owner or operator to be abandoned as defined in §13-108-2, after written notification, shall be required, at owner's or operator's expense, to re-case, cement, plug back, cap, or otherwise repair the well or fill and seal the well with cement in a manner approved by the commission.
4. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.
5. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within sixty (60) days after completion of the work.
6. The permittee shall comply with all applicable laws, rules, and ordinances.
7. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: March 16, 1999
Expiration Date: When well is sealed in a manner acceptable to the Commission

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day.

Permittee's Signature: Saniico Nakada
Printed Name: Saniico Nakada
FArm or Title: Kabushiki Kaisha Oban

Contractor's Signature: Tracy Lunnell
Printed Name: Tracy Lunnell
License #: AC16437
Date: 3/25/99
Farm or Title: ROSECO MOSS HAWAII INC.

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment

C:

USGS
Department of Health Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
Kabushiki Kaisha Oban, o/o Harvey Hida
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL


Explanation:

1. The Construction of the Completion of Water Resources Management, P.O. Box 360, Lubbock, Texas, signed, and as noted in the Permit, are hereby abandoned.

2. The Permit shall be used for the purpose of sealing the wells within 120 months after the date of approval of the Permit is suspended.

3. The Permit shall be used for the purpose of sealing the wells within 120 months after the date of approval of the Permit is suspended.

4. The Director of the Completion of Water Resources Management, P.O. Box 360, Lubbock, Texas, signed, and as noted in the Permit, are hereby abandoned.

5. The Permit shall be used for the purpose of sealing the wells within 120 months after the date of approval of the Permit is suspended.

6. The Permit shall be used for the purpose of sealing the wells within 120 months after the date of approval of the Permit is suspended.

7. The Permit shall be used for the purpose of sealing the wells within 120 months after the date of approval of the Permit is suspended.

Date of Approval: March 11, 1980
Expiration Date: When well is sealed in a manner acceptable to the Commission

Permittee's Signature: [Signature]
Printed Name: [Printed Name]
Date: [Date]
License No.: [License No.]

Contractor's Signature: [Signature]
Printed Name: [Printed Name]
Date: [Date]
TO: Honorable Bruce S. Anderson, Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch

FROM: Timothy E. Johns, Chairperson  
Commission on Water Resource Management

SUBJECT: Well Construction Permit Application to Abandon/Seal  
Maili Irrigation Well 2 and Lualualei Golf Course Wells 1 & 3  
(Well Nos. 2408-08, 2508-10 & 11)

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. The Commission has established a March 30, 1999 deadline for these well abandonments. **We request your help in meeting this deadline by returning this cover memo form by March 25, 1999 or as soon as possible.**

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Lenore Nakama of the Commission staff at [blank]

**RESPONSE:**

This well qualifies as a source which will serve as a source of potable water to a public water system (serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-26.

This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

For the applicant's information, a source of possible wastewater contamination [is] not located near the proposed well site (information attached).

Other relevant DOH rules/regulations, information, or recommendations are attached.

No comments/objections

Contact Person: Lori N. Kajiwara  
Phone: [blank]

Signed: [signature]  
Date: 3-23-99
TO: Honorable Bruce S. Anderson, Director
   Department of Health
   Attention: Dennis Tulang, Wastewater Branch
   William Wong, Safe Drinking Water Branch

FROM: Timothy E. Johns, Chairperson
   Commission on Water Resource Management

SUBJECT: Well Construction Permit Application to Abandon/Seal
Maili Irrigation Well 2 and Lualualei Golf Course Wells 1 & 3
(Well Nos. 2408-08, 2508-10 & 11)

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. The Commission has established a March 30, 1999 deadline for these well abandonments. We request your help in meeting this deadline by returning this cover memo form by March 25, 1999 or as soon as possible.

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Lenore Nakama of the Commission staff at [Contact Information]

Attachment(s)

RESPONSE:

1. This well qualifies as a source which will serve as a source of potable water to a public water system (serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

2. This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

3. If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

4. It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

5. For the applicant's information, a source of possible wastewater contamination [Information Attached] is not located near the proposed well site.

6. Other relevant DOH rules/regulations, information, or recommendations are attached.

7. No comments/objections

Contact Person: William Wong
Phone: [Phone Number]

Signed: William D. Johns
Date: 3/23/99
### FACSIMILE TRANSMITTAL

**DATE:** 3/23/99  
**TO:** Commissioner of Research  
**ATTN:** Lenore Nakano  
**FROM:** Tracy Runnels  
**REF:** Well Abandonments

---

Lenore,

We will proceed with well abandonments at 12:00 noon 3/23/99. Wells are to be abandoned per my recommendations and letter dated 3/7/99.

Best,

[Signature]

---

3-24-99  
Spoke w/ Tracy  
Told him permittee needs to sign also.  
He said he'd let Harvey know.
Mr. Harvey K. Hida  
Hida, Okamoto & Associates  
The Commerce Tower  
1440 Kapiolani Blvd., Ste. 915  
Honolulu, Hawaii 96814  

Dear Mr. Hida:

Well Construction Permit to Abandon/Seal  
Mali Irrigation Well 2 and Luahalei Golf Course Wells 1 & 3  
(Well Nos. 2408-08, 2508-10 & 11)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) which authorizes well abandonment/sealing activities. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 7:

**Special Conditions**

1. Department of Health has given verbal approval for the sealing. A copy of the Department of Health's written review comments will be sent to you as soon as we receive them.

To validate your permit, please sign and have the contractor sign both permit originals and return one for our files.

**IMPORTANT** - The well owner is responsible for all conditions of the permit. This includes ensuring that the your licensed contractor, submits a completed Well Abandonment Report form (enclosed) within sixty (60) days after the well construction work is completed. Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions.

If you have any questions, please call the Commission staff at [redacted]

Aloha,

[TIMOTHY E. JOHNS]  
Chairperson

Enclosures
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Maui Irrigation Well 2 and Lualualei Golf Course Wells 1 & 3, Well Nos. 2408-08, 2508-10 & 11

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-165, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the abandonment/sealing of Maui Irrigation Well 2 and Lualualei Golf Course Wells 1 & 3 (Well Nos. 2408-08, 2508-10 & 11) at Maui, Hawaii, Cdnm, TMK 8-T-08-22, subject to the Hawaii Well Construction & Pump Installation Standards (1/25/27) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809, shall be notified in writing before any work covered by this permit commences.
2. The permits may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified.
3. The owner or operator of any well which has been determined by the department or voluntarily declared by the owner or operator to be abandoned as defined in §13-169-2, after written notification, shall be required, at owner's or operator's expense, to re-case, cement, plug back, cap, or otherwise repair the well or fill and seal the well with cement in a manner approved by the commission.
4. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1897: HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.
5. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within sixty (60) days after completion of the work.
6. The permittee shall comply with all applicable laws, rules, and ordinances.
7. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: March 16, 1999

Expiration Date: When well is sealed in a manner acceptable to the Commission

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day.

Permittee's Signature: ___________________________ Date: ___________________________

Printed Name: ___________________________ Firm or Title: ___________________________

Contractor's Signature: ___________________________ License #: AC-16437 Date: 3/23/99

Printed Name: ___________________________ Firm or Title: ___________________________

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment
d:

USGS
Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
Kabushiki Kaisha Olan, ch Harvey Hida
Mr. Harvey K. Hida  
Hida, Okamoto & Associates  
The Commerce Tower  
1440 Kapiolani Blvd., Ste. 915  
Honolulu, Hawaii 96814

Dear Mr. Hida:

Well Construction Permit to Abandon/Seal  
Maili Irrigation Well 2 and Lualualei Golf Course Wells 1 & 3  
(Well Nos. 2408-08, 2508-10 & 11)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) which authorizes well abandonment/sealing activities. As part of the Chairperson’s approval, the following special conditions were added and are part of your permit under Permit Condition 7:

Special Conditions

1. Department of Health has given verbal approval for the sealing. A copy of the Department of Health’s written review comments will be sent to you as soon as we receive them.

To validate your permit, please sign and have the contractor sign both permit originals and return one for our files.

IMPORTANT - The well owner is responsible for all conditions of the permit. This includes ensuring that the your licensed contractor, submits a completed Well Abandonment Report form (enclosed) within sixty (60) days after the well construction work is completed. Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions.

If you have any questions, please call the Commission staff at [---]

Aloha,

[Signature]

Chairperson
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Maili Irrigation Well 2 and Lualualei Golf Course Wells 1 & 3, Well Nos. 2408-08, 2508-10 & 11

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the abandonmen/sealing of Maili Irrigation Well 2 and Lualualei Golf Course Wells 1 & 3 (Well Nos. 2408-08, 2508-10 & 11) at Maili, Wai'anae, Oahu, TMK 6-7-009:02, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809, shall be notified in writing before any work covered by this permit commences.

2. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified.

3. The owner or operator of any well which has been determined by the department or voluntarily declared by the owner or operator to be abandoned as defined in §13-168-2, after written notification, shall be required, at owner's or operator's expense, to re-case, cement, plug back, cap, or otherwise repair the well or fill and seal the well with cement in a manner approved by the commission.

4. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

5. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within sixty (60) days after completion of the work.

6. The permittee shall comply with all applicable laws, rules, and ordinances.

7. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: March 16, 1999  Expiration Date: When well is sealed in a manner acceptable to the Commission

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day.

Permittee's Signature: ___________________________ Date: __________
Printed Name: ________________________________ Firm or Title: ________________________________

Contractor's Signature: __________________________ License #: __________ Date: __________
Printed Name: ________________________________ Firm or Title: ________________________________

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment C:

USGS
Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
Kabushiki Kaisha Oban, c/o Harvey Hida
Mr. Harvey K. Hida  
Hida, Okamoto & Associates, Inc.  
The Commerce Tower  
1440 Kapiolani Blvd., Ste. 915  
Honolulu, HI 96814  

Dear Mr. Hida:

After-the-Fact Application for Well Construction for Well No. 2408-10  
Well Construction Permit Applications to Abandon/Seal Well Nos. 2408-08, 2508-10 & 11

We acknowledge receipt, on March 12, 1999, of your completed well construction permit applications for the subject wells. Because the Commission on Water Resource Management has established a deadline to resolve these well violations, we have requested expedited review by the Department of Health. The permits will be transmitted to you as soon we receive approval from the Department of Health.

We will look forward to receiving the elevation surveys for Well Nos. 2408-09 & 10 and the well completion reports for Well Nos. 2408-08, 2508-10 & 11 by the March 31, 1999 deadline.

We understand that the pump has been removed from Well No. 2408-10 and there are no immediate plans to install a permanent pump. Please be aware that an application for pump installation permit must be made and approved prior to pump installation.

If you have any questions about your permit application, please contact Lenore Nakama of the Commission staff at [redacted].

Sincerely,

Edwin T. Sakoda  
Acting Deputy Director
TO: Honorable Bruce S. Anderson, Director
Department of Health
Attention: Dennis Tulang, Wastewater Branch
William Wong, Safe Drinking Water Branch

FROM: Timothy E. Johns, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction Permit Application to Abandon/Seal
Maui Irrigation Well 2 and Lualualei Golf Course Wells 1 & 3
(Well Nos. 2408-08, 2508-10 & 11)

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. The Commission has established a March 30, 1999 deadline for these well abandonments. **We request your help in meeting this deadline by returning this cover memo form by March 25, 1999 or as soon as possible.**

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Lenore Nakama of the Commission staff at [phone number].

RESPONSE:

This well qualifies as a source which will serve as a source of potable water to a public water system (serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

For the applicant's information, a source of possible wastewater contamination (if [ ] is not located near the proposed well site (information attached).

Other relevant DOH rules/regulations, information, or recommendations are attached.

No comments/objections

Contact Person: ___________________________ Phone: ___________________________
Signed: ___________________________ Date: ___________________________
TO: Honorable Bruce S. Anderson, Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch  

FROM: Timothy E. Johns, Chairperson  
Commission on Water Resource Management  

SUBJECT: After-the-Fact Well Construction Permit Application  
Lualualei Golf Course Well 2 (Well No. 2408-10)  

Transmitted for your review and comment is a copy of the captioned well application.  

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. The Commission has established a March 30, 1999 deadline for this well permit violation. We request your help in meeting this deadline by returning this cover memo form by March 25, 1999 or as soon as possible.  

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Lenore Nakama of the Commission staff at [number]

RESPONSE:

1. This well qualifies as a source which will serve as a source of potable water to a public water system (serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.  

2. This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.  

3. If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.  

4. It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.  

5. For the applicant’s information, a source of possible wastewater contamination [ ] is [ ] is not located near the proposed well site (information attached).  

6. Other relevant DOH rules/regulations, information, or recommendations are attached.  

7. No comments/objections  

Contact Person: [______________________________] Phone: [______________________________]

Signed: [______________________________] Date: [______________________________]
March 12, 1999

Mr. Timothy E. Johns, Chairperson
State of Hawaii
Department of Land and Natural Resources
Commission on Water Resource Management
Post Office Box 621
Honolulu, Hawaii 96809

Attention: Ms. Lenore Nakama,

SUBJECT: Well Nos 2508-10 & 11, 2408-8 & 10
Lualualei, Wai'anae, Oahu
HO&A Job No. 97-1285.1

Pursuant to your February 8, 1999 letter, on behalf of Kabushiki Kaisha Oban, we are transmitting the following items for the subject wells:

• Well Construction Permit Application to Abandon/Seal for Well Nos. 2408-08, 2508-10 and 2508-11.
• After-the-Fact Application and Well Completion Report for Well Construction, Well No. 2408-10.
• $25.00 x 4 = $100.00 Filing Fee payable to Department of Land Natural Resources.

We will complete the construction and submit the Well Abandonment Report for Well Nos. 2408-08, 2508-10 & 2508-11 together with the elevation survey of Well Nos. 2408-09 & 2408-10 by March 31, 1999.

If you have any questions or require additional informations, please feel free to call me at

Very truly yours,

HIDA, OKAMOTO & ASSOCIATES, INC.

[Signature]
Harvey K. Hida, P.E.
President

Enclosures
APPLICATION FOR PERMIT

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at...

1. APPLICANT: (circle primary contact a, b, or c) Primary Fax: (808) 667-3566
   (a) WELL OWNER
      Firm/Name Kabushiki Kaisha Oban
      Contact Person Harvey K. Hida Ph: 808-541-2723
      Address 1440 Kapolei Boulevard Suite 915
               Honolulu, Hawaii 96814
   (b) LANDOWNER
      Firm/Name Kabushiki Kaisha Oban
      Contact Person Harvey K. Hida Ph: 808-541-2723
      Address 1440 Kapolei Boulevard Suite 915
               Honolulu, Hawaii 96814
   (c) CONTRACTOR
      Firm/Name Roscoe Moss Hawaii, Inc. Ph: 808-596-0748
      Contact Person Tracy Runnells
      Address 91-259A Olai Street, Kapolei, Hawaii 96707

2. WELL LOCATION/NAMESPACE: Lualualei Golf Course Well #1 (2508-10) Island Oahu
   Address End of Lualualei Navy Access Road
   Tax Map Key 8-7-09:02
   Attach the relevant portion of (a) a 7.5-Minute Series USGS topographic map (scale 1"=24,000"), and (b) a property tax map, showing well location referenced to established property boundaries.

3. (a) PROPOSED WORK:
   [ ] Drill New Well [ ] Deepen [ ] Install New Pump
   [ ] Modify Existing Well [ ] Redrill [ ] Modify Pump
   [ ] Abandon/Seal

   * Be sure to complete and submit well abandonment report upon completion of work.

   (b) WELL TYPE:
   [ ] Dug [ ] Bored [ ] Driven [ ] Drilled [ ] Radial
   Is this well a part of a battery of wells? [ ] Yes [ ] No
   (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: N/A gallons per minute
   Pump Type:
   [ ] Deep Well Turbine [ ] Rotary [ ] Propeller [ ] Diesel
   [ ] Submersible [ ] Rotary-Displacement [ ] Reciprocating [ ] Gas
   [ ] Centrifugal [ ] Rotary-Gear [ ] Impulse [ ] Electric, rated horsepower:
   If Pump Replacement, Existing Pump Capacity: __________________ gallons per minute

5. PROPOSED USE:
   [ ] Municipal (including hotels, stores, etc.) [ ] Industrial
   [ ] Domestic (individual, noncommercial water sys.) # Dwelling Units _______
   [ ] Irrigation (crop) Golf Course # Acres _______
   [ ] Military [ ] Other:

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: __________________ gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
   [ ] Flow-meter [ ] Open-pipe [ ] Orifice Plate [ ] Weir

7. PENDING ACTIONS:
   [ ] CDUA [ ] SMA [ ] EIS [ ] EA [ ] NONE [ ] Other(explain)
   Completion Date: __________________

8. REMARKS, EXPLANATIONS:
   Roscoe Moss drilled this well in 1994 to depth 102'. The well was capped and left due to poor yield in the muddy layers of the hole. We propose to pump 2,500 psi concrete down the well until it reaches ground level.

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 30 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of correlative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner Sanjiro Nakade
Signature __________________ Date 3-9-99

Landowner Sanjiro Nakade
Signature __________________ Date 3-9-99

Contractor Roscoe Moss Hawaii, Inc.
Signature __________________ Date 3-9-99

For Official Use Only:
Date Received __________________
Date Accepted __________________
Field Checked By __________________
Date __________________

Latitude __________________ Aquifer System Name __________________
Longitude __________________ State Well No. __________________

10/10/97 WCPI Form
APPLICATION FOR PERMIT

1. APPLICANT: (circle primary contact a, b, or c)
   (a) WELL OWNER
   Firm/Name: Kabushiki Kaisha Oban
   Contact Person: Harvey K. Hida
   Address: 1440 Kapiolani Boulevard Suite 915
   Honolulu, Hawaii 96814
   (b) LANDOWNER
   Firm/Name: Kabushiki Kaisha Oban
   Contact Person: Harvey K. Hida
   Address: 1440 Kapiolani Boulevard Suite 915
   Honolulu, Hawaii 96814
   (c) CONTRACTOR
   Firm/Name: Roscoe Moss Hawaii, Inc.
   Contact Person: Tracy Runella
   Address: 91-259A Oiai Street, Kapolei, Hawaii 96707

2. WELL LOCATION/NAMESPACE: Lualualei Golf Course Wells #3 (2508-11) Island Oahu
   Address: Lualualei, Wainanae, Oahu
   Tax Map Key: 8-7-09:02
   Attache the relevant portion of (a) a 7.5-Minute Series USGS topographic map (scale 1"=24,000), and (b) a property tax map, showing well location referenced to established property boundaries.

3. (a) PROPOSED WORK:
   - Drill New Well
   - Modify Existing Well
   - New Pump
   - Abandon/Seal
   * Be sure to complete and submit well abandonment report upon completion of work.

(b) WELL TYPE:
   - Drill
   - Bored
   - Driven
   - Drilled
   - Radial
   Is this well a part of a battery of wells? Yes
   Is this well a test well? No
   (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   - Rated Pump Capacity: N/A gallons per minute
   - Motor:
     - Deep Well Turbine
     - Rotary
     - Submersible
     - Centrifugal
   - Pump Type:
     - Propeller
     - Reciprocating
     - Rotary-Gear
   - If Pump Replacement, Existing Pump Capacity:
     - gallons per minute

5. PROPOSED USE:
   - Municipal (including hotels, stores, etc.)
   - Domestic (individual, non-commercial water sys.)
   - Irrigation (crop)
   - Golf Course
   - Industrial
   - Dwelling Units
   - Acres
   - Military
   - Other:

6. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   - gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
     - Flow-meter
     - Open-pipe
     - Orifice Plate
     - Weir

7. PENDING ACTIONS:
   - CDUA
   - SMA
   - EIS
   - EA
   - NONE
   - Other (explain)
   Completion Date:

8. REMARKS, EXPLANATIONS:
   We don't have any record of this well. We propose to pumping 2,500 psi concrete until filled to ground level.

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 30 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of correlative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: Sanjiro Nakade
Signatur: __________ Date: __________

Landowner: Sanjiro Nakade
Signatur: __________ Date: __________

Contractor: Roscoe Moss Hawaii, Inc.
Signatur: __________ Date: __________

For Official Use Only:
Date Received: __________
Date Accepted: __________
Field Checked By: __________
Date: __________
Longitude: __________
Aquifer System Name: __________
State Well No.: __________

10/10/87 WCFI Form
Chairperson Timothy E. Johns called the meeting of the Commission on Water Resource Management to order at 9:05 a.m.

The following were in attendance:

MEMBERS:  Mr. Timothy E. Johns
           Mr. Richard Cox
           Mr. David Nobriga
           Mr. Herbert Richards, Jr.
           Dr. Bruce Anderson
           Mr. Robert Girald

STAFF:     Mr. Edwin Sakoda
           Mr. Roy Hardy
           Ms. Lenore Nakama
           Mr. David Higa
           Mr. Charley Ice
           Mr. Eric Hirano
           Mr. Dean Nakano
           Ms. Faith Ching

COUNSEL:   Ms. Linnel Nishioka

OTHERS:

Benjamin Kudo    Kapua Sproat    George Hudes    Mike Miyahira
Manabu Tagomori  Charles Reppun   Felix Limtiaco

All written testimonies submitted at the meeting are filed in the Commission office and are available for review by interested parties. The items were not taken in the order posted on the agenda.

1. Minutes of the November 6 and 18, 1998.

Typographical corrections to the November 6, 1998 minutes were on page 4, first paragraph of the testimonies to correct the word “comission” to “commission”; on page 5, the last line, delete the words “which was”; and on page 6 under Colette Machado’s testimony, second to the last sentence, take off the word “the” between words “that” and “she”.

MOTION: (RICHARDS/COX)
To approve the November 6 minutes as corrected.
February. The 18 to 24-months time frame will complete the Oahu Water Management Plan.

George Hudes stated that they tried to estimate the cost of the Waiahole Ditch Contested Case. He said that this was difficult because they were not able to get information from all parties. Based on cost for Earthjustice, an estimate for spending was a minimum of $10 million and probably close to $20 million. That does not include any of the State’s time.

EXECUTIVE SESSION:

Chairperson Johns called an Executive Session at 10:31 am to confer with counsel on matters relating to public hearings and issues of recusal.

Following the executive session, the Chairperson asked counsel to make a statement regarding the issue of recusal.

Deputy Attorney General Linnel Nishioka stated, for the record, the issue that was discussed. The question was whether any Commissioner has, given the parties involved, a conflict for which they must be recused either under the Water Code or the Ethics Code. She stated that she has advised all Commissioners, without disclosing attorney-client communications, that at this time none of the Commissioners are legally required to recuse themselves.

MOTION: (ANDERSON/NOBRIJA)
To approve all the recommendations as amended by staff.

Dr. Anderson moved that a public hearing be held on the application that was recommended by the staff and that the Chair be authorized to request for additional information from the applicant prior to the hearing. He further moved that the hearing be held with the understanding that it may be continued if necessary.

Deputy Attorney General Nishioka stated that there is an additional staff recommendation about whether the Waiahole-Waikane Community Association has standing and wasn’t sure if that was to be included in the motion.

Motion was to include both staff recommendations.

UNANIMOUSLY APPROVED STAFF RECOMMENDATIONS WITH AMENDMENTS.

8. Kabushiki Kaisha Oban, IMPROPERLY ABANDONED WELLS, Lualualei Well 1 (Well No. 2408-08), Lualualei Golf Course Well 1 (Well No. 2508-10), Lualualei Golf Course Well 2 (Well No. 2508-11)

VIOLATION OF WELL CONSTRUCTION PERMIT, Lualualei Well 2 (Well No. 2408-09)
UNPERMITTED WELL CONSTRUCTION/PUMP INSTALLATION, Lualualei Well 3 (Well No. 2408-10), TMK 8-7-9:2, Lualualei Aquifer System, Oahu

PRESENTATION OF SUBMITTAL: Ms. Lenore Nakama

STAFF RECOMMENDATION:

1. Find Kabushiki Kaisha Oban in violation of Section 3.1 of HWCPIS for improper abandonment of Well Nos. 2408-08, 2508-10, and 2508-11.

2. Find that the violations in Recommendation 1 are willful violations.

3. Refer the violations in Recommendation 1 to the Department of the Attorney General for possible legal action and remedy to prevent hazard to public health and safety and to protect the water resource from possible contamination.

4. Find Kabushiki Kaisha Oban in violation of Well Construction Permit Standard Condition 3.b. and Section 2.10(a)(4) of HWCPIS for failing to comply with the elevation survey requirement for Well No. 2408-09.

5. Find that the violation in Recommendation 4 is a willful violation.

6. Fine the landowner $500 per day for the violation in Recommendation 4, beginning on February 17, 1998, the date on which the first correct certified notice of the violation was sent to the permittee, to this submittal's date (337 days), for a total amount of $168,500 (one hundred sixty-eight thousand five hundred dollars), and continue to fine the landowner $500 per day starting January 21, 1999 until the violation is corrected.


8. Find that the violation in Recommendation 7 is a willful violation.

9. Fine the landowner $500 per day for the violation in Recommendation 7, beginning on July 31, 1998, the date on which the first written notice of the violation was sent to the permittee, to this submittal's date (138 days), for a total amount of $69,000 (sixty-nine thousand dollars), and continue to fine the landowner $500 per day starting January 21, 1999 until the violation is corrected.

10. In the alternative to the fines in Recommendations 6 and 9, within sixty (60) days, the landowner may:

   a. apply for permits to abandon/seal Well Nos. 2408-08, 2508-10, and 2508-11 and complete the abandonment and sealing of Well Nos. 2408-08, 2508-10, and 2508-11 in accordance with the Hawaii Well Construction and Pump Installation Standards (January, 1997); and

   b. submit an elevation survey by a Hawaii-licensed surveyor for Well No. 2408-09; and
c. submit an after-the-fact application for a well construction/pump installation permit for Well No. 2408-10 and submit completed Well Completion Reports Parts I and II.

TESTIMONY BY APPLICANT: None

TESTIMONIES: None

Amendments to the staff recommendations were as follows:

1. Item 6 – change 337 days to 345 days; total amount of $168,500 to $172,500 and January 21 to January 29.

2. Item 9 – change 138 days to 146 days; total amount of $69,000 to $73,000 and January 21 to January 29.

Ms. Nakama stated that the consultant called yesterday and they were able to speak to the landowner. The landowner is willing to comply and plans to be in full compliance within 30 days, although the submittal gives him 60 days. They will be working together and they seem to have every intent now to do the work.

After discussions on the fines, Chairperson Johns stated that we should make things clear as to when the fines start accruing. It could be in the last paragraph. That way the applicant will be aware of when the fine will start.

Deputy Attorney General Nishioka pointed out that the Commission is legally able to assess the fine from the first day the notice goes out. It may be a good suggestion to inform the applicants because they may think they have a grace period. Fines can be charged from the day the first notice has gone out.

Commissioner Anderson stated that the problem with waiting until the 90-day period is up is that there is no incentive to comply. The applicant will probably wait until notice is received. Having the clock start immediately would encourage work to be done on time.

Commissioner Richards stated that the letters clearly inform the applicant about the fine and when it starts.

MOTION: (NOBRIGA/ANDERSON)
To approve the recommendation as amended.

UNANIMOUSLY APPROVED AS AMENDED.

9. Other Business

Ed Sakoda started that the schedule for the year needs to be prepared.
CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Harvey K. Hida
Kabushiki Kaisha Oban
1440 Kapiolani Blvd., Suite 915
Honolulu, HI 96814

Dear Mr. Hida:

NOTICE OF ACTION

IMPROPERLY ABANDONED WELLS
Lualualei Well 1 (Well No. 2408-08)
Lualualei Golf Course Well 1 (Well No. 2508-10)
Lualualei Golf Course Well 2 (Well No. 2508-11)

VIOLATION OF WELL CONSTRUCTION PERMIT
Lualualei Well 2 (Well No. 2408-09)

UNPERMITTED WELL CONSTRUCTION/PUMP INSTALLATION
Lualualei Well 3 (Well No. 2408-10)
TMK 8-7-9:2
Lualualei Aquifer System, Oahu

This letter serves as your official notice of action by the Commission on Water Resource Management (Commission) on the subject well construction and pump installation violations.

By a unanimous vote of the Commission at their meeting of January 29, 1999, the Commission:

1. Found Kabushiki Kaisha Oban in violation of Section 3.1 of HWCPIS for improper abandonment of Well Nos. 2408-08, 2508-10, and 2508-11.

2. Found that the violations in Action 1 are willful violations.

3. Referred the violations in Action 1 to the Department of the Attorney General for possible legal action and remedy to prevent hazard to public health and safety and to protect the water resource from possible contamination.

4. Found Kabushiki Kaisha Oban in violation of Well Construction Permit Standard Condition 3.b. and Section 2.10(a)(4) of HWCPIS for failing to comply with the elevation survey requirement for Well No. 2408-09.

5. Found that the violation in Action 4 is a willful violation.
6. Fined the landowner $500 per day for the violation in Action 4, beginning on February 17, 1998, the date on which the first correct certified notice of the violation was sent to the permittee, to this submittal’s date (345 days), for a total amount of $172,500 (one hundred seventy-two thousand five hundred dollars), and continue to fine the landowner $500 per day starting January 29, 1999 until the violation is corrected.


8. Found that the violation in Action 7 is a willful violation.

9. Fined the landowner $500 per day for the violation in Action 7, beginning on July 31, 1998, the date on which the first written notice of the violation was sent to the permittee, to this submittal’s date (146 days), for a total amount of $73,000 (seventy-three thousand dollars), and continue to fine the landowner $500 per day starting January 29, 1999 until the violation is corrected.

10. In the alternative to the fines in Actions 6 and 9, within sixty (60) days, the landowner may:
   a. apply for permits to abandon/seal Well Nos. 2408-08, 2508-10, and 2508-11 and complete the abandonment and sealing of Well Nos. 2408-08, 2508-10, and 2508-11 in accordance with the Hawaii Well Construction and Pump Installation Standards (January, 1997); and
   b. submit an elevation survey by a Hawaii-licensed surveyor for Well No. 2408-09; and
   c. submit an after-the-fact application for a well construction/pump installation permit for Well No. 2408-10 and submit completed Well Completion Reports I and II.

If the above violations are not fully corrected by March 30, 1999, these matters will be referred to the Department of the Attorney General for follow-up enforcement action and fine collection.

If you have any questions, please contact Lenore Nakama at [redacted]

Sincerely,

EDWIN T. SAKODA
Acting Deputy Director

LN:ss

c: Linnel Nishioka, Department of Attorney General
STAFF SUBMITTAL
for the meeting of the
COMMISSION ON WATER RESOURCE MANAGEMENT
January 29, 1999
Honolulu, Oahu

Kabushiki Kaisha Oban

IMPROPERLY ABANDONED WELLS
Lualualei Well 1 (Well No. 2408-08)
Lualualei Golf Course Well 1 (Well No. 2508-10)
Lualualei Golf Course Well 2 (Well No. 2508-11)

VIOLATION OF WELL CONSTRUCTION PERMIT
Lualualei Well 2 (Well No. 2408-09)

UNPERMITTED WELL CONSTRUCTION/PUMP INSTALLATION
Lualualei Well 3 (Well No. 2408-10)
TMK 8-7-9:2
Lualualei Aquifer System, Oahu

Permittee: Kabushiki Kaisha Oban
1440 Kapiolani Blvd., Ste. 915
Honolulu, HI 96814

LANDOWNER: Same

LOCATION MAP: See Exhibit 1

BACKGROUND:
December 15, 1988 Applications to drill two (2) new wells, Well Nos. 2408-08 & 09 were received from Kabushiki Kaisha Oban, c/o Wilson Okamoto & Associates.
February 22, 1989 Well construction permits to construct and test Well Nos. 2408-08 & 09 were issued.
October 23, 1989 A well completion report for Well No. 2408-09 was received.
February 22, 1991 The well construction permits for Well Nos. 2408-08 & 09 expire.
July 19, 1993 Applications to drill four (4) new wells, Well Nos. 2508-10 to 13 were received from Kabushiki Kaisha Oban, c/o Hida Okamoto and Associates (Permittee).
October 6, 1993 A preliminary engineering report for Well Nos. 2408-08 & 09 was received.

Item 8
A single well construction permit to construct and test Well Nos. 2508-10 to 13 was issued.

An incomplete well completion report was filed by Roscoe Moss Hawaii, Inc. for Well No. 2508-12.

Issues regarding potential well interference based on pump test data were explored.

The well construction permit for Well Nos. 2508-10 to 13 expires.

An incomplete well completion report was filed by PR Drilling Company for Well No. 2508-11.

(First Notice) Commission staff requested that PR Drilling submit additional required information (pursuant to Standard Condition 5) for Well No. 2508-11. Commission staff also requested information regarding the other three (3) permitted well constructions.

PR Drilling Company responds that it is unable to obtain any further information from the permittee.

(Second Notice) Commission staff requested the permittee to submit all information for Well Nos. 2508-10 to 13 required under Standard Condition 5. Written response requested by September 15, 1996.

(Third Notice) Commission staff sends Notice of Violation to the permittee via certified mail. Written response requested by November 17, 1997.

(Fourth Notice) Commission staff resends Notice of Violation to the permittee via certified mail (to correct a typographical error in the title of the Notice). Written response requested by December 25, 1997.

Staff conducts a field investigation.

Permittee submits:
- Well Completion Report (Well Nos. 2508-10 to 13)
- Elevation surveys (Well Nos. 2508-10, 11, & 12)
- As-built sectional drawings (Well Nos. 2508-10 & 12)
- Plot plan (Well Nos. 2508-10, 11, & 12)
- Pumping test record (Well Nos. 2508-10 & 12)

Staff review indicates numerous inconsistencies and discrepancies between the information submitted by the permittee on January 22, 1998 and field investigations and previously submitted construction information.

Commission staff meets with the permittee and driller, Tracey Runnels of Roscoe Moss Hawaii, Inc., to resolve uncertainties regarding the well drilling activities.

(Fifth Notice) See Exhibit 2.
Staff Submittal

May 13, 1998  Staff conducts another field investigation and discovers a new well with permanent pump installed of which we were previously unaware (now designated Well No. 2408-10).

July 31, 1998  (Sixth Notice)  See Exhibit 3.

September 3, 1998  The consultant for the landowner, Harvey K. Hida, meets with the staff to discuss possible regulatory actions that may result from the permittee's noncompliance.

ANALYSIS/ISSUES:

There are basically two issues: 1) noncompliance with the statutes, rules, and permit conditions; and 2) possible endangerment to human health and safety and the water resource. These are detailed in the following sections on improperly abandoned wells, well construction permit violation, and unpermitted well construction/pump installation.

I. IMPROPERLY ABANDONED WELLS

Three of the wells (Well Nos. 2408-08, 2508-10 & 11) have been improperly abandoned:

1. Well No. 2408-08 was drilled to a depth of 220 ft. in 1989. The original static water level was 133 ft., and the water was too salty for use. This well has collapsed, and the top of the casing has been damaged. Collapse of a portion of the well and siltation from rain have filled the well to about 50 ft. below ground surface. In its present state, there is a potential for contamination of the ground water from the surface. Although the property is fenced, there are large gaps between the fence and the ground surface through which an adult or child may enter and may fall into or be injured by this open hole. Thus, public health and safety are also at risk.

2. Well No. 2508-10 was drilled to a depth of 102 ft. in 1994. The well was capped and not used due to poor water yield. Water is visible from the surface looking down into the hole. The well is secured only by a piece of metal covering the 14-inch metal casing, which is inadequate according to Section 2.10 of the Hawaii Well Construction and Pump Installation Standards (January, 1997; HWCPIS). This well is also a potential conduit for contamination and a health hazard.

3. Well No. 2508-11 was probably drilled to a depth of about 100 ft. in 1996. It appears that an 8-inch casing was installed in a 12-inch hole. Because a completion report was not timely filed, and the driller has gone out of business, construction details are uncertain. The casing has been smashed at ground level. There is about 51 ft. of open hole. This also poses a threat to ground water quality and human health and safety.

Section 174C-81 Haw. Rev. Stat. defines an abandoned well as:

"... any well that has been permanently discontinued. Any well shall be deemed abandoned which is in such a state of disrepair that continued use for the purpose of obtaining ground water is impractical."

Section 3.1 of the HWCPIS states:

"All wells and test borings as defined in these Standards must be properly abandoned and permanently sealed to protect the ground-water resources of the State of Hawaii from contamination and waste and to protect public health and safety, whenever:"
1. Their purpose has been served, or  
2. Their use has been permanently discontinued, and  
3. Their physical condition is causing or threatening contamination, deterioration in quality, or waste of ground-water resources, or  
4. Their state of disrepair makes their continued use impractical or creates a hazard to public health or safety."

Section 2.10 of the HWCPIS states:

"[W]ells must be adequately protected at all times during and after construction to prevent the entrance of surface water runoff, pollutants, and contaminants; unauthorized access; and damage to the well. All non-producing wells, including water wells which are commonly not put into production until several years after construction, must be completed with the casing extended a minimum of two (2) feet above the ground surface and capped in a manner that will prevent unauthorized entry or any pollutants from entering the well. Such wells shall conform to the following:

(1) **Lockable Cover.** The top of the well casing shall be cut smooth and straight with a lockable cover to prevent unauthorized access and prevent a safety hazard to humans and animals. The cover shall be weather and vermin proof.

(2) **Casing Cap.** Alternatively, the top of the well casing may be capped with a welded steel plate or solvent-welded plastic cap (for plastic casings) fitted with a 1½-inch minimum diameter threaded cap or plug which cannot be easily opened with small or light tools. Openings or passages for probing, venting, cables, or discharge tubing shall be protected against entry of surface water, pollutants, contaminants, and vermin.

(3) **Flooding.** The top of the well casing should terminate above ground surface and known levels of flooding, except where site conditions, such as vehicular traffic, will not allow."

The staff finds Well Nos. 2408-08, 2508-10, and 2508-11 meet the definition for an abandoned well since at least one of the above conditions for abandonment in Section 3.1 of the HWCPIS have been met. Further, in their present state, these wells do not meet the requirements of Section 2.10 of the HWCPIS.

II. WELL CONSTRUCTION PERMIT VIOLATION

Well No. 2408-09 has an 8-inch casing covered by a welded metal plate. This well successfully develops brackish irrigation water. However, the benchmarks on the casing and ground surface (which were used to reference to test data) have been destroyed. In letters dated August 27, 1996, February 17, 1998, and July 31, 1998, the staff requested that the permittee submit a new elevation survey (see Exhibit 4). To date, we have not received a response. We have withheld issuance of a pump installation permit pending the submittal of an elevation survey.

Standard Condition 3.b. of the well construction permit for Well No. 2408-09 requires an elevation (referenced to mean sea level) survey by a Hawaii-licensed surveyor to be submitted within sixty (60) days after completion of the well.

Further, section 2.10(a)(4) of the HWCPIS states:

"An accurate elevation benchmark shall be clearly established on the concrete base."
Although a benchmark had been established at one point, the staff finds that the subsequent destruction of the benchmark and the permittee’s lack of compliance in re-establishing a benchmark means the permittee does not meet Well Construction Permit Standard Condition 3.b. and HWCPIS Section 2.10(a)(4).

III. UNPERMITTED WELL CONSTRUCTION/PUMP INSTALLATION

An unregistered, unpermitted well was discovered at TMK 8-7-09:2 during a May 20, 1998 field investigation. The well appears to be fairly new, on a cement platform with a pump in it adjacent to a cement pad with electrical connections. This 8-inch pvc-cased well, encased in a 12-inch metal conductor pipe has been assigned Well No. 2408-10. In a letter dated July 31, 1998, the staff requested that the permittee submit the appropriate after-the-fact permits. However, to date, we have not received a response. We do not know who drilled the well nor does the present company representative claim to know.

Section 174C-84(a) Haw. Rev. Stat. states:

"No well construction and no installation of pumps and pumping equipment shall commence without appropriate permit from the commission."

The requirement for permits prior to well construction and pump installation is also stated in Sections 1.7 and 1.9 of HWCPIS.

IV. POSSIBLE LEGAL ACTIONS

Exhibit 4 summarizes the timeline of notices of violations and possible sanctions. The Commission can:

1. Impose fines of up to $1,000 per day for each source for the period of the violations (since the first written notice of violation was sent to the permittee).

2. Do the necessary work to prevent potential contamination and eliminate human health hazards, and refer the matter to the Department of the Attorney General for possible legal action, including placing a lien on the property, and initiating foreclosure suit to collect.

3. Refer these matters to the Department of the Attorney General for possible legal action, including filing suit for injunctive relief and damages.

The consultant for the permittee has contacted Roscoe Moss Hawaii, Ltd. for a cost estimate to seal improperly abandoned wells. The projected cost is $10,416.00.

The staff is working on a schedule for fines and a database to track violations and sanctions.

RECOMMENDATION:

That the Commission:

1. Find Kabushiki Kaisha Oban in violation of Section 3.1 of HWCPIS for improper abandonment of Well Nos. 2408-08, 2508-10, and 2508-11.

2. Find that the violations in Recommendation 1 are willful violations.
3. Refer the violations in Recommendation 1 to the Department of the Attorney General for possible legal action and remedy to prevent hazard to public health and safety and to protect the water resource from possible contamination.

4. Find Kabushiki Kaisha Oban in violation of Well Construction Permit Standard Condition 3.b. and Section 2.10(a)(4) of HWCPIS for failing to comply with the elevation survey requirement for Well No. 2408-09.

5. Find that the violation in Recommendation 4 is a willful violation.

6. Fine the landowner $500 per day for the violation in Recommendation 4, beginning on February 17, 1998, the date on which the first/correct certified notice of the violation was sent to the permittee, to this submittal's date (137 days), for a total amount of $168,500 (one hundred sixty-eight thousand five hundred dollars), and continue to fine the landowner $500 per day starting January 21, 1999 until the violation is corrected.


8. Find that the violation in Recommendation 7 is a willful violation.

9. Fine the landowner $500 per day for the violation in Recommendation 7, beginning on July 31, 1998, the date on which the first written notice of the violation was sent to the permittee, to this submittal's date (138 days), for a total amount of $69,000 (sixty-nine thousand dollars), and continue to fine the landowner $500 per day starting January 21, 1999 until the violation is corrected.

10. In the alternative to the fines in Recommendations 6 and 9, within sixty (60) days, the landowner may:

   a. apply for permits to abandon/seal Well Nos. 2408-08, 2508-10, and 2508-11 and complete the abandonment and sealing of Well Nos. 2408-08, 2508-10, and 2508-11 in accordance with the Hawaii Well Construction and Pump Installation Standards (January, 1997); and

   b. submit an elevation survey by a Hawaii-licensed surveyor for Well No. 2408-09; and

   c. submit an after-the-fact application for a well construction/pump installation permit for Well No. 2408-10 and submit completed Well Completion Reports Parts I and II.

Respectfully submitted,

EDWIN T. SAKODA
Acting Deputy Director

Exhibit(s):
1 (Location Map)
2 (February 17, 1998 Letter from Edwin T. Sakoda to Harvey K. Hida)
3 (July 31, 1998 Certified Notice of Violation from Timothy E. Johns to Harvey K. Hida)
4 (Summary of Notices of Noncompliance)
Mr. Harvey K. Hida  
Kabushiki Kaisha Oban  
1440 Kapiolani Blvd., Suite 915  
Honolulu, HI 96814

Dear Mr. Hida:

Thank you for attending a meeting on February 11, 1998 with Susan Swanson, Mitchell Ohye, and Lenore Nakama of my staff and Tracy Runnels of Roscoe Moss Hawaii, Inc. to resolve discrepancies between the field investigation and well completion information for Well Nos. 2408-08 & 09 and Well Nos. 2508-10 to 13:

- **Well No. 2408-08**  
  We received a Preliminary Engineering Report on Well No. 2408-08 on October 23, 1989 and will accept this as fulfillment of Condition 3 of your well construction permit. We understand this well was unsuccessful and has been abandoned. Please complete and return the attached well construction permit application to abandon/seal this well within ninety (90) days.

- **Well No. 2408-09**  
  We received a well completion report on October 7, 1989. However, because the benchmarks on the casing and ground surface (which were used to reference the pump test data) have been destroyed, we are requiring another elevation survey (referenced to mean sea level) by a licensed surveyor; please submit an elevation survey within sixty (60) days. We understand this well was successful and is properly capped. If you wish to use this well in the future, please complete and return the attached application for a pump installation permit.

- **Well Nos. 2508-10 & 11**  
  We will accept the Well Completion Reports - Part I for these wells, as amended based on our meeting discussion (attached). We understand these well were unsuccessful and have been abandoned. Please complete and return the attached well construction permit applications to abandon/seal these wells within ninety (90) days.
Well No. 2508-12
We will accept the Well Completion Report - Part I for this well, as amended based on our meeting discussion (attached). We understand this well was successful and is properly capped. If you wish to use this well in the future, please complete and return the attached application for a pump installation permit.

Well No. 2508-13
We understand this well was never drilled under the well construction permit which has expired. A new permit is necessary to drill this well.

We have also attached a location map showing the correct location of the wells.

Please be advised that failure to comply with the terms of your permit or any provision of the State Water Code (including the provisions for well abandonment/sealing) may be subject to fines of up to $1000 per day.

If you have any questions, please contact Lenore Nakama at [REDACTED]

Sincerely,

[Signature]
EDWIN T. SAKODA
Acting Deputy Director

LN:ss
Enclosures
CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Harvey K. Hida
Kabushiki Kaisha Oban
1440 Kapiolani Blvd., Suite 915
Honolulu, HI 96814

Dear Mr. Hida:

SIXTH NOTICE OF VIOLATION
Lualualei Golf Course Wells 1 to 4 (Well Nos. 10 to 13)
Maili Irrigation Wells 1 & 2 (Well Nos. 2408-08 & 09)

This follows our letter of February 17, 1998 (Exhibit 1), to which we have not yet received a response, requesting that you submit necessary and required information regarding the construction of successful wells and permit applications to seal abandoned, unsuccessful wells.

Our records show that this is the sixth notice from our office, regarding non-compliance with the permit conditions and/or provisions of the State Water Code. A summary of previous correspondence regarding the well permits and pertinent background information follows:

December 15, 1988 Applications to drill two (2) new wells, Well Nos. 2408-08 & 09 were received from Kabushiki Kaisha Oban, c/o Wilson Okamoto & Associates.

February 22, 1989 Well construction permits to construct and test Well Nos. 2408-08 & 09 were issued.

October 23, 1989 A well completion report for Well No. 2408-09 was received.

February 22, 1991 The well construction permits for Well Nos. 2408-08 & 09 expire.

July 19, 1993 Applications to drill four (4) new wells, Well Nos. 2508-10 to 13 were received from Kabushiki Kaisha Oban, c/o Hida Okamoto and Associates (Permittee).

October 6, 1993 A preliminary engineering report for Well Nos. 2408-08 & 09 was received.

October 25, 1993 A well construction permit to construct and test Well Nos. 2508-10 to 13 was issued.

March 18, 1994 An incomplete well completion report was filed by Roscoe Moss Hawaii, Inc. for Well No. 2508-12.
December, 1994 to August 1996

Issues regarding potential well interference based on pump test data were explored.

October 25, 1995

The well construction permit for Well Nos. 2508-10 to 13 expires.

July 9, 1996

An incomplete well completion report was filed by PR Drilling Company for Well No. 2508-11.

July 17, 1996

(First Notice) Commission staff requested that PR Drilling submit additional required information (pursuant to Standard Condition 5) for Well No. 2508-11. Commission staff also requested information regarding the other three (3) permitted well constructions.

August 12, 1996

PR Drilling Company responds that it is unable to obtain any further information from the permittee.

August 27, 1996

(Second Notice) Commission staff requested Permittee to submit all information for Well Nos. 2508-10 to 13 required under Standard Condition 5. Written response requested by September 15, 1996.

October 17, 1997

(Third Notice) Commission staff sends Notice of Violation to Permittee via certified mail. Written response requested by November 17, 1997.

November 25, 1997

(Fourth Notice) Commission staff resends Notice of Violation to Permittee via certified mail (to correct a typographical error in the title of the Notice). Written response requested by December 25, 1997.

December 23, 1997

Staff conducts a field investigation.

January 22, 1998

Permittee submits:

a. Well Completion Report (Well Nos. 2508-10 to 13)
b. Elevation surveys (Well Nos. 2508-10, 11, & 12)
c. As-built sectional drawings (Well Nos. 2508-10 & 12)
d. Plot plan (Well Nos. 2508-10, 11, & 12)
e. Pumping test record (Well Nos. 2508-10 & 12)

Staff review indicates numerous inconsistencies and discrepancies between the information submitted by Permittee on January 22, 1998 and field investigations and previously submitted construction information (Exhibit 2).

February 11, 1998

Commission staff meets with Permittee and Tracey Runnels of Roscoe Moss Hawaii, Inc. to resolve uncertainties regarding the well drilling activities.

February 17, 1998

(Fifth Notice) See attached (Exhibit 1).

May 13, 1998

Staff conducts another field investigation and discovers a new well with permanent pump installed of which we were previously unaware (now designated Well No. 2408-10).

We are reiterating the following requests made in our previous letter to you:

EXHIBIT 3
Mr. Harvey K. Hida

Page 3

We received a Preliminary Engineering Report on Well No. 2408-08 on October 23, 1993 and will accept this as fulfillment of Condition 3 of your well construction permit. We understand this well was unsuccessful and has been abandoned. Please complete and return the attached well construction permit application to abandon/seal this well within thirty (30) days.

We received a well completion report on October 7, 1989. However, because the benchmarks on the casing and ground surface (which were used to reference the pump test data) have been destroyed, we are requiring another elevation survey (referenced to mean sea level) by a licensed surveyor; please submit an elevation survey within thirty (30) days. We understand this well was successful and is properly capped. If you wish to use this well in the future, please complete and return the attached application for a pump installation permit.

We will accept the Well Completion Reports - Part I for these wells, as amended based on our meeting discussion. We understand these wells were unsuccessful and have been abandoned. Please complete and return the attached well construction permit applications to abandon/seal these wells within thirty (30) days.

We will accept the Well Completion Report - Part I for this well, as amended based on our meeting discussion. We understand this well was successful and is properly capped. If you wish to use this well in the future, please complete and return the attached application for a pump installation permit.

We understand this well was never drilled under the well construction permit which has expired. A new permit is necessary to drill this well.

In addition, please submit an after-the-fact application for well construction and pump installation for Well No. 2408-10 by August 31, 1998. This unpermitted well was discovered during a field investigation on May 13, 1998.

Please be advised that failure to comply with the terms of your permit or any provision of the State Water Code (including the provisions for well abandonment/sealing) may be subject to fines of up to $1000 per day. We will submit the violations for Commission action with a recommendation for fines if the above matters are not addressed by the deadlines specified in this certified letter.

If you have any questions, please contact Lenore Nakama [redacted].

Sincerely,

TIMOTHY E. JOHN
Deputy Director

LN:ss
Attachments

EXHIBIT 3
### Summary of Notices of Noncompliance

<table>
<thead>
<tr>
<th>Notice</th>
<th>Well Nos.</th>
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<tbody>
<tr>
<td></td>
<td>2408-08</td>
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<tr>
<td>1st 7/17/96</td>
<td>Plot plan &amp; map Elevation survey</td>
</tr>
<tr>
<td>2nd 8/27/96</td>
<td>Well completion report Elevation survey As-built drawing Plot plan &amp; map</td>
</tr>
<tr>
<td>3rd 10/17/97</td>
<td>Plot plan &amp; map Elevation survey</td>
</tr>
<tr>
<td>5th 2/17/98</td>
<td>Improper abandonment Elevation survey</td>
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<tr>
<td>6th 7/31/98</td>
<td>Improper abandonment Elevation survey Unpermitted Well Construction/ Pump Installation</td>
</tr>
<tr>
<td>ACTION AG Referral</td>
<td>Fine $168,500 and counting at $500/day from 1/21/99 until corrected</td>
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</tbody>
</table>
September 18, 1998

Mr. Harvey K. Hida
1440 Kapiolani Blvd., STE 915
Honolulu, HI 96814

RE: STATE WELLS #2408-08, 2508-10, & 2508-11

Dear Harvey,

Please accept my following cost proposal for the abandonment of the above referenced wells.

Wells will be abandoned per my letter dated March 7, 1998 and Edwin Sakoda's response on March 16, 1998. I have enclosed copies of these letters.

PROPOSAL

Supply labor, materials and equipment to access and abandon State Wells #2408-08, 2508-10 & 2508-11 complete.

LUMP SUM

$10,416.00

Respectfully submitted,

[Signature]

Tracy Rummell
Drilling Operations

Accepted By:

[Signature]

Title

[Signature]
MEMORANDUM FOR THE RECORD

SUBJECT: Well Construction Violations for Well Nos. 2408-08 to 10 and 2508-10 to 13

FROM: Lenore Nakama

Harvey Hida came in on 9/3/98 to talk with Tim Johns, Roy Hardy, and myself to discuss possible regulatory actions that may result because the landowner in Japan refuses to respond to CWRM's notice of violations.

There are basically two issues:

1. Noncompliance with the statutes, rules, and permit conditions
2. Possible endangerment of human health and the water resource

Tim explained that the next step would be to submit the violations to the Commission for action. Possible legal actions include:

1. $1,000/day fine for the period of the violation (since the first written notice was sent to permittee on 8/27/96) ~ $730,000
2. CWRM can do the necessary work (to prevent contamination and waste), place a lien on the property, and initiate foreclosure suit to collect.
3. CWRM can file suit for injunctive relief and damages (court enforcement).

Tim feels that Harvey is not liable since he is no longer the consultant and he claims that the owner still owes him money.

Harvey will submit the cost estimates to bring the project into compliance.

CWRM reviewed a Special Use Permit application for the golf course development in 10/97. Lenore will check to see who the current consultant for the project is because we may be able to work with the new consultant to get a response from the owner.

(NOTE: called DLU 9/3/98. The applicant for the Special Use Permit was Robert Kava - Century Construction Company. However, the application was withdrawn -- reason unknown)
Mr. Harvey K. Hida
Kabushiki Kaisha Oban
1440 Kapiolani Blvd., Suite 915
Honolulu, HI 96814

Dear Mr. Hida:

SIXTH NOTICE OF VIOLATION
Lualualei Golf Course Wells 1 to 4 (Well Nos. 10 to 13)
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Well No. 2508-13
We understand this well was never drilled under the well construction permit which has expired. A new permit is necessary to drill this well.

In addition, please submit an after-the-fact application for well construction and pump installation for Well No. 2408-10 by August 31, 1998. This unpermitted well was discovered during a field investigation on May 13, 1998.

Please be advised that failure to comply with the terms of your permit or any provision of the State Water Code (including the provisions for well abandonment/sealing) may be subject to fines of up to $1000 per day. We will submit the violations for Commission action with a recommendation for fines if the above matters are not addressed by the deadlines specified in this certified letter.

If you have any questions, please contact Lenore Nakama.

Sincerely,

[Signature]
TIMOTHY E. JOHNS
Deputy Director

LN:ss
Attachments
# Lualualei Golf Course Wells # 1-4

## Discrepancies

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## REMARKS

- Location still in question.
- Names different.
- Also received another WCR (old) with no number & called Lualualei Golf # 5 ????
- All three were submitted together.

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<th>Name: Lualualei Golf Course Well 4</th>
<th>Driller: N/A</th>
<th>Yr. Drilled: 11-9-94</th>
<th>Total Depth: 103 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>WCR received on 1-27-98 (HIDA), WCR form 4-25-97</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Location in question.
- Names different.
- Casing is 14 in.

- Well maybe lost.
- No signature.
### Driller's Log (cont'd):

<table>
<thead>
<tr>
<th>Depth (ft.)</th>
<th>Rock Description, Remarks, Dates</th>
<th>Water Level (ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

### Pumping Tests (cont'd):

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<tr>
<th>Elapsed Time (hours)</th>
<th>Rate (gpm)</th>
<th>Drawdown (ft.)</th>
<th>Temp. °F</th>
<th>Elapsed Time (hours)</th>
<th>Rate (gpm)</th>
<th>Drawdown (ft.)</th>
<th>Temp. °F</th>
</tr>
</thead>
<tbody>
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</tr>
</tbody>
</table>

### Remarks (cont'd):

Left with 15 ft conductor pipe and welded on cover. We have waited for customer to make a decision on abandonment and other wells. We have just learned P & R drilling is completing additional wells and felt we should report this incomplete well.

Location map attached.
Total Depth: 100 ft.

Hole Diameter: 12 in.

Rock Packing: 65 ft.

Cement Grout to Surface:

Elevation at top of casing:

Ground Elevation: ft., msl

Solid Casing:
- Material: PVC
- Length: 79 ft.
- Diameter: 8 in.
- Wall thickness: .250 in.

Casing:
- Perforated
- Screen

Material: PVC
- Length: 69 ft.
- Diameter: 8 in.
- Wall thickness: .250 in.
- Openings: 0.020 sq. in./L.F.

Open Hole:
- Length: 1 ft.
- Diameter: 12 in.

Last page, no map
MEMORANDUM

TO: MR. HARVEY HIDA  
COMPANY: HIDA, OKAMOTO AND ASSOCIATES  
FROM: ED YEH

DATE: 1/13/98  
FAX: [redacted]

TELEPHONE: [redacted]  
EXT: [redacted]  
FAX: [redacted]

PROJECT: LUALUALEI WELLS

SUBJECT: WELL ELEVATION AND LOCATION

<table>
<thead>
<tr>
<th>WELL #</th>
<th>COORDINATES</th>
<th>TOP ELEV.</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NORTH</td>
<td>EAST</td>
<td></td>
</tr>
<tr>
<td>10</td>
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<tr>
<td>12</td>
<td>-11344.20</td>
<td>10941.02</td>
<td>78.99</td>
</tr>
</tbody>
</table>

NOTES:

1. COORDINATES REFERRED TO "PAIHEEHEE NEW"

2. BENCH MARK & COORDINATES REFERRED TO MON. #6 ELEV.=129.49 (INFORMATION OBTAINED FROM US NAVAL AMMUNITION DEPOT LUALUALEI BRANCH - PERMANENT MARKERS FOR HORIZONTAL & VERTICAL CONTROL DRAWING NO. 841754)
# WELL COMPLETION REPORT

(4/25/97 WCR Form)

| (Check Appropriate Box) | ☐ Well Construction | ☐ (Permanent) Pump Installation |

Instructions: Please print or type and submit completed report within 30 days after well completion to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. An as-built drawing of the well and chemical analysis should also be submitted. For assistance call the Commission Regulation Branch at 70222 or Extension 70225.

1. State Well No.: 2508-10 Well Name: Lualualei Golf Course Well Island: Oahu
2. Location/Address: Lualualei, Waianae, Oahu Tax Map Key: 8-7-9: Port. 2

## PART I. WELL CONSTRUCTION REPORT

3. Drilling Company: 
4. Name of driller who performed work: 
5. Type of rig/construction: 
6. Date(s) Well Construction and pump tests (if any) completed: 02-8-94
7. GROUND ELEVATION (referenced to mean sea level, msl): 93.99 ft.
   - Well Bench Mark (description/location): Mon. #6 Elevation(msl): 129.43 ft.
8. DRILLER'S LOG: Please attach geologic log (if available or if required by permit) Attached
9. Total depth of well below ground: 102 ft.
10. Hole size: 
   - 14 inch dia. from 0 ft. to 102 ft. below ground
11. Casing installed: 
   - 14 in. I.D. x .312 in. wall solid section to 15 ft. below ground
12. Annulus: 
   - Grouted from 74 ft. below ground to 76 ft. below ground
13. Initial water level: 74 ft. below ground. Date and time of measurement: 11/03/94
15. Initial temperature: 25°C OF Date and time of measurement: 
16. PUMPING TESTS: Reference Point (R.P.) used: Ground which elevation is 75.7 ft.
   - (1) Step-Drawdown Test Date 11-03-94
   - Start water level 74 ft. below R.P.
   - End water level 76 ft. below R.P.
   - (2) Long-term Aquifer Test Date
   - Start water level 74 ft. below R.P.
   - End water level 76 ft. below R.P.
17. Aquifer Pump Test Procedures data & graphs (1/96 LTAT Form) attached? Yes No
18. As-built drawings attached? Yes No
19. Other remarks/comments: (On back of this form)

---

Well Drilling Contractor (print) Sanjiro Nakade  (C-57 Lic. No. 6605-LS)
Signature: Date:

Surveyor (print) controlpoint surveying, Inc. Lic. No. 6605-LS
Signature: Date:

Applicant (print) Sanjiro Nakade
Signature: Date: 7/10/98
# WELL COMPLETION REPORT

**State of Hawaii**  
**COMMISSION ON WATER RESOURCE MANAGEMENT**  
**Department of Land and Natural Resources**

---

**Instructions:** Please print or type and submit completed report within 30 days after well completion to the Commission on Water Resource Management, P.O. Box 281, Honolulu, Hawaii 96819. An as-built drawing of the well and chemical analysis should also be submitted. For assistance call the Commission Regulation Branch at 808-684-0662.

---

1. **STATE WELL NO.:** 2508-2  
2. **WELL NAME:** LUALUELI GOLF  
3. **ISLAND:** OAHU  
4. **LOCATION:** Address: NEXT TO LUALUELI NAVY GUARD GATE  
5. **Text Map Key:** 8-7-9-POR2

---

6. **DRILLING OR PUMP INSTALLATION CONTRACTOR:** ROSCOE MOSS HAWAII, INC.
7. **CONTRACTOR'S C-67 LICENSE NUMBER:** C-16437
8. **NAME OF DRILLER WHO PERFORMED WORK:** RUDNEY COUCH
9. **TYPE OF RIG/CONSTRUCTION:** 80L CABLE TOOL
10. **DATE OF WELL DRILLING COMPLETION:** 2/8/94

---

**NOTE: Report must be submitted within 30 days after this report.**

---

11. **GROUND ELEVATION (msl) :**  
12. **Top of Drilling Platform (msl) :**  
13. **Height of Drilling Platform above Ground surface :**  
14. **Bench Mark and Method Used to Determine Ground Elevation :**

---

**Driller's Log:**

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Rock Description, Remarks, Dates</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 15</td>
<td>LOOSE DIRT &amp; ROCKS</td>
<td></td>
</tr>
<tr>
<td>15 - 46.5</td>
<td>WEATHERED BROWN ROCK</td>
<td></td>
</tr>
<tr>
<td>46.5 - 80</td>
<td>ALTIVIA</td>
<td></td>
</tr>
<tr>
<td>80 - 102</td>
<td>BROWN CLAY</td>
<td></td>
</tr>
<tr>
<td>102 +</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Depth of Well Below Ground :**

---

**Casing Installed:**

14 in. I.D. x 312 ft. in. wall solid section to 15 ft. below ground  
12 in. I.D. x 312 ft. in. wall perforated section to 15 ft. below ground

---

**Annulus:**

- Grouted from to ft. below ground to ft. below ground  
- Gravel packed from to ft. below ground to ft. below ground

---

**Initial Water Level :** ft. below ground. Date and time of measurement

---

**Initial Chloride :** ppm. Date and time of sampling

---

**Initial Temperature :** °F. Date and time of sampling

---

**Date of Pump Installation :**

---

**Pump Installation:**

<table>
<thead>
<tr>
<th>Pump Type, Make, Serial No.</th>
<th>Capacity (gpm)</th>
<th>Motor type, H.P., Voltage, rpm</th>
<th>Depth of Pump Intake Setting (ft. below ground), which elevation is (ft.)</th>
<th>Depth of bottom of airlift (ft. below ground), which elevation is (ft.)</th>
<th>Pumping Head (ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

---

**Pumping Tests:**

- Reference Point (R.P.) used: which elevation is (ft.)

<table>
<thead>
<tr>
<th>Date</th>
<th>Start water level (ft. below R.P.)</th>
<th>Start water level (ft. below R.P.)</th>
<th>End water level (ft. below R.P.)</th>
<th>End water level (ft. below R.P.)</th>
<th>Depth of well (ft. below R.P.)</th>
<th>Depth of well (ft. below R.P.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

---

**Remarks:**  
**THIS WELL COULD BE BAILED DRY. INFORMATION ONLY SEEPED WATER. HOLE WAS**

---

**For Driller's Use:**

**Signature:** Roscoe Moss Haupijin  
**Date:** 6/19/94

---

**For Official Use:**

**Well No.:**

**WELL COMPILATION REPORT**

---

**For Official Use:**

**Job Name:**

**Job #:**

---

**State of Hawaii**  
**COMMISSION ON WATER RESOURCE MANAGEMENT**  
**Department of Land and Natural Resources**
MEMORANDUM

TO: MR. HARVEY HIDA
HIDA, OKAMOTO & ASSOCIATES

FROM: ED YEH
<ctrlpoint@aloha.net>

DATE: 1/13/98
COMPANY: HIDA, OKAMOTO AND ASSOCIATES

PROJECT: LUALUALEI WELLS

SUBJECT: WELL ELEVATION AND LOCATION

<table>
<thead>
<tr>
<th>WELL #</th>
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<th>TOP ELEV.</th>
<th>D</th>
</tr>
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<tbody>
<tr>
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</table>

NOTES:
1. COORDINATES REFERRED TO "PAHESHEE NEW"

2. BENCH MARK & COORDINATES REFERRED TO MON #5 ELEV=122.43 (INFORMATION OBTAINED FROM US NAVAL AMMUNITION DEPOT LUALUALEI BRANCH - PERMANENT MARKERS FOR HORIZONTAL & VERTICAL CONTROL DRAWING NO. 841754)
NOTES:

1. COORDINATES REFERRED TO "PAHRESHE NEW "

2. BENCH MARK & COORDINATES REFERRED TO MON. #6 ELEV.-128.43 (INFORMATION OBTAINED FROM US NAVAL AMMUNITION DEPOT EDDY ISLAND BRANCH - PERMANENT MARKERS FOR HORIZONTAL & VERTICAL CONTROL DRAWING NO. 841754)

Last page - no map
Mr. Tracy Runnels  
Roscoe Moss Hawaii, Inc.  
91-259A Olai Street  
Kapolei, HI 96707  

Dear Mr. Runnels:

Well Abandonment/Sealing  
Well Nos. 2408-08 & 2508-10 & 11  

This is in response to your letter of March 7, 1998, outlining your field observations and proposing methods for sealing the subject wells.

Based on the field conditions and hydrology at these well sites, your proposed methods for sealing are approved. Please complete and return the attached applications for abandonment/sealing.

We sincerely appreciate your continued cooperation and assistance in these matters and your attention to the provisions of the Hawaii Well Construction and Pump Installation Standards (January 1997).

If you have any questions, please contact Lenore Nakama at [redacted].

Sincerely,

[Signature]

EDWIN T. SAKODA  
Acting Deputy Director
March 7, 1998

State of Hawaii
DLNR
Commission on Water Resource Management
P.O. Box 621
Honolulu, HI 96809

ATTN: LENORE NAKAMA

RE: State wells # 2408-08 & 2508-10 & 11 abandonment

Dear Lenore,

Thank you for your fax of March 5, 1998 regarding the Kabushiki Kaisha Oban wells located outside Lualualei. I have been asked to abandon or seal wells 2408-08 & 2508-10 & 11 by Mr. Harvey K. Hida who represents the well's owner.

In an effort to bid on these abandonments, I hiked to and located well #2408-08 & 2508-10 and observed the following:

Well # 2408-08: This well was drilled by Roscoe Moss Co. Harold Fenton under my supervision in 1989 drilled this 12" diameter hole to a depth of 220 ft. Static water level was 133 ft. below ground and grab samples showed the water too salty for the client's needs (1600 ppm chlorides). A 12" diameter conductor pipe was capped and left in the well when we demobilized.

Last week I observed the well collapsed with 12 inch conductor pipe once in well laying beside a rocky sink hole where the well once was. It appears to be the result of a bulldozer building an emergency fire road, uprooting the 12" pipe. Collapse and silting from rain have filled the well to about 50 ft. from ground.

I would propose bulldozing an access for vehicular access, then pumping 2500 psi concrete into the well
until it reaches ground level. Boulders block the well from any verification of its depth. (I could drop a rock down the well and hear it hit ground with no splash.) Water quality was poor, access will be costly and cementing would assure an unsafe collapse potential.

Well # 2508-10: This well was observed to be intact at ground level and water could be seen in the well. When Roscoe Moss drilled the well in 1994 to 102', the well was capped and left due to poor yield in the muddy layers of the hole (no coral).

Access needs bulldozing and pumping 2500 psi concrete down the well until it reaches ground level would be costly, but sufficient to seal this well. Water level and depths can be verified in this well and represents no true water source.

Well # 2508-11: This well was not drilled by Roscoe Moss Co., and hasn't been observed by myself. Access needs bulldozing and as with the previous subject wells in this letter, I would recommend grading access, documenting wells, backing a concrete truck up to them and dumping 2500 psi cement until filled to ground level.

Please consider accessing these wells and filling them with a concrete truck. I can see no ground water impact in these poor yielding wells if they are filled this way. My foregoing abandonment outlines being of considerable expense to the owner already.

As always, I appreciate your time and help.

Sincerely,

[Signature]

Tracy Runnells
Drilling Operations
Mr. Harvey K. Hida  
Kabushiki Kaisha Oban  
1440 Kapiolani Blvd., Suite 915  
Honolulu, HI  96814

Dear Mr. Hida:

Thank you for attending a meeting on February 11, 1998 with Susan Swanson, Mitchell Ohye, and Lenore Nakama of my staff and Tracy Runnels of Roscoe Moss Hawaii, Inc. to resolve discrepancies between the field investigation and well completion information for Well Nos. 2408-08 & 09 and Well Nos. 2508-10 to 13:

- **Well No. 2408-08**  
  We received a Preliminary Engineering Report on Well No. 2408-08 on October 7, 1993 and will accept this as fulfillment of Condition 3 of your well construction permit. We understand this well was unsuccessful and has been abandoned. **Please complete and return the attached well construction permit application to abandon/seal this well within ninety (90) days.**

- **Well No. 2408-09**  
  We received a well completion report on October 25, 1989. However, because the benchmarks on the casing and ground surface (which were used to reference the pump test data) have been destroyed, we are requiring another elevation survey (referenced to mean sea level) by a licensed surveyor; **please submit an elevation survey within sixty (60) days.** We understand this well was successful and is properly capped. If you wish to use this well in the future, please complete and return the attached application for a pump installation permit.

- **Well Nos. 2508-10 & 11**  
  We will accept the Well Completion Reports - Part I for these wells, as amended based on our meeting discussion (attached). We understand these well were unsuccessful and have been abandoned. **Please complete and return the attached well construction permit applications to abandon/seal these wells within ninety (90) days.**
Mr. Harvey K. Hida
Page 2

- **Well No. 2508-12**
  We will accept the Well Completion Report - Part I for this well, as amended based on our meeting discussion (attached). We understand this well was successful and is properly capped. If you wish to use this well in the future, please complete and return the attached application for a pump installation permit.

- **Well No. 2508-13**
  We understand this well was never drilled under the well construction permit which has expired. A new permit is necessary to drill this well.

  We have also attached a location map showing the correct location of the wells.

  Please be advised that failure to comply with the terms of your permit or any provision of the State Water Code (including the provisions for well abandonment/sealing) may be subject to fines of up to $1000 per day.

If you have any questions, please contact Lenore Nakama at [redacted]

Sincerely,

[Signature]

EDWIN T. SAKODA
Acting Deputy Director

LN:ss
Enclosures
Ms. Rae M. Loui, Deputy Director  
State of Hawaii  
Department of Land and Natural Resources  
Commission on Water Resource Management  
Post Office Box 621  
Honolulu, Hawaii 96809

Attention: Ms. Lenore Nakama,

SUBJECT: Well Nos 2508-10 to 13  
Lualualei, Waianae, Oahu  
HO&A Job No. 97-1285

Pursuant to your November 25, 1997 letter, on behalf of Kabushiki Kaisha Oban, we are transmitting the following items for the subject wells:

a. Well Completion Report (Well Nos. 2508-10 to 13)  
b. Elevation surveyed by licensed surveyor. (Well Nos. 2508-10, 11 & 12)  
c. As-built sectional drawing (Well Nos. 2508-10 & 12)  
d. Plot plan (Well Nos. 2508-10, 11 & 12)  
e. Complete pumping test record (Well Nos. 2508-10 & 12)

On December 23, 1997 Susan Swanson of your staff, surveyor and myself visited the site to locate the existing wells, however, we were unable to locate Well No. 2508-13. Thus no elevation nor exact location information is provided.

Well No. 2508-11 was dry and no pumping test was conducted.

If you have any questions, please feel free to call me at [redacted]

Very truly yours,

HIDA, OKAMOTO & ASSOCIATES, INC.

Harvey K. Hida, P.E.  
President

Enclosures

cc: Kabushiki Kaisha Oban - Mr. Sanjiro Nakade

97-1285.DLNRI

The Commerce Tower • 1440 Kapiolani Blvd. • Suite 915 • Honolulu, Hawaii 96814  
Phone [redacted] • Fax [redacted]
WELL COMPLETION REPORT

(Accomplished Box) ⊗ Well Construction   □ (Permanent) Pump Installation

Instructions: Please print or type and submit completed report within 30 days after well completion to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. An as-built drawing of the well and chemical analysis should also be submitted. For assistance call the Commission Regulation Branch at 725-5050 or Extension 70225.

1. State Well No.: 2508-12  Well Name: Lualualei Golf Course  Island: Oahu
2. Location/Address: Lualualei, Waianae, Oahu  Tax Map Key: 8-7-9: Por. 02

PART I. WELL CONSTRUCTION REPORT

3. Drilling Company: Roscoe Moss Hawaii, Inc.
4. Name of driller who performed work: Hal Fenton
5. Type of rig/construction: Cable Tool 60L
6. Date(s) Well Construction and pump tests (if any) completed: 3-11-94
7. GROUND ELEVATION (referenced to mean sea level, msl): 129.43 ft.  Elev. (msl): 129.43 ft.
   Well Bench Mark (description/location): Mon. 6
8. DRILLER'S LOG: Please attach geologic log (if available or if required by permit)  Attached
   Depths (ft.) Rock Description, Water Level, Dates, etc.   Depths (ft.) Rock Description, Water Level, Dates, etc.
      ___ to ___      ___ to ___      ___ to ___ (If more space is needed, continue on back.)
9. Total depth of well below ground: 96 ft.
10. Hole size: 14 inch dia. from 0 ft. to 96 ft. below ground
     7.62 in. I.D. x 0.5 in. wall solid section to 76 ft. below ground
     7.62 in. I.D. x 0.5 in. wall perforated section to 96 ft. below ground
11. Casing installed: 7.62 in. I.D. x 0.5 in. wall solid section to 76 ft. below ground
    Casing Material/Slot Size: PVC/38.40 sq.in./ft.
12. Annulus: Grouted from 0 ft. below ground to 70 ft. below ground
    Gravel packed from 70 ft. below ground to 96 ft. below ground
13. Initial water level: 74 ft. below ground  Date and time of measurement: 2-26-94
14. Initial chloride: 450 ppm  Date and time of sampling: 3-07-94
15. Initial temperature: 27°C  Date and time of measurement: 
16. PUMPING TESTS: Reference Point (R.P.) used: , which elevation is ft.
   (1) Step-Drawdown Test Date __________ (2) Long-term Aquifer Test Date __________
      Start water level __________ ft. below R.P.  Start water level __________ ft. below R.P.
      End water level __________ ft. below R.P.  End water level __________ ft. below R.P.
17. Aquifer Pump Test Procedures data & graphs (1/96 LTAT Form) attached?  Yes  No
18. As-built drawings attached?  Yes  No
19. Other remarks/comments: (On back of this form)

Well Drilling Contractor (print) Roscoe Moss Hawaii, Inc. C-57 Lic. No. C-16437
Signature ___________________________ Date __________________

Surveyor (print) Controlpoint Surveying, Inc.  Lic. No. 6605-LS
Signature ___________________________ Date __________________

Applicant (print) Sanjuro Nakade  Date 6/20/98
Signature ___________________________
MEMORANDUM

TO: MR. HARVEY HIDA
HIDA, OKAMOTO & ASSOCIATES

DATE: 1/13/98
FAX: 

COMPANY: HIDA, OKAMOTO & ASSOCIATES
FAX: 

FROM: ED YEH
<ctrlpnt@oahu.net>

TELEPHONE: 545-2945
EXT. 
FAX: 

PROJECT: LUALUAILEI WELLS

SUBJECT: WELL ELEVATION AND LOCATION

<table>
<thead>
<tr>
<th>WELL #</th>
<th>COORDINATES</th>
<th>TOP ELEV.</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
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<td>10941.62</td>
<td>79.99 N/A</td>
</tr>
</tbody>
</table>

(7508-12)

NOTES:
1. COORDINATES REFERRED TO "PAHKEHEE NEW"

2. BENCH MARK & COORDINATES REFERRED TO MON #6 ELEV. = 129.43 (INFORMATION OBTAINED FROM US NAVAL AMMUNITION DEPOT LUALUAILEI BRANCH - PERMANENT MARKERS FOR HORIZONTAL & VERTICAL CONTROL DRAWING NO. 641754)
WELL COMPLETION REPORT

1. STATE WELL NO. 2508-10  
   WELL NAME LULUALI高尔夫  
   LOCATION: Address END OF LULUALI NAVY ACCESS ROAD Tax Map Key 3-7-97-PUR 2
2. DRILLING OR PUMP INSTALLATION CONTRACTOR ROSCOE MOSS HAWAII, INC.
3. CONTRACTOR'S C-57 LICENSE NUMBER C-16437
4. NAME OF DRILLER WHO PERFORMED WORK HALL FENTON
5. TYPE OF RIG/CONSTRUCTION CABLE TOOL 50L
6. DATE OF WELL DRILLING COMPLETION 3-11-94

G. GROUND ELEVATION (ma)___________ ft.
   Top of Drilling Platform (ma)___________ ft.
   Height of Drilling Platform above Ground surface___________ ft.
   Bench Mark and Method Used to Determine Ground Elevation GROUND AS REF ft.

9. DRILLER'S LOG:
   Water Level
   Depth (ft.)  Rock Description, Remarks, Dates (ft.)  Water Level
   __________  ____________________________________________________________________ __________
   0 to 23  MUD & RIVER ROCK ____________________________________________________________________
   23 to 50  MUD & RIVER ROCK ____________________________________________________________________
   50 to 60  MUD ____________________________________________________________________
   60 to 85  MUD ____________________________________________________________________
   85 to 96  MUD ____________________________________________________________________
   __________  ____________________________________________________________________ __________

10. TOTAL DEPTH OF WELL BELOW GROUND 96 ft.
11. HOLE SIZE: 14 inch dia. from 0 ft. to 96 ft. below ground

12. CASING INSTALLED:
   PVC 7.62 in. I.D. x 1/2 in. wall solid section to 75 ft. below ground
   PVC 7.62 in. I.D. x 0 in. wall perforated section from 75 ft. below ground
   Type of Perforation SAW CUT P.V.C.

13. ANNULUS:
   Grouted from 0 ft. below ground to 70 ft. below ground
   Gravel packed from 70 ft. below ground to 96 ft. below ground

14. INITIAL WATER LEVEL 74 ft. below ground. Date and time of measurement 2-26-94
15. INITIAL CHLORIDE __________ ppm Date and time of sampling ________
16. INITIAL TEMPERATURE __________ C Date and time of sampling ________
17. DATE OF PUMP INSTALLATION ________
18. PUMP INSTALLATION:
   Pump Type, Make, Serial No. ____________________________________________________________________
   Capacity __________ gpm
   Motor type, H.P., Voltage, rpm ____________________________________________________________________
   Depth of Pump Intake Setting __________ ft. below __________ which elevation is __________ ft.
   Depth of bottom of airline __________ ft. below __________ which elevation is __________ ft.
   Pumping Head is __________ ft.
19. PUMPING TESTS:
   Reference Point (R.P.) used: __________ which elevation is __________ ft.

Date 3-07-94
Start water level __________ ft. below R.P.  
End water level __________ ft. below R.P.  
Depth of well __________ ft. below R.P.

Elapsed Time (hours)  Rate Drawn Flow Time (hours)  Depth of well
__________________________  __________  __________  __________  __________
__________________________  __________  __________  __________  __________
__________________________  __________  __________  __________  __________
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__________________________  __________  __________  __________  __________

 reminders:

(If more space is needed, continue on back.)

Contractor (print) ROSCOE MOSS HAWAII, INC
Title FIELD SUPERINTENDENT
Signature __________ Date 3/11/94

For Driller's Use: __________
Job Name __________
Job No. __________

For Official Use: __________
Well No. __________
Latitude __________
Longitude __________
PROPOSED SECTION OF WELL

Ground Elev. Approx 74 ft., mal.

Elevation at top of casing
Approx 76 ft., mal.

Cement Grout 70 ft.

Hole Dia. 14 in.

Total Depth 96 ft.

Rock Packing 26 ft.

Solid Casing:
Material PVC
Length 76 ft.
Diameter 7.62 in.
Wall thickness .5 in.

Casing: /Perforated Screen
Material PVC
Length 20 ft.
Diameter 7.62 E.D. in.
Wall thickness .5 in.
Openings 38.40 sq. in./L.F.

Open Hole:
Length NA
Diameter ---------------- in.
### Description of Well:
1. Elevation: ground surface ft., top of casing ft., rotary table ft., referenced to benchmark.
2. Total depth of well ft.; or ft. elevation, mal
3. Ft. in. solid casing to ft. depth, perforated to ft. depth
4. Static water level on ft. below ground surface, top of casing; or ft. elevation mal
5. Measured method

### Description of Pump and Pump Setting:
6. Type pump with stage bowl assembly
7. Gasoline (diesel) electric, power with hp
8. Shaft speed rpm at gpm flow
9. Depth of pump intake: ft. below Base; or ft. elev. mal
10. Depth of airline bottom: ft. below Base; or ft. elev. mal
11. Center of gage: ft. elev., mal. Flow measured with flow meter

### Data Pumping & Sample rate

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<thead>
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<th>Date &amp; Time</th>
<th>Sample No.</th>
<th>Pumping rate (gpm)</th>
<th>Airline PSI (feet)</th>
<th>Drawdown (feet)</th>
<th>Chlorides (ppm)</th>
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<th>Chlorides (ppm)</th>
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End test - Crew goes right away to 445
WELL COMPLETION REPORT

(Check Appropriate Box) □ Well Construction □ (Permanent) Pump Installation

Instructions: Please print or type and submit completed report within 30 days after well completion to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. An as-built drawing of the well and chemical analysis should also be submitted. For assistance call the Commission Regulation Branch at  or Extension 70225.

1. State Well No.: - 2508-11
2. Well Name: Lualualei Golf Course
3. Island: Oahu
4. Location/Address: Lualualei, Waianae
5. Tax Map Key: 8-7-9-Port. 2

APPENDIX

PART I. WELL CONSTRUCTION REPORT

3. Drilling Company: PR Drilling Company
4. Name of driller who performed work: Ken Tower
5. Type of rig/construction: Top Drive Rotary B-80 & TH-10
6. Date(s) Well Construction and pump tests (if any) completed: 6-18-96
7. GROUND ELEVATION (referenced to mean sea level, msl): 93.72 ft.
   Well Bench Mark (description/location): Mon. #6
   Elevation(msl): 129.43 ft.
8. DRILLER'S LOG: Please attach geologic log (if available or if required by permit) Attached
   Depths (ft.) Rock Description, Water Level, Dates, etc.
   Depths (ft.) Rock Description, Water Level, Dates, etc.
   (If more space is needed, continue on back)
9. Total depth of well below ground: - 100 ft.
10. Hole size: 12 inch dia. from ft. to ft. below ground
     0.25 in. wall solid section to 79 ft. below ground
     0.25 in. wall perforated section to 99 ft. below ground
11. Casing installed: 8 in. I.D. x 0.25 in. wall solid section to 79 ft. below ground
    8 in. I.D. x 0.25 in. wall perforated section to 99 ft. below ground
    Casing Material/Slot Size: PVC/0.020 sq. in/ft slot
12. Annulus: Grouted from 0 ft. below ground to 85 ft. below ground
     Gravel packed from 85 ft. below ground to 99 ft. below ground
13. Initial water level: 70 ft. below ground.
14. Initial chloride: - ppm
15. Initial temperature: - °F
16. PUMPING TESTS: Reference Point (R.P.) used: Ground
    Date and time of measurement: 02-12-96
    Date and time of sampling:
    (1) Step-Drawdown Test Date 02-15-96
    Start water level 70 ft. below R.P.
    End water level 70 ft. below R.P.
    (2) Long-term Aquifer Test Date
    Start water level ft. below R.P.
    End water level ft. below R.P.
17. Aquifer Pump Test Procedures data & graphs (1/9/96 LTAT Form) attached? X Yes _ No
18. As-built drawings attached attached? X Yes _ No
19. Other remarks/comments: (On back of this form)

Well Drilling Contractor (print) PR Drilling Company C-57 Lic. No. C-9627
Signature

Surveyor (print) Controlpoint Surveying, Inc Lic. No. 6605-LS
Signature

Applicant (print) Sanjirō Nakade
Signature

Date 4/26/96
## WELL COMPLETION REPORT

**State of Hawaii**

**COMMISSION ON WATER RESOURCE MANAGEMENT**

**Department of Land and Natural Resources**

**WELL NAME:** Lualualei Geysers 2 ISLAND OAHU

### Instructions

- Please print or type and submit completed report within 30 days after well completion to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96816. An as-built drawing of the well and chemical analysis should also be submitted. For assistance call the Commission Regulation Branch at 587-0225.

---

1. **STATE WELL NO.**

2. **WELL NAME:** Lualualei Geysers 2 ISLAND OAHU

3. **LOCATION:** Address: End of Lualualei Access Road

4. **CONTRACTORS:** C-67 LICENSE NUMBER: C-163-7

5. **NAME OF DRILLER WHO PERFORMED WORK:** KEVIN TOWERS

6. **TYPE OF RIG/CONSTRUCTION:** TOPO DRIVE RAILROAD 8-80 FT. 7H-10

7. **DATE OF WELL DRILLING COMPLETION:** 8-13-96

8. **GROUND ELEVATION (msl):**

9. **DRILLER’S LOG:**

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<tr>
<th>Depth (ft)</th>
<th>Rock Description, Remarks, Dates</th>
<th>Water Level (ft)</th>
<th>Rock Description, Remarks, Dates</th>
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<td>MUD/COAL</td>
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<td>FIRM CORAL MATERIAL</td>
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10. **TOTAL DEPTH OF WELL BELOW GROUND:** 100 ft.

11. **HOLE SIZE:**

   - 12 in. dia. from 0 ft. to 100 ft. below ground
   - 8 in. dia. from 100 ft. to __ ft. below ground
   - 6 in. dia. from __ ft. to __ ft. below ground

12. **CASING INSTALLED:**

   - 8 in. I.D. x .250 in. wall solid section to 79 ft. below ground
   - 8 in. I.D. x .250 in. wall perforated section to 99 ft. below ground

   Type of Perforation: SLOTTED 0.025"

13. **ANNULUS:**

   - Grouted from 65 ft. below ground to 0 ft. below ground
   - Gravel packed from 100 ft. below ground to 65 ft. below ground

14. **INITIAL WATER LEVEL:**

   - 70 ft. below ground. Date and time of measurement: 2-12-96

15. **INITIAL CHLORIDE NOT TESTED BY PPD ppm**

16. **INITIAL TEMPERATURE NOT TESTED BY PPD °F**

17. **DATE OF PUMP INSTALLATION:**

18. **PUMP INSTALLATION:**

   - Pump Type, Make, Serial No. Capacity _ gp
   - Motor type, H.P., Voltage, rpm
   - Depth of Pump Intake Setting ft. below __, which elevation is __
   - Depth of bottom of intake ft. below __, which elevation is __
   - Pumping Head is __ ft.

19. **PUMPING TESTS:**

   - Reference Point (R.P.) used: GROUND, which elevation is 0

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<td>70 ft. below R.P.</td>
<td>100 ft. below R.P.</td>
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   - Elapsed Time (hours) Drawn Down (ft.) 0 Temp. C. Time |
| 0     | 0.00 ppm          | 65 ft. below R.P. | 0 ppm          | 0 C.        |

   (If more space is needed, continue on back.)

### Remarks

- 13. ANNULUS: GROUT DATA INCLUDES BONDSTONE SEAL

---

**Contractor (print):** PR DRILLING COMPANY

**Signature:**

**Date:** 6-18-96

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**For Owner's Use:**

- Job Name: NAKADE
- Job No: 2591

---

**For Official Use:**

- Well No:
- Longitude:
- Latitude:
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FORWARDED FROM 545-5543
We'll have to decide how to handle if wells need to be sealed.

1. Fine & Order - They may refuse to pay so do according to lesson.
2. We seal and place them in accordance of § 176 C. 40 (a) or (d).
   or [ ] may test allow
   (Future) 3. Have permits handed to take care of the events.
Mr. Harvey K. Hida  
Kabushiki Kaisha Oban  
1440 Kapiolani Blvd., Suite 915  
Honolulu, HI 96814

Dear Mr. Hida:

Notice of Violation of Well Construction Permit  
Well 1 (Well No. 2508-10)  
Notice of Expiration of Well Construction Permit  
Wells 2 to 4 (Well Nos. 2508-11 to 13)  
Lualualei, Oahu

This is to correct a typographical error in a previous notice of violation dated October 17, 1997, which incorrectly identified the location of Well Nos. 2508-10 to 13 in Kapaa, Kauai; the location of the subject wells is Lualualei, Oahu, as shown above.

Our records show that a well construction permit was issued for the subject wells on October 25, 1993 (attached). This permit expired on October 25, 1995.

Pursuant to Condition 5 of the permit, we received a well completion report and pump test results for Well 1 (Well No. 2508-10); however, we are not in receipt of a final location map and surveyed elevation information that is also required under Condition 5. As this information should have been submitted within thirty (30) days after completion of the work, we request that you submit these documents within thirty (30) days from the date of this certified letter. If we do not receive these items within the specified time period, we will recommend that the Commission on Water Resource Management (Commission) find you in violation of your permit and assess fines, potentially up to $1000 per day, at their next regular meeting on Oahu, following the expiration of the thirty-day response period.

Because we did not receive any of the information required under Condition 5 for Wells 2 to 4 (Well Nos. 2508-11 to 13), we assume that these wells were never constructed under this permit, which has expired. Be advised that a new application for a well construction permit must be made and approved by the Commission prior to any future well construction work.
In the event that Wells 2 to 4 were constructed under the permit, please submit the following items that are required under Standard Condition 5 within thirty (30) days from the date of this letter:

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 well's exact location.
e. Complete pumping test records; including time, pumping rate, drawdown, chloride content, and water quality data.

Be advised that failure to comply with the terms of your permit may result in fines of up to $1000/day.

Lastly, on July 9, 1996, a partial well completion report was submitted by PR Drilling Company for a Well 5. We have no record of any well construction permit for a Well 5. Should there be any outstanding violations with respect to the approved well construction permit (for Wells 1 to 4) or illegal well construction (Well 5), the Commission will not accept any new applications for any permits issued by the Commission until all the violations have been resolved.

If you have any questions, please contact Lenore Nakama at [blank].

Sincerely,

[Signature]

RAE M. LOUI
Deputy Director

LN:ss
Enclosures
CERTIFIED MAIL
RETURN-RECEIPT REQUESTED

Mr. Harvey K. Hida
Kabushiki Kaisha Oban
1440 Kapiolani Blvd., Suite 915
Honolulu, HI 96814

Dear Mr. Hida:

Notice of Violation of Well Construction Permit
Well 1 (Well No. 2508-10)
Notice of Expiration of Well Construction Permit
Wells 2 to 4 (Well Nos. 2508-11 to 13)

Our records show that a well construction permit was issued for the subject wells on October 25, 1993 (attached). This permit expired on October 25, 1995.

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Because we did not receive any of the information required under Condition 5 for Wells 2 to 4 (Well Nos. 2508-11 to 13), we assume that these wells were never constructed under this permit, which has expired. Be advised that a new application for a well construction permit must be made and approved by the Commission prior to any future well construction work.

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Mr. Harvey K. Hida
Page 2
OCT 17 1997

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 well’s exact location.
e. Complete pumping test records; including time, pumping rate, drawdown, chloride content, and water quality data.

Be advised that failure to comply with the terms of your permit may result in fines of up to $1000/day.

Lastly, on July 9, 1996, a partial well completion report was submitted by PR Drilling Company for a Well 5. We have no record of any well construction permit for a Well 5. Should there be any outstanding violations with respect to the approved well construction permit (for Wells 1 to 4) or illegal well construction (Well 5), the Commission will not accept any applications for the required pump installation permits for the wells until all the violations have been resolved.

If you have any questions, please contact Lenore Nakama at [redacted]

Sincerely,

[Signature]
RAE M. LOUI
Deputy Director

LN:ss
Enclosure
Harvey Taida called 80 Jan concerning Lualualei GC wells. They felt our letter sounded prohibitory and want a chance to see if wells could be pumped safely (they're waiting on us & CEC for approvals).
Glen agrees that both wells are sensitive for raised chlorides; Chester Lao @ BWS says their 2508.01, 02 shafts are also sensitive, in current disposal, and

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Charley, please check the draft. Both wells are sensitive to increases in CH4 over time at low pumping rates. In fact the pumping rate: 2.0-3.0 cfs between C and D wells is 200-300 ppm between the two tanks. Any fast pumping of these two tanks causes detrimental effects to nearby cells in the vicinity. Initial flushing cells in the vicinity indicates that the cell will probably have a negative impact on final pump pump 8/94
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Please review & comment

Back to Ed I
Charley after
your review.

Clean, Please review, need to indicate that additional wells will need to be evaluated, one case by case basis, then proposed locations are

Depending on location proposed withdrawal & interference will be submitted.

Is this only well or one other legal use? In this only well on pump and so there need 1084.
Mr. Harvey K. Hida, President
Hida, Okamoto, & Associates
1440 Kapiolani Blvd., Suite 915
Honolulu, Hawaii 96814

Dear Mr. Hida:

Lualualei Golf Course Wells 1-4
(Well Nos. 2508-10 to 13)

Thank you for your letter of August 9, 1996, requesting a meeting concerning the acceptability of withdrawing 0.5 mgd total from your wells. We believe that such a meeting would be helpful to clarify the issues.

Before scheduling this meeting, we request additional information concerning the captioned wells. The reporting we have received is very incomplete.

The Commission on Water Resource Management (Commission) has issued well construction permits for the four captioned wells, but have received a well completion report for only one, Well No. 2508-10. The permits expired in October 1995. On July 9, 1996, we received an incomplete report on a well called "Well #5" with no location surveyed and no regular well number; its brief physical description is the same as for 2508-10, but the driller's log indicates a deeper well through different rock strata.

Our discussions to date concerning withdrawals of 0.5 mgd involved Lualualei Golf Course Well #1 (Well No. 2508-10) and Maili Irrigation Well #1 (Well No. 2408-08). The Commission permitted Maili Irrigation Wells #1 & 2 (Well Nos. 2408-08 & 09). A pump test for Maili Irrigation Well #2 (Well No. 2408-08) was submitted without surveyed elevation, as-built drawings, or location plot plan, as required in the permit. A driller's log was submitted for Maili Irrigation Well #2 (Well No. 2408-09) with a letter from a consultant indicating the well was neither cased nor tested.

No pump installation permits can be issued until all information is properly submitted. Please submit required information for Maili Irrigation Well #1 (Well No. 2408-08), and also identify "Well #5," with map and well number. If it is a permitted well, pump testing must be completed before proceeding. Please be aware that statutes provide that failure to comply with permit conditions may result in fines of up to $1000 per day.

Please provide a written response to this letter by September 15, 1996. Upon receipt of the required information, we will be glad to meet with you concerning your proposal.

If you have any questions, please call Charley Ice at [phone number removed]

Sincerely,

[Signature]
Deputy Director

Class
August 12, 1996

VIA US MAIL

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

RE: NAKADE PROJECT - JOB NO.: 2591
WELL INSTALLATION
LUALUALIE, OAHU, HAWAII

Dear Ms. Loui:

In response to your letter dated July 17, 1996, please be advised that PR Drilling does not have accurate information regarding Well Construction Permits for Wells 2-4 (Well Nos. 2508-11 to 13), nor a location map and surveyed elevation information for Well 1 (Well No. 2508-10) on the above-referenced project.

As I explained in our last letter, it is very difficult for PR Drilling to obtain any information from the owner or his representatives as they still owe money to PR Drilling. They have continued to be non-responsive to our demands for payment. Perhaps they will be more responsive to your office if you force abandonment of all wells located on their real property.

Should you have any questions or like to discuss this matter further, please feel free to contact the undersigned at [redacted].

Very truly yours,

PR DRILLING COMPANY

Richard F. Thies
President
August 9, 1996

Ms. Rae Loui, Deputy Director
Commission of Water Resource Management
Post Office Box 621
Honolulu, HI 96809

Attention: Mr. Charley Ice

Gentlemen:

SUBJECT: Lualualei Golf Course Wells
(Well Nos. 2408-08 & 2508-10)
Tax Map Key: 8-7-19: Por 1 & 8-7-10: 6 & 10

In response to the concerns expressed by two nearby well owners, we are requesting a meeting with your staff to discuss the impact proposed wells may have on nearby wells, and receive advice concerning the acceptability of withdrawing 0.5 mgd total from proposed wells. Will you notify us regarding the meeting date and time?

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

Very truly yours,

HIDA, OKAMOTO & ASSOCIATES, INC.

Harvey K. Hida, P.E.

92-223CZ94
Mr. Richard Thies
PR Drilling Company
235 Kellog Street
Wahiawa, Hawaii 96786

Dear Mr. Thies:

Well Completion Report
"Lualualei Golf Course Well #5"

Thank you for submitting the captioned report. Like you, we are having difficulty identifying this well, as there is no permit for a well by this name.

For your information, all our permits require a fully completed well completion report. Items missing from the form you submitted include:

1. An as-built drawing of the well,
2. A map locating the well with surveyed latitude and longitude,
3. Ground elevation and top of casing surveyed by a licensed surveyor, and

The well owner is responsible for these items, and we cannot proceed to future permits without complete information. For your future use, we have attached the Commission's most recent Well Completion Report form.

Well Construction Permits for Wells 2-4 (Well Nos. 2508-11 to 13) were issued on 10/25/93 and expired 10/25/95. In addition, Well 1 (Well No. 2508-10) is missing a final location map and surveyed elevation information. Please clarify if you have information on the status of these wells.

We appreciate your efforts in responding to this letter by August 15, 1996. If you have any questions, please call Charley Ice at [redacted]

Sincerely,

RAE M. LOUI
Deputy Director
COMMISSION ON WATER RESOURCE MANAGEMENT

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DATE: 10/94

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REGULATION BRANCH: _______________

PLANNING BRANCH: _______________

FIELD SERVICES & TECHNICAL SUPPORT: _______________

INFORMATION PLEASE:

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"W.R. for some wells not on the .dbf. Also, seems to be a mix-up on the well #5 can you correct and update the .dbf. Thanks, EJ"
July 5, 1996

VIA CERT. MAIL: P321354772

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

RE: NAKADE PROJECT - JOB NO.: 21
WELL INSTALLATION
LUALALIE, OAHU, HAWAII

Gentlemen:

Please find enclosed a Well C installation project which was performed by PR Drilling. PR Drilling was supervised by Mr. Kava for this number, as we have not been able to contact the prime contractor who assured us that they would obtain the necessary permits. PR Drilling has made an attempt to contact the landowner directly to rectify these issues. However, we have not been successful as he apparently lives in Japan. Due to the time constraints associated with the Well Completion Report, we feel it is important to file this report at this time.

Should you have any questions, or require any additional information, please feel free to contact the undersigned at [phone number].

Very truly yours,

PR DRILLING COMPANY

Richard F. Thies
President

encl.
1. STATE WELL NO. 2508-11  WELL NAME LUALALEI GOLF NEW ISLAND OAHU
2. LOCATION: Address END OF LUALALEI ACCESS ROAD C Tax Map Key B-7-92-P0RZ
3. DRILLING OR PUMP INSTALLATION CONTRACTOR: PR DRILLING COMPANY
4. CONTRACTOR'S LICENSE NUMBER: C-962-7
5. NAME OF DRILLER WHO PERFORMED WORK: KEN TOWERS
6. TYPE OF RIG/CONSTRUCTION: TOP DRILL RIG/CONSTRUCTION B-806 TN-10
7. DATE OF WELL DRILLING COMPLETION: 6-19-96

8. GROUND ELEVATION (msl) ______________ ft.  
Top of Drilling Platform ____________________ ft.  
Height of Drilling Platform above Ground surface _________ ft.  
Bench Mark and Method Used to Determine Ground Elevation GROUND AS RGF. ft.

9. DRILLER'S LOG:

<table>
<thead>
<tr>
<th>Depth (ft.)</th>
<th>Rock Description, Remarks, Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 5</td>
<td>CAY OVERBURDEN</td>
</tr>
<tr>
<td>5 to 50</td>
<td>MUDDY CORAL</td>
</tr>
<tr>
<td>50 to 60</td>
<td>BROKEN/FLAT CORAL (no bedrock)</td>
</tr>
<tr>
<td>60 to 100</td>
<td>FIRM CORAL MATERIAL</td>
</tr>
</tbody>
</table>


10. TOTAL DEPTH OF WELL BELOW GROUND __________ ft.

11. HOLE SIZE: 12 inch dia. from 0 ft. to 100 ft. below ground

12. CASING INSTALLED:

- 8 in. I.D. x .065 in. wall solid section to 79 ft. below ground
- 8 in. I.D. x .065 in. wall perforated section to 99 ft. below ground

13. ANNULUS: 
- Grouted from 65 ft. below ground to 0 ft. below ground
- Gravel packed from 100 ft. below ground to 65 ft. below ground

14. INITIAL WATER LEVEL: 70.0 ft. below ground. Date and time of measurement 2-12-96

15. INITIAL CHLORIDE: NOT TESTED BY PRD ppm

16. INITIAL TEMPERATURE: NOT TESTED BY PRD °F

17. DATE OF PUMP INSTALLATION: 6-19-96

18. PUMP INSTALLATION:

- Pump Type, Make, Serial No.  
- Capacity 40 GPM  
- Motor type, H.P., Voltage, rpm  
- Depth of Pump Intake Setting _______ ft. below _______ ft. below ground, which elevation is _______ ft. below ground, which elevation is _______ ft. below ground  
- Depth of Pumps intake setting _______ ft. below _______ ft. below ground, which elevation is _______ ft. below ground, which elevation is _______ ft. below ground  
- Pumping Head _______ ft. below ground

19. PUMPING TESTS:

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<th>Date 2-16-96</th>
<th>Reference Point (R.P.) used: Ground, which elevation is 0</th>
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<tbody>
<tr>
<td>Start water level 70 ft. below R.P.</td>
<td>Start water level 70 ft. below R.P.</td>
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<tr>
<td>End water level 70 ft. below R.P.</td>
<td>End water level 70 ft. below R.P.</td>
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<tr>
<td>Depth of well 100 ft. below R.P.</td>
<td>Depth of well 100 ft. below R.P.</td>
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<tr>
<td>Elapsed Time (hours)</td>
<td>Rate Drawn down (ft.)</td>
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<tr>
<td>6:30 AM to 4:30 PM</td>
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<tr>
<td>10</td>
<td>0</td>
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<td>10</td>
<td>0</td>
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</tbody>
</table>

Remarks: 13. ANNULUS: Grout data includes bentonite seal.

Contractor (print) PR DRILLING COMPANY  
Signature  
Title 725  
Date 6-18-96
Elevation at top of casing

--- ft., msl.

Ground Elevation: --- ft., msl.

Cement Grout: To Surface.

Solid Casing:

Material: PVC
Length: 79 ft.
Diameter: 8 in.
Wall thickness: .250 in.

Rock Packing: 85 ft.

Hole Diameter: 12 in.

Total Depth: 100 ft.

Casing: ☐ Perforated ☐ Screen
Material: PVC
Length: 99 ft.
Diameter: 8 in.
Wall thickness: .250 in.
Openings: 0.020 sq. in./LF.

Open Hole:
Length: 1 ft.
Diameter: 12 in.
COMMISSION ON WATER RESOURCE MANAGEMENT

FROM: Ed

DATE: 6/30/95

SUSPENSE DATE: __________

TO: INIT: TO: INIT: PLEASE:

R. LOUI J. UWAIJE F. CHING S. SUBIA K. YODA REGULATION BRANCH

E. SAKODA D. HIGA L. NAKAMA C. ICE

R. JINNAI S. SWANSON

SURVEY BRANCH

E. HIRANO G. BAUER R. HARDY N. FUJII M. OHYE I. KUNIMURA

PLANING BRANCH

S. EDUMDS L. MIZUNO

Charles - a FAX will be coming from PR Drilling (Gene Iwami). Drilling a well for golf course pond & water. Worried about how deep & they could you look up the permit & call him back. Thanks, Ed

Call Glenn B. if need help.
2508-01, 02  Lualualei Shaft (19) field notes from GB

Shaft 2 Lualualei, Honolulu BWS: On the south side of L Valley, about 0.4 mi SE of entrance to the Navy L Anthra Depot and 2.1 mi. NE of Farrington Hwy. The installation consists of a 7 x 8', 34' LF, 50' incline shaft leading to a pump chamber; a 9 x 5', pump sump, and 5' below sea level; and 2 5x6' ventilation tunnels extending away from the pump sump. Tunnel 1, which is 549' LF, trends inland horizontally 60' away from the inclined shaft, at an average altitude of 14'. Tunnel 2, which is 368' LF, continued on the line of the inclined shaft parallel to the coast with an average altitude of 120'. Tunnel 1 was driven to 243' on July 11, 1936, and then stopped until Sep. 3, when Tunnel 2 reached 368'. Then, because very little additional water was being recovered, Tunnel 2 was stopped and Tunnel 1 was driven to 549'. The excavation of 262' in Tunnel 2 between July 11 and Sep. 3, 1936, increased the total yield from 820,000 to 105,000 gpd. Tunnel 1 fell a little on Sep. 6, but the yield did not increase, nor did it increase during the excavation of the remaining 103'. The yield slowly decreased to 340,000 gpd on Oct. 22, 1936, when the pumps were removed. Geological occurrence: the rock in the shaft and tunnels is dense massive palhaloe, and several relatively impervious dike cross-cut in the ridge inland of the shaft. The chloride content was 184 ppm on Nov. 15, 1936, soon after water was encountered, and at the end of construction was 243 ppm. The shaft was pumped at a rate of 0.84 mgd during construction. The initial water level, circa Nov. 15, 1936, was 10.5'. The station was put into service in Feb. 1937, when the pumps were installed. The pump stop automatically when the demand exceeds 11'. The chloride content averages 80 ppm. Refer to Territory of Hydrography Bulletin 5 for a more detailed description.
**COMMISSION ON WATER RESOURCE MANAGEMENT**

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<td>I. KUNIMURA</td>
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<td>S. SWANSON</td>
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Not a declared user on our dot. Will index says it was used for irrigation in 1974. Follow-up with Mr. Osito and find out if he is actually using well info than he may have a case.

10/94
14 July 1995

Via facsimile

Ms. Rae Loui, Deputy Director
Commission of Water Resource Management
Post Office Box 621
Honolulu, HI 96809
Tel. [Redacted] fax [Redacted]

Ralph Oshiro
9377 Lincoln Blvd., Suite 4269
Los Angeles, CA 90045
Residence tel. [Redacted] fax [Redacted]
Office tel. [Redacted] fax [Redacted]

Subject: Well No. 2408-02
Tax Map Key: 8-7-19,75

Dear Ms. Loui:

We have been notified by Hida, Okamoto & Associates, Inc., consulting engineers, that the well on our property located at 87961 Hakimo Road, Wainae, HI, will be affected by the development of the Lualualei Golf Course.

This letter expresses our denial of permission to proceed by the developing company. We object to the approval of the developing company's well withdrawals, since these actions will adversely affect the property value of the land on which well no. 2408-02 is located, and will cost us additional resources to accommodate such actions.

Please direct all correspondence on this matter to the address and telephone numbers above. Thank you.

Best regards,

Ralph Oshiro

cc: Harvey K. Hida, P.E.
Alan T. Okamoto, P.E.
Hida, Okamoto & Associates, Inc.
The Commerce Tower
1440 Kapiolani Blvd., Suite 915
Honolulu, HI 96814
Tel. [Redacted] fax [Redacted]
September 5, 1995

Commission of Water Resource Management
P. O. Box 621
Honolulu, Hawaii  96809

Dear Sir:

On June 21, 1995, we received notice from consulting engineers Hida, Okamoto and Associates, Inc. concerning irrigation well development at a proposed Lualualei golf course located at Tax Map Key 8-7-21:35. We were requested in their correspondence to notify the DlNR concerning objections we may have as an adjoining property owner concerning the development of these wells.

Hawaiian Cement is concerned about the impact these wells may have on water availability on our property and request further information concerning amount of water to be pumped and projections on the impacts that may be expected on our property. We further request that well usage be delayed until this information is provided.

We apologize for not responding more promptly, as I was on the mainland for an extended period of time.

We appreciate your consideration in this matter.

Sincerely,

John H. DeLong
Vice President & Cement Division Manager

JHD:jm

cc:  Hida, Okamoto and Associates, Inc.
Mr. Michael D. Wilson, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Wilson:

Subject: Letter of June 21, 1995 from Hida, Okamoto & Associates, Inc. on Lualualei Shaft (2508-01, 02)

We were requested to write directly to you by Hida, Okamoto & Associates, Inc. with our comments on this matter.

Lualualei Shaft was completed in 1936 by the City and County of Honolulu as a source of water for the Waianae Water District. It is an inclined shaft with two water development tunnels leading off the sump at approximately sea level. Water quality from the beginning has continued to be somewhat brackish, and the station was taken out of service in 1961 when better quality water from the Pearl Harbor area was brought into the area. Access to the facility is through the U.S. Navy gate.

During the late 1980's, farmers in Lualualei were interested in more water for their crops and this source was offered to them if they could obtain assistance from the state to reactivate the station. The shaft is capable of producing 200,000 gallons per day of water that is suitable for all but the most sensitive crops. There are approximately 8,000 feet of 6-inch pipe along Lualualei Road, and 5,000 feet of 4-inch pipe along Paakea Roads.

Other than use of the station as a potential source for mixing or demineralization, we do not anticipate future reactivation at this time, unless there is interest in this water for agricultural use and the State is willing to assist in the reactivating the source.

If you have any questions, please contact Herbert H. Minakami at [redacted]

Very truly yours,

RAYMOND H. SATO
Manager and Chief Engineer
SUBJECT: Well No. 2508-01
Well No. 2508-02
Tax Map Key: 8-8-1:10

In March 6 of this year I had visited the wells on the subject property and observed and understand that it has not been pumped for quite a few years due to existing salinity levels and that BWS have no intention of using the wells in the foreseeable future.

We have notified the Department of Land and Natural Resources (DLNR) that none of the wells in the area, including Well Nos. 2408-01 through 2408-07; 2409-09, -15, -17, -19, and -20; and 2508-01 through 2508-09, have been pumped or used in several years.

In accordance with one of the City's policies, established by Ordinance No. 91-82, in the interest of water conservation, golf courses are directed whenever possible to use non-potable water sources for irrigation. In light of this requirement, we have been working with DLNR to develop brackish wells to irrigate our proposed Lualualei Golf Course development. We have drilled and tested Well Nos. 2408-08 and 2508-10 on our property and found that although the chloride concentration is not suitable for many crops or grasses, it will support the seashore paspalum that we propose for our golf course.

Because it appears that the wells that may be affected by our water withdrawals may not be used in the foreseeable future, DLNR is inclined to recommend approval of our proposed pump capacity providing we notify affected well owners and provide them with an opportunity to voice their concerns or objections to approval of our well withdrawals. DLNR has asked that your concerns or objections be submitted in writing to the following address:

Commission of Water Resource Management
Post Office Box 621
Honolulu, Hawaii 96809

We should recommend that should you decide to write that you submit your letter to the Commission by July 15, 1995.
Thank you for your time and consideration of our request for comments on our proposed well development.

Very truly yours,

HIDA, OKAMOTO & ASSOCIATES, INC.

Harvey K. Hida, P.E.
President
Mr. Harvey K. Hida, President  
Hida, Okamoto, & Associates  
1440 Kapiolani Blvd., Suite 915  
Honolulu, Hawaii 96814  

Dear Mr. Hida:  

Luahualei Golf Wells  
2408-08 & 2508-16  

Thank you for submitting well completion reports and pump test data for these two wells.  

The driller has indicated the possibility of withdrawing 0.5 mgd total from these two wells, with a similar amount available if additional wells could be drilled.  

We note, however, that each of these wells is sensitive to increased salinity at the anticipated pumping levels. In addition, we note that there are some twenty other wells very near these two, half of which are now in use. As each new well was drilled, successively higher salinity levels was noted, and most of them register far higher levels than the results shown in your tests.  

Many of those in use are for irrigation, and others may be used because of their salinity. It could be expected that the anticipated pumping levels of your wells could increase the effective salinity in these other wells.  

We recommend that your desired withdrawals be spread over a larger number of wells, and that great caution be observed concerning the amounts withdrawn. The Commission would need to monitor the results of the use of these wells very carefully.  

Sincerely,  

[Signature]  

for: RAE M. LOUI  
Deputy Director  

CC:ss
November 7, 1994

KABUSHIKI KAISHA OBAN
C/O HARVEY K. HIDA
1440 KAPIOLANI BLVD. SUITE 915
HONOLULU, HI 96814

SUBJECT: MAILE IRRIGATION WELLS

Gentlemen,

After the drilling and testing of two (2) wells located at tax map key 8-7-9: Por. 2, we have observed the following:

WELL #1 "QUARRY WELL" WHICH WAS LONG TERM TESTED IN OCTOBER 1989 AND AGAIN LONG TERM TESTED IN FEBRUARY OF 1994, HAS DEMONSTRATED A YIELD CAPACITY OF 100 GPM OF GOOD QUALITY IRRIGATION WATER.

WELL "A" 2508-10 WHICH LONG TERM TESTED IN NOVEMBER OF 1994 HAS DEMONSTRATED A YIELD CAPACITY OF 250 GPM OF GOOD QUALITY IRRIGATION WATER.

In conclusion, these two wells are easily capable of sustaining .5 MGD of irrigation water for the proposed golf course. Permits to drill additional wells could easily put water projections up to one (1) MGD if drilled and tested in the future.

Sincerely,

TRACY RUNNELS
ROSCOE MOSS HAWAII, INC.
FIELD SUPERINTENDENT
December 6, 1994

Mr. Keith W. Ahue, Chairperson
Commission on Water Resources Management
Department of Land and Natural Resources
P.O. Box 621
Honolulu, Hawaii 96809

Attention: Mr. Ed Sakoda

Gentlemen:

SUBJECT: Wells 2408-08 and 2508-10
Proposed Lualualei Golf Course
Maili, Waianae, Oahu
HO&A Job No. 223CZ94

We have submitted the following well reports and well pumping test data of the subject wells (State Well No. 2408-08 and No. 2508-10) to the City Department of Land Utilization (DLU) as part of the rezoning application. DLU is inquiring about the accuracy of the data and report, and the acceptability of projected pump age yield capacity.

We would appreciate it if you could review and comment on the attached data and report. Both wells are constructed and tested by Roscoe Moss Hawaii, Inc. Should you have any questions, please feel free to contact us at

Very truly yours,

HIDA, OKAMOTO & ASSOCIATES, INC.

Harvey K. Hida, P. E.
President

HKH/djb 223CZ94.WRM

Enclosures
**PUMPING TEST RECORD**

**MAILE GOLF COURSE**

**OAHU Island**

**LUALUALEI Project or Job No.**

**Well A**

**Date** 11/3/94

**WELL 2508 12**

---

**Description of Well**

1. **Elevation:** ground surface 76 ft., top of casing 100 ft., rotary table __ ft., referenced to __ bechmark.
2. **Total depth of well:** 96 ft.; or __ ft. elevation, msl
3. **8 in. solid casing to 76 ft. depth, perforated to 96 ft. depth**
4. **Static water level on 11/3/94: 74 ft. below ground surface, top of casing; or __ ft. elevation msl**

**Description of Pump and Pump Setting**

5. **SUB type pump with 2 stage bowl assembly**
6. **Electric, power with 15 horsepower**
7. **Shaft speed:** 3450 rpm at 300 gpm flow
8. **Depth of pump intake:** 83.5 ft. below GND; or __ ft. elev. msl
9. **Depth of airline bottom:** 82 ft. below GND; or __ ft. elev. msl
10. **Center of gage:** 1.5 ft. elev., msl. Flow measured with __ METER __

**Test conducted by** ROSCOE MOSS HAWAII, INC BY JERRY BOURN

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<th>Pumping rate (gpm)</th>
<th>Airline (feet)</th>
<th>Drawdown (feet)</th>
<th>Chlorides (ppm)</th>
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<td>751,166</td>
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</tr>
</tbody>
</table>
WELL COMPLETION REPORT

Instructions: Please print or type and submit completed report within 30 days after well completion to the Commission on Water Resource Management, P.O. Box 821, Honolulu, Hawaii 96806. An as-built drawing of the well and chemical analysis should also be submitted. For assistance call the Commission Regulation Branch at 367-9229.

1. STATE WELL NO. 2508-10 Will NAME LUALUALEI GOLF ISLAND OAHU
2. LOCATION: Address END OF LUALUALEI NAVY ACCESS ROAD Tax Map Key 8-7-9-PM 2
3. DRILLING OR PUMP INSTALLATION CONTRACTOR ROSCOE MOSS HAWAII, INC.
4. CONTRACTOR'S C-57 LICENSE NUMBER C-16437
5. NAME OF DRILLER WHO PERFORMED WORK HALL FENTON
6. TYPE OF RIG/CONSTRUCTION CABLE Tool 60L
7. DATE OF WELL DRILLING COMPLETION 3-11-94
8. GROUND ELEVATION (msl) ft.

9. DRILLER'S LOG:

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Rock Description, Remarks, Dates</th>
<th>Water Level (ft)</th>
<th>Depth (ft)</th>
<th>Rock Description, Remarks, Dates</th>
<th>Water Level (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 23</td>
<td>MUD &amp; RIVER ROCK</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23 to 50</td>
<td>MUDY CORAL</td>
<td></td>
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</tr>
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<td>50 to 65</td>
<td>MUD</td>
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</tr>
<tr>
<td>65 to 85</td>
<td>MUDY CORAL</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>85 to 90</td>
<td>FINGER CORAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90 to 96</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10. TOTAL DEPTH OF WELL BELOW GROUND 96 ft.
11. HOLE SIZE: 14 inch dia. from 0 ft. to 96 ft. below ground

12. CASING INSTALLED:
PVC 4.72 in. I.D. x 1/2 in. wall solid section to 76 ft. below ground
PVC 7.62 in. I.D. x 1/2 in. wall perforated section to 96 ft. below ground
Type of Perforation SAW CUT P.V.C.
13. ANNULUS: Gravel packed from 0 ft. below ground to 70 ft. below ground

14. INITIAL WATER LEVEL 74 ft. below ground. Date and time of measurement 2-26-94
15. INITIAL CHLORIDE 450 ppm Date and time of sampling 3-07-94
16. INITIAL TEMPERATURE 27°C Date and time of sampling

17. DATE OF PUMP INSTALLATION
18. PUMP INSTALLATION:

Pump Type, Make, Serial No. Capacity gpm
Motor type, H.P., Voltage, rpm
Depth of Pump Intake Setting ft. below ground, which elevation is ft.
Depth of bottom of airline ft. below ground, which elevation is ft.
Pumping Head is ft.

19. PUMPING TESTS:

<table>
<thead>
<tr>
<th>Date</th>
<th>Start water level (ft. below R.P.)</th>
<th>Start water level (ft. below R.P.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>End water level (ft. below R.P.)</th>
<th>End water level (ft. below R.P.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Depth of well (ft. below R.P.)</td>
<td>Depth of well (ft. below R.P.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Elapsed Time (hours)</th>
<th>Rate (gpm)</th>
<th>Draw down (ft.)</th>
<th>C Temp.</th>
<th>Elapsed Time (hours)</th>
<th>Rate (gpm)</th>
<th>Draw down (ft.)</th>
<th>C Temp.</th>
</tr>
</thead>
</table>
PROPOSED SECTION OF WELL

Elevation at top of casing
Approx 76 ft., msl.

Cement Grout 70 ft.

Hole Dia. 14 in.

Total Depth 96 ft.

Rock Packing 26 ft.

Ground Elev. Approx 74 ft., msl.

Solid Casing:
Material P.U.C
Length 76 ft.
Diameter 7.62 I.D. in.
Wall thickness .5 in.

Casing: / Perforated Screen
Material P.U.C
Length 20 ft.
Diameter 7.62 I.D. in.
Wall thickness .5 in.
Openings 38.40 sq. in./L.F.

Open Hole:
Length NA
Diameter ________________ in.
PUMPING TEST RECORD

for

Maile-Lupeleh Well

Oahu Island 3-94 Project or Job No. 3-7 1994

Description of Well--
1. Elevation: ground surface ___ ft., top of casing ___ ft., rotary table ___ ft. referenced to ___ benchmark.
2. Total depth of well ___ ft.; or ___ ft. elevation, msl
3. ___ in. solid casing to ___ ft. depth, perforated to ___ ft. depth
4. Static water level on 1994: ___ ft. below ground surface, top of casing; or ___ ft. elevation, msl ___ base measured ___ method

Description of Pump and Pump Setting--
5. ____ type pump with ___ stage bowl assembly Detroit Diecel
6. Gasoline(diesel) electric, power with ____ hp
7. Shaft speed: ___ rpm at ___ gpm flow
8. Depth of pump intake: ___ ft. below base; or ___ ft. elev. msl
9. Depth of airline bottom: ___ ft. below base; or ___ ft. elev. msl
10. Center of gage: ___ ft. elev., msl. Flow measured with Flow meter
11. Test conducted by Harold Fenton - Lance Mattson

<table>
<thead>
<tr>
<th>Date &amp; Time</th>
<th>Sample No.</th>
<th>Pumping rate (gpm)</th>
<th>Airline PSI (feet)</th>
<th>Drawdown (feet)</th>
<th>Chlorides (ppm)</th>
<th>Temp. °C</th>
<th>Cond. (mmhos 25°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-7-94</td>
<td>Static Air</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td>27°</td>
<td></td>
</tr>
<tr>
<td>*</td>
<td>9:00 AM</td>
<td>1</td>
<td>100</td>
<td>4.35</td>
<td></td>
<td>27°</td>
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</tr>
<tr>
<td>*</td>
<td>9:05 AM</td>
<td>1</td>
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<td>4.35</td>
<td></td>
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</tr>
<tr>
<td>*</td>
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<td>4.50</td>
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<tr>
<td>*</td>
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<td>100</td>
<td>4.50</td>
<td></td>
<td>700 PPM</td>
<td>27°</td>
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<td>*</td>
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<td>100</td>
<td>4.50</td>
<td></td>
<td>850 PPM</td>
<td>27°</td>
</tr>
<tr>
<td>*</td>
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<td>750 PPM</td>
<td>27°</td>
</tr>
<tr>
<td>*</td>
<td>3:00 PM</td>
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<td>4.40</td>
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<tr>
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<td>100</td>
<td>4.40</td>
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<td>800</td>
<td>27°</td>
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</table>
### PUMPING TEST RECORD

#### for Maile-Luahalei
- **Name:**
- **Well NO.:** A
- **Location:** Oahu Island 3-94R
- **Project or Job No.:** 19

<table>
<thead>
<tr>
<th>Date &amp; Time</th>
<th>Sample No.</th>
<th>Pumping Rate (gpm)</th>
<th>Airline PSI (feet)</th>
<th>Drawdown (feet)</th>
<th>Chlorides (ppm)</th>
<th>Temperature (°F)</th>
<th>Conductivity (mmhos 25°C)</th>
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<td>100</td>
<td>4.3</td>
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<td>100</td>
<td>4.3</td>
<td>577</td>
<td>750</td>
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<td>100</td>
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<td>346</td>
<td>850</td>
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</tr>
</tbody>
</table>

**End test recovered right away to 4.55**
# WELL COMPLETION REPORT

**Instructions:** Please print or type and submit completed report within 30 days after well completion to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96820. An as-built drawing of the well and chemical analysis should also be submitted. For assistance call the Commission Regulation Branch at 587-0225.

## 1. STATE WELL NO. 2508-10
**WELL NAME:** LUALUALEI GOLF #3
**ISLAND:** OAHU

## 2. LOCATION: Address END OF LUALUALEI NAVY ACCESS ROAD
**Tax Map Key:** B-7-9:POR 2

## 3. DRILLING OR PUMP INSTALLATION CONTRACTOR
**ROSCOE MOSS HAWAI'I, INC.**

## 4. CONTRACTOR'S C-67 LICENSE NUMBER
**C-16437**

## 5. NAME OF DRILLER WHO PERFORMED WORK
**HAL FENTON**

## 6. TYPE OF RIG/CONSTRUCTION
**CABLE TOOL 60L**

## 7. DATE OF WELL DRILLING COMPLETION
**3-11-94**

*(NOTE: Report must be submitted within 30 days after this date)*

### 8. GROUND ELEVATION (msl)
- Top of Drilling Platform (msl)
- Height of Drilling Platform above Ground surface

| Bench Mark and Method Used to Determine Ground Elevation | GROUND AS REF.

#### Driller's Log:

<table>
<thead>
<tr>
<th>Depth (ft.)</th>
<th>Water Level</th>
<th>Rock Description, Remarks, Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 23</td>
<td>MUD &amp; RIVER ROCK</td>
<td></td>
</tr>
<tr>
<td>23 to 50</td>
<td>MUDY CORAL</td>
<td></td>
</tr>
<tr>
<td>50 to 60</td>
<td>MUDY CORAL</td>
<td></td>
</tr>
<tr>
<td>60 to 85</td>
<td>MUDY CORAL</td>
<td></td>
</tr>
<tr>
<td>85 to 96</td>
<td>FINGER CORAL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>(If more space is needed, continue on back.)</em></td>
</tr>
</tbody>
</table>

#### Total Depth of Well Below Ground:
**96 ft.**

#### Hole Size:
**14 inch dia. from 0 ft. to 96 ft. below ground**

#### Casing Installed:
- **PVC 7.62 in. I.D. x 1/2 in. wall solid section to 76 ft. below ground**
- **PVC 7.62 in. I.D. x 1/2 in. wall perforated section to 96 ft. below ground**

#### Annulus:
- Grouted from 0 ft. below ground to 70 ft. below ground
- Gravel packed from 70 ft. below ground to 96 ft. below ground

#### Initial Water Level:
**74 ft. below ground.** Date and time of measurement 2-26-94

#### Initial Chloride:
**450 ppm** Date and time of sampling 3-07-94

#### Initial Temperature:
**27° C** Date and time of sampling

#### Date of Pump Installation:

#### Pump Installation:
- **Pump Type, Make, Serial No.**
- **Capacity:** gpm
- **Motor type, H.P., Voltage, rpm**
- **Depth of Pump Intake Setting:** ft. below ground, which elevation is ft.
- **Depth of bottom of airline:** ft. below ground, which elevation is ft.
- **Pumping Head is:** ft.

#### Pumping Tests:

<table>
<thead>
<tr>
<th>Reference Point (R.P.) used:</th>
<th>Date 3-07-94</th>
<th>Date 3-07-94</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start water level</td>
<td>ft. below R.P.</td>
<td>ft. below R.P.</td>
</tr>
<tr>
<td>End water level</td>
<td>ft. below R.P.</td>
<td>ft. below R.P.</td>
</tr>
<tr>
<td>Depth of well</td>
<td>ft. below R.P.</td>
<td>ft. below R.P.</td>
</tr>
</tbody>
</table>

#### Remarks:
*(If more space is needed, continue on back.)*

---

**Contractor (print):** ROSCOE MOSS HAWAI'I, INC

**Signature:** [Signature]

**Date:** 3/16/94

---

**For Driller's Use:**
- **Job Name:**
- **Job No.:**

**For Official Use:**
- **Wall No.:** 2508-10
- **Longitude:** 158 08 21
- **Latitude:** 21 25 15
PROPOSED SECTION OF WELL

Elevation at top of casing
Approx. 76 ft., msl.

Cement Grout 70 ft.

Hole
Dia. 14 in.

Total Depth 96 ft.

Rock Packing 26 ft.

Ground Elev. Approx. 74 ft., msl.

Solid Casing:
Material: PVC
Length: 76 ft.
Diameter: 2.62 ID in.
Wall thickness: .5 in.

Casing: Perforated Screen
Material: PVC
Length: 20 ft.
Diameter: 2.62 ID in.
Wall thickness: .5 in.
Openings: 38.40 sq. in./L.F.

Open Hole:
Length: NA
Diameter: in.
**PUMPING TEST RECORD**

**for**

Mahele-lookole, Well No. 8

(Name) 3-942  Project or Job No. 37-1994

Oahu Island

---

**Description of Well**

1. Elevation: ground surface ___ ft., top of casing ___ ft., rotary table ___ ft., referenced to ____ benchmark.
2. Total depth of well ___ ft.; or ___ ft. elevation, msl
3. 8 in. solid casing to ___ ft. depth, perforated to ___ ft. depth
4. Static water level on 19 ___ ft. below ground surface, top of casing; or ___ ft. elevation msl measured ____ method

**Description of Pump and Pump Setting**

5. Turbine type pump with ___ stage bowl assembly
6. Gasoline (diesel) electric, power with ___ horsepower
7. Shaft speed: ___ rpm at 100 gpm flow
8. Depth of pump intake: ___ ft. below Base; or ___ ft. elev. msl
9. Depth of airline bottom: ___ ft. below Base; or ___ ft. elev. msl
10. Center of gage: ___ ft. elev., msl. Flow measured with ___ meter
11. Test conducted by Harold Fonton, Lance Mattson

---

<table>
<thead>
<tr>
<th>Date &amp; Time</th>
<th>Sample No.</th>
<th>Pumping rate (gpm)</th>
<th>Airline PSI (feet)</th>
<th>Drawdown (feet)</th>
<th>Chlorides (ppm)</th>
<th>Temp. °C</th>
<th>Cond. (mmhos 25°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-7-94</td>
<td>Static Air</td>
<td>100</td>
<td>4.25</td>
<td>1</td>
<td>7.00 PPM</td>
<td>27°</td>
<td>29</td>
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<tr>
<td>9:00 AM</td>
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<td>100</td>
<td>4.35</td>
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<td>750 PPM</td>
<td>27°</td>
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<tr>
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Sheet No. 1 of ____ Sheets
## PUMPING TEST RECORD

**For:** 
Monte Lualualei 3

**Well No.:** 2508-12

**Oahu Island:** 3-94R  
**Project or Job No.:** 19

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<th>Drawdown (feet)</th>
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MEMORANDUM

TO: Rae M. Loui, Deputy Director
Commission on Water Resource Management

FROM: Don Hibbard, Administrator
Historic Preservation Division

SUBJECT: Well Construction & Pump Installation Permit Applications
Lualualei Golf Course Wells 1 through 4
Well Nos. 2508-10 through 2508-13
Lualualei, Waianae, O'ahu
TMK 8-7-09:002 and 8-7-10:010

Pursuant to our memorandum to you on September 7, 1993 (LOG 9308 and DOC 9308EJ18), we would like to inform you that an acceptable archaeological inventory survey report has been submitted to the Historic Preservation Division of the Department of Land and Natural Resources and that the condition requested for this permit has been met.

EJ:jt
TO: Kabushiki Kaisha Oban
1440 Kapiolani Boulevard, Suite 915
Honolulu, HI 96814

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 Lualualei Golf Course Wells 1 to 4 (Well Nos. 2508-10 to 13), for golf course irrigation use, is approved subject to the following conditions:

1. The Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, before any work covered by this permit commences.

2. The permit shall be for construction and testing of the wells only. The applicant shall coordinate with the Commission and conduct pumping tests in accordance with the protocol established by the Commission. A means to accurately measure water levels, acceptable to the Commission, shall also be provided. No permanent pumps may be installed and no water withdrawn from the wells without first obtaining a pump installation permit from the Commission.

3. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct a well shall not constitute a determination of correlative water rights.

4. The applicant shall submit a report to the Commission on the effects pumping the wells will have on nearby wells before a pump installation permit is approved by the Commission.

5. The following shall be submitted to the Commission within 30 days after completion of the work:
   a. Well Completion Report.
   b. Elevation (referenced to mean sea level) survey by a Hawaii-licensed surveyor.
c. As-built sectional drawings of the wells.

d. Plot plan and map showing the exact locations of the wells.

e. Complete pumping test record; including time, pumping rate, drawdown, chloride content, and water quality data.

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

7. The permit application and staff submittal approved by the Commission at its meeting on October 13, 1993 shall be incorporated herein by reference.

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 proposed in the permit application shall be completed within two years from the date of permit approval.

9. An acceptable archaeological inventory survey report shall be submitted to the Historic Preservation Division of the Department of Land and Natural Resources by November 30, 1993. This will ensure that the revised report goes on public record in the statewide inventory of historic places.

KEITH W. AHUE, Chairperson
Commission on Water Resource Management

OCT 25 1993
Date of Issuance

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed.

Applicant's Signature: Sanjuro Nakada
Date: Nov-10-93

Printed Name: Sanjuro Nakada

Firm or Title: Representative of Kabushiki Kaisha OBAN

Please sign and return one copy of this permit to the Commission and retain a copy for your record.

cc: USGS
Department of Health
Safe Drinking Water Branch
Wastewater Branch
Ground Water Protection Program
Honolulu Board of Water Supply
November 5, 1993

Mr. Harvey K. Hida, P. E., President
Hida, Okamoto & Associates, Inc.
1440 Kapiolani Blvd.
Honolulu, Hawaii 96814

Subject: Lualualei Golf Course Wells I through 4
Lualualei, Wai'anae, O'ahu
TMK: 8-7-09:002 and 8-7-10:010

Dear Mr. Hida:

Thank you for sending our office the copy of "Archaeological Inventory Survey of the Proposed Lualualei Golf Course", January 1991 by Cultural Surveys Hawaii. This report was submitted to our office in February 1991 for review and was returned as not being an acceptable report. We are still waiting submittal of an acceptable report.

If you have any questions please contact Elaine Jourdane at 587-0015.

Sincerely yours,

DON HIBBARD, Administrator
State Historic Preservation Division

EJ:amk

c: Commission on Water Resource Management
TO State of Hawaii  
Dept. of Land and Natural Resources  
Commission on Water Resources  
Management  
P.O. Box 621  
Honolulu, Hawaii 96809

WE ARE SENDING YOU □ Attached □ Under separate cover via____________________ the following items:

☐ Shop drawings  ☐ Prints  ☐ Plans  ☐ Samples  ☐ Specifications

☐ Copy of letter  ☐ Change order  ☐ ______________________

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THESE ARE TRANSMITTED as checked below:

☐ For approval  ☐ Approved as submitted  ☐ Resubmit_____copies for approval

☐ For your use  ☐ Approved as noted  ☐ Submit_____copies for distribution

☐ As requested  ☐ Returned for corrections  ☐ Return_____corrected prints

☐ For review and comment  ☐ ______________________

☐ FOR BIDS DUE _______________ 19  ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS

SIGNED: 

Harvey K. Hida, P.E.
October 14, 1993

Mr. Don Hibbard, Administrator
Historic Preservation Division
Department of Land and Natural Resources
33 South King Street, 6th Floor
Honolulu, Hawaii 96813

Dear Sir,

SUBJECT: LUALUALEI GOLF COURSE WELLS 1 THROUGH 4
(Wells No. 2508-10 through 2508-13)
Lualualei, Waianae, Oahu
Tax Map Key: 8-7-09:02 and 8-7-10:10
LOG No. 9258
DOC No. 9308ej18

In pursuant to your memorandum of September 7, 1993 to the Commission on Water Resource Management, we are herewith submitting Archaeological Inventory Survey of the proposed Lualualei Golf Course by Cultural Surveys Hawaii, January 1991.

Should you have any questions, please feel free to call me at ...

Very truly yours,

HIDA, OKAMOTO & ASSOCIATES, INC.

[Signature]

Harvey K. Hida, P. E.
President

HKH/djb 223DP93.dlr

cc w/out enclosure: Commission on Water Resource Management

Enclosure:
MEMORANDUM

TO: Rae M. Loui, Deputy Director
Commission on Water Resource Management

FROM: Don Minnib, Administrator
Historic Preservation Division

SUBJECT: Well Construction & Pump Installation Permit Applications
Lualualei Golf Course Wells 1 through 4
Well Nos. 2508-10 through 2508-13
Lualualei, Wai'anae, Oahu

September 7, 1993

Thank you for the opportunity to review this project. A review of our records shows that an archaeological inventory survey, conducted in this area, has identified historic sites in the vicinity of the proposed wells. We agree with the draft report findings that the sites are "no longer significant" and believe that this project will have "no effect" on historic sites. However, we request a condition be attached to the permit as follows:

An acceptable archaeological inventory survey report shall be submitted to the Historic Preservation Division of the Department of Land and Natural Resources by November 30, 1993. This will ensure that the revised report goes on public record in the statewide inventory of historic places.

EJ:jt

TRANSMISSION REPORT

THIS DOCUMENT (REDUCED SAMPLE ABOVE) WAS SENT

** COUNT **
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** SEND ***

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Ms. Rae M. Loui, Deputy Director  
Department of Land and Natural Resources  
Commission on Water Resource Management  
P.O. Box 621  
Honolulu, Hawaii 96809

September 16, 1993

Dear Ms. Loui:

Subject: Well Construction  
Lualualei Golf Course Wells 1 2508-10  
Lualualei Golf Course Wells 2 2508-11  
Lualualei Golf Course Wells 3 2408-12  
Lualualei Golf Course Wells 4 2508-13

Pump Installation  
Maile-Tomita 2409-23

We have reviewed the material on the subject project submitted by your office. We are concerned with any potential contamination to the wells via improper wastewater treatment and disposal from any nearby source. At this time, sources of potential contamination from the wells would be from the residential developments nearby. As long as water quality is checked periodically, however, contamination to the wells should be minimized.

The pump installation at Maile-Tomita does not seem to be located in a potential contamination area as there are other wells located within the vicinity.

Should you have any further questions, please contact Mr. Harold Yee of the Wastewater Branch at telephone

Sincerely,

BRUCE S. ANDERSON, Ph.D.  
Deputy Director for Environmental Health
September 17, 1993

The Honorable Keith W. Ahue, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Ahue:

Well Construction &
Pump Installation Permits

Thank you for the opportunity to respond to these applications for the following O'ahu permits:

Lualualei Golf Course Wells 1-4 (2508-10, 11, 12, 13)
Maili-Tomita (2409-23)

The Department of Hawaiian Home Lands recognizes the correlative right of the landowner to drill wells, but must note that requests for pumping will raise our objections. Each of four wells will tap groundwater at a depth of about 30 feet, drawing potable-to-brackish water. Each is proposed to pump at the rate of 144,000 gallons per day (144 Kgd).

A former municipal well in this vicinity was abandoned after pumpage at the rate of 340 Kgd resulted in saltwater intrusion. The subject coralline aquifer was described by Shade and Takasaki (USGS) in 1986 as more sensitive to upconing, compared with the mauka volcanic aquifer, and recommended a maximum of about 110 Kgd to keep salinity levels low. The overall yield for the entire basin is estimated at 1.5 to 2.0 million gallons per day (Mgd).

The Department has unresolved land claims for about 573 acres at Lualualei, for which water resources would be required. The land would be developed primarily for residential homesteads, with a second priority on agricultural homesteads. A substantial portion of the groundwater in this aquifer is subject to this claim.
The Honorable Keith W. Ahue, Chairperson
Well and Pump Permits
DHHL Comments
Page 2

The Maili-Tomita pump replacement raises no objections.

Warmest aloha,

Ho'oliku L. Drake, Chairman
Hawaiian Homes Commission
Dear Mr. Hayashida:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications and submit your comments to us by SEP 14 1993.

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<th>Well No.</th>
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<td>Pump Installation</td>
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</table>

Should you have any questions, please contact the Commission on Water Resource Management staff at [redacted].

Sincerely,

RAE M. LOUI
Deputy Director

JZ:ky
Enc.

Response:
( ) We have no comments
(X) We have no objections (Please see comments on backside of form)
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: Herbert H. Minakami
Signed: Kazu Hayashida
Manager and Chief Engineer

Phone: [redacted]
Date: 9/3/93
MEMORANDUM

TO: Rae M. Loui, Deputy Director
Commission on Water Resource Management

FROM: Don Hibbard, Administrator
Historic Preservation Division

SUBJECT: Well Construction & Pump Installation Permit Applications
Lualualei Golf Course Wells 1 through 4
Well Nos. 2508-10 through 2508-13
Lualualei, Waianae, O'ahu
TMK 8-7-09:002 and 8-7-10:010

Thank you for the opportunity to review this project. A review of our records shows that an archaeological inventory survey, conducted in this area, has identified historic sites in the vicinity of the proposed wells. We agree with the draft report findings that the sites are "no longer significant" and believe that this project will have "no effect" on historic sites. However, we request a condition be attached to the permit as follows:

An acceptable archaeological inventory survey report shall be submitted to the Historic Preservation Division of the Department of Land and Natural Resources by November 30, 1993. This will ensure that the revised report goes on public record in the statewide inventory of historic places.

BJ:jt
Mr. Thomas Arizumi, Chief
Environmental Management Division
State Department of Health
Five Waterfront Plaza
500 Ala Moana Blvd., Suite 250
Honolulu, Hawaii 96813

Attn: Mr. William Wong

Dear Mr. Arizumi:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications and submit your comments to us by SEP 14 1993

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Should you have any questions, please contact the Commission on Water Resource Management staff at [REDACTED]

Sincerely,

[signature]

RAE M. LOUI
Deputy Director

Response:
☐ We have no comments
☒ We have no objections
☐ Comments attached
☐ Additional information requested
☐ Extended review period requested

Contact Person: [REDACTED]
Signed: [REDACTED]
Phone: [REDACTED]
Date: 8/24/93
Mr. Harvey K. Hida  
Kabushiki Kaisha Oban  
1440 Kapiolani Blvd., Suite 915  
Honolulu, Hawaii 96814

Dear Mr. Hida:

We have received your applications and filing fee for permits to construct Lualualei Golf Course Wells 1 to 4 (Well Nos. 2508-10 to 13) at Nanakuli, Oahu, (TMK 8-7-9:02). We are reviewing the applications for completeness.

Should you have questions, please call the Commission on Water Resource Management staff at [redacted]

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

JZ:ky
MEMORANDUM

TO: Honorable Hoaliku L. Drake, Director
   Department of Hawaiian Home Lands
   Mr. Clayton H.W. Hee, Chairman & Trustee At Large
   Office of Hawaiian Affairs

FROM: Keith W. Ahue, Chairperson
   Commission on Water Resource Management

SUBJECT: Well Construction & Pump Installation Permit Applications

Please review the following permit applications and submit your comments to us by SEP 15 1993

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Should you have any questions, please contact the Commission on Water Resource Management staff at [Redacted]

JZ:ky
Enc.

Response:

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: ___________________________ Phone: ______________________

Signed: ___________________________ Date: ______________________
Mr. Kazu Hayashida  
Manager & Chief Engineer  
Board of Water Supply  
City & County of Honolulu  
630 South Beretania Street  
Honolulu, Hawaii 96843

Dear Mr. Hayashida:

**Well Construction and Pump Installation Permit Applications**

Please review the following permit applications and submit your comments to us by **SEP 14 1993**

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
<th>Well No.</th>
<th>Application Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oahu</td>
<td>Lualualei Golf Course Wells 1</td>
<td>2508-10</td>
<td>Well Construction</td>
</tr>
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</tr>
<tr>
<td>Oahu</td>
<td>Maile-Tomita</td>
<td>2409-23</td>
<td>Pump Installation</td>
</tr>
</tbody>
</table>

Should you have any questions, please contact the Commission on Water Resource Management staff at [blacked out].

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

---

Response:

( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Contact Person: ___________________________  
Signed: ___________________________  
Phone: __________  
Date: __________
Ms. Marjorie Ziegler  
Sierra Club Legal Defense Fund, Inc.  
212 Merchant Street, Room 202  
Honolulu, Hawaii 96813

Dear Ms. Ziegler:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications and submit your comments to us by SEP 14 1993

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Should you have any questions, please contact the Commission on Water Resource Management staff at [number]

Sincerely,

[Signature]

RAE M. LOUI
Deputy Director

Response:

( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested  

Contact Person: ___________________________  Phone: ____________

Signed: ___________________________  Date: ____________
Mr. Thomas Arizumi, Chief
Environmental Management Division
State Department of Health
Five Waterfront Plaza
500 Ala Moana Blvd., Suite 250
Honolulu, Hawaii 96813

Attn: Mr. Dennis Tulang

Dear Mr. Arizumi:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications and submit your comments to us by SEP 14 1993

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<td>2409-23</td>
<td>Pump Installation</td>
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Should you have any questions, please contact the Commission on Water Resource Management staff at [ ]

Sincerely,

RAE M. LOUI
Deputy Director

Response:
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: ______________________ Phone: __________
Signed: _____________________________ Date: __________
Enc.
Mr. Thomas Arizumi, Chief  
Environmental Management Division  
State Department of Health  
Five Waterfront Plaza  
500 Ala Moana Blvd., Suite 250  
Honolulu, Hawaii 96813  

Attn: Mr. William Wong  

Dear Mr. Arizumi:  

Well Construction and Pump Installation Permit Applications  

Please review the following permit applications and submit your comments to us by SEP 14 1993  

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</tbody>
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Should you have any questions, please contact the Commission on Water Resource Management staff at ____________

Sincerely,  

RAE M. LOUI  
Deputy Director  

Response:  
( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested  

Contact Person: __________________________  Phone: ____________

Signed: ____________________________  Date: ____________
AUG 23 1993

MEMORANDUM

TO: Dr. Don Hibbard, Director
   Historic Preservation Program

FROM: Rae M. Loui, Deputy Director
       Commission on Water Resource Management

SUBJECT: Well Construction & Pump Installation Permit Applications

Please review the following permit applications and submit your comments to us by SEP 14 1993.

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<td>2409-23</td>
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</tr>
</tbody>
</table>

Should you have any questions, please contact the Commission on Water Resource Management staff at [contact information]

JZ:ky
Enc.

Response:
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: ______________________ Phone: ________

Signed: ___________________________ Date: __________
APPLICATION FOR PERMIT

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) WELL OWNER
   Firm/Name: Kohshikiki, Kaia Chum
   Contact Person: Harvey K. Hida
   Address: 1440 Kapolei Parkway, Suite 815
   Honolulu, Hawaii 96814

   (b) LANDOWNER
   Firm/Name: Kohshikiki, Kaia Chum
   Contact Person: Harvey K. Hida
   Address: 1440 Kapolei Parkway, Suite 915
   Honolulu, Hawaii 96814

   (c) CONTRACTOR
   Firm/Name: Rincon Mosaic Company
   Address: 330 Ala Moana Boulevard
   Honolulu, Hawaii 96814

2. WELL LOCATION/NAME: Inwood, Nanakuli, Oahu 25° 10' Island Oahu
   Address: End of Inwood Navy Access Road, Waianae
   Top Map Key: B-7-6-8 Bar. 2

3. (a) PROPOSED WORK: Drill New Well
   * Alter Location
   * Modify Existing Well
   Redrill
   * Install New Pump
   Replace Pump
   Modify Pump
   * Be sure to complete and submit well abandonment report upon completion of work.

   (b) WELL TYPE:
   □ Dug
   □ Bored
   □ Driven
   □ Drilled
   □ Radial
   Is this well a part of a battery of wells? Yes

4. PROPOSED PUMP INFORMATION: Rated Pump Capacity: ___________ gallons per minute
   Pump Type:
   □ Deep Well Turbine
   □ Submersible
   □ Centrifugal
   □ Rotary
   □ Rotary-Displacement
   □ Reciprocating
   □ Rotary-Gear
   □ Impulse
   □ Electric, rated horsepower of ___________

   Motor:
   □ Diesel
   □ Gas
   □ Electric, rated horsepower of ___________

5. PROPOSED USE:
   □ Municipal (including hotels, stores, etc.)
   □ Domestic (individual, noncommercial water system)
   □ Irrigation (crop)
   □ Golf Course
   □ Military
   □ Industrial
   □ Other

   State Land Use District:
   □ Urban
   □ Agriculture
   □ Rural
   □ Conservation

   County Zoning (describe): ___________

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: 144,000 gallons per day

7. PENDING ACTIONS:
   □ CUQA
   □ SMA
   □ EIS
   □ EA
   □ NONE
   □ Other (Explain)

8. REMARKS, EXPLANATIONS:
   Development Plan Amendment

   (If more space is needed, continue below under remarks, explanations.)

NOTE: Signing below indicates that the applicant understands that, if the permit is requested and granted by the Commission on Water Resource Management, the proposed work is to be completed within two (2) years of the approval date. In addition, the contractor shall submit to the Commission a well completion report, well abandonment report, or both, within 30 days after the completion date of the permit work. The applicant also understands that monthly water use data shall be submitted to the Commission. The applicant further understands that approval of the proposed permit shall not constitute a determination of correlative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: Kohshikiki, Kaia Chum
Landowner: Kohshikiki, Kaia Chum
Contractor: Rincon Mosaic Company

Signature: Sanjio Nakade
Date: 1/30/03

(If more space is needed, continue on back)

For Official Use Only:
Date Received
Date Accepted
Field Checked By
Date

Longitude
Latutude

AQUIFER SYSTEM NAME
STATE WELL No.

5/24/92 WRM For
**APPLICATION FOR PERMIT**

**Well Construction or Pump Installation**

**Instructions:** Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 9231, Honolulu, Hawaii 96816. Application must be accompanied by a non-refundable filing fee. Applicants are advised to contact the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 808-267-0225.

1. **APPLICANT:** (may be a, b, or c, but all must be filled in)
   (a) **WELL OWNER**
      Firm/Name: Kabeihiki Keishe Oban
      Contact Person: Harvey K. Hida
      Address: 1140 Kapiolani Blvd., Suite 915
      Honolulu, Hawaii 96814
   (b) **LANDOWNER**
      Firm/Name: Kabeihiki Keishe Oban
      Contact Person: Harvey K. Hida
      Address: 1140 Kapiolani Blvd., Suite 915
      Honolulu, Hawaii 96814
   (c) **CONTRACTOR**
      Firm/Name: Reece Moses Company
      Phn: 832-6638
      Address: 830 Alan Street
      Honolulu, Hawaii

2. **WELL LOCATION/NAME:** Lumahai, Nuiuli, Oahu 2539 - 11
   Island: Oahu
   Address: End of Lumahai Road, Nuiuli, Maili
   (Attach a USGS map, scale 1:200,000, and a property tax map showing well location referenced to established property boundaries.)

3. **(a) PROPOSED WORK:**
   - Drill New Well
   - * Alter Location
   - Modify Existing Well
   - Redrill
   - Install New Pump
   - Replace Pump
   - * Be sure to complete and submit well abandonment report upon completion of work.

4. **PROPOSED PUMP INFORMATION:**
   
<table>
<thead>
<tr>
<th>Pump Type</th>
<th>Motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deep Well Turbine</td>
<td>Diesel</td>
</tr>
<tr>
<td>Submersible</td>
<td>Gas</td>
</tr>
<tr>
<td>Centrifugal</td>
<td>Electric, rated horsepower of,</td>
</tr>
</tbody>
</table>

5. **PROPOSED USE:**
   - Municipal (including hotels, stores, etc.)
   - Domestic (individual, noncommercial water sys.)
   - Irrigation (crop)
   - Golf Course
   - Other (explain)
   
   **State Land Use District:**
   - Urban
   - Agriculture
   - Rural
   - Conservation
   
   **County Zoning (describe):**
   - KO-2
   
   (If more space is needed, continue below under remarks, explanations.)

6. **(a) PROPOSED AMOUNT OF WITHDRAWAL:** 144,000 gallons per day

7. **METHOD OF FLOW MEASUREMENT:**
   - Flowmeter
   - Open pipe
   - Office Plate
   - Weir

8. **REMARKS, EXPLANATIONS:** Development Plan Amendment

**NOTE:** Signing below indicates that the applicant understands that, if the permit requested is granted by the Commission on Water Resource Management, the proposed work is to be completed within two (2) years of the approval date. In addition, the contractor shall submit to the Commission a well completion report, well abandonment report, or both, within 30 days after the completion date of the permitted work. The applicant further understands that approval of this proposed permit shall not constitute a determination of water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

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<tbody>
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<td>Kabeihiki Keishe Oban</td>
<td>Kabeihiki Keishe Oban</td>
<td>Reece Moses Company</td>
</tr>
<tr>
<td>Signature: Sajiro Nakahara</td>
<td>Signature: Sajiro Nakahara</td>
<td>Signature: Sajiro Nakahara</td>
</tr>
<tr>
<td>Date: 6/30/93</td>
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</table>

**For Official Use Only:**
- Date Received
- Date Accepted
- Field Checked By
- Date
- Longitude
- Latitude
- Aquifer System Name
- State Well No.

**LUALUALEI GOLF COURSE WELL 2 6/24/92 WOK FOR**
APPLICATION FOR PERMITS

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable $25.00 filing fee and be submitted to the Dept. of Land and Natural Resources. The Commission may accept incomplete applications. For assistance call the Regulation Branch at 587-0225.

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) WELL OWNER
   Firm/Name: Kobahtihi Kajoba Oshen
   Contact Person: Hanahy K. Hida
   Address: 1660 Kapolii Rd., Suite 915
   Honolulu, Hawaii 96814

   (b) LANDOWNER
   Firm/Name: Kobahtihi Kajoba Oshen
   Contact Person: Hanahy K. Hida
   Address: 1660 Kapolii Rd., Suite 915
   Honolulu, Hawaii 96814

   (c) CONTRACTOR
   Firm/Name: Reserve Moss Company
   Phone: 839-6088
   Contractor’s C-57 License No.: 07211
   Address: 830 Allen Street
   Honolulu, Hawaii

2. WELL LOCATION/NAME: Lualualei, Kualipali, Oahu 2528-12 Island Oahu
   Address: End of Lualualei Navy Access Road, Kualipali
   Tax Map Key: 8-7-9-Div. 2
   (Attach a USGS map, scale 1:24,000, and a property tax map showing well location referenced to established property boundaries.)

3. (a) PROPOSED WORK:
   - Drill New Well
   - Modify Existing Well
   - Pedrill
   - Install New Pump
   - Replace Pump
   - Modify Pump
   - Be sure to complete and submit well abandonment report upon completion of work.

   (b) WELL TYPE:
   - Dug
   - Bored
   - Driven
   - Drilled
   - Radial
   Is this well a part of a battery of wells? Yes No
   (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: ____________ gallons per minute
   Pump Type:
   - Deep Well Turbine
   - Submersible
   - Centrifugal
   Motor:
   - Rotary
   - Rotary-Displacement
   - Reciprocating
   - Impulse
   - Electric, rated horsepower of

5. PROPOSED USE:
   - Municipal (including hotels, stores, etc.)
   - Domestic (individual, noncommercial water sys.)
   - Irrigation (crop)
   - Golf Course
   - State Land Use District:
   - Urban
   - Agriculture
   - Rural
   - Conservation
   County Zoning (describe)
   - AO-2
   (If more space is needed, continue below under remarks, explanations.)

6. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   - 144,000 gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
   - Flow-meter
   - Open-pipe
   - Orifice Plate
   - Weir

7. PENDING ACTIONS:
   - CDUA
   - SMA
   - EIS
   - EA
   - NONE
   - Other (explain)

8. REMARKS, EXPLANATIONS:
   Development Plan Amendment
   (If more space is needed, continue on back)

NOTE: Signing below indicates that the applicant understands that, if the permit is approved, it is valid for 5 years from the date of the permit. The applicant also understands that monthly water use data shall be submitted to the Commission within 30 days after the completion of the proposed work. The applicant further understands that approval of the proposed permit shall not constitute a determination of correlative water rights and shall not guarantee the pump capacity. The well must be completed within 2 years of the approval date. In addition, the contractor shall submit to the Commission a well completion report, well abandonment report, or both, within 30 days after completion of the proposed work. The applicant also understands that monthly water use data shall be submitted to the Commission. The applicant further understands that approval of the proposed permit shall not constitute a determination of correlative water rights and shall not guarantee the pump capacity.

Well Owner: Kobahtihi Kajoba Oshen
Signature: Sappire Nakahe
Date: 6/30/1973

Landowner: Kobahtihi Kajoba Oshen
Signature: Sappire Nakahe
Date: 6/30/1973

Contractor: Reserve Moss Company
Signature: Fong Jenu
Date: 7/15/1973

For Official Use Only:
Date Received
Date Accepted
File Checked By
Date

Longitude
Latitude
Aquifer System Name
State Well No.
C-57

LUALUALEI GOLF COURSE WELL 3
APPLICATION FOR PERMIT
☐ Well Construction  ☐ Pump Installation

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 521, Honolulu, Hawaii 96805. Application must be accompanied by a non-refundable filing fee of $250.00 payable to the State of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0891.

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) WELL OWNER
      Firm/Name: Kahului Kaihik Gahan
      Contact Person: Harvey K. Hira
      Address: 1440 Kapalihale Blvd., Suite 915
      Kahului, Maui 96732
   (b) LANDOWNER
      Firm/Name: Kahului Kaihik Gahan
      Contact Person: Harvey K. Hira
      Address: 1440 Kapalihale Blvd., Suite 915
      Kahului, Maui 96732
   (c) CONTRACTOR
      Firm/Name: Reserve Moss Company
      Phone: 808-699-8888
      Address: 830 Alaka Street
      Honolulu, Halei

2. WELL LOCATION/NAME: Lualualei, Maui, Oahu 2508-13 Island Oahu
   Address: End of Lualualei Navy Access Road, Waianae
   (Attach a USGS map, scale 1"=2000", and a property tax map showing well location referenced to established property boundaries.)

3. (a) PROPOSED WORK:
   - Drill New Well
   - Modify Existing Well
   - Redrill
   - Install New Pump
   - Replace Pump
   - Modify Pump
   * Be sure to complete and submit well abandonment report upon completion of work.

(b) WELL TYPE:
   - Dug
   - Bored
   - Driven
   - Drilled
   - Radial

   Is this well a part of a battery of wells? ☐ Yes ☑ No
   (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: _____________ gallons per minute

   Pump Type:
   - □ Deep Well Turbine
   - □ Submersible
   - □ Centrifugal
   - □ Rotary
   - □ Rotary-Displacement
   - □ Rotary-Gear
   - □ Impulse
   - □ Motor:
     - ☐ Diesel
     - ☐ Gas
     - ☐ Electric, rated horsepower of __________

5. PROPOSED USE:
   - □ Municipal (including hotels, stores, etc.)
   - □ Domestic (individual, noncommercial water sys.)
   - □ Irrigation (crop)
   - ☐ Golf Course
   - □ Conservation
   - □ Other (explain)

   State Land Use District: ☐ Urban ☑ Agriculture ☐ Rural ☐ Conservation
   County Zoning (describe) ☑ AG-20

   (If more space is needed, continue below under remarks, explanations.)

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: 144,000 gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
      - ☐ Flow-meter
      - ☐ Open-pipe
      - ☐ Office Plate
      - ☐ Well

7. PENDING ACTIONS:
   - ☐ CDUA ☑ SMA ☐ IS1 ☐ EA ☐ NONE ☐ Other (explain)

8. REMARKS, EXPLANATIONS:
   Development Plan Amendment

   (If more space is needed, continue on back)

NOTE: Signing below indicates that the applicant understands that, if the permit is granted, the proposed water use shall be completed within two years of the approval date. In addition, the contractor shall submit to the Commission a well completion report, well abandonment report, or both, within 30 days after the completion date of the permitted work. The applicant also understands that monthly water use data shall be submitted to the Commission. The applicant further understands that approval of the proposed permit shall constitute a determination of cumulative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: Kahului Kaihik Gahan
Landowner: Kahului Kaihik Gahan
Contractor: Reserve Moss Company

Signature: ____________________________
Date: ____________________________
Signature: ____________________________
Date: ____________________________
Signature: ____________________________
Date: ____________________________

For Official Use Only:
Date Received: ______________________
Date Accepted: ______________________
Field Checked By: ____________________
Date: ____________________________
Longitude: ______________________
Latitude: ______________________
Aquifer System Name: ______________________
State Well No.: 3-2508-13

LUALUALI GOLF COURSE WELL 4
TO Commission on Water Resource Management

P.O. Box 621
Honolulu, Hawaii 96809

WE ARE SENDING YOU □ Attached □ Under separate cover via mail the following items:

□ Shop drawings □ Prints □ Plans □ Samples □ Specifications

□ Copy of letter □ Change order □

<table>
<thead>
<tr>
<th>COPIES</th>
<th>DATE</th>
<th>NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>6-3-93</td>
<td>3</td>
<td>Well Construction Application for Permit</td>
</tr>
<tr>
<td>1</td>
<td>7-15-93</td>
<td>3</td>
<td>$100.00 ($25 X 4 well site) check payable to DLNR</td>
</tr>
</tbody>
</table>

THESE ARE TRANSMITTED as checked below:

□ For approval □ Approved as submitted □ Resubmit_____ copies for approval

□ For your use □ Approved as noted □ Submit_____ copies for distribution

□ As requested □ Returned for corrections □ Return_____ corrected prints

□ For review and comment □

□ FOR BIDS DUE ______________________ 19 □ PRINTS RETURNED AFTER LOAN TO US

REMARKS

Should you have any questions or require additional information please call me at □

SIGNATURE: Harvey K. Hida, P.E.
PAY TO THE ORDER OF Department of Land & Natural Resources $100.00

July 16, 1993

HIDA, OKAMOTO & ASSOCIATES INC.
1440 KAPIOLANI BLVD., STE. 915 808-942-0066
HONOLULU, HI 96814

CITY BANK
MC CULLY BRANCH
2002 S. King St., Honolulu, Hawaii 96826

July 16, 1993

HIDA, OKAMOTO & ASSOCIATES INC.

DETACH AND RETAIN THIS STATEMENT

THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DELUXE FORM DVC-2 HA-5

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<th>DATE</th>
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<td>Well Construction Application for Permit Fee - Lualualei Golf Course HO&amp;A Job No. 223 DP 93</td>
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DEEDED FORM DVC-2 HA-5

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<td>SOCIAL SECURITY TAX</td>
<td>WITHHOLDING U.S. INC. TAX</td>
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EMPLOYEE

HAS