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CERTIFIED MAIL™ RECEIPT
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Certified Fee 2.30
Return Receipt Fee
(Endorsement Required) 1.75
Restricted Delivery Fee
(Endorsement Required)
Total Postage & Fees $ 4.65

Sent by

Mr. Young Sun Kim
YHB EWA LLC
4801 Wilshire Blvd., Ste. 220
Los Angeles, CA 90010

P.S. For Instructions

Received
11/28/05
CwP No.
752

759
Certified Mail Provides:

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Mr: Young Sun Kim
YHB EWA LLC
4801 Wilshire Blvd., Ste. 220
Los Angeles, CA 90010

Diagram:

1. Article Addressed to:

2. Article Number

3. Service Type
   - Certified Mail
   - Express Mail
   - Registered
   - Return Receipt for Merchandis
   - Insured Mail
   - C.O.D.

4. Restricted Delivery? (Extra Fee)  □ Yes

A. Received by (Please Print Clearly)
B. Date of Delivery

C. Signature
   □ Agent
   □ Addressee

D. Is delivery address different from item 1?
   □ Yes
   □ No

If YES, enter delivery address below:

PS Form 3811, March 2001
Domestic Return Receipt
102595-01-M-1
COMMISSION ON WATER RESOURCE MANAGEMENT
P. O. Box 621
Honolulu, Hawaii  96809

Attention: Lenore
November 22, 2005

752.wup

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Young Sun Kim
YHB EWA LLC
4801 Wilshire Blvd., Ste. 220
Los Angeles, CA 90010

Dear Mr. Kim:

Transfer of Water Use Permit for Well Nos. 1900-22 & 1959-08

Puuloa Ground-Water Management Area, Oahu

This is in response to an October 17, 2005 Request to Transfer Water Use Permit, which was submitted by Mr. Owen H. Matsunaga of Gerson & Hieneman, Attorneys at Law. This letter transmits your water use permit for Puuloa Dug Wells A & B (Well Nos. 1959-08 & 1900-22, respectively) for use of 0.600 million gallons per day (mgd) of water on a 12-month moving average basis that was approved by the Commission on Water Resource Management (Commission) on April 28, 1993. As part of the Commission's approval, the following special conditions were added and are part of your permit under Standard Permit Condition 19:

**Special Conditions**

a. Should an alternate permanent source of water be found, the Commission reserves the right to revoke the permit, after a hearing.

b. In the event that the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.

c. Pumping shall cease immediately if the chloride reports show that the brackish water developed in the well exceeds 1,000 mg/l of chloride, unless a variance from the chloride limit has been granted. The authority to approve future variance requests is delegated to the Chairperson.

d. This permit is approved under the assumption that wastewater will become available for reuse as an alternative supply source.

Enclosed with this letter of approval are the following:

1. Your water use permit
2. Your official monthly water use report form
Mr. Young Sun Kim  
Page 2  
November 22, 2005  

Please be sure to read the conditions of your approved permit.  

We draw your attention to two key conditions of your permit that require your response. First, you are required to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report form. You should make copies of the enclosed report form as needed.  

Second, you are required to submit a water shortage plan to the Commission within thirty (30) days of the issuance date of this permit. Your water shortage plan simply identifies what you are willing to do should the Commission declare a water shortage situation in the Puuloa Ground-Water Management Area and can be as short as a one page letter. In a water shortage situation, the Commission may require temporary reductions in pumpage from all sources. The Commission is required, by law, to formulate a plan to implement such area-wide reductions, which should accommodate, include, and be consistent with your plans. Therefore, your help, by submitting your water shortage plan, is greatly needed in formulating the Commission's overall Water Shortage Plan.  

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

Sincerely,  

Peter T. Young  
Chairperson  

Attachments  

c: Ikuyo Kato, New Ewa Beach Golf Club, Inc., fka Honolulu Kosaido, Inc.  
Owen Matsunaga, Gerson & Hieneman
# GROUND-WATER USE PERMIT

## PERMITTEE

<table>
<thead>
<tr>
<th>Permittee/Water User</th>
<th>Address</th>
<th>Landowner of Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>YHB EWA LLC</td>
<td>4801 Wilshire Blvd., Ste. 220, Los Angeles, CA 90010</td>
<td>Same</td>
</tr>
</tbody>
</table>

## PERMITTED SOURCE INFORMATION

<table>
<thead>
<tr>
<th>Island</th>
<th>Oahu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Management Area</td>
<td>Ewa Caprock</td>
</tr>
<tr>
<td>Aquifer Sector</td>
<td>Puuloa</td>
</tr>
<tr>
<td>Aquifer System</td>
<td>Na</td>
</tr>
<tr>
<td>System Sustainable Yield</td>
<td>Na</td>
</tr>
<tr>
<td>Well Name</td>
<td>Puuloa Dug Wells A &amp; B</td>
</tr>
<tr>
<td>State Well No.</td>
<td>1959-08 &amp; 1990-22</td>
</tr>
</tbody>
</table>

## PERMITTED USE INFORMATION

<table>
<thead>
<tr>
<th>Reasonable beneficial use</th>
<th>Golf Course Irrigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Withdrawal (12 month moving ave.)</td>
<td>0.600 mgd</td>
</tr>
<tr>
<td>Chloride Cap</td>
<td>1,000 mg/l</td>
</tr>
<tr>
<td>Location of water use</td>
<td>New Ewa Beach Golf Club</td>
</tr>
<tr>
<td>TMK #</td>
<td>9-1-01:30</td>
</tr>
<tr>
<td>State land use classification</td>
<td>Na</td>
</tr>
<tr>
<td>County zoning classification</td>
<td>Na</td>
</tr>
</tbody>
</table>

Pursuant to Hawaii's State Constitution, Article XI, Section 7, Hawaii Revised Statutes, Chapter 174C; Hawaii Administrative Rules, Chapters 13-167 through 13-171; and Hawaii decisional law and custom, the permittee is hereby authorized to use ground water from the sources and in the amount and from and upon the locations described above; subject however, to the requirements of law including but not limited to the following conditions:
1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial use means "the use of water in such a quantity as is necessary for economic and efficient utilization which is both reasonable and consistent with State and County land use plans and the public interest." (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground-water use here must not interfere with surface or other ground-water rights or reservations.

5. The ground-water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its April 28, 1993 meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

9. This permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   a. protect the water sources (quantity or quality);
   b. meet other legal obligations including other correlative rights;
   c. insure adequate conservation measures;
   d. require efficiency of water uses;
   e. reserve water for future uses, provided that all legal existing uses of water as of June, 1987 shall be protected;
   f. meet legal obligations to the Department of Hawaiian Home Lands, if applicable; or
   g. carry out such other necessary and proper exercise of the State's and the Commission's police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

10. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis (attached).
11. This permit shall be subject to the Commission’s periodic review of the Puuloa Aquifer System’s sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the Puuloa Aquifer System, or relevant modified aquifer(s), is reduced.

12. A permit may be transferred, in whole or in part, from the permittee to another, if:
   a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of the use, remain the same; and
   b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer, which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

13. The use(s) authorized by law and by this permit do not constitute ownership rights.

14. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances that will affect the permittee’s water use.

15. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservation, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period of forfeiture.

16. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee’s water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the Puuloa Ground-Water Management Area.

17. The water use permit shall be subject to the Commission’s establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

18. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.

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

W. Roy Handy

______________________________
PETER T. YOUNG, Chairperson
Commission on Water Resource Management

Attachment
October 17, 2005

Ms. Lenore Nakama
Commission on Water Resource Management
Department of Land and Natural Resources
1151 Punchbowl Street, Room 227
Honolulu, Hawaii 96813

Re: New Ewa Beach Golf Course

Dear Ms. Nakama:

Enclosed for filing with your office please find two (2) Requests to Transfer Water Use Permits concerning Groundwater Water Use Permit Nos. 170 and 367. We have also enclosed copies of same. Please date stamp the copies and return them to our messenger for our records. Thank you for your attention to this matter.

Should you have any questions or concerns, please do not hesitate to contact me at the (808) 524-4800, extension 226.

Sincerely,

GERSON & HIENEMAN

Owen H. Matsunaga

Enclosures
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
REQUEST TO TRANSFER WATER USE PERMIT
☐ Groundwater or ☐ Surface Water

Instructions: Please print in ink or type and send completed application to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225. For further information and updates to this application form, visit http://www.hawaii.gov/dlnr/cwm.

CURRENT PERMIT HOLDER:
1. (a) PERMITTEE
   Firm/Name: New Ewa Beach Golf Club, Inc., fka Hon. Kosaido, Inc.
   Contact Person: Ikuyo Kato
   Address: 91-050 Fort Weaver Road, Ewa Beach, HI 96706
   Phone: (808) 689-8351 Fax: (808) 689-4208
   E-mail: ikat194@aol.com

   Signing below indicates that the signatories understand and have no objection to this water use permit transfer request.

   Signature: [Signature]
   Date: 10/13/05

   Signature: [Signature]
   Date: 10/13/05

(b) LANDOWNER OF SOURCE
   Firm/Name: New Ewa Beach Golf Club, Inc., fka Hon. Kosaido, Inc.
   Contact Person: Ikuyo Kato
   Address: 91-050 Fort Weaver Road, Ewa Beach, HI 96706
   Phone: (808) 689-8351 Fax: (808) 689-4208
   E-mail: ikat194@aol.com

   Signing below indicates that the signatories swear that: 1) the conditions of use of the transferred permit including place, quantity, and purpose of the use remain the same. I also understand that a new water use permit will be issued to document this transfer and the old water use permit number will be void and superseded.

   Signature: [Signature]
   Date: [Date]

   Signature: [Signature]
   Date: [Date]

PERMIT TO BE TRANSFERRED TO:
2. (a) PERMITTEE
   Firm/Name: YHB EWA LLC
   Contact Person: Young Sun Kim
   Address: 4801 Wilshire Blvd., Ste. 220, Los Angeles, CA 90010
   Phone: 323-965-7200 Fax: 323-965-7275
   E-mail: yskim@koreanagrpr.com

   Signing below indicates that the signatories understand and have no objection to this water use permit transfer request.

   Signature: [Signature]
   Date: [Date]

   Signature: [Signature]
   Date: [Date]

(b) LANDOWNER OF SOURCE
   Firm/Name: YHB EWA LLC
   Contact Person: Young Sun Kim
   Address: 4801 Wilshire Blvd., Ste. 220, Los Angeles, CA 90010
   Phone: 323-965-7200 Fax: 323-965-7275
   E-mail: yskim@koreanagrpr.com

   Signing below indicates that the signatories swear that: 1) the conditions of use of the transferred permit including place, quantity, and purpose of the use remain the same. I also understand that a new water use permit will be issued to document this transfer and the old water use permit number will be void and superseded.

   Signature: [Signature]
   Date: [Date]

   Signature: [Signature]
   Date: [Date]

WATER USE PERMIT TRANSFER INFORMATION

3. WATER USE PERMIT NO.: 367 EFFECTIVE DATE OF TRANSFER: OCT 17 2005

4. WELL/STREAM DIVERSION NAME AND STATE NUMBER: Well No. 1900-22 and 1959-08

WUP TRANSFER FORM (01/20/2005)
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 96825

Dear Mr. Wilson:

Water Shortage Plan for Well Nos. 1900-22 and 1950-08 (WUP No. 367) and Well No. 1900-21 (WUP No. 170) of the New Ewa Beach Golf Club.

Pursuant to the request in your July 16, 1997 letter and in conformance with Hawaii Administrative Rule 13-13-171-42, we are pleased to submit this water shortage plan for the above referenced wells. On a year-round average basis, the wells provide 0.70 MGD to irrigate 118 acres. The distribution of this water over the course is approximately as follows:

<table>
<thead>
<tr>
<th>Portion of the Course</th>
<th>Area (Acres)</th>
<th>Average Irrigation Rate (MGD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tees and Greens</td>
<td>6</td>
<td>0.04</td>
</tr>
<tr>
<td>Fairways</td>
<td>46</td>
<td>0.27</td>
</tr>
<tr>
<td>Roughs</td>
<td>65</td>
<td>0.39</td>
</tr>
<tr>
<td>Total</td>
<td>118</td>
<td>0.70</td>
</tr>
</tbody>
</table>

Automation of the irrigation system enables us to select areas of the course to be irrigated at different rates and times. Should the Commission require a reduction in pumpage, cutbacks would be made for the roughs first, non-landing areas of the fairways next, and remainder of the fairways last. As you can see by the tally above, reductions of 10 and even 30 percent may be sustainable while keeping damage to the turfgrass at an acceptable level. If greater reductions are ordered, we would necessarily comply. However, considerable turf loss would occur if cutbacks of up to 50 percent were required for more than two weeks.

I hope the foregoing information is sufficient to meet your requirement for a water shortage plan. If you need additional information, please give me a call.

Sincerely,

[Signature]

Todd Symonds  
Honolulu Kosaido, Inc.
# GROUND WATER USE PERMIT

## WUP NO. 367

### PERMITTEE

<table>
<thead>
<tr>
<th>Applicant/Water User</th>
<th>Landowner of Source</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HONOLULU KOSAIDO, INC.</strong></td>
<td><strong>HONOLULU KOSAIDO, INC.</strong></td>
</tr>
<tr>
<td>91-050 FT. WEAVER RD.</td>
<td>91-050 FT. WEAVER RD.</td>
</tr>
<tr>
<td>EWABEAICH, HI 96706</td>
<td>EWABEAICH, HI 96706</td>
</tr>
</tbody>
</table>

### PERMITTED SOURCE INFORMATION

<table>
<thead>
<tr>
<th>Island</th>
<th>OAHU</th>
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</thead>
<tbody>
<tr>
<td>Water Management Area</td>
<td>EWA CAPROCK</td>
</tr>
<tr>
<td>Aquifer Sector</td>
<td>EWA CAPROCK</td>
</tr>
<tr>
<td>Aquifer System</td>
<td>PUUOLOA</td>
</tr>
<tr>
<td>System Sustainable Yield</td>
<td>NA</td>
</tr>
<tr>
<td>Well Name</td>
<td>DUG WELLS A &amp; B</td>
</tr>
<tr>
<td>State Well No.</td>
<td>1959-08 &amp; 1900-22</td>
</tr>
</tbody>
</table>

### PERMITTED USE INFORMATION

<table>
<thead>
<tr>
<th>Reasonable beneficial use</th>
<th>GOLF COURSE IRRIGATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Withdrawal (12 month moving ave.)</td>
<td>0.600 mgd</td>
</tr>
<tr>
<td>Chloride Cap</td>
<td>1,000 mg/l</td>
</tr>
<tr>
<td>Location of water use</td>
<td>9-1-01:30</td>
</tr>
<tr>
<td><strong>NEW EWA BEACH GOLF CLUB</strong></td>
<td></td>
</tr>
<tr>
<td>State land use classification</td>
<td>NA</td>
</tr>
<tr>
<td>County zoning classification</td>
<td>NA</td>
</tr>
</tbody>
</table>

Pursuant to Hawaii's State Constitution, Article XI, Section 7, Hawaii Revised Statutes, Chapter 174C; Hawaii Administrative Rules, Chapters 13-167 through 13-171; and Hawaii decisional law and custom, the applicant is hereby authorized to use ground water from the sources and in the amount and from and upon the locations described above; subject however, to the requirements of law including but not limited to the following conditions:
GROUND WATER USE PERMIT
Well No. 1900-22 and 1959-08 WUP No. 367

GENERAL CONDITIONS (UNDER THE BOARD OF LAND AND NATURAL RESOURCES)

1. The water use authorized by this permit must be for the beneficial purpose described in this permit;

2. The use must not interfere substantially and materially with existing individual household uses, existing preserved uses, or existing permitted uses;

3. The use is subject to the shortage and emergency powers of the Board of Land and Natural Resources;

4. This permit may be suspended or revoked in accordance with Chapter 166 of Title 13;

5. The permit holder may be required to relinquish this permit at any time or specified time after issuance to the Board of Land and Natural Resources in accordance with Chapter 166 of Title 13;

6. An approved flowmeter(s) must be installed to measure withdrawals; and a record of the withdrawals must be kept and reported to the Department of Land and Natural Resources, Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96809, on a monthly basis.

ADDITIONAL CONDITIONS

1. The term of this permit shall be twenty years from the date of issuance, subject to review and adjustment every five years.

2. The permitted amount of 0.6 mgd may be decreased depending upon the results of the pumping test.

3. The development of the ground water source shall be completed within 24 months from the date of permit issuance.

MICHAIL D. WILSON, Chairperson
Commission on Water Resource Management

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: [Signature] Date: 8-1-97

Printed Name: Todd Symonds Firm or Title: Honolulu Kasairo

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

Attachment
cc: Sogo Hawaii, Inc., c/o Eric T. Kawatani, McCorriston Miho Miller Mukai
Mssrs. Toshio Ishida and Todd Symonds
Honolulu Kosaido, Inc.
dba New Ewa Beach Golf Club
91-050 Ft. Weaver Rd.
Ewa Beach, HI 96706

Dear Mssrs. Ishida and Symonds:

Transfer of Water Use Permits
Well Nos. 1900-22 and 1959-08 (WUP No. 367)
Well No. 1900-21 (WUP No. 170)
Puuloa Ground Water Management Area, Oahu

Thank you for your letter of June 30, 1997, responding to our request for additional information prior to the transfer and issuance of the captioned water use permits.

- We understand that the "overpumpage" was caused by errors in the monthly reporting, and not by actual overpumpage above the respective permitted uses. We further understand that you do not wish to consolidate both permits under a single allocation at this time. To avoid any confusion in the future, please report your monthly pumpage separately for each permitted use using the attached reporting forms.

- We understand that Well No. 1900-16 was inadvertently destroyed during the golf course construction and is now lost. You need not file a Well Abandonment Report.

- We received a facsimile transmittal of a letter from Puuloa Homes, Ltd. (Puuloa Homes) to Honolulu Kosaido, Inc., dated July 1, 1997, stating that Puuloa Homes, which owned a 0.5 percent undivided interest in TMK 9-1-1-30, had believed that its interest in Well Nos. 1959-08 & 1900-22 had been transferred to Sogo Hawaii, Ltd. during previous years. Because the parcel was jointly owned with Sogo Hawaii, Inc., which did submit a timely notice of water use permit transfer, and as we now have the signature of the permittee on record, Puuloa Homes, agreeing to the transfer, we have completed the transfer of the water use permit.

This letter transmits your water use permits for:

1. Dug Wells A & B, Well Nos. 1959-08 & 1900-22 (WUP No. 367) for use of 0.600 million gallons per day (mgd) of water on a 12-month moving average basis. (This permit, which was originally approved for Well No. 1900-16 by the Board of Land and Natural Resources, was modified by letter of the Chairperson of the Commission on Water Resource Management (Commission), dated April 18, 1990, to assign the 0.600 mgd to Dug Wells A & B.)
2. **Puuloa GC Irr Well, Well No. 1900-21 (WUP No. 170)** for use of 0.100 mgd of water on a 12-month moving average basis that was approved by the Commission on February 13, 1991.

   Please be sure to read the permit conditions. If you accept these terms, please sign and return one copy of each permit to the Commission and retain a copy for your record.

   Be advised that, pursuant to Hawaii Administrative Rule 13-168-7, you are required to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report forms. You should make copies of the enclosed report forms as needed.

   Second, Hawaii Administrative Rule 13-13-171-42 requires you to submit a water shortage plan to the Commission within thirty (30) days of the issuance date of this permit. Your water shortage plan simply identifies what you are willing to do should the Commission declare a water shortage situation in the Puuloa Ground Water Management Area and can be as short as a one page letter. In a water shortage situation, the Commission may require temporary reductions in pumpage from all sources. The Commission is required, by law, to formulate a plan to implement such area-wide reductions, which should accommodate, include, and be consistent with your plans. Therefore, your help, by submitting your water shortage plan, is greatly needed in formulating the Commission’s overall Water Shortage Plan.

   We are also notifying you of the May 14, 1997 Commission action for the Puuloa Aquifer System to:

   "**Adopt a sustainable capacity for individual irrigation wells at 1,000 mg/l of chloride as an interim management plan, subject to review within two (2) years and subject to variances on a case-by-case basis.**"

   Pursuant to the above action, if you find that the chlorides in your wells exceed 1,000 mg/l, you must cease pumping. If the chlorides in your wells are already in excess of 1,000 mg/l, you should request a variance from the 1,000 mg/l and provide appropriate justification and any hydrologic or other data to support your requested variance.

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

   Aloha,

   [Signature]

   [Name]

   Chairperson

   Attachments
GROUND WATER USE PERMIT
WUP NO. 367

PERMITTEE

Applicant/Water User                  Landowner of Source
Address  HONOLULU KOSAIDO, INC.                 Address  HONOLULU KOSAIDO, INC.
         91-050 PT. WEAVER RD.
         EWA BEACH, HI 96706

PERMITTED SOURCE INFORMATION

Island                           OAHU
Water Management Area
Aquifer Sector
Aquifer System
System Sustainable Yield
Well Name                      DUG WELLS A & B
State Well No.                  1959-08 & 1900-22

PERMITTED USE INFORMATION

Reasonable beneficial use
Withdrawal (12 month moving ave.)  0.600 mgd
Chloride Cap                     1,000 mg/l
Location of water use
   TMK #                      9-1-01-30
   Address
   State land use classification  NA
   County zoning classification  NA

Pursuant to Hawaii's State Constitution, Article XI, Section 7, Hawaii Revised Statutes, Chapter 174C; Hawaii Administrative Rules, Chapters 13-167 through 13-171; and Hawaii decisional law and custom, the applicant is hereby authorized to use ground water from the sources and in the amount and from and upon the locations described above; subject however, to the requirements of law including but not limited to the following conditions:
GENERAL CONDITIONS (UNDER THE BOARD OF LAND AND NATURAL RESOURCES)

1. The water use authorized by this permit must be for the beneficial purpose described in this permit;

2. The use must not interfere substantially and materially with existing individual household uses, existing preserved uses, or existing permitted uses;

3. The use is subject to the shortage and emergency powers of the Board of Land and Natural Resources;

4. This permit may be suspended or revoked in accordance with Chapter 165 of Title 13;

5. The permit holder may be required to relinquish this permit at any time or specified time after issuance to the Board of Land and Natural Resources in accordance with Chapter 166 of Title 13;

6. An approved flowmeter(s) must be installed to measure withdrawals; and a record of the withdrawals must be kept and reported to the Department of Land and Natural Resources, Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96809, on a monthly basis.

ADDITIONAL CONDITIONS

1. The term of this permit shall be twenty years from the date of issuance, subject to review and adjustment every five years.

2. The permitted amount of 0.6 mgd may be decreased depending upon the results of the pumping test.

3. The development of the ground water source shall be completed within 24 months from the date of permit issuance.

MICHAEL D. WILSON, Chairperson
Commission on Water Resource Management

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: ______________________________ Date: ______________________________

Printed Name: ______________________________ Firm or Title: ______________________________

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

Attachment
cc: Sogo Hawaii, Inc., c/o Eric T. Kawatsani, McCorriston Miho Miller Mukai
July 2, 1997

Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, Hawaii 96809

Attn: Ms. Lenore Nakama

Re: Request for Transfer of Water Use Permits
Puuloa Ground Water Management Area,
Oahu/Sogo Hawaii, Inc./Honolulu Kosaido, Inc.

Dear Ms. Nakama:

Thank you for your telephonic message this morning. I understand that all matters in the letter dated June 13, 1997, from Rae M. Loui have been addressed, and that no further action is required from Sogo Hawaii, Inc. Thank you again for your help.

Very truly yours,

[Signature]

Eric T. Kawatani

ETK/ti
cc: Sogo Hawaii, Inc.
Ms. Rae Loui  
Commission on Water Resource Management  
Department of Land and Natural Resources  
P. O. Box 621  
Honolulu, Hawai'i 96829

Dear Ms. Loui:

Water Use Permit for the Maui'uma'u Beach Golf Club

Your letter of June 13th asked us to respond to three issues regarding our water use permits. Our responses are presented below. I would also like to state at the outset that we do not wish to combine our permits of 0.100 MGD for Well 1900-21 and 0.600 MGD for Wells 1959-08 and 1900-22 into a single permit. As will be explained below, pumpage has not exceeded these permits individually, although we've made some errors in our monthly reports.

1. Pumpage of Well 1900-21 (Drilled) and Wells 1959-08 and 1900-22 (Dug). The apparent over-pumpage of Well 1900-21 cited in your letter is the result of several errors in the monthly reports we submitted, not an actual over-pumpage. Although these have been discussed with your staff, we would like to formally correct these here. For three months -- July 1994, June 1996, and October 1996 -- the pumpage amounts for the wells were reversed in our reports. The amounts reported for Well 1900-21 were actually for Wells 1959-08 and 1900-22 and vice versa. In fact, it would not have been physically possible to have pumped these amounts for Well 1900-21 since it is outfitted with a 280 GPM pump. For three other months -- July, August, and September of 1996 -- the pumpage was reported as a single amount, all of which was attributed to Well 1900-21. Again, these amounts far exceed the capacity of the pump in Well 1900-21. We apologize for these errors and the inconvenience they may have caused.

On the enclosed graphs, monthly and 12-month moving average of pumpage for both well pumps have been plotted with the corrected amounts as indicated above. For the three months in 1996 when only the combined pumpage is available, an average of 0.100 MGD was attributed to Well 1900-21 and the balance to the much larger pump station at Wells 1959-08 and 1900-22. As you can see, while summertime pumpage does exceed the 0.100 and 0.600 MGD allocations, the 12-MAV has always been less than these limits. For this reason, and to retain the present status of our two permits, we do not wish to consolidate them.
2. Information on Well 1900-16. Your staff has indicated that filling out a well abandonment report will not be necessary and we appreciate your quick response on this. Information we have gathered indicates that Well 1900-16 was an 8-inch test well drilled by Puuloa Homes in 1988, prior to the start of the golf course's construction. It was pump tested for four hours and, to the best of our knowledge, never used after that. Although its exact location is not known, it was in the general area of our present dug wells 1959-08 and 1900-22 which are located between the 10th, 14th, and 15th holes of the golf course. Well 1900-16 was inadvertently destroyed during the golf course's construction. No trace of its PVC casing or 12-inch borehole can be found today.

3. Transfer of Ownership of TMK 9-1-1:30. Mr. Aaron Yoo, corporate lawyer for Honolulu Kosaido, has contacted Mr. Eric Kawakami to provide the information you requested regarding Sogo Hawaii, Inc.'s acquisition of TMK 9-1-1:30 prior to selling it to Honolulu Kosaido. Hopefully, the information will be submitted to you soon.

At its May 14th meeting, the Commission adopted the requirement of weekly chloride analyses and a chloride limit of 1000 MG/L. We have instituted weekly chloride sampling and have enclosed a copy of our results to date. These data will be submitted hereafter with our regular monthly reports. As will be evident from these results, as well as from previous periodic sampling done by your staff, neither our drilled well (1900-21) nor our dug wells (1959-08 and 1900-22) can meet the 1000 MG/L chloride limit. For this reason, we request that a waiver of the chloride cap be granted for our wells.

Finally, although it is our understanding that our permanent water use permits do not obligate us to use effluent from the City's Honolulu Wastewater Treatment Plant, we are interested in utilizing this source if its cost is economically feasible. We have recently met with the Department of Wastewater Management and will continue to participate in this process.

I hope the foregoing information adequately responds to your June 13th request, clears up the omissions in our reporting, and brings you up to date on our current plans regarding irrigation supply. Feel free to contact me or Brian Kaulupali (889-3342) if you have further questions.

Sincerely,

Todd Symonds

Enclousures
MEMORANDUM

TO: Brian Kautupali - New Ewa Beach International Golf Club
FROM: Tom Nance
SUBJECT: Weekly Chloride Concentrations Through June 27, 1997

<table>
<thead>
<tr>
<th>Year</th>
<th>Day</th>
<th>Chloride Levels (MG/L)</th>
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Enclosure
Honolulu Kosaido, Inc.
dba New Ewa Beach Golf Club
91-050 Ft. Weaver Rd.
Ewa Beach, HI 96706
Phone: 808-689-8351 Fax: 808-689-4208

FAX TRANSMISSION COVER SHEET

Date: 7-1-97
To: Rae M. Loui DEPUTY DIRECTOR, COMMISSION ON WATER RESOURCE MANAGEMENT
Fax: 587-0219
Re: NEW EWA BEACH GOLF CLUB
Sender: Todd Symonds

YOU SHOULD RECEIVE PAGE(S), INCLUDING THIS COVER SHEET.
IF YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL 808-689-8351.

To follow is information in regards to the issues we have here at the New Ewa Beach Golf Club. I hope these letters will help clarify some of the past issues.

Sincerely,
Todd Symonds
PGA Head Professional
July 1, 1997

Mr. Todd Symonds, PGA
Honolulu Kosaido, Inc.
c/o New Ewa Beach Golf Club
91-050 Fort Weaver Road
Ewa Beach, Hawaii 96706

Dear Todd:

Re: Assignment of Interest in Well Permits/Ewa Beach Golf Course

Based upon discussions with you and a letter from Rae M. Loui, Deputy Director, Commission on Water Resource Management, Department of Land and Natural Resources, State of Hawaii, we understand that Pualoa Homes, Ltd. is listed as the permittee and land owner for Wells No. 1900-22 and No. 1959-08, the two dug wells that have been replaced by Well No. 1900-16 under WUP No. No. 367.

Pualoa Homes, Ltd. had believed that its interest in these wells had been transferred to Sogo Hawaii, Inc. during previous years. As you are aware, Pualoa Homes, Ltd. owned a 0.5 percent undivided interest in Tax Map Key 9-1-1-30, prior to transferring its interest to Honolulu Kosaido, Inc. in April 1997.

The purpose of this letter is inform you that Pualoa Homes, Ltd. no longer requires the retention of any rights related to wells with respect to the New Ewa Beach Golf Course. Upon request, Pualoa Homes, Ltd. will be pleased to sign any appropriate agreements regarding the transfer of such wells related to the New Ewa Beach Golf Course to Honolulu Kosaido, Inc.

Thank you for your continued assistance.

Sincerely,

PUULOA HOMES, LTD.

[Signature]
William J. Dornbush
President

WJD:gf
pc: Eric Kawatani, Esq., McCrissom Miho Miller & Mukai

TOTAL P. 02
PUULOA HOMES, LTD.
3660 Waialae Avenue, Suite 418
Honolulu, Hawaii 96816
Tel (808) 734-5279
Fax (808) 734-5964

To: Todd Symonds, PGA
Fax No.: 689-4208
Company: Honolulu Kosaido
From: Bill Dornbush

Copy by Fax: Eric Kawatani, McCorriston Miho Miller & Mukai @ 524-8293

Message:

No. of Pages (including this cover sheet): 2
Date Sent: July 1, 1997
Original to follow via mail.
If there are any problems with this transmission, please call: (808) 734-5416 immediately.
Ms. Rae Loui  
Commission on Water Resource Management  
Department of Land and Natural Resources  
P. O. Box 621  
Honolulu, Hawaii  96809  

Dear Ms. Loui:

Water Use Permits For the New Era Beach Golf Club

Your letter of June 13th asked us to respond to three issues regarding our water use permits. Our responses are presented below. I would also like to state at the outset that we do not wish to combine our permits of 0.100 MGD for Well 1900-21 and 0.600 MGD for Wells 1959-08 and 1900-22 into a single permit. As will be explained below, pumpage has not exceeded these permits individually, although we’ve made some errors in our monthly reports.

1. **Pumpage of Well 1900-21 (Original) and Wells 1959-08 and 1900-22 (Dup.).** The apparent over-pumpage of Well 1900-21 cited in your letter is the result of several errors in the monthly reports we submitted, not an actual over-pumpage. Although these have been discussed with your staff, we would like to formally correct these here. For three months — July 1994, June 1996, and October 1996 — the pumpage amounts for the wells were reversed in our reports. The amounts reported for Well 1900-21 were actually for Wells 1959-08 and 1900-22 and vice versa. In fact, it would not have been physically possible to have pumped these amounts for Well 1900-21 since it is outfitted with a 280 GPM pump. For three other months — July, August, and September of 1996 — the pumpage was reported as a single amount, all of which was attributed to Well 1900-21. Again, these amounts far exceed the capacity of the pump in Well 1900-21. We apologize for these errors and the inconvenience they may have caused.

On the enclosed graphs, monthly and 12-month moving average of pumpage for both well pumps have been plotted with the corrected amounts as indicated above. For the three months in 1996 when only the combined pumpage is available, an average of 0.100 MGD was attributed to Well 1900-21 and the balance to the much larger pump station at Wells 1959-08 and 1900-22. As you can see, while summertime pumpage does exceed the 0.100 and 0.600 MGD allocations, the 12-MAV has always been less than these limits. For this reason, and to retain the present status of our two permits, we do not wish to consolidate them.
2. **Information on Well 1900-18.** Your staff has indicated that filling out a well abandonment report will not be necessary and we appreciate your quick response on this. Information we have gathered indicates that Well 1900-18 was an 8-inch test well drilled by Pualoa Homes in 1968, prior to the start of the golf course's construction. It was pumped for four hours and, to the best of our knowledge, never used after that. Although its exact location is not known, it was in the general area of our present dug wells 1908-09 and 1900-22 which are located between the 10th, 14th, and 16th holes of the golf course. Well 1900-18 was inadvertently destroyed during the golf course's construction. No trace of its PVC casing or 12-inch borehole can be found today.

3. **Transfer of Ownership of TMK 9-1-1:30.** Mr. Aaron Yoo, corporate lawyer for Honolulu Kosaido, has contacted Mr. Eric Kawakami to provide the information you requested regarding SoGo Hawai'i, Inc.'s acquisition of TMK 9-1-1:30 prior to selling it to Honolulu Kosaido. Hopefully, the information will be submitted to you soon.

   At its May 14th meeting, the Commission adopted the requirement of weekly chloride analyses and a chloride limit of 1500 MGL/L. We have instituted weekly chloride sampling and have enclosed a copy of our results to date. These data will be submitted hereafter with our regular monthly reports. As will be evident from these results, as well as from previous periodic sampling done by your staff, neither our drilled well (1900-21) nor our dug wells (1908-09 and 1900-22) can meet the 1500 MGL/L chloride limit. For this reason, we request that a waiver of the chloride cap be granted for our wells.

   Finally, although it is our understanding that our permanent water use permits do not obligate us to use effluent from the City's Honolulu Wastewater Treatment Plant, we are interested in utilizing this source if its cost is economically feasible. We have recently met with the Department of Westwater Management and will continue to participate in this process.

I hope the foregoing information adequately responds to your June 19th request, clears up the errors in our reporting, and brings you up to date on our current plans regarding irrigation supply. Feel free to contact me or Brian Kaulupali (688-3342) if you have further questions.

Sincerely,

[Signature]

Todd Symonds

Enclosures
NEW EWA BEACH GOLF CLUB
PUMPAGE OF WELL 1890-31 (DRILLED WELL)

MONTHLY AVERAGE    12-MONTH MOVING AVE
MEMORANDUM

TO: Brian Kautupai - New Ewa Beach International Golf Club

FROM: Tom Nance

SUBJECT: Weekly Chloride Concentrations Through June 27, 1997

<table>
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<th>Year</th>
<th>Day</th>
<th>Chloride Levels (MG/L)</th>
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<td>1170</td>
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Enclosure
Mssrs. Toshio Ishida and Todd Symonds  
Honolulu Kosaido, Inc.  
dba New Ewa Beach Golf Club  
91-050 Ft. Weaver Road  
Ewa Beach, HI 96706

Dear Mssrs. Ishida and Symonds:

Request for Transfer of Water Use Permits  
Well Nos. 1900-21 (WUP No. 170) & 1900-16  
Puualoa Ground Water Management Area, Oahu

We acknowledge receipt, on May 1, 1997, of your request to transfer the water use permits for Well Nos. 1900-21 & 1900-16 from Sogo Hawaii, Inc. to Honolulu Kosaido, Inc., effective April 30, 1997. However, we request that you respond to the following issues prior to transfer and issuance of the water use permits:

1. Our review of your pumpage data shows that actual pumpage at Dug Wells A & B (Well Nos. 1900-21 & 1959-08) has been consistently less than the 0.600 mgd allocation for the wells for about the last four (4) years. However, pumpage at Puualoa GC Irr Well (Well No. 1900-21) is currently exceeding the 0.100 mgd allocation (see attached graphs). We understand that all three (3) sources are located at the New Ewa Beach Golf Club (EBIGC) for the golf course irrigation supply. We propose that the allocations be combined under a single water use permit that would supersede the two (2) existing water use permits (WUP Nos. 170 and 367). This would allow you to have flexibility in pumping the wells and would avoid overpumpage violations at Well No. 1900-21 in the future. Be advised that the staff would recommend that the Commission approve and issue a new interim permit for the three (3) sources, subject to the standard conditions and any special conditions that may be attached to caprock wells. If you are amenable to this proposal, the staff would recommend that the Commission not pursue the current overpumpage at Well No. 1900-21 as a violation subject to fines. If you would like to proceed in this manner, please complete and return the enclosed water use permit application to modify the permit to cover all three (3) wells under a single allocation for 0.700 mgd.
2. Our record shows that Well No. 1900-16 is unused and abandoned. Please complete and return the attached Well Abandonment Report for Well No. 1900-16.

3. Our record shows that Puuloa Homes, Ltd. is listed as the permittee and landowner for Well Nos. 1900-22 and 1959-08, the two dug wells that have replaced Well No. 1900-16 under WUP No. 367. If Sogo Hawaii, Inc. had obtained full interest in the parcel (TMK 9-1-1:30) prior to selling it to Honolulu Kosaido, Inc., please establish the effective date for the transfer of the dug wells from Puuloa Homes, Ltd. to Sogo Hawaii, Inc.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

RAE M. LOUI
Deputy Director

LN:ss
Enclosures

c: Eric T. Kawatani, McCroriston Miho Miller Mukai
Commision on Water Resource Management 97 MAY 1 11: 00
P.O. Box 621
Honolulu, Hawaii 96809

Re: Request for Transfer of Water Permit Nos. WUP 170 for Well No. 1900-21 and
Unnumbered Permit for Well No. 1900-16.
Transferor: Sogo Hawaii, Inc.
Transferee: Honolulu Kosaido, Inc.

Dear Sirs:

This is a request for the transfer of the above-referenced water permits more described in
the attached copies, from the current permit holder, Sogo Hawaii, Inc. to Honolulu Kosaido, Inc.
Sogo Hawaii, Inc. is transferring all its interests in the property related to the said permits and
therefore, requests the transfer of the aforesaid permits to Honolulu Kosaido, Inc. effective as of
April 30, 1997.

Please send the new permit and copies to:

Eric T. Kawatani
McCorriston Miho Miller Mukai
P.O.Box 2800
Honolulu, Hawaii 96803-2800

Very truly yours

ACKNOWLEDGED:
HONOLULU KOSAIDO, INC.

By: Takahiro Ishida
Its: Secretary and Treasurer

SOGO HAWAII, INC.

By: [Signature]
Its: Attorney-in-fact
GROUND WATER USE PERMIT
WUP NO. 170

PERMITTEE
Applicant/Water User
Address: SOGO HAWAII INC.
91-153 NORTH ROAD
EWA BEACH, HI 96706

Landowner of Source
Address: SOGO HAWAII INC.
91-153 NORTH ROAD
EWA BEACH, HI 96706

PERMITTED SOURCE INFORMATION
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<th>Island</th>
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<tr>
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<td>Well Name</td>
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<td>State Well No.</td>
<td>1900-21</td>
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</table>

PERMITTED USE INFORMATION
Reasonable beneficial use: GOLF COURSE IRRIGATION
Withdrawal (12 month moving ave.): 0.100 mgd
Location of water use
| TMK # | 9-1-31-30 |
| State land use classification | NA |
| County zoning classification | NA |

Pursuant to Hawaii's State Constitution, Article XI, Section 7, Hawaii Revised Statutes, Chapter 174C; Hawaii Administrative Rules, Chapters 13-167 through 13-171; and Hawaii decisional law and custom, the applicant is hereby authorized to use ground water from the sources and in the amount and from and upon the locations described above; subject however, to the requirements of law including but not limited to the following conditions:
1. The water authorized by this permit shall be for the reasonable-beneficial use described in this permit.

2. The use shall not adversely affect existing or future legal uses in the area. The Commission may reduce the amount initially granted should long-term pumpage interfere with existing or future legal uses.

3. Though no immediate adverse impacts are expected, the continued use of water from the Caprock Aquifer in the future is dependent upon continued recharge to the aquifer. In the event the resource becomes too saline to be used, the permit may be modified.

4. Modification of any permit condition shall be approved by the Commission.

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

6. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage on a monthly basis.

7. This permit may be revoked if work is not started within six months of the date of issuance or if work is suspended or abandoned for six months. The work proposed in the permit application shall be completed within 24 months from the date of permit issuance.

The issuance of this permit was approved by the Commission on Water Resource Management at its meeting on February 13, 1991.

[Signature]
MICHAEL Q. WILSON, Chairperson
Commission on Water Resource Management

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: [Signature] Date: 1/2/97

Printed Name: Tim Caunter  Firm or Title: General Manager

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

Attachment
DEPARTMENT OF LAND AND NATURAL RESOURCES

PERMIT

TO WITHDRAW AND USE GROUND WATER

Applicant: Puuloa Homes, Ltd.  Application Date: 1/25/88
Address: 745 Fort St., Suite 311, Honolulu, Hawai‘i 96813
Ground Water Control Area: Pearl Harbor  Subarea: Caprock
Well(s) Name: Puuloa Homes Caprock Well  State Well No.(s): 1900-16
Amount of Withdrawal: (Average Annual) 0.6 mgd
Beneficial Purpose of Withdrawal: Golf course irrigation
Area or Projects Served: Puuloa Homes, Ewa

The applicant is hereby granted a permit to withdraw and use ground water from the source identified above, in accordance with Chapter 177, HRS, Administrative Rule, Chapter 166 of Title 13; and the following:

General Conditions. (1) the water use authorized by this permit must be for the beneficial purpose described in this permit; (2) the use must not interfere substantially and materially with existing individual household uses, existing preserved uses, or existing permitted uses; (3) the use is subject to the shortage and emergency powers of the Board of Land and Natural Resources; (4) this permit may be suspended or revoked in accordance with Chapter 166 of Title 13; (5) the permit holder may be required to relinquish this permit at any time or specified time after issuance to the Board of Land and Natural Resources in accordance with Chapter 166 of Title 13; (6) an approved Downtester(s) must be installed to measure withdrawals; and a record of the withdrawals must be kept and reported to the Department of Land and Natural Resources, Division of Water and Land Development, P.O. Box 371, Honolulu, Hawai‘i 96809, on a monthly basis.

Additional Conditions.

1. The term of this permit shall be twenty years from the date of issuance, subject to review and adjustment every five years.

2. The permitted amount of 0.6 mgd may be decreased depending upon the results of the pumping test.

3. The development of the ground water source shall be completed within 24 months from the date of permit issuance.

The issuance of this permit was approved by the Board of Land and Natural Resources at its meeting on February 26, 1988

Chairperson of the Board

Date of Issuance:
MR. TIM CANUTE
Sogo Hawaii, Inc.
91-1153 North Road
Ewa Beach, HI 96706

Dear Mr. Canute:

Water Use Permit for Well No. 1900-21
Punaloa Ground Water Management Area, Oahu

In response to your recent request, we are transmitting the water use permit that was issued by the Board of Land and Natural Resources for Punaloa Ranch Caprock Well (Well No. 1900-16) for use of 0.6 million gallons per day (mgd) of water on a 12-month moving average basis. This permit was modified by letter of the Chairperson of the Commission of Water Resources Management (Commission), dated April 18, 1990 (attached). This assigns the 0.600 mgd to dug wells (lakes) 1900-22 and 1959-08.

This letter also transmits your water use permit for Punaloa Golf Course Irrigation Well (Well No. 1900-21) for use of 0.100 of water on a 12-month moving average basis that was approved by the Commission on February 13, 1991. We apologize for this late transmittal of the official permit document.

Enclosed with this letter of approval are the following:

1. Your water use permit
2. Your official monthly water use report form

Please be sure to read the conditions of your approved permit. If you accept these terms, please sign and return one copy of this permit to the Commission and retain a copy for your record.

Be advised that, pursuant to Administrative Rule 13-168-7, you are required to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report form. You should make copies of the enclosed report form as needed.

You are also required to submit a water shortage plan to the Commission. We request that you submit the water shortage plan within thirty (30) days of the date of this letter. Your water shortage plan simply identifies what you are willing to do should the Commission declare a water shortage situation in the Ewa Caprock Ground Water Management Area and can be as short as a one page letter. In a water shortage situation, the Commission may require temporary reductions in pumpage from all sources. The Commission is required, by law, to formulate a plan to implement such area-wide reductions, which should accommodate, include, and be consistent with your plans. Therefore, your help, by submitting your water shortage plan, is greatly needed in formulating the Commission's overall Water Shortage Plan.

If you have any questions, please call Rae M. Loui, Deputy Director, at 587-0214.

Aloha,

[Signature]

for:  
MICHAEL D. WILSON
Chairperson
Mr. Tim Canute  
Sogo Hawaii, Inc.  
c/o Ewa Beach International Golf Club  
91-1153 North Road  
Ewa Beach, HI 96706

Dear Mr. Canute:

Thank you for submitting your water shortage plan for WUP No. 170 (for Well No. 1900-21 for 0.100 mgd) and for WUP No. 367 (for Well Nos. 1900-22 and 1959-08 for 0.600 mgd). We assume that the percent reductions outlined in your shortage plan will apply to both permits on a pro-rata basis in the event that a water shortage is declared. If this is not the case, we request that you submit separate water shortage plans for each of your permits.

A review of your pumpage data shows that actual pumpage at Dug Wells A & B (Well Nos. 1900-21 & 1959-08) has been consistently less than the 0.600 mgd allocation for the wells for about the last four (4) years. However, pumpage at Puuloa GC Irr Well (Well No. 1900-21) is currently exceeding the 0.100 mgd allocation (see attached graphs). We understand that all three (3) sources are located at the Ewa Beach International Golf Club (EBIGC) for the golf course irrigation supply. We propose that the allocations be combined under a single water use permit that would supersede the two (2) existing water use permits (WUP Nos. 170 and 367). This would allow you to have flexibility in pumping the wells and would avoid overpumpage violations at Well No. 1900-21 in the future. Be advised that the staff would recommend that the Commission approve and issue a new interim permit for the three (3) sources, subject to the standard conditions and any special conditions that may be attached to caprock wells. If you are amenable to this proposal, the staff would recommend that the Commission not pursue the current overpumpage at Well No. 1900-21 as a violation subject to fines. Please obtain the signatures of all current landowners/permittees to show that all pertinent parties are not opposed to such action.

We are planning to submit recommendations on Ewa Caprock actions at the next Oahu meeting of the Commission on Water Resource Management, which is scheduled for May 14, 1997. As such, we request your response to this letter within twenty (20) days.
In addition, we have received your letter of April 1, 1997, informing us that Sogo Hawaii Inc. will be selling EBIGC to the Honolulu Kosaido Group (proposed effective date, April 30, 1997). Please be advised that §13-171-25 HAR provides for the transfer of a water use permit if:

(1) The conditions of use of the permit including, but not limited to place, quantity, and purpose of the use remain the same; and
(2) The commission is informed of the transfer within ninety days.

Failure to inform the Commission of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. As such, please be sure to transfer the water use permit within ninety (90) days of the effective date of the transfer. A transfer may be made simply by submitting a letter which establishes the effective date of the transfer and contains the signatures of both the current and future permittees.

If you have any questions regarding the above, please contact Lenore Nakama at 587-0218.

Also, we are sorry to hear that you will no longer be with EBIGC. We would like to wish you success in your future endeavors. It has been a pleasure working with you.

Sincerely,

[Signature]

RAE M. LOUI
Deputy Director

LN:ss
Attachments
To: Commission on Water Resource Management

From: Ewa Beach International Golf Club

Subject: Water Shortage Plan for the Golf Club

This proposed water shortage plan was formulated to cooperate with the Commission on Water Resource Management (CWRM) in the event of a water shortage for the island of Oahu. The plan calls for 10% voluntary reduction during periods of extended dry weather. If the dry weather persists and the CWRM is forced to impose mandatory water restrictions, the daily water usage could be reduced by 30%. This reduction could cause some turf damage at an acceptable level. During extreme conditions the usage could be reduced to 50% of our allocation. This reduction would cause considerable turf loss if it persisted for more than a two week period. Some areas of the fairways and roughs would eventually necessitate re-planting due to damage caused by these conditions. The resulting brown turfgrass would require a minimum of a few months in order to green up to acceptable levels.

One of the ways to minimize damage to the turfgrass under these conditions would be to reduce the number of rounds of golf played. However, this action would have a detrimental economic effect on golf course operations.

**Current Use Plan**

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**Water Shortage Plan**

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</table>
February 21, 1997

Mr. Tim Canute
Sogo Hawaii, Inc.
c/o Ewa Beach International Golf Club
91-1153 North Road
Ewa Beach, HI 96706

Dear Mr. Canute:

Thank you for meeting with the Commission on Water Resource Management (Commission) staff on February 12, 1997. Again, we appreciate the group's efforts to work towards a plan that is mutually agreeable to all users. Your work has allowed us to identify key elements for a plan that addresses users' needs, while meeting the statutory objectives set forth in Chapter 174C, HRS.

As discussed at the meeting, we are planning to recommend that the Commission adopt the management approach outlined in the attached draft plan (Exhibit 1). If you find that certain aspects of the plan do not/should not apply to your current use(s) and/or proposed future use(s), you may request a variance to the proposed plan. Please provide appropriate justification and any hydrologic or other data to support your requested variance.

In order to implement the proposed management plan, the following required information and actions are needed from Hawaii Prince:

1. Water shortage plans for WUP Nos. 170 and 367 that outline how water usage will be reduced in the event of a shortage. We request that you quantify the reduction in water use that may be sustained during a declared water shortage and provide a brief description of how you plan to effect such a reduction. (The State Water Code requires the Commission to formulate a comprehensive area-wide water shortage plan that will be implemented during periods of water shortage. We appreciate any input you may provide towards deriving some plan for a water shortage situation that shall be adopted by the Commission.)

2. Your response to our January 12, 1997 review comments relating to EBIGC's permitted uses (Exhibit 2).
We are planning to submit recommendations to the Commission at the March 12, 1997 meeting to adopt the Puuloa, Kapolei, and Malakole Aquifer System boundaries (Exhibit 3) and to adopt a 1,000 mg/l chloride cap for individual wells instead of a sustainable yield number. We plan to recommend that the Commission require that any new permit adhere to the attached chloride sampling protocol (Exhibit 4). Recommendations on an allocation plan will be made at a following meeting.

We ask that you submit the items and information requested above by March 10, 1997. Your comments on the proposed management plan are encouraged.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

RAE M. LOUI
Deputy Director

LN:ju
Attachments
State of Hawaii
Department of Land and Natural Resources
COMMISSION ON WATER RESOURCE MANAGEMENT

February 12, 1997
EWA CAPROCK MANAGEMENT

1. Reclaimed water is the only way to address the overallocation problem. In addition, reclaimed water must supply some future needs since the forecasted usage of nonpotable water by users in the Pualoa Aquifer System will be at least 10 mgd by 2001, exceeding the caprock availability. We assume that there is a commitment by the users to utilize reclaimed water to meet some of these needs. We are also assuming 2.0 mgd of R-1 will come in to supplement the caprock by July 1, 1998, and 4.0 mgd by July 1999. The situation will be reevaluated at that time.

2. Boundaries for three aquifer systems will be adopted.

3. Instead of a sustainable yield number, protection and management of caprock water quality will be by chloride standards for individual wells based on pump test or historic data.

4. Applicants for new usage can apply for well construction permits first. Based on the pump test, set the pump size and chloride cap and check reasonable-beneficial quantity. The Pump Installation and Water Use Permits can be applied for after that.

5. Agricultural permit holders will be asked to provide information on remaining agricultural acreage and to conduct a pump test according to a protocol established by the Commission.

6. Permit amounts for four years of non-use will be revoked.

7. Unused one-year interim Water Use Permits will not be renewed. Applicants can reapply when the usage is imminent.

8. Permits will be issued for remaining one-year interim Water Use Permits for a term to expire upon completion of the R-1 facility in July 1998 or soon thereafter. A condition of the permits will be that Gentry, Haseko, HPGC, and EBIGC negotiate and enter into further definite agreements regarding the purchase of reclaimed water according to the table on page 27 of the PCUG Report.

9. The Commission will formulate a water shortage plan for implementation during periods of water shortage. The plan will be prepared by aquifer system and propose restrictions on one or more classes of permits.

10. The City WWM will provide to the Commission, as a means to track the progress of the R-1 facility, the quarterly reports that are submitted to the Dept. of Health.

EXHIBIT I
TO: PCUG Members

FROM: Rae M. Loui, Deputy Director
Commission on Water Resource Management

SUBJECT: Comments on the Draft Puuloa Nonpotable Water Master Plan, January 22, 1997

Based on a preliminary review of the subject report, we have the following comments:

- Pg. 2, para 3 - refers to development projects which have immediate need but no necessary water use permits. It would be helpful to list and quantify these unmet specific project water needs.

- Pg. 4 - The list of PCUG members doesn't include the State, yet the signature page shows HFDC. On Table 1, only the State's Puuloa Mauka lands are represented, what about the rest of the state's interests in Puuloa?

- Pg. 5 - Users/potential users who are NOT part of PCUG include Ewa Villages, West Loch Golf Courses, and Campbell Estate but:

How can PCUG commit to conversion of the City Golf Courses (1.8 mgd) by 7/99 (pg. 1) if the City golf courses aren't part of PCUG?

How can the plan state that Table 1 is comprehensive in terms of demand projections (pg. 3) if Campbell Estate, which owns considerable undeveloped lands, is not participating? How was the demand for Campbell lands estimated?

- Pg. 5 - What is the basis for excluding all Gentry wells & the USFWS from the commitment? What are they exempted from, the sharing in the cost of reclaimed water? We need a rational basis for the exemptions because other users may also want to be exempt. Pg. 28 states that 9 Gentry wells are excluded from the requirements of R-1 water delivery, but must comply & conform to all other requirements of the Master Plan. Then shouldn't these users be part of PCUG?

- Pg. 7, Exhibit B (well location), & Table 2 - the FGE & BC monitor well locations are described but not shown on map (exhibit 2).

- Pg. 21 - Was the Notice to Proceed issued in 12/96?

- Pg. 21 - If the capital costs for the R-1/R-2 facility upgrade will be financed through DWM's CIP, should this information be included as an appendix?
EWABEACH
International Golf Club

TIM CANUTE
General Manager

Telephone: (808) 689-8351
Facsimile: (808) 689-4208

91-050 Fort Weaver Road
Ewa Beach, Hawaii 96706
Memo to PCUG Members

Pg. 19 - states small scale demonstration projects for both direct and indirect use will proceed, but the last sentence on pg. 22 states that a demonstration aquifer recharge will be "evaluated to serve as an alternative to the R-1/R-2 facility".

Pg. 26, 3rd paragraph - A correct statement would be that "the CWRM has indicated that a commitment to reclaimed water is the only means by which the over-allocation problem may be resolved, short of ratcheting back allocations in the caprock".

Pg. 27, 2nd table:

Which Gentry wells will be converting to R-1 (so we can specify the duration of these interim permits to coincide with the availability of R-1 water)?

Gentry shows a commitment to convert to 0.72 mgd by 2001, yet Table 1 shows 2001 projected need for 1.6 mgd; does this mean that the difference, 0.88 mgd (an increase of 0.278 mgd over current allocation) will be supplied from the caprock? from which wells?

Haseko shows commitment to convert to 0.80 mgd by 2001, while Table 1 shows an ultimate demand for 2.0 mgd in the caprock, does that mean that 2.96 mgd (4.16 - 1.2) can be revoked in 2001? and 2.16 can be revoked immediately?

For HPGC & EBIGC, is it reasonable to use this table as a schedule for caprock allocation reductions? Which EBIGC allocation to reduce?

Pg. 28, 2nd paragraph - How will Gentry manage transfers in the future if the Homeowners Associations are not part of this plan or group? Also, are commitments permanent or temporary?

Pg. 28, 3rd paragraph - We have concerns regarding this disclaimer, which holds the City to the financing and construction schedule.

Pg. 28, B. - "commits" the City Golf Courses to using R-1 in 2000-2001, but pg. 5 stated that the City Golf Courses are not part of PCUG.

Pg. 29, Table:

There is a discrepancy in the City golf course conversion: pg. 1 states both courses will convert (1.8 mgd) by 7/99, but the table on pg. 29 shows only 1.5 mgd conversion by 7/99 (is this 1.0 for WWTP and only 0.5 for golf courses?)

Also, the total City usage is 2.8 mgd (1.0 for WWTP & 1.8 for courses), yet there is only a commitment for 2.0 mgd.

Pg. 29, Navy lands:

BPNAS is still in negotiations. If they commit to 0.7 mgd R-1, then a statement to the effect that the allocation for Barbers Pt. shaft be reduced by 0.7 mgd should also amend this plan.

Since Solenberger's lease went through, does this mean the Navy's Ag lands won't be using any reclaimed water?
Memo to PCUG Members

Page 3

FEB 12 1997

USFWS exemption is further clarified, i.e., no commitment to R-1 delivery, but what about cost-sharing for the recharged caprock aquifer? Also, if water needs are NOT salinity dependant can the USFWS use west loch ocean water or modify the existing caprock source to lessen impact on brackish lens?

- Pg. 30, para 3 - What does 'all caprock users' mean for those sharing in the reclaimed water cost - non-PCUG members too? Future caprock users?

- Pg. 32 para. 5 - It should be made clear that managing at the well head (i.e., pumped water from caprock alone) is subject to any standard chloride limit and NOT some mix of caprock water and reclaimed water.

- Pg. 33 - There is still no clear resolution of the over-allocation. The plan suggests that the CWRM must continually juggle (via written agreements?) the 15 mgd permitted use with individual users actual needs. We find this proposal to be unduly burdensome. In addition, we are concerned that the current group members may change over time.

- Pg. 34 - states "all nonpotable users in the Puuloa sector" (whether they are part of PCUG or not?) shall contribute to the balance of the development cost if the total development cost of the R-1 effluent pipeline distribution system exceeds available Consent Decree funds. Are nonmembers of PCUG, the Navy (pg. 36), Gentry Homeowners, and USFS exempt from this provision also?

- Pg. 34 - Gentry plans to increase usage by 1 mgd in two years, but given their past record (actual use is only 0.3 mgd), is it possible to juggle Gentry's current allocations (0.602 mgd) to cover the next 2 years? We reiterate listing projects which do not have necessary water use permits.

- Pg. 35 - The agreements not to pump will have to specify no pumpage until re-use replaces caprock allocations.

- Pg. 36 - Didn't Solenberger's lease go through? If so, the plan needs to be amended already (proposing a 7 mgd pumping limit?).

- Pg. 37 - The allocation plan (Table 8) is only looking to ending of 1998. There is still no clear resolution of the over-allocation situation.

- Pg. 39 - Has Campbell agreed to the phasing out of it's agricultural allocation?

- Doesn't look like the 309 consent decree will be met.

- City signature - who is ultimately responsible, the mayor?

- Need to clarify Gentry's option to purchase Campbell land.
GUIDELINES FOR CHLORIDE CONCENTRATION SAMPLING FOR EWA CAPROCK

1. Sample Collection

   • Sampling Schedule

      The sampling schedule depends upon your pump capacity:

      | Pump Capacity (gpm) | Sampling Schedule |
      |--------------------|-------------------|
      | Less than or equal to 50 | Once a month     |
      | Greater than 50       | Once a week       |

   • When to Sample

      Before taking a sample, allow a minimum length of time to elapse after turning on the pump. This minimum time can be read off the attached table for your well casing diameter and your pump capacity. If you sample 20 minutes after the minimum time, you should consistently sample 20 minutes after the minimum time each time you take samples.

   • Sample Bottle

      Use a plastic container and cap that holds a volume of about a pint. Rinse the container three times with the water to be sampled before taking the sample. Also rinse the cap with sample water.

   • Labeling

      On the sample bottle, affix a label that contains the following information:

      Well No.
      Date
      Time Sampled
      Elapsed Time after pump on
      Sampler's Name
      Water Temperature (if available)
      Pumping Rate (prior to sampling)
2. Determination of Chloride Concentration

• Private Laboratories

If the sample is sent to a private laboratory, then prepare the water sample and label the bottle in the manner described above.

Private laboratories will use methods that are more accurate than field methods described below.

• Hach Kit (Drop Count Titrator)

Be aware of the approximate chloride concentration range in your well. Use the appropriate sample bottle for titration. Be consistent with the end-point color change.

For low chloride concentrations (5-100 mg/l) each drop will equal 5 mg/l. For higher concentrations (20-400 mg/l) each drop equals 20 mg/l. Other kits for concentrations greater than 400 mg/l (500-10,000 mg/l) each drop is equal to 500 mg/l. Obviously, for water greater than 400 mg/l, a "drop-count" Hach Kit is not appropriate, and a digital titrator, described below, should be used.

• Hach Kit (Digital Titrator)

A digital titrator is the appropriate method for water with greater than 400 mg/l chloride. A digital titrator using silver nitrate is accurate to within 10 mg/l for a chloride range from 10-10,000 mg/l, and for a titrator using mercuric nitrate accuracy varies from 0.1-20 mg/l for a chloride range of 10-8,000 mg/l.

Note: Be consistent with the end-point color.
Silver nitrate ages and needs to be replenished within the recommended guidelines of the Hach Company.

• Other Methods

An ion-selective probe for chloride is available, and can measure concentration from 1.8-35,500 mg/l.
3. **Reporting Results**

   - **How to Report**

   The following information should be entered on the "Monthly Ground Water Use Report" form provided by the Commission on Water Resource Management:

   1. Chloride concentration (mg/l) and temperature (°F) in the columns provided.

   **Under "Notes" Section of the Monthly Water Use Report:**

   2. Method used for chloride analysis:___________

   3. Total elapsed time before sampling:___________

   If there are any questions, please call the Commission on Water Resource Management staff at 587-0265 on Oahu or toll free from the neighbor islands 1-800-468-4644 ext. 70265.
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¹ Assumes saturated well depth of 100 feet.

² Five well volumes is a standard guideline recommended by EPA.
Mr. Tim Canute  
Sogo Hawaii, Inc.  
91-1153 North Road  
Ewa Beach, HI 96706

Dear Mr. Canute:

Water Use Permit for Well No. 1900-21  
Puuloa Ground Water Management Area, Oahu

In response to your recent request, we are transmitting the water use permit that was issued by the Board of Land and Natural Resources for Puuloa Homes Caprock Well (Well No. 1900-16) for use of 0.6 million gallons per day (mgd) of water on a 12-month moving average basis. This permit was modified by letter of the Chairperson of the Commission on Water Resource Management (Commission), dated April 18, 1990 (attached). This assigns the 0.600 mgd to dug wells (lakes) 1900-22 and 1959-08.

This letter also transmits your water use permit for Puuloa Golf Course Irrigation Well (Well No. 1900-21) for use of 0.100 of water on a 12-month moving average basis that was approved by the Commission on February 13, 1991. We apologize for this late transmittal of the official permit document.

Enclosed with this letter of approval are the following:

1. Your water use permit
2. Your official monthly water use report form

Please be sure to read the conditions of your approved permit. If you accept these terms, please sign and return one copy of this permit to the Commission and retain a copy for your record.

Be advised that, pursuant to Administrative Rule 13-168-7, you are required to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report form. You should make copies of the enclosed report form as needed.

You are also required to submit a water shortage plan to the Commission. We request that you submit the water shortage plan within thirty (30) days of the date of this letter. Your water shortage plan simply identifies what you are willing to do should the Commission declare a water shortage situation in the Ewa Caprock Ground Water Management Area and can be as short as a one page letter. In a water shortage situation, the Commission may require temporary reductions in pumpage from all sources. The Commission is required, by law, to formulate a plan to implement such area-wide reductions, which should accommodate, include, and be consistent with your plans. Therefore, your help, by submitting your water shortage plan, is greatly needed in formulating the Commission's overall Water Shortage Plan.

If you have any questions, please call Rae M. Loui, Deputy Director, at 587-0214.

Aloha,

[Signature]

for: Michael D. Wilson  
Chairperson

Attachments
GROUND WATER USE PERMIT
WUP NO. 170

PERMITTEE

Applicant/Water User
Address: SOGO HAWAII, INC.
         91-1153 NORTH ROAD
         EWA BEACH, HI 96706

Landowner of Source
Address: SOGO HAWAII, INC.
         91-1153 NORTH ROAD
         EWA BEACH, HI 96706

PERMITTED SOURCE INFORMATION

Island: OAHU
Water Management Area: EWA CAPROCK
Aquifer Sector: EWA CAPROCK
Aquifer System: EWA CAPROCK
System Sustainable Yield: NA
Well Name: PUULOA GOLF COURSE IRRIGATION
State Well No.: 1900-21

PERMITTED USE INFORMATION

Reasonable beneficial use: GOLF COURSE IRRIGATION
Withdrawal (12 month moving ave.): 0.100 mgd
Location of water use
TMK #: 9-1-01:30
Address: EWA BEACH GOLF CLUB
State land use classification: NA
County zoning classification: NA

Pursuant to Hawaii’s State Constitution, Article XI, Section 7, Hawaii Revised Statutes, Chapter 174C; Hawaii Administrative Rules, Chapters 13-167 through 13-171; and Hawaii decisional law and custom, the applicant is hereby authorized to use ground water from the sources and in the amount and from and upon the locations described above; subject however, to the requirements of law including but not limited to the following conditions:
December 19, 1996

State of Hawaii
Dept. of Land & Natural Resources
Commission on Water Resource Management
P. O. Box 621
Honolulu, Hawaii 96809

Attention: Lenore Nakama

Dear Lenore:

We appreciate your assistance in following up on our application for water use permit for our golf course. Although our application was formerly approved, we still do not have any written permit on file.

Please send us the formal written permits.

Again, thank you for your assistance to this matter.

Sincerely,

Timothy J. Canute
General Manager
1. The water authorized by this permit shall be for the reasonable-beneficial use described in this permit.

2. The use shall not adversely affect existing or future legal uses in the area. The Commission may reduce the amount initially granted should long-term pumpage interfere with existing or future legal uses.

3. Though no immediate adverse impacts are expected, the continued use of water from the Caprock Aquifer in the future is dependent upon continued recharge to the aquifer. In the event the resource becomes too saline to be used, the permit may be modified.

4. Modification of any permit condition shall be approved by the Commission.

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

6. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage on a monthly basis.

7. This permit may be revoked if work is not started within six months of the date of issuance or if work is suspended or abandoned for six months. The work proposed in the permit application shall be completed within 24 months from the date of permit issuance.

The issuance of this permit was approved by the Commission on Water Resource Management at its meeting on February 13, 1991.

\[Signature\]

MICHAEIL D. WILSON, Chairperson
Commission on Water Resource Management

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: ___________________________ Date: ___________________________

Printed Name: ___________________________ Firm or Title: ___________________________

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

Attachment
Mr. William J. Dornbush  
Pualoa Homes, Ltd.  
745 Fort Street, Ste. 311  
Honolulu, Hi 96813

Dear Mr. Dornbush:

Warning of Potential Water Shortages  
Ewa Caprock Water Management Area

The Commission has recently approved additional temporary water use permits in the Ewa Caprock Water Management Area. As a part of these approvals, the Commission has directed staff to issue a formal warning of potential future ground water shortages in this water management area to all other existing water use permittees.

The reason for concern is that as urbanization continues to replace existing sugarcane, there is potential for the caprock water to increase beyond usable brackish limits unless the irrigation recharge supplied to the caprock by Oahu Sugar Company (OSCo.) is replaced by some other means. It is possible that by 1995, recharge from sugarcane irrigation may completely cease.

Staff is presently working on the Ewa Caprock Regional Plan which is, in part, an effort to bring about alternative sources to supply non-potable demands in the Ewa region. This effort is to supplement and provide a back-up non-potable source to the caprock aquifer. If you are interested in participating in this regional plan, please contact us.

Staff is also requesting all permittees, who have not done so already, to submit a water shortage plan. Your water shortage plan simply identifies what you are willing to do should the Commission declare a water shortage situation in the Ewa Caprock Ground Water Management Area and can be as short as a one page letter. In a water shortage situation, the Commission may require temporary reductions in pumpage from all sources. The Commission is required by law to formulate a plan to implement such area-wide reductions, which should accommodate, include, and be consistent with your plans. Therefore, your help, by submitting your water shortage plan, is greatly needed in formulating the Commission's overall Water Shortage Plan.

If you have any questions, please contact Roy Hardy at 587-0274.

Sincerely,

RAE M. LOUI  
Deputy Director

RH:ko
FIELD MEMORANDUM

FILE REFERENCE:
DECLARANTS NAME: Puuloa Golf Course
FIELD INSPECTION DATE, 12/17/92
PRESENT: Richard Jinna Tim Canute (Puuloa GC Ph. 689-3342)

TYPE OF DECLARATION: Well (1900-21 Caprock), Well (1900-16 Sealed) 2 Dug Ponds

BACKGROUND: Applied for Existing Ground Water Use Permit

WELL 1900-21

Mr. Canute pumps 20,000 gallons from Well 1900-21 to a one acre x 12 feet deep pond once every two weeks. Water from the pond then used to irrigate the golf course on the mauka side of North Road also water is used for water trap for the golfers.

The description of the well from Well Completion Report, a 16" diameter hole, 12" pvc casing solid to 15 feet below grade. Theres a 4' x 3' high x 11' CRM wall with metal lift lid on the top which houses the well and pump. Presently the exact capacity of the pump is unknown. Estimate capacity of the pump to be 180 gpm, but will try to get the correct information to me. The pump was installed prior to his employment.

Well 1900-16

Well 1900-16 location not confirmed because the exact location unknown. We found what we suspect is the well and the GPS coordinates closely matched the location with the plotting of the well on the USGS Quad Map. Mr. Canute is interested in sealing the well and I advised him to notify in writing to our office before any work to be done. I also will be mailing the "Application For Well Permit" to process the sealing permit. Puuloa Homes submitted a declaration on this Well only.

Two Dug Wells "A & B"

The two dug wells similar to the mauka pond except the two makai ponds being used as wells. Both ponds 12 feet deep, surface 4 1/2 acres (1959-08 Dug Well "A") and the other 1 1/2 acre (1900-22 Dug Well "B"). Water from the two ponds, gravity flows through an 8" pipeline to a 24" pipeline at the pumphouse between the ponds. The pumphouse houses 4 pumps, 2-60hp, 1-40hp and 1-20hp. The pumps set to run at night, at 2100 gallons per minute. These pumps do not go on every night, it depends on the day's weather. I gave Mr. Canute the form "MONTHLY GROUND WATER USE", to report the water use and Paul Haraguchi will be sending a monthly form to Mr. Canute to report past years pumpage.
PUMPS FOR DUG WELLS

24" x 24" OPENING DOWN TO 24" LINE
DUG WELLS GRAVITY FLOW TO 24" PIPELINE
Puuloa Golf Course

North Road

Dug Well "A" 1959-08
# Ground Water Data Coding Schedule

**Department of Land & Natural Resources, State of Hawaii**

## Reference

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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<tbody>
<tr>
<td>WELL NO.</td>
<td>31959-03</td>
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<tr>
<td>NAME OR LOCATION</td>
<td>DUG WELL A</td>
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<tr>
<td>YR. DRILLED</td>
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**Location Keys**

<table>
<thead>
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<tbody>
<tr>
<td>DUG WELL A</td>
<td>31959-03</td>
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<td>3 - Oahu</td>
<td>5 - Lanai</td>
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<td>2 - Kauai</td>
<td>4 - Molokai</td>
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<td>1 - Nihoa</td>
<td>6 - Maui</td>
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<td>8 - Hawaii</td>
<td>7 - Kahoolawe</td>
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## Physical Data

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<tr>
<td>TYPE OF CONSTRUCTION</td>
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<td>GROUND ELEV. (feet)</td>
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<td>TOTAL DEPTH (feet)</td>
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<td>DEPTH TO BOT. OF PERF. CSG. (feet)</td>
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<td>USE YEAR</td>
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**Initial Test**

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<tr>
<td>WATER LEVEL (feet above msl)</td>
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<tr>
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<td>RATE (gpm)</td>
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<td>DRAWDOWN (feet)</td>
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<td>CHLORIDES (mg/l)</td>
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<tr>
<td>TEMP °C</td>
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**FREQ. of Recorded Observations**

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<td>WATER TEMP</td>
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<td>CHEM. ANAL.</td>
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**Water Supply**

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<td>PUMP CAPACITY (gpm)</td>
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<td>ANNUAL DRAFT (mil. gal.)</td>
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<td>ISTATIC HEAD (feet above msl)</td>
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<tr>
<td>MAX. CHLORIDES (mg/l)</td>
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<td>MIN. CHLORIDES (mg/l)</td>
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<td>ECLOGIC FORMATION</td>
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**Location**

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</tr>
<tr>
<td>YEAR</td>
<td>1991</td>
</tr>
<tr>
<td>YEAR</td>
<td>1992</td>
</tr>
</tbody>
</table>

**Remarks**

- Submitted this to MITCHELL

---

*Signature:* Mitchell
FIELD INSPECTION INFORMATION CHECKLIST  (Ver 7/27/90)

PART I: USE OF WATER

Declarant’s File Reference: Puuloa Homes

1. Tax Map Key where the water is used: 9 - 1 - 01:30. Does the declarant own this land? YES If not, who does? __________

2. What is the water used for? NOT USING (WILL BE SEALED) If for irrigation, how many acres are being irrigated by crop type? __________

If for drinking, at how many houses? __________ by how many people?

3. Is the quantity of water use being measured? ______ If yes, document the location of the measurement point and method of measurement; also get use records if these were not submitted previously.

4. If this person takes from a multi-user pipe or ditch system:
   How is the water taken from the system? __________
   What is the capacity for taking (gpm)? __________
   How often is it taken (used)? __________

PART II: WATER SOURCE

Source #: 1900-16 Name: __________

1. Where does the water come from / what kind of source is this? __________

Types of sources include:
1) Wells (drilled, dug, tunnel)
2) Diversions (ditch, pipe, or pump from a stream, spring, swamp, pond)
3) Multi-source systems. (Declared use cannot be traced to a single well or diversion) NOTE: If a multi-user system: take from pipe or ditch (need to determine whether this is a multi-source or single-source system before the data can be input to the computer
4) Instream (i.e., livestock drink from stream, or crops planted along water edge)

2. Show the source location on maps, determine latitude and longitude, and document the nature of source development by measurements, sketches, and photographs. How is the water taken? __________

What is the capacity for taking (gpm)? __________
How often is it taken (used)? __________

3. Tax Map Key at the source: ______-____-____-____. Determine declarant’s relation to source. Does the declarant:

1) Operate and maintain the source? ______ If not, who does? __________
2) Own the land at the source? ______ If not, who does? __________
3) Use the water from this source? ______ If not, who does? __________
4) Own the land where the water is being used? ______

4. Does any one else also use water from this source? ______ If yes, is their use included in this user’s declaration? ______ Who are the other users? Did they file? __________

VERIFIED BY: Richard Jinna DATE: 12/17/92
FIELD MEMORANDUM

FILE REFERENCE: 5060 HAWAI'I (1900-21)
DECLARANTS NAME: Puuloa Golf Course
FIELD INSPECTION DATE, 12/17/92
PRESENT: Richard Jinnai Tim Canute (Puuloa GC Ph. 689-3342)

TYPE OF DECLARATION: Well (1900-21 Caprock), Well (1900-16 Sealed) 2 Dug Ponds

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COMFORT STATION AT REAR OF WELL LOOKING LAULUA

WELL 1900-10 - POSSIBLE LOCATION OF WELL.
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

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 621, Honolulu, Hawaii 96805. 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 587-0225.

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) WELL OWNER
   Firm/Name: ____________________  Ph: ____________________
   Contact Person: ____________________  Ph: ____________________
   Address: ____________________

   (b) LANDOWNER
   Firm/Name: ____________________  Ph: ____________________
   Contact Person: ____________________  Ph: ____________________
   Address: ____________________

   (c) CONTRACTOR
   Firm/Name: ____________________  Ph: ____________________
   Contractor's C-57 License No: ____________________
   Address: ____________________

2. WELL LOCATION/NAME: ____________________
   Address: ____________________  Island: ____________________
   Tax Map Key: ____________________
   (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  ☐ Redrill
   ☐ Modify Existing Well  ☐ * Alter Location
   ☐ Deepen  ☐ * Abandon/Seal
   ☐ 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  ☐ Reciprocating
   ☐ Rotary-Gear  ☐ Impulse
   Motor: ☐ Diesel  ☐ Gas  ☐ Electric, rated horsepower of __________

5. PROPOSED USE: ☐ Municipal (including hotels, stores, etc.)
   ☐ Commercial (individual, non-commercial water syst.)
   ☐ Irrigation (crop)
   ☐ State Land Use District (agriculture)  ☐ Rural
   ☐ Conservation
   (If more space is needed, continue below under remarks, explanations.)

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: __________ gallons per day
   (b) METHOD OF FLOW MEASUREMENT: ☐ Flow-meter  ☐ Open-pipe
   ☐ Office Plate  ☐ Wate

7. PENDING ACTIONS: ☐ CDUA  ☐ SMA  ☐ EIS  ☐ EA  ☐ NONE
   ☐ Other (explain) ____________________

8. REMARKS, EXPLANATIONS: ____________________
   (If more space is needed, continue on back)

   I Owner ____________________  Landowner ____________________  Contractor ____________________
   Signature ____________________  Signature ____________________  Date ____________________

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

Longitude __________  Latitude __________
Aquifer System Name ____________________
State Well No. ____________________

6/24/92 WCR Form
February 14, 1990

State of Hawaii
Department of Land & Natural Resources
Division of Water and Land Development
1151 Punchbowl Street
Honolulu, Hawaii 96813

Attention: Mr. Manabu Tagomori, P.E.

Subject: Puuloa Golf Course Well
Tax Map Key 9-1-01-06 and 30 (Formerly 27)
Ewa Beach, Oahu, Hawaii

Gentlemen:

Puuloa Homes, Ltd. currently holds a Drilling Permit for Well No. 1900-16; dated February 22, 1988, on the subject site. A location map for this well is enclosed. Our organization also holds a water use permit to pump 0.6 million gallons per day (mgd) of brackish caprock water for golf course irrigation from Well No. 1900-16, which was issued July 11, 1988.

We expect construction of the Puuloa golf course to start next month. Installation of a pump in the 8-inch test well is proposed to provide water for compaction, dust control and landscape establishment. The following withdrawal rates are estimated over the 12 to 18-month construction period:

- March to September 1990 - 0.05 mgd
- September 1990 to March 1991 - 0.26 mgd
- March to July 1991 - 0.48 mgd

Following golf course construction, the permanent irrigation system will be placed in operation. This system will consist of two unlined lakes and a suction pump station located approximately 300 feet southeast of North Road. The lakes will be operated as skimming wells, using three intakes in the large lake and two in the smaller lake, as indicated on the enclosed plans. The lake withdrawal will be at the permitted rate of 0.6 mgd.

We are hereby requesting a modification to the permit to withdraw and use ground water to allow an average annual quantity of 0.6 mgd to be removed from the lake system. The pump will be removed from Well No. 1900-16, which will be capped and retained as an observation hole.

VERIFIED & OK
12/17/92
Due to delays in review and approval of the project construction documents by the City and County of Honolulu, Department of Public Works, the project is approximately 6 months behind schedule. We are also hereby requesting an extension of the 24-month period specified in the permit to withdraw and use ground water. The course completion and installation is scheduled for mid-1991. Therefore, we respectfully request an extension until that time. This time estimate assumes that the City approves our drainage report and grading permit in a timely manner. We successfully obtained rezoning and conditional use permits for the golf course last year.

We also want to inform you that the property is owned jointly by Puuloa Homes, Ltd., Sogo Hawaii, Inc. and Herbert K. Horita Realty, Inc. We trust that the above information and enclosed drawings are adequate for review of our requests. Should there be any questions, please contact us.

Sincerely,

PUULOA HOMES, LTD.

William J. Dornbush
Vice President

Enclosures

cc: Sogo Hawaii, Inc.
    Herbert K. Horita Realty, Inc.
    Belt Collins & Associates
    Park Engineering
July 5, 1991

State of Hawaii
Department of Land and Natural Resources
Commission on Water Resource Management
P. O. Box 621
Honolulu, Hawaii 96809

Subject: Caprock Well (Well No. 1900-16)
Puuloa Golf Course, Ewa Beach, Oahu
TMK: 9-1-01:06 and 30 (formerly 27)

Gentlemen:

Reference is made to your letter WL-BM of April 18, 1990, which extended the groundwater source development period for the subject well. Please be informed that construction of the unlined lakes, replacing Well No. 1990-16, is complete. Withdrawal from the lakes, operated as skimming wells, has commenced.

The withdrawal quantities vary at this time as the golf course irrigation system is tested and turf is established. The estimated current withdrawal is 0.1 to 0.3 million gallons per day (mgd). The 0.6 mgd permitted amount is anticipated to be routinely pumped by the end of October of this year.

Should there be any questions or additional information required, please contact the undersigned at 539-9619 or Cheryl Palesh, Belt, Collins & Associates at 539-1330.

Sincerely,

PUULOA HOMES, LTD.

William J. Dornbush
President

cc: Horita Realty, Inc.
Sogo Hawaii, Inc.
Belt, Collins & Associates
Mr. William J. Dornbush  
Vice President  
Puuloa Homes, Ltd.  
311 Hawaii Building  
745 Fort Street  
Honolulu, Hawaii 96813

Dear Mr. Dornbush:

We acknowledge receipt of your letter concerning Puuloa Homes Caprock Well (Well No. 1900-16), located on the proposed Puuloa Golf Course at Tax Map Key: 9-1-01:06 and 30 (formerly 27), Ewa Beach, Oahu.

We understand that you are requesting the following changes to the Water Use Permit approved on February 26, 1988, and issued on July 11, 1988:

1. That the applicant be allowed to withdraw the authorized quantity of 0.6 mgd from two unlined lakes, operated as skimming wells, instead of from Well No. 1900-16. Well 1900-16 will be capped and used as an observation well.

2. That the 24-month period for development of the ground water source be extended an additional 12 months, to July 11, 1991. The project is behind schedule due to delays in review and approval of the project construction documents. The course completion and installation is scheduled for mid-1991.

3. That the record be changed to show that the property is owned jointly by Puuloa Homes, Ltd., Sogo Hawaii, Inc. and Herbert K. Horita Realty, Inc.

By this letter, your requested changes are approved. If you have any questions, please contact Manabu Tagomori, Deputy Director, at 548-7533.

Very truly yours,

WILLIAM W. PATY
DIVISION OF WATER RESOURCE MANAGEMENT

FROM: ___________________________  DATE: 1/17  FILE IN: ___________________________

TO: INITIAL: ___________________________  PLEASE: ___________________________

_ M. TAGOMORI
_ G. Matsumoto
_ G. Akita
_ L. Chang
_ Y. Shiroma
_ E. Sakoda
_ D. Nakano
_ W. Rozeboom
_ S. Samuels
_ E. Hirano
_ T. Kam
_ A. Monden
_ H. Young
_ D. Lee
_ G. Miyashiro
_ ___________________________
_ ___________________________
_ ___________________________

REMARKS:  
Approved by letter.  
1. Modify Well No./Location  
2. Extension to mid. 1991  
3. Joint owners
State of Hawaii
Department of Land & Natural Resources
Division of Water and Land Development
1151 Punchbowl Street
Honolulu, Hawaii 96813

Attention: Mr. Manabu Tagomori, P.E.

Subject: Puuloa Golf Course Well
Tax Map Key 9-1-01-06 and 30 (Formerly 27)
Ewa Beach, Oahu, Hawaii

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State of Hawaii  
Department of Land & Natural Resources  
Division of Water and Land Development  
February 14, 1990  
Page 2

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Sincerely,

PUULO A HOMES, LTD.

William J. Dornbush  
Vice President

WJD:bw

Enclosures

cc:  Sogo Hawaii, Inc.  
Herbert K. Horita Realty, Inc.  
Belt Collins & Associates  
Park Engineering
DEPARTMENT OF LAND AND NATURAL RESOURCES

PERMIT

TO WITHDRAW AND USE GROUND WATER

Applicant: Puuloa Homes, Ltd. Application Date: 1/25/88
Address: 745 Fort St., Suite 311, Honolulu, Hawaii 96813
Ground Water Control Area: Pearl Harbor Subarea: Caprock
Well(s) Name: Puuloa Homes Caprock Well State Well No.(s): 1900-16
Amount of Withdrawal: (Average Annual) 0.6 mgd
Beneficial Purpose of Withdrawal: Golf course irrigation
Area or Projects Served: Puuloa Homes, Ewa

The applicant is hereby granted a permit to withdraw and use ground water from the source identified above, in accordance with Chapter 177, HRS, Administrative Rule, Chapter 166 of Title 13; and the following:

General Conditions. (1) the water use authorized by this permit must be for the beneficial purpose described in this permit; (2) the use must not interfere substantially and materially with existing individual household uses, existing preserved uses, or existing permitted uses; (3) the use is subject to the shortage and emergency powers of the Board of Land and Natural Resources; (4) this permit may be suspended or revoked in accordance with Chapter 166 of Title 13; (5) the permit holder may be required to relinquish this permit at any time or specified time after issuance to the Board of Land and Natural Resources in accordance with Chapter 166 of Title 13; (6) an approved flowmeter(s) must be installed to measure withdrawals; and a record of the withdrawals must be kept and reported to the Department of Land and Natural Resources, Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96809, on a monthly basis.

Additional Conditions.

1. The term of this permit shall be twenty years from the date of issuance, subject to review and adjustment every five years.

2. The permitted amount of 0.6 mgd may be decreased depending upon the results of the pumping test.

3. The development of the ground water source shall be completed within 24 months from the date of permit issuance.

The issuance of this permit was approved by the Board of Land and Natural Resources at its meeting on February 26, 1988

Chairperson of the Board

Date of Issuance: 1/25/88
DEPARTMENT OF LAND AND NATURAL RESOURCES

PERMIT

TO WITHDRAW AND USE GROUND WATER

Applicant: Puuloa Homes, Ltd. Application Date: 1/25/88
Address: 745 Fort St., Suite 311, Honolulu, Hawaii 96813
Ground Water Control Area: Pearl Harbor Subarea: Caprock
Well(s) Name: Puuloa Homes Caprock Well State Well No.(s): 1900-16
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Area or Projects Served: Puuloa Homes, Ewa

The applicant is hereby granted a permit to withdraw and use ground water from the source identified above, in accordance with Chapter 177, HRS, Administrative Rule, Chapter 166 of Title 13; and the following:

General Conditions. (1) the water use authorized by this permit must be for the beneficial purpose described in this permit; (2) the use must not interfere substantially and materially with existing individual household uses, existing preserved uses, or existing permitted uses; (3) the use is subject to the shortage and emergency powers of the Board of Land and Natural Resources; (4) this permit may be suspended or revoked in accordance with Chapter 166 of Title 13; (5) the permit holder may be required to relinquish this permit at any time or specified time after issuance to the Board of Land and Natural Resources in accordance with Chapter 166 of Title 13; (6) an approved flowmeter(s) must be installed to measure withdrawals; and a record of the withdrawals must be kept and reported to the Department of Land and Natural Resources, Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96809, on a monthly basis.

Additional Conditions.

1. The term of this permit shall be twenty years from the date of issuance, subject to review and adjustment every five years.

2. The permitted amount of 0.6 mgd may be decreased depending upon the results of the pumping test.

3. The development of the ground water source shall be completed within 24 months from the date of permit issuance.

The issuance of this permit was approved by the
Board of Land and Natural Resources at its meeting
on February 26, 1988

Chairperson of the Board

JUL 11 1988

Date of Issuance:
June 29, 1988

Mr. Manabu Tagomori
Deputy for Water Resource Management
Department of Land and Natural Resources
Division of Land and Land Development
P. O. Box 373
Honolulu, Hawaii 96809

Dear Manabu,

Subject: $100 Fee for Water Use Permit Application

Puuloa Homes, Ltd. submitted a $100 check dated March 21, 1988 as shown on the enclosed transmittal letter.

I have been in contact with Ed Sakoda of your staff who has advised me that DLNR has not received the check.

Enclosed, please find a new check for $100 dated June 28, 1988. We wish to apologize for the delay and thank you for your patience.

Sincerely yours,

ParEn, Inc.
dba PARK ENGINEERING

Clarence K. Tanonaka
Executive Vice President

Enclosure
LETTER OF TRANSMITTAL

TO
Department of Land & Natural Resources

GENTLEMEN:

WE ARE SENDING YOU ✗ Attached □ Under separate cover via __________________________ the following items:

☐ Shop drawings ☐ Prints ☐ Plans ☐ Tracings ☐ Specifications
☐ Copy of letter ☐ Change order ✗ Check

$100 fee for processing permit to withdraw water for Benefiting Use

COPYES    DATE    NO.    DESCRIPTION

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: __________________________

COPY TO __________________________
Mr. Clarence K. Tanonaka  
Executive Vice President  
Park Engineering  
Kawaiahao Plaza, Suite 300  
567 South King Street  
Honolulu, Hawaii 96813  

March 16, 1988

Dear Mr. Tanonaka:

I am pleased to inform you that the Board of Land and Natural Resources approved the issuance of a Water Use Permit to Puuoloa Homes, Ltd. to pump 0.6 mgd of brackish caprock water for golf course irrigation. Enclosed for your files is the approved board submittal.

As stated to you in our February 22, 1988 letter, an additional $100.00 fee is required for processing of your Water Use Permit application. Please send the additional fee, made payable to the Department of Land and Natural Resources, at your earliest convenience.

If you have any questions, please contact Mr. Dan Lum at 548-7619.

Sincerely,

MANABU TAGOMORI  
Deputy for Water Resource Management

ES:ko  
Enc.
FROM: Ed  DATE: 6/28/88  FILE IN: 1900-16 Paulino Homes

TO: INITIAL:

___ D. LUM
___ E. Sakoda
___ D. Nakano
___ P. Haraguchi
___ R. Jinnai
___ M. Ohye
___

PLEASE:

___ See Me
___ Call
___ Review & Comment
___ Take Action
___ Investigate & Report
___ Draft Reply
___ Acknowledge Receipt
___ Type Draft
___ Type Final  cc: __________
___ Xerox __ copies
___ File
___ Mail

REMARKS:

CLARENCE TANAKA (531-1676)

Called him on 6/28/88 - stated he has record of transmitted letter to Manabu. Will check cancelled check.

FOR YOUR

___ Approval
___ Signature
___ Information

6/28/88 Mr. Tanaka called. The check was not cancelled. He said send a new check to 1975. Check received July 1, 1988.
March 16, 1988

Mr. Clarence K. Tanonaka  
Executive Vice President  
Park Engineering  
Kawahao Plaza, Suite 300  
567 South King Street  
Honolulu, Hawaii 96813

Dear Mr. Tanonaka:

I am pleased to inform you that the Board of Land and Natural Resources approved the issuance of a Water Use Permit to Puuola Homes, Ltd. to pump 0.6 mgd of brackish caprock water for golf course irrigation. Enclosed for your files is the approved board submittal.

As stated to you in our February 22, 1988 letter, an additional $100.00 fee is required for processing of your Water Use Permit application. Please send the additional fee, made payable to the Department of Land and Natural Resources, at your earliest convenience.

If you have any questions, please contact Mr. Dan Lum at 548-7619.

Sincerely,

[Signature]

MANABU TAGOMORI  
Deputy for Water Resource Management

ES:ko  
Enc.
FEB 23 1988

Dr. John Lewin, Director
Department of Health
State of Hawaii
Honolulu, Hawaii

Dear Dr. Lewin:

Attached is a public notice, "Consideration of a Water Use Permit Application in the Pearl Harbor Ground Water Control Area, Oahu", which may be of interest to you. If you have any questions, please contact our office at 548-7619.

Very truly yours,

WILLIAM W. PATY, Chairperson
Board of Land and Natural Resources

Enc.
cc: Drinking Water Program, DOH
Ground Water Protection Program, DOH
February 22, 1988

Mr. Clarence K. Tanonaka  
Executive Vice President  
Park Engineering  
Kawaiahaö Plaza, Suite 300  
567 South King Street  
Honolulu, Hawaii 96813

Dear Mr. Tanonaka:

This is to acknowledge receipt of your letter of January 21, 1988, regarding the drilling of a caprock well for the proposed Ewa Puuloe Golf Course in the Pearl Harbor Ground Water Control Area.

Enclosed is your Well Drilling Permit. Your application for a Permit to Withdraw Water for Beneficial Use will be acted upon by the Board of Land and Natural Resources at its meeting on February 26, 1988.

Your $100.00 filing fee will be credited toward the Well Drilling Permit. An additional $100.00 fee is required for the processing of your application for the Permit to Withdraw Water for Beneficial Use. Please send the additional fee, made payable to the Department of Land and Natural Resources, at your earliest convenience.

If you have any question, please contact Mr. George Matsumoto at 548-7619.

Sincerely,

MANABU TAGOMORI  
Manager-Chief Engineer
PEARL HARBOR GROUND WATER CONTROL AREA
WELL DRILLING PERMIT

for

Puuloa Homes Exploratory Caprock Well
State Well No. 1900-16, Puuloa, Ewa, Oahu

TO: Puuloa Homes, Ltd.
745 Fort St., Suite 311
Honolulu, Hawaii 96813

In accordance with Chapter 166 of Title 13, "Rules for the Control of Ground Water Use in the State of Hawaii", your application to drill an exploratory caprock well at TMK: 9-1-01:27 (State Well No. 1900-16) is approved subject to the following conditions:

1. A Driller's Well Completion Report (enclosed) shall be submitted to the Division of Water and Land Development (P.O. Box 373, Honolulu, Hawaii 96809) within 60 days after completion of the well.

2. Pumping test data shall be submitted to the Division of Water and Land Development within 60 days after testing of the well.

3. An "as-built" drawing of the well and a map showing the exact location of the well shall be submitted upon completion of the well.

4. This well drilling permit is FOR DRILLING AND TESTING ONLY and the well shall be suitably capped after completion. No pump may be installed and no water used from this well without the necessary well modification and water use permits from the Department of Land and Natural Resources under Administrative Rules, Chapter 166 of Title 13.

5. The issuance of this drilling permit shall in no way prejudice any future consideration by the Board of Land and Natural Resources on the issuance or non-issuance of a permit to withdraw and use water from this well.

6. The applicant shall comply with all applicable laws, rules, and ordinances.
7. This permit may be revoked if work is not started within six months of date of issuance or if work is suspended or abandoned for six months.

WILLIAM W. PATY, Chairperson
Board of Land and Natural Resources

FEB 22 1988

Date of Issuance
Enc. (Driller's Report Form)
cc: USGS
Dept. of Health,
Drinking Water Program
Ground Water Protection Program
Honolulu BWS
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Division of Water and Land Development
Honolulu, Hawaii

February 26, 1988

Chairperson and Members
Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Puuloa Homes, Ltd. Water Use Permit Application
Pearl Harbor Ground Water Control Area, Oahu

Applicant: Puuloa Homes, Ltd.
745 Fort Street, Suite 311
Honolulu, HI 96813

Action Requested: To drill a new well in the Caprock Subarea of the
Pearl Harbor Ground Water Control Area and to withdraw 0.6 million
gallons a day (mgd).

Use: The well will withdraw brackish water from the caprock aquifer for
golf course irrigation.

Well Location: The well will be located near Campbell High School in
Ewa, Tax Map Key 9-1-01:27.

Impact on Surrounding Wells: No detrimental effects.

Salinity Expected: Brackish to salt water.

Analysis: There is brackish caprock water in the Caprock Subarea for
the request.

RECOMMENDATION:

That the Board approve the issuance of a Water Use Permit to
Puuloa Homes, Ltd. to pump 0.6 mgd of brackish caprock water, for golf
course irrigation, subject to the requirements of other applicable laws,
rules and ordinances, and the following conditions.

1. The term of the permit shall be twenty years from the date of
issuance, subject to review and adjustment every five years.

2. The permitted amount of 0.6 mgd may be decreased depending upon
the results of the pumping test.

3. The development of the ground water source shall be completed
within 24 months from the date of permit issuance.

Respectfully submitted,

MANABU TAGOMORI
Manager-Chief Engineer

APPROVED FOR SUBMITTAL

WILLIAM W. PATY, Chairperson

ITEM D-1
PUBLIC NOTICE

Consideration of a Water Use Permit Application in
the Pearl Harbor Ground Water Control Area, Oahu.

All interested parties are hereby notified that the Board of Land and Natural Resources plans to act on the following item at its regularly scheduled meeting on Friday morning, February 26, 1988, 9:00 a.m., Room 132, Kalanikou Building, 1151 Punchbowl Street, Honolulu, Hawaii.

Puuloa Homes, Ltd. has applied for a permit to withdraw 0.6 million gallons per day of brackish water from a new well in the Pearl Harbor caprock aquifer for golf course irrigation.

State of Hawaii
BOARD OF LAND AND NATURAL RESOURCES

[Signature]
WHILAM W. PATY
Chairperson of the Board

Dated: February 9, 1988

Publish in the Honolulu Star Bulletin,
February 15, 1988
STATE OF HAWAII
REQUISITION & PURCHASE ORDER

DEPARTMENT OF LAND & NATURAL RESOURCES

ORGANIZATION

NOTICE TO VENDORS
Conditions of purchase are listed on the back side of this purchase order. Please read carefully. Payments may be delayed if all steps are not followed.

Hawaii Newspaper Agency

P.O. Box 3350

Honolulu, HI 96808 Attn: Legal Ad

The State of Hawaii is an EQUAL EMPLOYMENT OPPORTUNITY and AFFIRMATIVE ACTION employer. We encourage the participation of women and minorities in all phases of employment.

QUAN. UNIT DESCRIPTION OBJECT UNIT PRICE AMOUNT


"Consideration of a Water Use permit Application in the Pearl Harbor Ground Water Control Area, Oahu"

85.00

NOTICE ATTACHED (any questions, call 548-7619)

REQUISITIONER TELEPHONE

AUTHENTICATED BY:

A. PURUAIGH

AUTHORIZED SIGNATURE

GOODS/SERVICES RECEIVED IN GOOD ORDER AND CONDITION BY DATE

REQUISITION NO. VENDOR

72359 XXXXXXXXXXXX XX

14728 00

FOR DEPARTMENT USE ONLY

SFX TC F YR APP D OBJECT CC PROJ NO. PH ACT ESTIMATED COST ACTUAL COST M R OPT DEPT DATA

XX XXX X XX XXX XX XXXX XXXXXX X XXXX XXXXXXXXXXX XX X XXXXXXXXXXXX X X X XXXXXXXXXXXX

01 021 G 80 044 C 4000 0721 000000 00 070 85 00

COPY #7 - DEPARTMENT

STATE ACCOUNTING FORM C-03
JULY 1, 1983 (REVISED)
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Division of Water and Land Development
Honolulu, Hawaii

February 26, 1988

Chairperson and Members
Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Puuloa Homes, Ltd. Water Use Permit Application
Pearl Harbor Ground Water Control Area, Oahu

Applicant: Puuloa Homes, Ltd.
745 Fort Street, Suite 311
Honolulu, HI 96813

Action Requested: To drill a new well in the Caprock Subarea of the
Pearl Harbor Ground Water Control Area and to withdraw 0.6 million
gallons a day (mgd).

Use: The well will withdraw brackish water from the caprock aquifer for
golf course irrigation.

Well Location: The well will be located near Campbell High School in
Ewa, Tax Map Key 9-1-01:27.

Impact on Surrounding Wells: No detrimental effects.

Salinity Expected: Brackish to salt water.

Analysis: There is brackish caprock water in the Caprock Subarea for
the request.

RECOMMENDATION:

That the Board approve the issuance of a Water Use Permit to
Puuloa Homes, Ltd. to pump 0.6 mgd of brackish caprock water, for golf
course irrigation, subject to the requirements of other applicable laws,
rules and ordinances, and the following conditions.

1. The term of the permit shall be twenty years from the date of
issuance, subject to review and adjustment every five years.

2. The permitted amount of 0.6 mgd may be decreased depending upon
the results of the pumping test.

3. The development of the ground water source shall be completed
within 24 months from the date of permit issuance.

Respectfully submitted,

MANABU TAGOMORI
Manager-Chief Engineer

APPROVED FOR SUBMITTAL

WILLIAM W. PATY, Chairperson
February 12, 1988

Puuloa Homes, Ltd.
745 Fort Street, Suite 311
Honolulu, Hawaii 96813

Gentlemen:

Attached is a public notice, "Consideration of a Water Use Permit Application in the Pearl Harbor Ground Water Control Area, Cahu", which may be of interest to you. If you have any questions, please contact our office at 548-7619.

Sincerely,

MANABU TAGOMORI
Manager-Chief Engineer

ES:dh
Enc.
APPLICATION FOR: (check one)

☑ PERMIT TO WITHDRAW WATER FOR BENEFICIAL USE
☑ PERMIT TO SUPPLY WATER FOR BENEFICIAL USE

Instructions: Fill out, sign, and send application with pertinent attachments to Dept. of Land & Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809. A non-refundable filing fee of $100 required, excepting military, federal, state, and local government agencies.

745 Fort St., Ste. 311

NAME OF APPLICANT: Puuloa Homes, Ltd.  Address: Honolulu, HI 96813  Phone: 531-2765

REQUESTED BENEFICIAL USE OF WATER:
☐ Domestic  ☐ Municipal  ☐ Military  ☐ Agricultural  ☐ Industrial  ☑ Other Golf Course

(Appropriately describe nature and purpose of requested use: Irrigation of Golf Course)

Proposed commencement date of water use:

REQUESTED AMOUNT OF WITHDRAWAL OR SUPPLY:
Average Annual mgd; Maximum Month mgd; Maximum Day mgd.

(Appropriately describe schedule or times of taking requested withdrawal:

NATURE AND TERM OF REQUESTED PERMIT:
☐ Temporary  ☑ Permanent

Requested period of permit

PROPOSED SOURCE OF WATER SUPPLY:
☐ Existing source  ☑ Modification of existing source  ☑ New source

(Briefly describe existing or proposed source and any related facilities and submit map, plot plan, and plans or drawings of source of supply:)

If construction work is proposed for new or modified existing source, give:
Commencement Date March 1988  Completion Date March 1988

ASSESSMENT OF REQUESTED WATER USE OR SUPPLY

In a separate attachment to this application, applicant must provide a written assessment addressing the desirability of issuing the requested permit, including such considerations as the availability of water, the beneficial purpose of the proposed water use, and the impact, if any, of the proposed water use on existing permitted uses, preserved uses, and individual household uses.

Puuloa Homes, Ltd.
Water User or Supplier

[Signature]
Date: Jan. 19, 1988

[Signature]
Owner of Water Source
Parker School Trust
Date: Jan. 19, 1988

In accordance with Department Regulation No. 9, every permit approved and issued by the Board of Land & Natural Resources shall be for a specified period of time, for a specified beneficial use, subject to suspension and revocation, and subject to the shortage and emergency powers of the Board. Consideration of applications for a permit shall include: availability of water, beneficial purpose of water use, non-impairment of the most beneficial use and development of the water resources in the designated area, and no substantial and material interference with existing uses of water.

For Official Use:
Docket No.   
180 days
Board Approved   Disapproved
Well No. 1900-16
February 12, 1988

Park Engineering
567 S. King St., Ste. 300
Honolulu, Hawaii 96813

Gentlemen:

Attached is a public notice, "Consideration of a Water Use Permit Application in the Pearl Harbor Ground Water Control Area, Oahu", which may be of interest to you. If you have any questions, please contact our office at 548-7619.

Sincerely,

MANABU TAGOMORI
Manager-Chief Engineer

ES: dh
Enc.
February 12, 1988

Mr. Kazu Hayashida
Manager & Chief Engineer
Board of Water Supply
City & County of Honolulu
630 S. Beretania Street
Honolulu, Hawaii 96813

Dear Mr. Hayashida:

Attached is a public notice, "Consideration of a Water Use Permit Application in the Pearl Harbor Ground Water Control Area, Oahu", which may be of interest to you. If you have any questions, please contact our office at 548-7619.

Sincerely,

MANABU TAGOMORI
Manager-Chief Engineer

ES:dh
Enc.
February 12, 1988

Mr. William Meyer
District Chief
U.S. Geological Survey
P.O. Box 50166
Honolulu, Hawaii 96850

Dear Mr. Meyer:

Attached is a public notice, "Consideration of a Water Use Permit Application in the Pearl Harbor Ground Water Control Area, Oahu", which may be of interest to you. If you have any questions, please contact our office at 548-7619.

Sincerely,

MANABU TAGOMORI
Manager-Chief Engineer

ES:dh
Enc.
PUBLIC NOTICE

Consideration of a Water Use Permit Application in the Pearl Harbor Ground Water Control Area, Oahu

All interested parties are hereby notified that the Board of Land and Natural Resources plans to act on the following item at its regularly scheduled meeting on Friday morning, February 26, 1988, 9:00 a.m., Room 132, Kalanimoku Building, 1151 Punchbowl Street, Honolulu, Hawaii.

Puuloa Homes, Ltd. has applied for a permit to withdraw 0.6 million gallons per day of brackish water from a new well in the Pearl Harbor caprock aquifer for golf course irrigation.

State of Hawaii
BOARD OF LAND AND NATURAL RESOURCES

Dated: February 9, 1988

Chairperson of the Board

Publish in the Honolulu Star Bulletin, February 15, 1988
DIVISION OF WATER AND LAND DEVELOPMENT

FROM: [Signature]  DATE: [Signature]  FILE IN: PHGWCA - 1900-16

TO: INITIAL: PLEASE: REMARKS:

M. TAGOMORI  See Me  Doubt not that source is available.
G. Matsumoto  Take Action By  can't use issue
g. Route to Your Branch  
L. Chang  Review & Comment  duty permit only
G. Akita  Draft Reply By  and subject consideration
D. Lum  Acknowledge Receipt
S. Miyamoto  Xerox copies
S. Samuels  Return
P. Haraguchi  File
N. Imada  Mail
P. Matsuo  For Information

N. Kaneshiro  S. Kokubun
R. Suzuki  D. Hamada
L. Nanbu  F. Ching

Ed. especially with water code, I
W. Records file
As soon immediately to have
one folder per well in well record files with
all correspondence, permit papers, etc. No more bar
WATER USE PERMIT NO. 752

This report has been prepared in accordance with 13-171-22(b) of the Hawaii Revised Statutes requiring a 20-year review of issued water use permits to determine permit compliance. Following is a summary of permit information, site characteristics, methodology, findings, and recommendations for this State permit file.

Permit Information

Water User: Bryan Grady  
91-050 Ft. Weaver Rd.  
Ewa Beach, HI 96706

Landowner of Source: YHB Ewa LCC  
4801 Wilshire Blvd.  
Los Angeles, CA 90010

Permitted Withdrawal Rate: 0.600 mgd (Based upon a 12-month moving average)
Water Management Area: Puuloa
Island: Oahu
Aquifer Sector/System: Ewa Caprock/Puuloa
System Sustainable Yield: 1000 mg/L
Water Type: Brackish
Original CWRM Date: April 18th, 1990
Standard Conditions: 1-19
Special Conditions: 1-2, 38, 41

Water Source

State Well Number(s): 1900-22, 1959-08
Well Name: Puuloa Dug Wells A & B
Water Source TMK Number(s): 1st Division, 9-1-001:030
State Land Use Classification(s): Urban
County Zoning Classification(s): AG-2/Country
Geographical Coordinates:
State Well No. 1900-22  
Latitude 21° 19' 25.2" North  
Longitude 157° 59' 51.9" West
State Well No. 1959-08  
Well Location Not Found

End Use

End Use TMK Number(s): 1st Division, 9-1-001:030
State Land Use Classification(s): Urban
County Zoning Classification(s): AG-2, Country
Beneficial Use Explanation: Previously used for irrigation of golf course.

**Background Information**

The permittee's 12-month moving average has not exceeded the permitted amount of 0.600 mgd because the well is not operational. In late 2006, water usage dropped to zero and has not increased since. This is most likely due to the fact that the golf course has switched over from well water to using 100% R-1 water that comes from the Honouliuli Wastewater Treatment Plant. Reference the permit file for additional information on reporting history.

Water Use Permit 752 was approved during the April 18th, 1990 Commission on Water Resource Management meeting. A notice of transfer was also received on 10/17/05. Standard conditions 1-19 and special conditions 1-2, 38, & 41 are the governing conditions for this water use permit. A complete list of all standard and special conditions is given in the final summary report to the Legislature for this 20-year Water Use Permit Review.

**Field Investigation Information**

Contact: Bryan Grady
Site Address: 91-050 Ft. Weaver Rd.
Ewa Beach, HI 96706

Brown and Caldwell conducted a field investigation on May 8th, 2008 from 10:00 a.m. until 11:00 a.m. with Bryan Grady. During this time, type of water usage was verified, GPS coordinates of well head(s) were recorded, flow meter installation and functionality were documented, and property TMK information was verified. The wellhead, its related appurtenances, and water usage area were visually inspected to assess compliance with permit conditions. Reference the TMK and GIS maps in the permit file for a visual representation of the site.

**Summary of Findings for Water Use Permit No. 752**

State Well No. 1900-22 is located on TMK parcel 9-1-001:030 at 21° 19' 25.2" N, 157° 59' 51.9" W, with a real time accuracy of ±28 feet. Water is no longer being drawn from the well via the pump storage house. A flowmeter is installed on the main distribution pipe line but it is no longer operational. The permittee has advised that the flow meter and pumps have been broken for quite some time, but could not provide an exact date of failure. The golf course now uses 100% R-1 water that comes from the Honouliuli Wastewater Treatment Plant. The permittee has
advised that the Ewa Beach Golf Club uses R-1 water because the quality of R-1 water is currently better for the golf course grass than the water quality of the brackish water from well 1900-22. Although the water from State Well No. 1900-22 is not currently in use, the permittee has expressed interest in maintaining water rights to the well. Reference the Appendix for photographs of the existing system.

Records indicate that State Well No. 1959-08 is located on TMK parcel 9-1-001:030. During the field investigation, this particular well could not be found. The golf course maintenance supervisor advised that he did not know the location of the well and has not seen the well since he took over several years ago. He mentioned that it is possible that the well was capped and that golf course landscaping workers might have filled over the well with dirt while grooming and maintaining the golf course fairways. Reference the Appendix for photographs of the existing system.

The following are a list of standard condition(s) that the permittee is found to be in non-compliance with:

(10) An approved flowmeter must be installed to measure monthly withdrawals and a month record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis.

Although the permittee is not currently drawing water from State Well No. 1900-22, monthly water use records are still required by the Commission. Since no water use is being reported, the permittee is in violation of Standard Condition (10).

Based upon visual inspection of the system, all components (i.e well control panel, pump, valves) do not appear to be in full working order. The well control panels and pumps are inoperable due to weathering and non usage. The permittee provided access to the site grounds where no wasting of water or water loss was observed. Visual inspection also confirmed that previous water usage was within the permitted TMK boundaries.

Recommendations

- Address the following discrepancies between the Commission’s electronic database and actual field investigation findings:
  - Change permittee contact to Bryan Grady at (808) 689-3342
- Address violation of Standard Condition (10) regarding non-reporting of water use.
20-Year Water Use Permit Review
Water Use Permit No. 752

APPENDIX

Field Investigation Photographs
Figure 3 – Main Distribution Line

Figure 4 – Typical end use area
Figure 5 – Well Pump & Flowmeter Control Panel (Broken)
Standard Conditions List

1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial uses mean "the use of water in such a quantity as is necessary for economic and efficient utilization, which is both reasonable and consistent with State and County land use plans and the public interest." (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in Section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground-water use here must not interfere with surface or other ground-water rights or reservations.

5. The ground-water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its <Insert Date> meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

Variations of Standard Condition (8) are as follows:
   i. Modification of any permit condition shall be approved by the Commission. Modification of any permit condition without notification may result in the revocation of the water use permit.
9. This permit may be modified by the Commission and the amount of water initially
granted to the permittee may be reduced if the Commission determines it is
necessary to:
   a. Protect the water sources (quantity or quality);
   b. Meet other legal obligations including other correlative rights;
   c. Insure adequate conservation measures;
   d. Require efficiency of water uses;
   e. Reserve water for future uses, provided that all legal existing uses of water as
      of June, 1987 shall be protected;
   f. Meet legal obligations to the Department of Hawaiian Home Lands, if
      applicable; or
   g. Carry out such other necessary and proper exercise of the State’s and the
      Commission’s police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action
to the permittee and provide the permittee an opportunity to be heard

10. An approved flowmeter(s) must be installed to measure monthly withdrawals and a
monthly record of withdrawals, salinity, temperature, and pumping times must be
kept and reported to the Commission on Water Resource Management on forms
provided by the Commission on a monthly basis (attached).

Variations of Standard Condition (10) are as follows:
   i. The applicant shall keep monthly pumpage estimates to be submitted
      annually to the Commission.
   ii. An approved flowmeter(s) need not be installed to measure monthly
      withdrawals and a monthly record of withdrawals, salinity, temperature, and
      pumping times must be kept and reported to the Commission on Water
      Resource Management on forms provided by the Commission on a yearly
      basis (attached).
   iii. An approved flowmeter(s) must be installed to measure withdrawals and a
      monthly record of withdrawals, water-levels, salinity, and temperature must
      be kept and reported to the Commission on a monthly basis in accordance
      with the Commission’s September 16, 1992 action on reporting
      requirements.
   iv. Approved flowmeters must be installed to measure monthly withdrawals
      and a monthly record of withdrawals must be kept and reported to the
      Commission on Water Resource Management on a monthly basis.
   v. An approved flowmeter(s) must be installed to measure monthly
      withdrawals and a monthly record of withdrawals, salinity, temperature, and
      pumping times must be kept and reported to the Commission on Water
      Resource Management on forms provided by the Commission on a
      quarterly/yearly basis (attached).
   vi. An approved flowmeter shall be installed to measure water withdrawals
   vii. An approved flowmeter(s) must be installed to measure withdrawals; and a
      record of the withdrawals must be kept and reported to the Department of
Land and Natural Resources, Division of Water and Land Development, P.O. Box 373, Honolulu, HI 96809, on a monthly basis.

viii. Although not stated as a condition of the permit §13-168-7 HAR requires you to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report form.

ix. An approved flowmeter shall be installed and the withdrawal from Well 1851-73 shall be recorded and reported to DLNR on a monthly basis by the owner and/or operator of the well.

x. The withdrawals from these wells shall be recorded and reported to the DLNR on a monthly basis by the BWS.

xi. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting water usage on a monthly basis.

xii. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage. Water usage shall be measured on a monthly basis and reported to the Commission.

xiii. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage. Water usage shall be measured on a monthly basis and reported to the Commission along with water level and salinity measurements.

11. This permit shall be subject to the Commission’s periodic review of the <Aquifer> Aquifer System’s sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the <Aquifer> Aquifer System, or relevant modified aquifer(s), is reduced.

12. A permit may be transferred, in whole or in part, from the permittee to another, if:
   a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of use, remain the same; and
   b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer, which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

13. The uses(s) authorized by law and by this permit do not constitute ownership rights.

14. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances that will affect the permittee’s water use.

15. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservations, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter
into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period or forfeiture.

16. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee’s water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the <Aquifer>Ground-Water Management Area.

17. The water use permit shall be subject to the Commission’s establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

18. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.

19. Special conditions in the attached cover transmittal letter or attached exhibits are incorporated herein by reference.

20. If the ground-water source does not presently exist, the new well shall be completed, i.e. able to withdraw water for the proposed use on a regular basis, within twenty-four (24) months from the date the water use permit is approved.

**Variations of Standard Condition (20) are as follows:**

i. 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 issuance.

21. This permit may not be transferred or the use rights granted by this permit sold or in any other way alienated. Pursuant to HRS § 174C-59 and the requirements of Chapter 174C, the Commission on Water Resource Management has the authority to allow the transfer of the permit and the use rights granted by this permit in a manner consistent with HRS § 174C-59. Any such transfer shall only occur with the Commission’s prior express written approval. Any sale, assignment, lease, alienation, or other transfer of any interest in this permit shall be void.

22. The water use permit granted shall be an interim water use permit, pursuant to HRS § 174C-50. The final determination of the water use quantity shall be made within five (5) years of the filing of the application to continue the existing use.

23. The water use permit shall be issued only after agricultural review.

24. That scheduled adjustments to Oahu Sugar Co. permitted use shall be initiated upon discontinuance of agricultural uses.
25. The issuance of this permit was approved by the Commission on Water Resource Management at its meeting on <Insert Date>.

26. The permit shall be subject to the review by the Attorney General.

27. The permit holder may be required to relinquish this permit at any time or specified time after issuance to the Board of Land and Natural Resources in accordance with Chapter 166 of Title 13.

28. The applicant shall obtain the necessary land acquisition documents from the Hawaii Housing Authority.
Special Conditions List

1. Should an alternate permanent source of water be found for this use, then the Commission reserves the right to revoke this permit, after a hearing.

2. In the event that the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.

3. The applicant shall contact the Environmental Management Division, State Department of Health, at 586-4304, concerning “GUIDELINES APPLICABLE TO GOLF COURSES IN HAWAII” date <Insert Date & Version #>.

4. Standard Condition 10 is emphasized, to report consumption on a regular basis.

5. The applicant may continue this existing use of ground water within the limits approved by the Commission, and the actual issuance of the interim permit shall not be a reason to interrupt this existing use.

6. This interim water use permit shall cease to become interim and shall be subject to HRS § 174C-55 upon administrative review of the quantity within five (5) years, provided that all conditions of the use (including the review of the quantity which shall not be greater than the amount initially granted) remain the same. Enforcement of the allocation limit shall be stayed pending staff’s review and issuance of a permanent water use permit.

7. As-built drawings of the well and pump, and a complete pumping test record shall be submitted within sixty (60) days.

8. In the event the pump tests show that aquifer boundary conditions do not support the requested withdrawals, the Commission reserves the right to amend this permit, after a hearing, to a level that is supported by the pump tests.

9. The existing use may be continued within the levels approved by the Commission, and the actual issuance of the permit document shall not be a reason to interrupt the approved level of use.

10. The filing of an application by Kukui, Inc. for a new or modified water use permit for the Kualapuu Aquifer in excess of 2.0 mgd (total system withdrawal) shall be just cause for re-consideration of this interim permit by the Commission.

11. Upon completion of a new transmission line for the transport of water use by Well #17, the permit shall be modified to reduce the allocation amount by the additional 79,220 gallons per day allocated for use of the Molokai Irrigation System.

12. Within six (6) months from the date of approval of a water use permit for the well, the applicant shall conduct a feasibility study and submit a report describing
alternative sources of nonpotable water for irrigation uses at the resort area. It is suggested that the developer consider use of dual lines in the subdivisions so that effluent may be used in the existing reuse system. Another consideration is the development of brackish water wells in the Kauakoi Aquifer system for mixing with the effluent generated at the resort.

13. Within six (6) months from the date of approval of a water use permit for the well, the application shall evaluate the filter back discharges into Kakaako Gulch to determine if excessive preventable waste is occurring and identify possible measures to eliminate or reduce such waste. The evaluation shall be conducted in cooperation with the Commission staff and staff of the Department of Health’s Safe Drinking Water Branch, which regulates the drinking water system.

14. Within six (6) months from the date of approval of a water use permit for the well, the applicant shall 1) implement a leakage control and detection system and compete repairs to prevent such leakage and 2) implement use of xeriscaping and low-flow fixtures.

15. Action on the future use portion of the water use permit application for Well #17 (Well No. 0901-01) is deferred pending the establishment of existing uses in the aquifer. Kukui Inc.'s application for uses in excess of those uses existing on July 15, 1992 will be considered "new" uses and will be taken up by the Commission as soon as other existing use applications have been decided. In the interim,
   a. The Commission shall recognize that there is disagreement between the applicant's staff calculations of reasonable-beneficial existing use
   b. The Applicant will have the burden of proof to show within six (6) months reasonable-beneficial existing use calculations that support the applicant’s request as opposed to staff’s calculations.
   c. The Commission’s enforcement of the approved existing use allocation will be suspended for six (6) months.

16. The permittee shall submit a notice of intent and written request to continue the use at least ninety (90) days prior to the expiration of the interim five-year permit.

17. The Commission shall delegate to Maui Department of Water Supply the authority to allocate the use of water for municipal purposes, as provided in §174C-48(b).

18. Maui Department of Water Supply shall be exempt from the requirements for permit modifications, as provided in §174C-57(c).

19. The permittee must meter water use and monitor chloride concentrations on a monthly basis and submit monthly reports of water use and chloride concentrations to the Commission.

20. Standard Condition 16 is waived for saltwater wells.

21. The permit will be revoked if (1) stream monitoring shows that pumping the well reduces stream flow, or (2) the electromagnetic resistivity survey indicates that the
well was drilled into a dike compartment, unless the applicant submits a petition for an amendment to the interim instream flow standard with the well completion report. However, no use of the water may be made without a Pump Installation Permit, which cannot be issued during consideration of the amendment of the interim instream flow standard.

22. The applicant shall present the results of the electromagnetic resistivity survey, pump tests, and stream monitoring to a community meeting as well as to the Commission.

23. A final determination of water use quantity shall be made within five (5) years of the filing date of the application (<Insert Date>) to continue existing use.

24. The applicant shall implement, by December 31, 1995, a biological and hydraulic monitoring program for a minimum 2-year period that: 1) documents the existing operating procedure, 2) seeks to identify the impacts of all operating alternatives on Waikolu Stream, and 3) seeks to identify the effectiveness of weir modifications (Dam No. 1). This program shall incorporate the three new wells, Wells #4-6 (Well Nos. 0855-06, -05, & -04, respectively), which may be pumped within the approved limits, for monitoring and testing purposes only. Further, semi-annual reports summarizing data and preliminary findings shall be submitted to the Commission. It is suggested that the Department of Agriculture work with the State Division of Aquatic Resources and other affected agencies to prepare the monitoring program in light of the difficult technical questions raised by this application. A particular concern is the coordination of this monitoring program with the ongoing National Park Service study by Anne Brasher. A draft of this plan shall be submitted to the Commission staff within ninety (90) days for technical review and comment. Results of the monitoring program shall be used to make recommendations to the Commission on any additional use of the wells, and shall be made readily available to all interested parties.

25. That the Commission approves the well construction permit for the Kamilolaoa-Waiola Well (Well No. 0759-01), subject to the standard well construction conditions and the special conditions for the pumping well for the aquifer tests.

26. That the Commission authorizes the Chairperson to approve and issue a pump installation permit upon acceptance of adequate pump test result, subject to the standard pump installation conditions.

27. Should the well be used for back-up domestic supply, applicant is advised to contact DOH or otherwise ensure safe drinking water quality is maintained.

28. The applicant shall follow the agreed monitoring plan.

29. If pesticides used by the applicant are found in ground or surface water and can be traced to the applicant’s use, the CWRM may revoke the permit immediately upon such finding.
30. Issuance of the interim permit shall be withheld until the reservation of water for DHHL is set by rule. Applicant may continue this existing use within the approved limits.

31. The applicant shall submit well modification and pump installation permit applications for administrative approval by chairperson prior to beginning any work required to complete well.

32. Should any stream flow impacts result from use, petition to amend interim instream flow standards shall be submitted.

33. Should any dewatering result from use, pumping shall cease immediately.

34. Shall submit accurate schematic diagram of distribution system for the battery of 5 wells.

35. Shall be subject to a 6-month independent audit & monitoring.

36. Final pump capacity shall be determined from pump test results & approved administratively by signature of chair.

37. The permittee shall seek and submit to the Commission within ninety (90) days written confirmation from the Department of Land Utilization of the non-conforming use.

38. Pumping shall cease immediately if the chloride reports show that the brackish water developed in the well exceeds 1,000 mg/l of chloride, unless a variance from the chloride limit has been granted. The authority to approve future variance requests is delegated to the chairperson.

39. The duration of the interim permit shall be:
   a. To July 1, 2006, or
   b. Until treated wastewater is available and acceptable for use, or
   c. Until such time that a significant change in permitted, actual, or projected uses or water supply occurs.

40. Action on any interim permit may be initiated by the Commission or any permittee upon letter request or pursuant to §174C-57 Haw. Rev. Stat. (Modification of permit terms).

41. This permit is approved under the assumption that wastewater will become available for reuse as an alternative supply source.

42. Require adherence to the chloride sampling protocol and the submittal of weekly chloride data. The authority to approve variances from the weekly reporting requirement is delegated to the Chairperson.

43. Require adherence to the Conservation Conditions.
44. In the event a water shortage is declared by the Commission, permittees in the <Insert Aquifer System> shall comply with the <Insert Aquifer System> water shortage plan adopted by the Commission.

45. The permittee shall contact the Department of Health, Clean Water Branch and obtain the necessary discharge permit(s).

46. Permit shall be interim and replaces existing WUP for 2051-07 & 11.

47. Applicant shall submit an acceptable archaeological inventory survey report to DHP. If historic sites affected, a plan to mitigate these affects must be accepted by DHP and completed by applicant.

48. Should the well be used for back-up domestic supply, applicant is advised to contact DOH or otherwise ensure safe drinking water quality is maintained.

49. (The permittee) may report monthly pumpage on yearly basis.

50. Prior to issuance of any permits, must submit filing fee for after-the-fact pump installation permit.

51. The term of this permit shall be twenty years from the date of issuance of the permit with a five-year Board review to determine compliance with the provisions of the permit.

52. The amount of water to be withdrawn under this permit shall be 0.19 mgd, averaged annually, for irrigation use. This permitted use of 0.19 mgd when added to a preserved use of 0.27 mgd amounts to a total of 0.46 mgd, averaged annually, which may be withdrawn from well 1646-01.

53. The use authorized by the permit must not interfered substantially and materially with existing individual household uses and existing uses.

54. The use of this well shall be subject to the shortage and emergency powers of the Board of Land and Natural Resources (BLNR).

55. This permit may be suspended or revoked, in accordance with Chapter 166.

56. The permit holder may be required to relinquish this permit to BLNR, in accordance with Chapter 166.

57. The withdrawal from Well 1646-10 shall be recorded and reported to DLNR on a monthly basis by the permittee.

58. In the event that emergency water use occurs, the permittee shall notify the Commission in writing within one (1) day of pumping, to in form the Commission as to the nature of the emergency and the expected duration of the emergency. A water
use report shall also be filed pursuant to Standard Condition 10 and Administrative Rule 13-168-7.

59. Note DOH's requirements related to non-potable water systems (attached to original permit).

60. Standard Condition 16 requiring the submittal of a water shortage plan is waived.

61. All non-potable spigots and piping shall be clearly labeled as "DO NOT DRINK, NON-POTABLE" to prevent direct human consumption.

62. Standard Condition 10 is modified. Due to the inability to take water level measurements, the requirement to measure monthly water levels is waived. In addition, as long as the U.S. Geological Survey is collecting and analyzing the chloride content of the well water, the requirement for the permittee to measure and report chlorides is also waived.

63. Well elevation components must be surveyed by a licensed surveyor and this information must be submitted to commission prior to issuance of permanent permit.

64. The permittee shall obtain approvals from the Department of Health and the U.S. Environmental Protection Agency prior to use of the water.

65. This water use permit, WUP No. <Insert #>, shall supersede WUP No. <Insert #>.

66. WUP No. <Insert #> is revoked

67. Standard Condition 17 is waived.

68. Standard Condition 22 for interim water use permits shall not apply.

69. To supplement our records, we request that you provide a map of the Galbraith Est. lands west of Wahiawa (2100 ac+) and the associated TMK's for use area.

70. Deferred action on portion requested for golf course irrigation pending further refinement of irrigation requirement and a feasibility study for utilization of surface water sources, including Wahiawa Reservoir.

71. Written justification be provided for any 'cushion' of 0.5 mgd.

72. The water use permit shall be an interim permit. The duration of the interim permit shall be until treated wastewater is available and acceptable for use. The permittee shall continue discussions with Honolulu Board of Water Supply regarding the use of reclaimed water.

73. The permittee is put on notice that this is a qualified approval in that this permit may be modified or revoked prior to the expiration of the interim permit if the
Commission decides that the use of additional basal ground water for dust control and landscape irrigation is not reasonable-beneficial use.

74. The permittee encouraged to use drought-tolerant landscaping to conserve water.

75. Should the applicant provide written evidence that the county DHCD approves a 201E exemption for the elderly affordable housing project then the applicant may modify a corresponding portion of their existing aquacultural use to be used by the exemption approved project within the Commission approved water use permit limits under recommendation 5.

76. The applicant shall obtain a water lease/permit from Land Division prior to actual use of the well water.

77. Require the permittee to sign a contract by May 14, 1998 with the City Department of Wastewater Management to buy and use 0.400 mgd of R-1 water for a corresponding reduction in allocation for Well Nos. 1900-02, 17 to 20, and 1901-03.

78. Standard Condition 9 is waived.

79. Standard Condition 10 is modified to exempt the permittee from monthly measurements of salinity and temperature.

80. Standard Condition 10 is waived.

81. Applicant must seek a determination from BLNR and Land Mgt Div as to whether water license required. If required, license must be obtained prior to issuance of permit. If not, permit will be issued w/out further action.

82. Commission defers action on use in excess of 452,000 gpd pending additional info from BWS and further staff analysis.

83. The permit shall be subject to the Commission’s sustainable yield review by December 1990.

84. The Commission shall delegate to the Honolulu Board of Water Supply the authority to allocate the use of water for municipal purposes, in accordance with §174C-48(b) HRS.

85. Honolulu Board of Water Supply shall be exempt from the requirements of permit modifications as provided in §174C-57.

86. BWS must participate in discussions, to be coordinated by Commission Staff, regarding a monitoring program to address impacts to Kaneohe Bay water quality, prior to any action on applications for future municipal uses.

87. A pump installation permit application must be made and approved prior to the installation of a permanent pump.
88. The water withdrawn shall be 0.7 mgd for municipal use.

89. The installed pump capacity of the well shall not be more than 700 gpm or 1.01 mgd.

90. The term of permit shall automatically expire twelve months from the date of issuance.

91. The Honolulu Board of Water Supply may continue to submit monthly water data on their own form, provided that the data are submitted in a format that is acceptable to the Commission staff.

92. Standard Condition 7 shall not apply.

93. Standard Condition 22 shall not apply.

94. Standard Condition 10 is modified to exempt the permittee from monthly measurements of salinity and temperature.

95. This permit shall be subject to conditions providing for stream restoration if the Commission determines that additional water should be returned to the streams.

96. HECO 1 mgd for industrial use

97. Campbell Estate 1 mgd for municipal use through BWS, by separate agreement with HECO

98. BWS 1 mgd for municipal use.

99. The permit shall be subject to the Commission’s sustainable yield review by <Insert Date>.

100. The applicant shall obtain the current version of the Department of Health’s Guidelines Applicable to Golf Courses in Hawaii. Where relevant and viable, items of the guidelines should be implemented and sustained appropriately. To obtain the current version, contact the Safe Drinking Water Branch, Environmental Management Division at 808-586-4258 (Honolulu).

101. The future use portion of the application shall be deferred until existing uses in the Koolauloa area are established.

102. The water to be withdrawn under this permit shall be a total of 0.03 mgd (0.02 mgd preserved plus an additional 0.01 mgd permitted use), averaged annually, for domestic and irrigation use

103. Existing wells 1851-09 shall be properly sealed by a licensed drilling contractor. A well modification permit application, enclosed, shall be submitted to the Department for approval of the well sealing. A filing fee for sealing the well will not be required.
104. The permittee is required to test the source using a certified private laboratory and submit the test results to the Commission within three (3) months. The Commission will then forward the results to the Department of Health for their review. The Department of Health recommends that the well be routinely tested for microbiological and chemical parameters thereafter.

105. The permittee is required to submit a completed Registration of Well and Declaration of Water use by <Insert Date>.

106. The permittee shall contact the Department of Health for a written determination on the status of their water system and comply with any Department of Health requirements for monitoring and testing.

107. In the event that the original spring source decontaminates, the new well authorized will be shut down.

108. That within each aquifer the total permitted use shall not exceed the sustainable yield.

109. That any water available for allocation shall be for in-district use.

110. That scheduled reductions to Oahu Sugar Co. permitted use shall be initiated upon final termination of an Osco lease or sub-lease, whichever occurs later.

111. That permits for water use issued in accordance with the proposed schedule shall be interim permits subject to review and adjustment by 1995.

112. That the permit shall be an interim permit for a new use which is afforded to existing users as specified in §13-171-20.

113. That the original allocation of 0.200 mgd shall be taken to hearing for possible revocation at a later date to complete the transfer of the water use permit entirely to Well No. 3407-02. This revocation would reduce the current allocation afforded to the Kunihiro Well (Well No. 3406-06) to zero.

114. This allocation incorporates the unspecified domestic needs of the applicant and therefore necessitates a single meter be installed at the well.

115. Should any impacts to nearby wells or streams be established by the use of this well, the applicant shall address these issues to the satisfaction of the Commission.

116. If an economically feasible nonpotable source is identified, the applicant shall convert to the alternative nonpotable source.

117. The permit shall be subject to the Chairperson’s approval of a water use plan recommending possible measures to prevent or minimize saltwater contamination and establish courses of action to follow should the aquifer become to saline to use.
118. Permittee shall provide the necessary end-use information on the 10th residence to allow regulation of the use under Chapter 174C.

119. Standard Conditions 10 & 18 shall not apply.

120. Standard Condition 10 is modified to exempt the permittee from the requirement to install a flowmeter. Salt water withdrawals may instead be estimated based on pumping capacity and run time.

121. The applicant shall review the existing year long period of pumpage and streamflow data and provide analysis on ground and surface water interaction. Deadline is January 25, 1994.

122. The water use permit for Well Nos. 2301-27 to -32 for 0.75 mgd (WUP No. 419) shall be revoked upon issuance of a pump installation permit for the well.

123. The permittee shall use mulching to decrease evaporative losses and manage irrigation scheduling to minimize water demand.

124. The permittee shall submit a detailed agricultural plan to support any future water use permit application for increased agricultural use at this parcel.

125. If not already obtained, the permittee shall seek and obtain any necessary permits from the Department of Health for the proposed discharge to Malaekahana Stream.

126. Standard Condition 10 is modified to waive the requirement for installing a water meter on Well Nos. 2358-21, 22, and 29. The permittee shall install a water meter on Well No. 2358-26 to measure total monthly flow through the discharge line. This quantity should then be assumed to be the rate of natural flow from the other three wells for monthly reporting purposes.

127. The permit shall be effective upon submittal of documentation by Navy that it has met the DOH requirements for a public system.

128. This WUP shall be subject to Army's application for a WUP to reduce the permitted use of the Army's Schofield Shaft (2901-02 to 04, 10) by 0.208 mgd to a new total of 5.648 mgd. The Army's application shall be submitted within 60 days after the approval of this WUP or this WUP shall be void. Approval of the modification request shall be obtained from the CWRM prior to use of Well No. 3100-02 and issuance of this WUP.

129. Navy shall submit an after-the-fact PIPA, and approval of the permit shall be obtained prior to use of the well.

130. The well shall not be used for drinking water purposes unless it is properly tested and treated.
131. This permit is approved subject to reclaimed water becoming a practical alternative and provided that the Department of Health approves the reuse application.

132. Should any opae ula be recovered in the well water, the permittee shall notify the Division of Aquatic Resources and provide specimens to the Division of Aquatic Resources for analysis.

133. If a single meter at the well is used, the Commission shall allow an additional 1,000 gallons per day to the water use permit amount for the domestic needs of two residences, although a permit for individual domestic consumption is not required. Otherwise, the applicant must provide a meter to separately measure the irrigation consumption.

134. This permit is approved under the requirement that conversion to either: 1) treated wastewater becoming available for reuse as an alternative supply source, provided that Department of Health concerns over the use of treated effluent over the potable water aquifer have been addressed; and/or 2) other nonpotable source becoming available will occur in a timely manner.

135. These permits shall be subject to a review of actual use within four years for possible modification of the permitted amount.

136. The permit shall be reviewed in two (2) years for possible additional revocation due to nonuse.

137. The allocation is based on the projects listed in Exhibit 5 (of Item 10 of the May 20, 1998 Staff Submittal), except for the Queen’s Beach GC (TMK 139-11-2,3), Lot 9 (TMK 139-17-51), and Varsity Place (TMK 128-24-35).

138. Kamehameha Schools Bishop Estate/Honolulu Board of Water Supply shall transfer the water use permit within ninety (90) days of the effective date of the transfer of the pump station to the Honolulu Board of Water Supply, pursuant to §174C-59 Hawaii Revised Statutes.

139. The permittee shall ensure that the water is recycled by either directing it into the Waiahole Ditch for use by downstream farmers (subject to the approval of the Agribusiness Development Corporation’s Board) or into Waiea Lake Farm’s existing irrigation system.

140. The permittee shall file a completed application to modify WUP No. 758 to reduce the allocation by 0.100 mgd within 60 days. If a completed water use permit modification application is not received within 60 days from this submittal’s date, then the subject water use permit application (WUPA No. 767) shall be deemed denied without prejudice without the need for another hearing.

141. The water withdrawn shall be for municipal use. No improvements to the existing sources are required as the existing source capacities are greater than the increase.
142. Water license must be determined through LM.

143. Proposed other uses will be considered at a later date.
Water Use Permit Survey
(Please complete one survey form for each WUP)

WUP Number: 752, 759
Well Number(s): 1900-21, 1959-08, 1900-22

Contact Information (of the person who will be present at site visit):
Name: Bryan Grady
Phone (for phone interview): 689-3362 - 391-2126  Fax: 689-4208
Email: BryanGrady@EwaBeachRC.com
Best time to reach for phone interview: 9:00 AM - 2 PM

Property Information (of the water use/well location):
Address: 91-050 FT. WAINALI
City: Ewa Beach
Well Location TMK (list all if multiple wells present): #6 T49R 1S 15E
Water Use TMK (list all if used on multiple lots):

Water Use/Well Information:
Is the water source currently in use? [ ] Yes [ ] No [X]
If no, please explain: SWITCH TO R2 USE BUT WOULD LIKE TO RETAIN WELL PERMITS

What are you currently using the water for? (example: "Use for 45 acres of diversified agriculture and 3 residences").
TO COVER GOLF COURSE PROPERTY

[ ] Yes [ ] No [X]
If no, please explain: NOT IN USE

Is a flow meter installed and working properly? [ ] Yes [ ] No [X]
If no, please explain: NOT IN USE

Do you submit monthly water use reports to the State? [ ] Yes [ ] No [X]
If no, please explain: NOT IN USE

Field Investigations:
A representative from Brown and Caldwell will be visiting wells in your area over the next several months between the times of 9:00 am and 5:00 pm. Each site investigation will take approximately 1-2 hours. Please indicate up to three potential days of the week and availability times for an on-site inspection of the well location and verification of water use compliance. The permit holder must provide Brown and Caldwell with at least five (5) working days notice of the need to reschedule.

Option #1 Date (M/F): 3/17/08  Time: 9:00 am  12:00 pm  3:00 pm
Option #2 Date (M/F): 3/18/08  Time: 9:00 am  12:00 pm  3:00 pm
Option #3 Date (M/F): 3/20/08  Time: 9:00 am  12:00 pm  3:00 pm

Once this survey is returned, a Brown and Caldwell representative will be contacting you to conduct a phone interview and finalize the exact date and time of your field investigation. Please fax/mail completed surveys by March 5th, 2008 and direct any questions related to this survey to Mr. Milo Smith of Brown and Caldwell at:
1099 Alakea Street, Suite #2400
Honolulu, HI 96813
Tel: (808) 203-2661
Fax: (808) 533-0225
msmith@brownclald.com
Phone Interview

WUP Number: 752
Well Number(s): 1900-22, 1951-08

Contact Name: Bryan Grady
Phone Number: 689-3342/391-2126

Attempt #1: Date/Time: Result:

Attempt #2: Date/Time: Result:

Well Location TMK(s): 9-1-001.027
Water Use TMK(s): 9-1-001.027

Water Source Address: 91-050 Fort Weaver Rd
City: Ewa Beach Zip Code: 96706

Currently using water source? Yes ☐ No ☒

Notes/Comments: Golf course has switched over to R-1

How often is the water source being used? Daily ☐ Weekly ☐ Monthly ☐

Notes/Comments: not in use

How long have you been using this water source?: ?

Has there been any rezoning of the water source/water use properties? Yes ☐ No ☒

Have you reported the rezoning to the State? Yes ☐ No ☐ N/A ☒
If no, explain:

Scheduled field investigation day/time: May 6th, 2008 10:00 am

Notes (Special directions, site conditions, potential hazards, general notes, etc.):
- Ewa Beach Golf Club

Comments To Make:
- Although we prefer that you do not change your scheduled field investigation time, if you require a reschedule, you must provide Brown and Caldwell with at least five (5) working days notice of the need to reschedule.
- A representative from Brown & Caldwell will be making a reminder phone call to you sometime during the week prior to your scheduled field investigation.
- It is very important that you provide access to the site at the day and time agreed upon. Due to a very tight schedule, if you fail to provide access at the agreed upon time and/or do not reschedule with at least a five (5) working day notice, a makeup date will not be allowed.
- If for some reason you don’t know where your well head is located, it would be a good idea to locate it prior to your field investigation to help make the visit go quickly and smoothly.

Interviewed By: ☐ Date: 3/1/09 Time: 9:00 AM
Field Investigation Checklist

WUP Number: 752  
Well Number(s): 1900-22, 1959-08

**Water Source**
Well Location TMK(s): 9-1-001.030
Well Head GPS Coordinates: 1900-22, Latitude: 21° 19' 25.2", Longitude: 157° 59' 51.9"
Well Type: Drilled
Currently using water source?  Yes ☐  No ☐  
Notes/Comments: Not in use, currently using potable water

Is there a flow meter installed?  Yes ☐  No ☐
Is the flow meter operational?  Yes ☐  No ☐
Notes/Comments: Pump/meter broken

**Water Use**
Water Use TMK(s): 9-1-001.030
What is the water being used for?  Used to irrigate golf course

Is the water being used within the permitted boundaries?  Yes ☐  No ☐
If no, explain: N/A  Not using water

Is there any observed wasting of water or water loss?  Yes ☐  No ☐
If no, explain:

Are the permit conditions being complied with?  Yes ☐  No ☐
If no, explain:

**Other**
Photographs of:  
Water Source ☐  Usage Area ☐
Water Meter ☐  Pump/Motor ☐

General Notes/Comments:

1958-03 - well not found, water being used that since is subtle.

Investigated By:  ☐  Date: 9/8/03  Time: 10:00am
752.wup

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Young Sun Kim
YHB EWA LLC
4801 Wilshire Blvd., Ste. 220
Los Angeles, CA 90010

Dear Mr. Kim:

Transfer of Water Use Permit for Well Nos. 1900-22 & 1959-08
Puuloa Ground-Water Management Area, Oahu

This is in response to an October 17, 2005 Request to Transfer Water Use Permit, which was submitted by Mr. Owen H. Matsunaga of Gerson & Hieneman, Attorneys at Law. This letter transmits your water use permit for Puuloa Dug Wells A & B (Well Nos. 1959-08 & 1900-22, respectively) for use of 0.600 million gallons per day (mgd) of water on a 12-month moving average basis that was approved by the Commission on Water Resource Management (Commission) on April 28, 1993. As part of the Commission's approval, the following special conditions were added and are part of your permit under Standard Permit Condition 19:

**Special Conditions**

a. Should an alternate permanent source of water be found, the Commission reserves the right to revoke the permit, after a hearing.

b. In the event that the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.

c. Pumping shall cease immediately if the chloride reports show that the brackish water developed in the well exceeds 1,000 mg/l of chloride, unless a variance from the chloride limit has been granted. The authority to approve future variance requests is delegated to the Chairperson.

d. This permit is approved under the assumption that wastewater will become available for reuse as an alternative supply source.

Enclosed with this letter of approval are the following:

1. Your water use permit
2. Your official monthly water use report form
Mr. Young Sun Kim  
Page 2  
November 22, 2005

Please be sure to read the conditions of your approved permit.

We draw your attention to two key conditions of your permit that require your response. First, you are required to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report form. You should make copies of the enclosed report form as needed.

Second, you are required to submit a water shortage plan to the Commission within thirty (30) days of the issuance date of this permit. Your water shortage plan simply identifies what you are willing to do should the Commission declare a water shortage situation in the Puuloa Ground-Water Management Area and can be as short as a one page letter. In a water shortage situation, the Commission may require temporary reductions in pumpage from all sources. The Commission is required, by law, to formulate a plan to implement such area-wide reductions, which should accommodate, include, and be consistent with your plans. Therefore, your help, by submitting your water shortage plan, is greatly needed in formulating the Commission's overall Water Shortage Plan.

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

Sincerely,

Peter T. Young  
Chairperson

Attachments

C: Ikuyo Kato, New Ewa Beach Golf Club, Inc., fka Honolulu Kosaido, Inc.  
Owen Matsunaga, Gerson & Hieneman
GROUND-WATER USE PERMIT
WUP NO. 752

PERMITTEE

<table>
<thead>
<tr>
<th>Permittee/Water User</th>
<th>Landowner of Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>YHB EWA LLC</td>
<td>Same</td>
</tr>
<tr>
<td>4801 Wilshire Blvd., Ste. 220</td>
<td></td>
</tr>
<tr>
<td>Los Angeles, CA 90010</td>
<td></td>
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</tbody>
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PERMITTED SOURCE INFORMATION

<table>
<thead>
<tr>
<th>Island</th>
<th>Oahu</th>
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<tbody>
<tr>
<td>Water Management Area</td>
<td>Ewa Caprock</td>
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<tr>
<td>Aquifer Sector</td>
<td>Puuloa</td>
</tr>
<tr>
<td>Aquifer System</td>
<td>Na</td>
</tr>
<tr>
<td>System Sustainable Yield</td>
<td>Na</td>
</tr>
<tr>
<td>Well Name</td>
<td>Puuloa Dug Wells A &amp; B</td>
</tr>
<tr>
<td>State Well No.</td>
<td>1959-08 &amp; 1900-22</td>
</tr>
</tbody>
</table>

PERMITTED USE INFORMATION

<table>
<thead>
<tr>
<th>Reasonable beneficial use</th>
<th>Golf Course Irrigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Withdrawal (12 month moving ave.)</td>
<td>0.600 mgd</td>
</tr>
<tr>
<td>Chloride Cap</td>
<td>1,000 mg/l</td>
</tr>
<tr>
<td>Location of water use</td>
<td>New Ewa Beach Golf Club</td>
</tr>
<tr>
<td>TMK #</td>
<td>9-1-01:30</td>
</tr>
<tr>
<td>State land use classification</td>
<td>Na</td>
</tr>
<tr>
<td>County zoning classification</td>
<td>Na</td>
</tr>
</tbody>
</table>

Pursuant to Hawaii's State Constitution, Article XI, Section 7, Hawaii Revised Statutes, Chapter 174C; Hawaii Administrative Rules, Chapters 13-167 through 13-171; and Hawaii decisional law and custom, the permittee is hereby authorized to use ground water from the sources and in the amount and from and upon the locations described above; subject however, to the requirements of law including but not limited to the following conditions:
1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial uses means "the use of water in such a quantity as is necessary for economic and efficient utilization which is both reasonable and consistent with State and County land use plans and the public interest." (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground-water use here must not interfere with surface or other ground-water rights or reservations.

5. The ground-water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its April 28, 1993 meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

9. This permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   a. protect the water sources (quantity or quality);
   b. meet other legal obligations including other correlative rights;
   c. insure adequate conservation measures;
   d. require efficiency of water uses;
   e. reserve water for future uses, provided that all legal existing uses of water as of June, 1987 shall be protected;
   f. meet legal obligations to the Department of Hawaiian Home Lands, if applicable; or
   g. carry out such other necessary and proper exercise of the State's and the Commission's police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

10. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis (attached).
11. This permit shall be subject to the Commission's periodic review of the Puuola Aquifer System's sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the Puuola Aquifer System, or relevant modified aquifer(s), is reduced.

12. A permit may be transferred, in whole or in part, from the permittee to another, if:
   a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of the use, remain the same; and
   b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer, which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

13. The use(s) authorized by law and by this permit do not constitute ownership rights.

14. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances that will affect the permittee's water use.

15. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservation, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period of forfeiture.

16. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the Puuola Ground-Water Management Area.

17. The water use permit shall be subject to the Commission's establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

18. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.

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

W. Roy Handy

PETER T. YOUNG, Chairperson
Commission on Water Resource Management

Attachment
DESCRIPTION


WELL
A. OWNER Pualoa Homes Ltd. NAME State #1900-16 ISLAND Oahu
B. GENERAL LOCATION Ewa, Oahu
C. DRILLING COMPANY Roscoe Moss Company
D. TYPE OF RIG 24L DRILLING COMPLETED March '88 DRILLER Hal Fenton month year

E. ELEVATION, msd: Top of drilling platform ft. Bench mark and method used to determine
   Height of drilling platform above ground surface ft. elevation:

F. HOLE SIZE: 12" inch dia. to 33 ft. below drilling platform,
   ..... inch dia. to ..... ft. below drilling platform,
   ..... inch dia. to ..... ft. below drilling platform.

G. CASING INSTALLED: 8 in. I.D. x PVC in. wall solid section to 33 ft. below drilling platform,
   8 in. I.D. x PVC in. wall perforated section to 33 ft. below drilling platform.
   Type of perforation 3/8" drilled holes

H. ANNULUS: Grouted ft. to ft. below drilling platform,
   Gravel packed ft. to ft. below drilling platform.

I. PERMANENT PUMP INSTALLATION:
   - Pump type, make, serial no.
   - Capacity g.p.m.
   - Motor type, H.P., voltage, r.p.m.
   - Depth of pump intake setting ft. below which elevation is ft.
   - Depth of bottom of airline ft. below which elevation is ft.

HYDROLOGY

J. INITIAL WATER LEVEL ft. below drilling platform, Date of measurement March 16, 1988
K. INITIAL CHLORIDE: ppm, total depth of well ft. below drilling platform

L. PUMPING TESTS:
   Reference point (R.P.) used: Ground which elevation is ft.
   Sampling Date
   Date March 18, 1988
   Start water level ft. below R. P. ft. below R. P.
   End water level ft. below R. P. ft. below R. P.
   Depth of well ft. below R. P.

<table>
<thead>
<tr>
<th>Elapsed Time (hours)</th>
<th>Rate (gpm)</th>
<th>Drawdown (ft.)</th>
<th>Cl- (ppm)</th>
<th>Temp. (°F)</th>
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</thead>
<tbody>
<tr>
<td>10:30 to 11:30</td>
<td>350</td>
<td>3.5&quot;</td>
<td>510</td>
<td>Hatch Kit</td>
</tr>
<tr>
<td>11:30 to 12:30</td>
<td>350</td>
<td>3.7&quot;</td>
<td>540</td>
<td>&quot;</td>
</tr>
<tr>
<td>12:30 to 1:30</td>
<td>350</td>
<td>3&quot;</td>
<td>540</td>
<td>&quot;</td>
</tr>
<tr>
<td>1:30 to 2:30</td>
<td>350</td>
<td>2.7&quot;</td>
<td>540</td>
<td>&quot;</td>
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</table>

SUBSURFACE FORMATION

M. DRILLER'S LOG:

<table>
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<tr>
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<tbody>
<tr>
<td>0 to 20</td>
<td>Coral, White Firm</td>
<td></td>
<td>to</td>
<td></td>
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</tr>
<tr>
<td>20 to 33</td>
<td>Coral</td>
<td></td>
<td>to</td>
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<td></td>
</tr>
</tbody>
</table>

FOR OFFICIAL USE
Latitude 21° 19' 31"
Longitude 158° 00' 00.5"
Well No. 1900-16
STATE WELL NO.: 1900-16
WELL NAME OR DESIGNATION: Puuoa Homes, Capek
ISLAND: OAHU
SOURCE OR STATION NAME (For a battery of wells): 

A. WELL OPERATOR
Firm name: Puuoa Homes, Ltd.
Contact person: Bill Dornbusch, Vice Pres.
Address: 745 Fort St, Suite 311
Honolulu, HI 96813
Zip: 96813 Phone: 531-2765

B. OWNER OF WELL SITE
Firm name: Puuoa Homes, Ltd., Inc.
Contact person: Bill Dornbusch, Vice Pres.
Address: Suite 311, 745 Fort St
Honolulu, HI 96813
Zip: 96813 Phone: 531-2765

C. WELL LOCATION
Makahiki North Road
Tax Map Key: 9-1-01-27 Town, Place, District: Ewa Beach, Ewa, Oahu
Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

D. WELL DATA
See Attached Driller's Report

For Drilled Wells, submit "as-built" drawing, driller's log, and pump test results, and complete items below. For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.

Ground elevation (Mean Sea Level): 137 ft
Reference point (used to measure depth to water): Elevation: 137 ft
Description: 

Depth to water (below reference point): 116 ft
Maximum recorded chloride: 540 ppm
Minimum recorded chloride: ppm
Maximum chloride in 1987: ppm

Year drilled or constructed: 1988
Well contractor: Rossi Moss Company
Casing diameter: 12 in.
Solid casing depth (Below ground): 13 ft
Perforated casing depth (Below ground): 20 ft
Total depth of well: 33 ft
Minimum chloride in 1987: ppm

E. INSTALLED PUMP DATA
Pump type: ☐ Vertical shaft ☐ Submersible ☐ Centrifugal ☐ Other (specify): 
Power: ☐ Diesel, ___ HP ☐ Gas, ___ HP ☐ Electric, ___ HP ☐ Other (specify): 
Pump capacity: ___ gallons per minute
Pump installation contractor: 

(continued over)

For Official Use Only:
Date received: 2/27/89 Date accepted: 
Field checked by: ___ Date: ___ Latitude: 21 19' 31" Hydrologic Unit: 
Comments: 

State Well No.: 1900-16

References: Hawaii Revised Statutes, Chapter 174C.
Hawaii Administrative Rules, Chapters 13-167 to 13-171.
### F. DECLARATION OF WATER USE

**Well drilled March 1988**

**NOTE:** The purpose of the Declaration of Water Use is to obtain information necessary for the management of the State's water resources. The Declaration does not confer a legal right to water or its use.

Water use data are recorded: □ Daily  □ Weekly  □ Monthly  
□ Other (Describe): __________________________

Method of measurement:  □ Flow Meter  □ Orifice  
□ Other (Describe): __________________________

Quantity of Use (Report metered or estimated monthly water use from the well described on the reverse side of this form, for the calendar years 1983 through 1987. For a battery of wells which are not individually metered, but which are connected to a single meter or other measuring device, report total use from the battery):

<table>
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<tr>
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<tr>
<td>November</td>
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<tr>
<td>December</td>
<td></td>
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</tbody>
</table>

**ANNUAL**

Minimum day's use: ___________________ gallons  Maximum day's use: ___________________ gallons

Typical times of usage: __________________________

**Type of Use** (Check all category boxes that apply and provide additional information as indicated):

- □ Municipal (including resorts, hotels, businesses)
- □ Domestic (systems serving 25 people or less)
- □ Irrigation
- □ Industrial
- □ Military
- □ Other

**Additional Information**

- Number of service connections: __________________________
- Acres Irrigated: __________________________
- Crop(s): □ Sugar  □ Pineapple  □ Other (specify): __________________________
- Non-Crop: □ Landscape  □ Golf Course  Proposed
- Method: □ Drip  □ Furrow  □ Sprinkler  □ Other (specify): __________________________
- □ Cooling  □ Manufacturing  □ Mill  □ Other (specify): __________________________
- Specify (livestock, aquaculture, etc.): Proposed Golf Course  Proposed Golf Course  Project

I declare that the contents of the above Declaration of Water Use are, to the best of my knowledge and belief, true, correct, and complete.

**Water User's Signature:** William J. Dornback  **Date:** Feb 22, 1987

**Printed Name:** William J. Dornback  **Title:** Vice Pres

**Firm or Title (Well Operator, etc.):** Punalu'u Homes, Ltd.

311 Hawaii Blvd, 745 Fort St.

Honolulu, Hawaii 96813
Commission On Water Resource Management  
Department Of Land And Natural Resources  
State Of Hawaii  
P. O. Box 621  
Honolulu, Hawaii 96809

Attention: Mr. Manabu Tagomori  
Deputy Director

Gentlemen:

Subject: Registration of Well and Declaration of Water Use,  
State Well No. 1900-16  
TMK 9-1-01-27, Puuloa, Ewa Beach, Oahu

In response to your request we are pleased to submit the information requested. A driller's report is also enclosed.

Construction of the golf course is expected to begin in 1989. Thank you for your assistance in this matter.

Sincerely,

PUULOA HOMES, LTD.

William J. Dornbush  
Vice President

WJD/jjg  
Enclosures

cc: Herbert K. Horita Realty, Inc.  
Park Engineering
DESCRIPTION
Date of report March 22, 1980 Person filing report Lorin H. Oells

A. OWNER Puahea Homes Ltd. NAME State 1900-16 ISLAND Oahu
B. GENERAL LOCATION Ewa, Oahu
C. DRILLING COMPANY Royce Moore Company
D. TYPE OF RIG 241 DRILLING COMPLETED March '88, DRILLER Hal Panton

E. ELEVATION, msl: Top of drilling platform ft. Bench mark and method used to determine
Height of drilling platform above ground surface ft. elevation:

F. HOLE SIZE: 12 inch dia. to 33 ft. below drilling platform.

G. CASING INSTALLED: 8 in. I.D. x PVC in. wall solid section to 33 ft. below drilling platform.

H. ANNULUS: Grouted 0 ft. to 10 ft. below drilling platform.

I. PERMANENT PUMP INSTALLATION:
- Pump type, make, serial no. Capacity g.p.m.
- Motor type, H.P., voltage, r.p.m.

J. INITIAL WATER LEVEL 15 ft. below drilling platform. Date of measurement March 16, 1988
K. INITIAL CHLORIDE: ppm, total depth of well ft. below drilling platform

L. PUMPING TESTS:
   Date March 18, 1988
   Start water level 11' 7" ft. below R. P.
   End water level 11' 7" ft. below R. P.
   Depth of well 33 ft. below R. P.

   Rate Draw- CI- Temp.
   (ppm) down (ft.) (ppm) 
   10:30 to 11:30 350 3' 540 Hatch Kit
   11:30 to 12:30 350 3' 540
   13:30 to 13:30 350 3' 540
   14:30 to 15:30 350 2' 540

M. DRILLER'S LOG:

   0 to 20 Coral White Firm
   20 to 33 Coral

N. REMARKS:

HYDROLOGY

SUBSURFACE FORMATION

FOR DRILLER'S USE

INSTRUCTIONS: Send three(3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P. O. Box 373, Honolulu, Hawaii 96809.

Po'oula Caprock Well
Ewa, Oahu

Cap

8" PVC Sch 40

Cement Grout 10' FT

Cement Basket

Water Level 11' 7" from ground level

Perforations 20' FT

33' Total Depth

Cap
January 21, 1988

Department of Land & Natural Resources
P. O. Box 373
Honolulu, Hawaii 96809

Gentlemen:

Subject: Regulation 9, Dept. of Land & Natural Resources
Proposed Ewa Puuloa Golf Course

Transmitted herewith for your approval are the following:

1. Well Drilling Permit
2. Plot Plan showing location of well
3. Permit to Withdraw Water for Beneficial Use
4. Assessment of requested water use
5. Check for $100.00 (DEPOSITED 2/3/88 FOR WELL DRILLING PERMIT)

Please call our office should additional information be required.

Sincerely yours,

ParEn, Inc.
da PARK ENGINEERING

Clarence K. Tanonaka
Executive Vice President

Enclosures
APPLICATION FOR (check one)

☐ WELL DRILLING PERMIT  ☐ WELL MODIFICATION PERMIT

Instructions: Send completed application and attachments to Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

Reference: Regulation 9, Dept. of Land & Natural Resources.

Is the well located in a Designated Ground Water Control Area?  ☑ Yes  ☐ No

If "yes", application must be accompanied by a Water Use and/or Water Supply Permit and a non-refundable filing fee of $100 payable to the Department of Land & Natural Resources. However, if application is for minor modification of well, filing fee may be waived. If "no", no filing fee is required. Filing fee is waived for federal, state, and county government agencies.

1. WELL LOCATION: Island Oahu  Tax Map Key 9-X-1-01:27. Attach a plot plan showing well location referenced to established property boundaries.

2. WATER USER  Puuolos Homes, Ltd.  Telephone  531-2765

Address  745 Fort Street, Suite 311; Honolulu, HI  Zip Code  96813

3. PROPOSED DRILLING COMPANY:  Roscoe Moss Company

4. PROPOSED WORK: ☑ Drill new well  ☐ Deepen  ☐ Redrill  ☐ Alter  ☐ Seal

☐ Abandon  ☐ Install new pump  ☐ Replace pump  ☐ Modify pump

Fill in the diagram and briefly describe the proposed work (use back of form if necessary):

PROPOSED SECTION OF WELL

Elevation at top of casing
15.0 ft., msl.

Cement Grout 15 ft.

Hole Dia. 16 in.

Total Depth 35 ft.

Rock Packing 20 ft.

Ground Elev. 13.0 ft., msl

Solid casing:
Material PVC
Length 20 ft.
Diameter 12 in.
Wall thickness Schedule 40 in.

Casing: ☑ Perforated  ☐ Score
Material PVC
Length 15 ft.
Diameter 12 in.
Wall thickness Schedule 40 in.
Openings

% Opening

☐ Municipal  ☐ Military  ☐ Agriculture  ☐ Industrial

☐ Domestic  ☐ Disposal  ☐ Other (specify) Golf Course

6. PROPOSED AMOUNT OF WITHDRAWAL: Check most appropriate box and fill in amount.

☐ Daily 600,000 gallons  ☐ Monthly  ________ gallons  ☐ Yearly  ________ gallons

7. PROPOSED PUMP OR FLOW CAPACITY:  750 gallons per minute

Signature:  William J. Dowdish

Vice Pres  Date: Jan. 19, 1988

Signature:  Willard A. Ettleson, Trustee

Landowner of Well Site Parker School Trust  Date: Jan. 19, 1988

For Official Use:

State Well No. 1900-16

DLNR Permit No.

DLNR Application No.
ASSESSMENT OF REQUESTED WATER USE OR SUPPLY

The use for which this permit is being requested is irrigation of a proposed golf course to be constructed within the Ewa Plain. Approval of this request can be considered beneficial to the potable groundwater resources of Oahu because the request is to withdraw brackish water and not potable groundwater. Therefore, high quality water from Oahu's groundwater sources will not be utilized, but will be conserved for other uses, and these sources will not be further stressed by increased withdrawals.

The beneficial purpose of another golf course on Oahu is associated with the expansion of recreation opportunities for our citizens, on the one hand, and maintenance of open space within areas designated for urban development, on the other. Both objectives are consistent with the overall planning policies adopted by the State and City and County of Honolulu.

The proposed water use is not expected to have any adverse impacts on existing permitted uses, preserved uses, and individual household uses within the area since brackish water is not currently used.