September 25, 2002

Mr. Yoshi Tanabe
Waialua Sugar Company
1116 Whitmore Avenue
Wahiawa, HI 96786

Dear Mr. Tanabe:

Notice of Action
Revocation of Water Use Permits

Pump 10 (Well Nos. 3306-01 to 12; WUP No. 135), TMK 6-5-1:002
Mill Pumps (Well Nos. 3407-02 to 10, 13, 16, 17, 20 & 21; WUP No. 47), TMK 6-7-01:5

Waialua Ground Water Management Area, Oahu

This letter serves as your official notice of action by the Commission on Water Resource Management (Commission) on the above-referenced water use permits.

By a unanimous vote of the Commission at their meeting on September 18, 2002, the Commission:

1. Revoked WUP Nos. 47 and 135.

2. Commended Waialua Sugar Company for their voluntarily actions to expend the effort and financial resources to seal former agricultural wells that are no longer needed and may pose water resource threats, and also for their voluntary relinquishment of unused water allocations so that new reasonable-beneficial uses may proceed.

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

Sincerely,

Linnel T. Nishioka
Deputy Director

LN:ss
STAFF SUBMITTAL

for the meeting of the
COMMISSION ON WATER RESOURCE MANAGEMENT

September 18, 2002
Honolulu, Oahu

Waialua Sugar Company
REVOCATION OF WATER USE PERMITS
Pump 10 (Well Nos. 3306-01 to 12; WUP No. 135), TMK 6-5-1:002
Mill Pumps (Well Nos. 3407-07 to 10, 13, 16, 17, 20 & 21; WUP No. 47), TMK 6-7-01:5
Waialua Ground Water Management Area, Oahu

PERMITTEE: Waialua Sugar Company
1116 Whitmore Avenue
Wahiawa, HI 96786

LANDOWNER: Same

LOCATION MAP: See Exhibit 1

BACKGROUND:

On September 11, 1981, the Board of Land and Natural Resources approved the certification of Waialua Sugar Company’s (WSCO) existing use of 6.620 mgd and 4.630 mgd from Pump 10 (Well Nos. 3306-01 to 12) and Mill Pumps (Well Nos. 3407-07 to 10, 13, 16, 17, 20 & 21), respectively. The water was used for sugarcane agriculture.

On June 2, 1993, the Commission on Water Resource Management (Commission) approved WSCO’s voluntary reduction in permitted use from the Waialua Ground Water Management Area. This action resulted in the reduction of the allocation for Pump 10 from 6.620 mgd to 5.0 mgd (WUP No. 135). There was no change in the allocation for the Mill Pumps, which remained at 4.630 mgd (WUP No. 47).

On April 25, 2002, WSCO submitted an application to abandon/seal the Pump 10 battery of wells.

Item 6
On May 9, 2002, a Well Abandonment Permit was issued for the Pump 10 battery, and on August 5, 2002, Well Abandonment Reports were received and accepted by the Commission.

On August 12, 2002, WSCO submitted an application to abandon/seal the Mill Pump battery of wells.

On August 28, 2002, a Well Abandonment Permit was issued for the Mill Pump battery. The permit cover letter notified WSCO that the staff was planning to recommend that the CWRM revoke the water use permit for the source because the source was to be abandoned and sealed.

On or about August 30, 2002, the staff contacted the WSCO representative and confirmed that WSCO has no objections to these proposed revocations.

RECOMMENDATION:

Staff recommends that the Commission:

1. Revoke WUP Nos. 47 and 135.

2. Commend WSCO for their voluntarily actions to expend the effort and financial resources to seal former agricultural wells that are no longer needed and may pose water resource threats, and also for their voluntary relinquishment of unused water allocations so that new reasonable-beneficial uses may proceed.

Respectfully submitted,

LINNEL T. NISHIOKA
Deputy Director

Exhibit 1 (Location Map)
Chairperson and Members
Commission on Water Resource Management
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Waialua Sugar Company
Voluntary Reduction of Permitted Water Use in the
Waialua Aquifer System, Waialua Ground Water Management Area
Waialua, Oahu

Background: Present authorized uses of ground water in the Waialua Aquifer System of the Waialua Ground Water Management Area (GWMA) total 43.114 mgd. The sustainable yield for the Waialua Aquifer System (formerly called the Waialua Subarea) was originally 60 mgd when the Board of Land and Natural Resources adopted the sustainable yield in July 1981. The Commission on Water Resource Management, in October 1991, accepted an updated table of sustainable yields for Oahu. Under the updated table, the sustainable yield for the Waialua Aquifer System was reduced from 60 mgd to 40 mgd. The new sustainable yield was formally adopted by the Commission on March 17, 1993. Authorized uses now exceed the sustainable yield by 3.114 mgd.

The Commission staff has reviewed the authorized uses versus the actual uses in the entire Waialua GWMA. Allocations in the Waialua Aquifer System are as follows:

<table>
<thead>
<tr>
<th>Allocation</th>
<th>Use (mgd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waialua Sugar Company</td>
<td>39.940</td>
</tr>
<tr>
<td>Honolulu BWS</td>
<td>2.730</td>
</tr>
<tr>
<td>Private Users</td>
<td>0.444</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>43.114</strong></td>
</tr>
</tbody>
</table>

Preliminary review of Waialua Sugar Company's pumpage data indicates that they have used less than 30 mgd of their 40 mgd allocation over the last five years (see attached graph). Water use by the Honolulu BWS and private users has not changed significantly.

Waialua Sugar Company calculated their irrigation requirements using the same methodology that Oahu Sugar Company used to determine their irrigation requirements in the Pearl Harbor area. Irrigation requirements were calculated for dry years (1983 - 1986) and wet years (1988 - 1991). Pumping required was calculated to be about 46 to 48 mgd for dry years and about 35 to 36 mgd for wet years.

Waialua Sugar Company has reviewed their water use over the past 20 years and, based on historical water use, conversion to drip irrigation, and other factors, has voluntarily reduced its permitted water use in the Waialua Aquifer System from 39.9 mgd to 36.0 mgd effective June 1, 1993. This voluntary reduction reduces the allocations in the Waialua Aquifer System to 39.174 mgd, which is less than the sustainable yield of 40 mgd, and allows an additional 0.826 mgd to be allocated.

In voluntarily reducing its allocation, Waialua Sugar Company states that they "want to be on record that sugar production is highly dependent upon water; without adequate water, yields will suffer. We cannot afford to short ourselves of water. As we understand, we can exceed the permitted use during dry periods as may be required" (See attached letter).
Chairperson and Members
Commission on Water Resource Management

June 2, 1993

RECOMMENDATION:

That the Commission accept Waialua Sugar Company's voluntary reduction of permitted use in the Waialua Aquifer System, from 39.940 to 36.0 mgd. The 3.94 mgd reduction will be taken from sources in the Waialua Aquifer System presently being determined by Waialua Sugar Company. Staff will be working with them to determine the source-by-source reductions and will bring the results to the Commission for approval.

Respectfully submitted,

RAE M. LOUI
Deputy Director

APPROVED FOR SUBMITTAL

KEITH W. AHUE, Chairperson
WAIALUA AQUIFER SYSTEM
WSCO. Use Vs. Allocation

WUP = 39.940 mgd
11.418 mgd

--- monthly use
--- 12-mon mov ave
Ms. Rae Loui  
Deputy Director  
State Water Commission  
P. O. Box 621  
Honolulu, Hawaii 96809  

Dear Ms. Loui:

We have had several meetings over the past months to discuss Waialua Sugar Company's permitted water use from the Waialua aquifer. Waialua Sugar has a permitted use of 39.9 million gallons per day. When you add the permitted use of the City Water Department, you have a combined use which is higher than the sustainable yield.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Waialua Sugar Company</td>
<td>39.9</td>
<td></td>
</tr>
<tr>
<td>Board of Water Supply</td>
<td>3.2</td>
<td>43.1</td>
</tr>
<tr>
<td>Total Sustainable Yield</td>
<td>40.0</td>
<td></td>
</tr>
<tr>
<td>Over Permitted Use</td>
<td>(3.1)</td>
<td></td>
</tr>
</tbody>
</table>

We have reviewed our water use over the past 20 years and while we have peaked at times over our permitted use, it appears we could reduce the permitted use given recent historical water use, conversion to drip irrigation and other factors.

Before going further, we want to be on record that sugar production is highly dependent upon water; without adequate water, yields will suffer. We cannot afford to short ourselves of water. As we understand, we can exceed the permitted use during dry periods as may be required.

Based on the above discussions and research into this matter, Waialua Sugar Company is voluntarily reducing its permitted water use in the Waialua aquifer from our current 39.9 million gallons per day to 36.0 million gallons per day effective June 1/93.

Sincerely,

Michael F. O'Brien  
President  
Dole Food Hawaii  

cc: M. Agader  
J. A. Russell  
G. Yim
MINUTES OF THE MAY 19, 1993 MEETING

Unanimously approved as submitted (Cox/Nakata).

OLD BUSINESS/REPORTS

Ms. Loui reported on two follow up items:

1) Guidelines for modification of the water use permits

Staff finds that Administrative Rules 171-23 are clear regarding changes that require modification. Therefore, it was felt that guidelines are not necessary.

2) Guidelines for Emergency permits

Still being worked on. Eventually, amendments to the Administrative Rules will be made to more clearly address emergency permits.

WAIALUA SUGAR COMPANY, VOLUNTARY REDUCTION OF PERMITTED WATER USE IN THE WAIALUA GROUND WATER MANAGEMENT AREA, WAIALUA, OAHU

Mr. Sakoda submitted amended recommendations for the Commission review and action (see attached).

Mr. Cox had the following questions:

1) Are the statements regarding "dry years and "wet years" correct for that area and time?

Rainfall data provided by Climate Center was utilized, it was jointly determined that these were wet and dry years based on actual rainfall information.

2) In terms of the water level in the aquifer, what has happened during the periods noted?

The water level data for the Waialua Aquifer is not that good. No problems have been expressed. USGS is drilling in that area to get more data.

3) What length of time is being discussed in Waialua Sugar Company's (Waialua Sugar) statement: "We cannot afford to short ourselves of water. As we understand, we can exceed the permitted use during dry periods as may be required."

No specifics have been set, it would be on a case by case basis.

Mr. Nakata asked:

1) Why was there a discrepancy in the amount of pumpage?

Mr. Sakoda replied that Waialua Sugar was still in the process of converting from furrow to drip. During that time, fields lie fallow longer than normal.

2) What percentage of the acreage was under drip irrigation?
Milton Agadar, Waialua Sugar Irrigation Superintendent stated that approximately 90% is fed by drip irrigation from the Waialua Aquifer.

Mr. Martin provided testimony (see Commission file) urging the Commission to review all data presently available and consider imposing further allocation reductions. He also felt specific quantitative guidelines and protocols for administering dry period extractions need to be part of the State Water Resource Protection Plan and water use permit conditions.

Mr. Cox commented that unless more information was available he would be uncomfortable in trying set a time for the dry period because it would vary considerably from aquifer to aquifer. Mr. Sakoda agreed that a generalized guideline would be difficult to make because every situation would be different.

In regards to the word "voluntary", Mrs. Black suggested "agreement" because if there is no water, how could it be a "voluntary reduction". Mr. Sakoda stated that it is voluntary because the Water Code provides that a water user can voluntarily give up or reduce their allocation without going through the public hearing process.

Mr. Ing asked how the data was obtained for the graph and if all the active pumps were metered. Mr. Sakoda said data was submitted monthly by Waialua Sugar. Mr. Agadar responded that all the pumps are metered.

Mr. Ing asked why the 12-month moving average of pumping was used and if this was an industry practice. In Hawaii, 12-month moving averages have been used by the water industry.

Unanimously approved as amended (Cox/Nakata).

**ITEM 4**

**HOUSING FINANCE AND DEVELOPMENT CORPORATION, APPLICATION FOR A WELL CONSTRUCTION PERMIT, KEOPU-HFDC WELL 1 (WELL NO. 3957-03), NORTH KONA, HAWAII**

The following items were discussed:

1) The nearby Haseko Well is not being pumped but is proposed to be pumped at 700 gallons per minute.

2) This well would be required to follow the CWRM's pump test protocol, which is a seven day test. The best data possible will be obtained for input into the Groundwater Model currently being developed jointly by USGS/CWRM.

3) If the HFDC wells interfere with the Haseko well, the Hawaii County BWS would not award the full amount of water commitments to the wells.

4) There have been mixed results of the testing of the high level wells. Some have stabilized quickly while others have not.

Mr. Martin expressed concerns regarding ceded lands, the effects on other wells due to a first come-first serve process, and requirements for a water license.

Mr. Tam said public lands are set aside by executive order for county and other state department uses. Setting aside or transferring water to a sub-agency of the state for public purposes is not a transfer to a private entity. Therefore, the use by the counties of state lands for providing municipal water supply does not require a license under the Land Board or the Commission.

Unanimously approved (Cox/Nakata).
State of Hawaii  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
Division of Water and Land Development  
Honolulu, Hawaii  

September 11, 1981  

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

Gentlemen:  

Certification of Ground Water Withdrawals and Uses.  
Waialua Ground Water Control Area, Oahu  

The Waialua Ground Water Control Area was designated by the Board of Land and Natural Resources on February 27, 1981 under authority of Chapter 177, ERS, and Chapter 156 of Title 13, Administrative Rules entitled "Rules for the Control of Ground Water Use in the State of Hawaii". The Department's regulatory procedures provide for water users to declare their existing water uses within a ninety-day period which ended June 4, 1981 and allows the Board 180 days to certify the declared uses.  

The recommended certification of total annual, average daily, and maximum daily withdrawals for individual wells and/or well fields is tabulated in the attachment, "Certification of Ground Water Withdrawals and Uses, Waialua Ground Water Control Area", for the Waialua, Mokuleia, and Kawailoa Subareas. A comparison of the recommended quantity for certification and the sustainable yield adopted by the Board on July 24, 1981 is tabulated below:  

<table>
<thead>
<tr>
<th>Subarea</th>
<th>Sustainable Yield (mgd)</th>
<th>Recommended Certification (mgd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waialua</td>
<td>60</td>
<td>1.512</td>
</tr>
<tr>
<td>Mokuleia</td>
<td>20</td>
<td>7.753</td>
</tr>
<tr>
<td>Kawailoa</td>
<td>10</td>
<td>5.960</td>
</tr>
</tbody>
</table>

The remaining ground water supplies may be withdrawn by obtaining permits from the Board of Land and Natural Resources.  

RECOMMENDATION:  

That the Board certify the existing withdrawals and uses for each well tabulated on the attached "Certification of Ground Water Withdrawals and Uses, Waialua Ground Water Control Area" dated September 11, 1981, subject to any special conditions and applicable laws, rules and regulations.  

Respectfully submitted,  

ROBERT F. CHEUCK  
Manager-Chief Engineer  

APPROVED FOR SUBMITTAL:  

SUSUMU GNO, Chairman  

Approved by the Board of Land & Natural Resources at the Meeting held on 9/11/81 at 9

C8
### State of Hawaii
#### DEPARTMENT OF LAND AND NATURAL RESOURCES
#### CERTIFICATION OF GROUND WATER WITHDRAWALS AND USES
#### Waialua Ground Water Control Area

<table>
<thead>
<tr>
<th>User/Source</th>
<th>State Well No.</th>
<th>Total Wells</th>
<th>Use</th>
<th>Source Capacity (mgd)</th>
<th>5-yr. Ave. Withdrawal (mgd)</th>
<th>Preserved Use</th>
<th>1-user Source</th>
<th>Source Capacity (mgd)</th>
<th>5-yr. Ave. Withdrawal (mgd)</th>
<th>Total Withdrawal (mgd)</th>
<th>Average Daily Withdrawal (mgd)</th>
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<tr>
<td><strong>WAIALUA Subarea</strong></td>
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<tr>
<td><strong>Waialua Sugar Co.</strong></td>
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<tr>
<td>Pump 1</td>
<td>3407-04, 05, 06, 07</td>
<td>5</td>
<td>Agr.</td>
<td>6.0</td>
<td>2.33</td>
<td>Agr.</td>
<td>6.0</td>
<td>859.45</td>
<td>2.33</td>
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<td>Pump 2</td>
<td>3307-01 to 06</td>
<td>9</td>
<td>Agr./Dom.</td>
<td>10.0</td>
<td>4.37</td>
<td>Agr./Dom.</td>
<td>10.0</td>
<td>1,595.05</td>
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<tr>
<td>Pump 2A</td>
<td>3307-07, 11 to 14</td>
<td>5</td>
<td>Agr./Dom.</td>
<td>7.0</td>
<td>4.65</td>
<td>Agr./Dom.</td>
<td>7.0</td>
<td>1,308.89</td>
<td>3.56</td>
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<td>Pump 3</td>
<td>35-5-01 to 20</td>
<td>20</td>
<td>Agr./Dom.</td>
<td>7.0</td>
<td>3.16</td>
<td>Agr./Dom.</td>
<td>7.0</td>
<td>1,112.30</td>
<td>0.60</td>
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<td>Pump 7</td>
<td>3407-11, 12, 18, 19</td>
<td>4</td>
<td>Agr./Dom.</td>
<td>5.5</td>
<td>3.33</td>
<td>Agr./Dom.</td>
<td>5.5</td>
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<td>3.75</td>
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<td>3506-03, 04</td>
<td>3</td>
<td>Agr./Dom.</td>
<td>3.0</td>
<td>1.66</td>
<td>Agr./Dom.</td>
<td>3.0</td>
<td>605.90</td>
<td>1.66</td>
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<td>Pump 9</td>
<td>3406-02</td>
<td>1</td>
<td>Agr.</td>
<td>0.75</td>
<td>0.16</td>
<td>Agr.</td>
<td>0.75</td>
<td>58.4</td>
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<td>Pump 10</td>
<td>3306-01 to 12</td>
<td>12</td>
<td>Agr.</td>
<td>12.0</td>
<td>6.02</td>
<td>Agr.</td>
<td>12.0</td>
<td>2,416.30</td>
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<td>Pump 17</td>
<td>3404-02</td>
<td>1</td>
<td>Agr./Dom.</td>
<td>15.0</td>
<td>8.63</td>
<td>Agr./Dom.</td>
<td>15.0</td>
<td>2,992.27</td>
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<td>Mill Pumps</td>
<td>3407-07 to 10, 16, 17, 18, 21</td>
<td>8</td>
<td>Agr.</td>
<td>10.0</td>
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<td>Agr.</td>
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<td>1,069.95</td>
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<td>Agr.</td>
<td>4.50</td>
<td>2.58</td>
<td>Agr.</td>
<td>4.50</td>
<td>941.70</td>
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<td>Pump 25</td>
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<td>1</td>
<td>Agr.</td>
<td>4.50</td>
<td>3.10</td>
<td>Agr.</td>
<td>4.50</td>
<td>1,131.50</td>
<td>3.10</td>
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<td>Pump 26</td>
<td>3203-02</td>
<td>1</td>
<td>Agr.</td>
<td>4.50</td>
<td>2.76</td>
<td>Agr.</td>
<td>4.50</td>
<td>1,007.40</td>
<td>2.76</td>
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<tr>
<td><strong>Subtotal (Waialua Sugar Co.)</strong></td>
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<td>10</td>
<td></td>
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<td></td>
<td></td>
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<td>89.75</td>
<td>48.38</td>
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<td><strong>Board of Water Supply</strong></td>
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<tr>
<td>Waialua Wells</td>
<td>3405-01, 02</td>
<td>2</td>
<td>Mun.</td>
<td>4.32</td>
<td>1.73</td>
<td>Mun.</td>
<td>4.32</td>
<td>621.45</td>
<td>1.73</td>
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<tr>
<td><strong>Private Users</strong></td>
<td></td>
<td></td>
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<tr>
<td>Kawaguchi, Howard</td>
<td>3506-07</td>
<td>1</td>
<td>Agr.</td>
<td>0.180</td>
<td>0.058</td>
<td>Agr.</td>
<td>0.180</td>
<td>21.17</td>
<td>0.058</td>
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<tr>
<td>Kawamata, Kengo</td>
<td>3406-03</td>
<td>1</td>
<td>Agr. Nat. flow</td>
<td>No data</td>
<td>No data</td>
<td>Agr.</td>
<td>No data</td>
<td>36.5</td>
<td>0.1</td>
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<tr>
<td>Kunihiro, Shizuo</td>
<td>3406-06, 3407-02</td>
<td>2</td>
<td>Agr. Nat. flow</td>
<td>No data</td>
<td>No data</td>
<td>Agr. No data</td>
<td>73.0</td>
<td>0.2</td>
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<tr>
<td>Oceanic Properties</td>
<td>3405-03, 04</td>
<td>2</td>
<td>Mun.</td>
<td>2.016</td>
<td>No data</td>
<td>Mun.</td>
<td>2.016</td>
<td>365.0</td>
<td>1.0</td>
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<tr>
<td>Polynesian Shores</td>
<td>3406-08</td>
<td>1</td>
<td>Off.</td>
<td>0.144</td>
<td>0.144</td>
<td>Off.</td>
<td>0.144</td>
<td>52.56</td>
<td>0.144</td>
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<tr>
<td><strong>Subtotal (Private Users)</strong></td>
<td></td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.34</td>
<td>0.202</td>
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<tr>
<td><strong>TOTAL - Waialua Subareas</strong></td>
<td></td>
<td>79</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>96.41</td>
<td>50.312</td>
</tr>
</tbody>
</table>

*For Agr./Dom. uses, specific quantities for each use are to be provided when additional information becomes available.*
### Waialua GWCA

<table>
<thead>
<tr>
<th>User/Source</th>
<th>State Well No.</th>
<th>Total Wells</th>
<th>Source Use</th>
<th>5-yr. Aver. Source Capacity (mgd)</th>
<th>5-yr. Aver. Withdrawal (mgd)</th>
<th>Preserved Use</th>
<th>Preserved Use Withdrawal</th>
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<tr>
<td><strong>MOKULEIA Subarea</strong></td>
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<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td><strong>Waialua Sugar Co.</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>Pump 5</td>
<td>3411-06, 06 to 11, 13</td>
<td>8</td>
<td>Agr.</td>
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<td>2.55 Agr.</td>
<td>7.0</td>
<td>930.75</td>
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<td>Pump 11</td>
<td>3409-09-13</td>
<td>1</td>
<td>Agr./Dom.</td>
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<td>0.53 Agr./Dom.</td>
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<td>10.0</td>
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<td>Army - Bellingham</td>
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<td>Dom.</td>
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<td>Air Force - Kamehameha Plant</td>
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<td>1</td>
<td>Util.</td>
<td>0.005</td>
<td>0.018 Util.</td>
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<td>Mokuleia Assoc.</td>
<td>3409-16</td>
<td>1</td>
<td>Dom.</td>
<td>No data</td>
<td>No data Dom.</td>
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<td>Mokuleia Homesteads</td>
<td>3410-01</td>
<td>1</td>
<td>Agr./Dom.</td>
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<td><strong>Waialua Sugar Co.</strong></td>
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<td>Pump 4</td>
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<td>14.648</td>
<td>5.96</td>
<td>14.648</td>
<td>2,175.40</td>
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</table>

*For Agr./Dom. uses, specific quantities for each use are to be prorated when additional information becomes available.*
January 13, 2003

Mr. Yoshi Tanabe
Dole Food Company Hawaii
1116 Whitmore Avenue
Wahiawa, HI 96786

Dear Mr. Tanabe:

Well Abandonment Report for Well Nos. 3407-07 to 10, 13, 16, 17, 20, & 21

We received your Well Abandonment Report Part for the Waialua Sugar Mill Well Battery (Well Nos. 3407-07 to 10, 13, 16, 17, 20, & 21) on January 10, 2003 and acknowledge that it is complete. Thank you for your attention to this matter.

If you have any questions, please contact Lenore Nakama of the Commission staff at

Sincerely,

DEAN A. NAKANO
Acting Deputy Director

C:ss

c: William Moore, Beylik Drilling, Inc.
Commission on Water Resource Management

FROM: Yoshiaki Tanabe

MESSAGE:

Well closing reports as per attached
**WELL ABANDONMENT REPORT**

1. State Well No. **3407-07**  
   Well Name **WAIALUA SUGAR MILL WELL BATTERY**

2. Location / Address  
   **KEALOHANUI AVENUE**  
   Island **OAHU**  
   TMK **6-7-01-5**

3. Contractor **BEYLIK DRILLING, INC.**  
   Name of driller who performed work **JOHN MOLE**

4. Type of Rig / Construction **PUMP PULLING RIG**  
   Date of well sealing completion **10/24/02**

   - **Casing Diameter** 10 in.
   - **Finished Grade Elevation** 30 ft.
   - **Check Material Used**  
     - **Seal:** 0 Cement  
     - **Sand/Cement Ratio:** 1/1

   - **Total Measured Depth** 274 ft.
   - **Measured Depth of Blank Casing** 221 ft.
   - **Measured Depth of Perforated Casing** N/A ft.
   - **Measured Depth of Open Hole** 53 ft.

Remarks:  
**NOTE:** THIS WELL LOCATED IN THE MILL PUMP CHAMBER - WITH DEEPER OPEN HOLE.  
**GROUT 1:1 21 CURIC YARDS**

---

**Well Abandonment**

<table>
<thead>
<tr>
<th>Contractor (print)</th>
<th>BEYLIK DRILLING, INC.</th>
<th>C-57 Lic. No.</th>
<th>AC-21896</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature</td>
<td><strong>William C. Moore</strong></td>
<td>Date</td>
<td>DECEMBER 9, 2002</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Applicant (print)</th>
<th>WAIALUA SUGAR MILL CO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature</td>
<td><strong>Bill Moore</strong></td>
</tr>
</tbody>
</table>
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
WELL ABANDONMENT REPORT

Instructions: Please print in ink or type and send completed report (with attachments, if applicable) to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may not accept incomplete reports. This form shall be submitted within 60 days of the completion of work. For assistance, please consult the Hawaii Well Construction and Pump Installation Standards or call the Regulation Branch at For further information and updates to this application form, visit http://www.state.hi.us/dlnr/cwrm.

1. State, Well No. 3407-08 Well Name WAIALUA SUGAR MILL WELL BATTERY
2. Location / Address KEALOHANUI AVENUE Island OAHU TMK 6-7-01-5
3. Contractor BEYLICK DRILLING, INC. Name of driller who performed work JOHN MOLE
4. Type of Rig / Construction PUMP PULLING RIG Date of well sealing completion 10/24/02

Finished Grade Elevation 30 ft.
Casing Diameter 12 in.

Check Material Used
Grout Seal: □ Cement
Q Sand/Cement Ratio 1/1

Total Measured Depth 292 ft.

Measured Depth of Blank Casing 234 ft.
Measured Depth of Perforated Casing N/A ft.
Measured Depth of Open Hole 58 ft.

Remarks:
NOTE: THIS WELL LOCATED IN THE TUNNEL PORTAL OPENING AND ACCESSED THROUGH THE 30" HEADER. ALL MEASUREMENTS ARE HAND SOUNDING - MAY CONTAIN SMALL ERRORS.
FILL - 1:1 GROUT 23 CUBIC YARDS

Well Abandonment
Contractor (print) BEYLICK DRILLING, INC. C-57 Lic. No. AC-21896
Signature William C. Moote Date DECEMBER 9, 2002
Applicant (print) WAIALUA SUGAR MILL
Signature Date 12/12/02

For Official Use Only:

Amended 1/19/03 by Comm w/b, Moore Jr.
**WELL ABANDONMENT REPORT**

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<table>
<thead>
<tr>
<th>1. State Well No.</th>
<th>3407-09</th>
<th>Well Name</th>
<th>WAIALUA SUGAR MILL WELL BATTERY</th>
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<tbody>
<tr>
<td>2. Location / Address</td>
<td>KEALOHANUI AVENUE</td>
<td>Island</td>
<td>OAHU</td>
</tr>
<tr>
<td>3. Contractor</td>
<td>BEYLIK DRILLING, INC.</td>
<td>Name of driller who performed work</td>
<td>JOHN MOLE</td>
</tr>
<tr>
<td>4. Type of Rig / Construction</td>
<td>PUMP PULLING RIG</td>
<td>Date of well sealing completion</td>
<td>10/25/02</td>
</tr>
</tbody>
</table>

**Finished Grade Elevation:** 30 ft

**Casing Diameter:** 10 in

**Check Material Used: Grout Seal:**
- Cement
- Sand/Cement Ratio: 1/1

**Total Measured Depth:** 294 ft

**Measured Depth of Blank Casing:** 235 ft

**Measured Depth of Perforated Casing:** N/A ft

**Measured Depth of Open Hole:** 59 ft

**Remarks:**

THIS WELL LOCATED IN THE ACCESS TUNNEL UNDER THE CARPENTER SHOP.
SEGMENTED TREMIE PIPE USED WITH GROUT PUMP. GROUT PRESSURIZED TO THE SURFACE. VERY DIFFICULT PROCESS.
FILL - 1:1 GROUT 21 CUBIC YARDS

<table>
<thead>
<tr>
<th>Well Abandonment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contractor (print)</td>
</tr>
<tr>
<td>Signature</td>
</tr>
<tr>
<td>Date</td>
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<tr>
<td>Applicant (print)</td>
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<tr>
<td>Signature</td>
</tr>
<tr>
<td>Date</td>
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</table>

*Amended on 1/10/03 by William C. Moore.*
**WELL ABANDONMENT REPORT**

**State of Hawai’i**
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

**Instructions:** Please print in ink or type and send completed report (with attachments, if applicable) to the Commission on Water Resource Management, P.O. Box 671, Honolulu, Hawaii 96809. The Commission may not accept incomplete reports. This form shall be submitted within 60 days of the completion of work. For assistance, please consult the Hawaii Well Construction and Pump Installation Standards or call the Regulation Branch at (808) 586-0378. For further information and updates to this application form, visit [http://www.state.hi.us/dlnr/cwrm](http://www.state.hi.us/dlnr/cwrm).

---

1. **State Well No.** 3407-10  
   **Well Name** WAIALUA SUGAR MILL WELL BATTERY

2. **Location / Address** KEALOBANUI AVENUE  
   **Island** OAHU  
   **TMK** 6-7-01-5

3. **Contractor** BEYLÍK DRILLING, INC.  
   **Name of driller who performed work** JOHN MOLE

4. **Type of Rig / Construction** PUMP PULLING RIG  
   **Date of well sealing completion** 10/25/02

---

**Finished Grade Elevation** 30 ft.  
**Casing Diameter** 10 in.  
**Check Material Used**
- **Grout Seal:** □ Cement  
- **Sand/Cement Ratio:** 1 / 1

---

**Total Measured Depth** 294 ft.  
**Measured Depth of Blank Casing** 231 ft.  
**Measured Depth of Perforated Casing** N/A ft.  
**Measured Depth of Open Hole** 63 ft.

**Remarks:**
- THIS WELL LOCATED UNDER AN OLD FOUNDATION. ACCESS THROUGH SITE EXCAVATION VERY DIFFICULT. SEGMENTED TREMIE PIPE USED WITH GROUT PUMP. GROUT PRESSURIZED TO THE SURFACE.  
- FILL - 1:1 GROUT 27 CUBIC YARDS

---

**Well Abandonment**
**Contractor (print)** BEYLÍK DRILLING, INC.  
**C-57 Lic. No.** AC-21896

**Signature**  
**Date** DECEMBER 9, 2002

**Applicant (print)** WAIALUA SUGAR MILL

**Signature**  
**Date** 12/21/02

[Amended for 1/13/03, W/Comm W/B. Moore, W]
1. State Well No.  3407-13  
2. Location / Address  KEALOHANUI AVENUE  
3. Contractor  BEYLK DRILLING, INC.  
4. Type of Rig / Construction  PUMP PULLING RIG  

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<th>Check Material Used</th>
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<tr>
<td>Grout Seal:</td>
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</tr>
<tr>
<td>Cement:</td>
<td>☑</td>
</tr>
<tr>
<td>Sand/Cement Ratio</td>
<td>1/1</td>
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```
- Total Measured Depth  280  ft.  
- Measured Depth of Blank Casing  234  ft.  
- Measured Depth of Perforated Casing  N/A  ft.  
- Measured Depth of Open Hole  46  ft.  
```

Remarks:

```
NOTE: OPEN HOLE PORTION SOMEWHAT LESS POROUS THAN ADJACENT WELL.  
GROUT 1:1 CUBIC YARD USED  
```

Well Abandonment
Contractor (print)  BEYLK DRILLING, INC.  
Signature  William C. Moore  
Applicant (print)  WAIALUA SUGAR MILL  
Signature  WAIALUA SUGAR MILL  

* called Bill Moore 1/10/03. He said it's a typo, should be 1/4 cubic yard, not 1. Also included C-57 Lic. No.  AC-21896  
Date  DECEMBER 9, 2002  
Date  12/10/02  

WAR Form (2.9/00)
State of Hawai‘i
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
WELL ABANDONMENT REPORT

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Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may
not accept incomplete reports. This form shall be submitted within 60 days of the completion of work. For
assistance, please consult the Hawaii Well Construction and Pump Installation Standards or call the Regulation
Branch at 1-800-833-1920. For further information and updates to this application form, visit
http://www.state.hi.us/dlnr/cwrm.

1. State Well No. 3407-16 2. Location / Address KEALOHANUI AVENUE Island OAHU
Well Name WAIALUA SUGAR MILL WELL BATTERY TMK 6-7-01-5

3. Contractor BEYLIK DRILLING, INC. Name of driller who performed work JOHN MOLE

4. Type of Rig / Construction PUMP PULLING RIG Date of well sealing completion 11/5/02

Finished Grade Elevation 33 ft. Casing Diameter 12 in.

Check Material Used
Grout Seal: □ Cement
☑ Sand/Cement Ratio 1/1

Measured Depth of Blank Casing 232 ft.

Total Measured Depth 296 ft.

Measured Depth of Perforated Casing N/A ft.

Measured Depth of Open Hole 64 ft.

Remarks:
THIS WELL ACCESSIBLE FROM THE SURFACE. STANDARD TREMIE METHODS USED
ALTHOUGH THE OPEN HOLE WAS NOT AS POROUS AS OTHER ADJACENT WELLS.
FILL - 1:1 GROUT 18 CUBIC YARDS

Well Abandonment
Contractor (print) BEYLIK DRILLING, INC. C-57 Lic. No. AC-21896
Signature ____________________________ Date DECEMBER 9, 2002

Applicant (print) WAIALUA SUGAR MILL
Signature ____________________________ Date 12/12/02

*Amended for 1/10/03 v Nelson W/B. Moore, w
1. State Well No. 3407-17  
2. Location / Address KEALOHANUI AVENUE  
3. Contractor BEYLIK DRILLING, INC.  
4. Type of Rig / Construction PUMP PULLING RIG  

Well Name WAIALUA SUGAR MILL WELL BATTERY  
Island OAHU  
TMK 6-7-01-5  
Name of driller who performed work JOHN MOLE  
Date of well sealing completion 11/5/02  

Finished Grade Elevation 34 \( \text{ft.} \)  
Casing Diameter 12 in.  

Check Material Used  
Grout Seal: ☑ Cement  
Sand/Cement Ratio 1/1  

Total Measured Depth 297 \( \text{ft.} \)  
Measured Depth of Blank Casing 231 \( \text{ft.} \)  
Measured Depth of Perforated Casing N/A \( \text{ft.} \)  
Measured Depth of Open Hole 66 \( \text{ft.} \)  

Remarks:  
THIS WELL ACCESSIBLE FROM THE SURFACE. STANDARD TREMIE METHODS USED.  
OPEN HOLE NOT AS POROUS AS OTHER ADJACENT WELLS.  
FILL - 1:1 GROUT 19 CUBIC YARDS  

Well Abandonment  
Contractor (print) BEYLIK DRILLING, INC.  
C-57 Lic. No. AC-21896  
Signature William E. Moore  
Date DECEMBER 9, 2002  
Applicant (print) WAIALUA SUGAR MILL  
Signature  
Date DECEMBER 9, 2002  

For further information and updates to this application form, visit http://www.state.hi.us/dlnr/cwrm.
**State of Hawai‘i**  
**COMMISSION ON WATER RESOURCE MANAGEMENT**  
**Department of Land and Natural Resources**  

**WELL ABANDONMENT REPORT**

Instructions: Please print in ink or type and send completed report (with attachments, if applicable) to the Commission on Water Resource Management, P.O. Box 521, Honolulu, Hawaii 96809. The Commission may not accept incomplete reports. This form shall be submitted within 60 days of the completion of work. For assistance, please consult the Hawaii Well Construction and Pump Installation Standards or call the Regulation Branch at ☑️. For further information and updates to this application form, visit [http://www.state.hi.us/dlnr/cwrm](http://www.state.hi.us/dlnr/cwrm).

<table>
<thead>
<tr>
<th>1. State Well No.</th>
<th>3407-20</th>
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<tbody>
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<td>WAIALUA SUGAR MILL WELL BATTERY</td>
</tr>
<tr>
<td>2. Location / Address</td>
<td>KEALOHANUI AVENUE</td>
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<tr>
<td>Island</td>
<td>OAHU</td>
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<td>TMK</td>
<td>6-7-01-5</td>
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<tr>
<td>3. Contractor</td>
<td>BEYLIX DRILLING, INC.</td>
</tr>
<tr>
<td>Name of driller who performed work</td>
<td>JOHN MOLE</td>
</tr>
<tr>
<td>4. Type of Rig / Construction</td>
<td>PUMP PULLING RIG</td>
</tr>
<tr>
<td>Date of well sealing completion</td>
<td>10/23/02</td>
</tr>
</tbody>
</table>

| Casing Diameter | 12 in. |
| Finished Grade Elevation | 54 ft. |
| Measured Depth of Blank Casing | 230 ft. |

**Remarks:**

THIS WELL ACCESSIBLE FROM THE SURFACE. STANDARD TREMIE METHODS USED
AGAIN. THIS WELL NOT AS POROUS AS OTHERS
FILL - 1:1 GROUT 17 CUBIC YARDS

<table>
<thead>
<tr>
<th>Well Abandonment Contractor (print)</th>
<th>BEYLIX DRILLING, INC.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature</td>
<td>William C. Moul</td>
</tr>
<tr>
<td>Date</td>
<td>DECEMBER 9, 2002</td>
</tr>
<tr>
<td>Applicant (print)</td>
<td>WAIALUA SUGAR CO.</td>
</tr>
<tr>
<td>Signature</td>
<td>CM</td>
</tr>
<tr>
<td>Date</td>
<td>12/24/02</td>
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</table>
1. State, Well No. 3407-21  
Well Name: WAIALUA SUGAR MILL WELL BATTERY

2. Location / Address: KEALOHA AVENUE  
Island: OAHU  
TMK: 6-7-01-5

3. Contractor: BEYLK DRILLING, INC.  
Name of driller who performed work: JOHN MOLE

4. Type of Rig / Construction: PUMP PULLING RIG  
Date of well sealing completion: 10/30/02

Finished Grade Elevation: 33 ft.

Check Material Used:
- Grout Seal: ON
  - Cement: ON
  - Sand/Cement Ratio: 1/1

Casing Diameter: 12 in.

Total Measured Depth: 270 ft.

Measured Depth of Blank Casing: 231 ft.

Measured Depth of Perforated Casing: N/A ft.

Measured Depth of Open Hole: 39 ft.

Remarks:
- THIS WELL ACCESSIBLE FROM THE SURFACE. STANDARD TREMIE METHODS USED.
- FILL - 1:1 GROUT 18 CUBIC YARDS

Well Abandonment
Contractor (print): BEYLK DRILLING, INC.  
C-S7 Lic. No.: AC-21896

Signature: [Signature]  
Date: DECEMBER 9, 2002

Applicant (print): WAIALUA SUGAR MILL  
Signature: [Signature]  
Date: [Signature]

For further information and updates to this application form, visit [http://www.state.hi.us/dlnr/cwrm].
RECORDS OF DRILLED WELLS ON OAHU


317-1 (no old number). In Waialua about 300 yd. north of highway to Kawaihapa about 1 mile west of Andrew Cox School. In large depression in cane field. Owner, Waialua Agricultural Co. Drilled, 1891 by McCandless Bros. Depth, 700 ft. Drillers did not strike solid rock, and as there was no flow of water, casing withdrawn and well abandoned.


Meter test

No flow from top of well. Readings by K. N. Vaksvik, Oct. 14, 1925.

### Waialua Sugar Mill Well Battery

**State Nos. 3407-07 to 10, 13, 16, 17, 20, & 21**

**(Old 319A thru I)**

<table>
<thead>
<tr>
<th>State No.</th>
<th>Old Designation</th>
<th>Year Drilled</th>
<th>Diameter (Inches)</th>
<th>Ground Elevation (Ft MSL)</th>
<th>Depth (Feet)</th>
<th>Depth of Casing (Feet)</th>
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<tr>
<td>3407-08</td>
<td>C</td>
<td>1899</td>
<td>12</td>
<td>30</td>
<td>292</td>
<td>Not Known</td>
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**Note:** Information from Records of the Drilled Wells on the Island of Oahu, Bulletin 4, Division of Hydrography, Territory of Hawaii.

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**Red - Data from WELL DATABASE**

**Blue - Data from Ground Field**
WELL CONSTRUCTION PERMIT TO ABANDON SEAL

Wai'alu Sugar Mill Wells, Well No. 3407-07 to 10, 13, 16, 17, 20 & 21

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the abandonment/sealing of Wai'alu Sugar Mill Wells (Well No. 3407-07 to 10, 13, 16, 17, 20 & 21) at 67-106 Kealohanui Street, Oahu, TMK 6-7-01:5, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

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

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

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

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

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

6. The sealing shall be completed within two (2) years

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

Date of Approval: August 12, 2002
Expiration Date: None

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

Permittee's Signature: ________________________ Date: 08/12/02
Printed Name: YOSHIAKI TANABE Firm or Title: VICE PRESIDENT, WAI'ALUA SUGAR

Contractor's Signature: ________________________ License #: AC21690 Date: Aug 30, 02
Printed Name: William C. Moore Firm or Title: BEYLIK DRILLING, INC.

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

Attachment c:
USGS Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
Yoshi Tanabe, Wai'alu Sugar Company
August 28, 2002

Mr. Bill Moore  
Beylik Drilling, Inc.  
91-259-A Olai Street  
Kapolei, HI 96707

Dear Mr. Moore:

Well Abandonment Permit  
Waialua Sugar Mill Wells (Well No. 3407-07 to 10, 13, 16, 17, 20 & 21)

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

Special Conditions

1. A separate Well Abandonment Report shall be filed for each well.

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

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

Because these wells will be sealed, we are planning to recommend that the Commission revoke the water use permit for this source (WUP No. 47). We will send you a copy of the staff submittal approximately six days prior to the September 18, 2002 meeting, at which this matter has been tentatively scheduled for disposition.

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

Aloha,

[Signature]

GILBERT S. COLOMA-AGARAN  
Chairperson

Enclosures

c: Yoshi Tanabe, Waialua Sugar Company
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Waialua Sugar Mill Wells, Well No. 3407-07 to 10, 13, 16, 17, 20 & 21

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the abandonment/sealing of Waialua Sugar Mill Wells (Well No. 3407-07 to 10, 13, 16, 17, 20 & 21) at 67-106 Kealohanui Street, Oahu, TMK 6-7-01:5, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

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

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

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

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

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

6. The sealing shall be completed within two (2) years.

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

Date of Approval: August 12, 2002
Expiration Date: None

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

Permittee's Signature: ___________________________ Date: ___________________________
Printed Name: ___________________________ Firm or Title: ___________________________
Contractor's Signature: ___________________________ License #: ___________________________ Date: ___________________________
Printed Name: ___________________________ Firm or Title: ___________________________

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

Attachment c:

USGS
Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
Yoshi Tanabe, Waialua Sugar Company
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REMARKS: LINE (1) Well No. 3407-07 to 10, 13, 16, 17, 20, & 21
LINE (2)
LINE (3)
LINE (4)

** Twenty-five and 00/100 **

DOLLARS $*25.00*
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This information has been supplied by third parties and has not been independently verified by Hawaii Information Service and is, therefore, not guaranteed.
Ms. Linnel T. Nishioka - Deputy Director
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, Hawaii 96809

Dear Ms. Nishioka:

Permit Application to Seal the
Waialua Sugar Mill Wells (State Well Nos. 3407-07 to 10, 13, 16, 17, 20, and 21) - Waialua, Oahu, Hawaii

Attached is the Well Abandon/Seal Permit application, filing fee, and other relevant information on the Waialua Sugar Mill Wells (State Well Nos. 3407-07 to 10, 13, 16, 17, 20, and 21) on Oahu. All nine wells in the battery will be sealed with 1:1 sand-cement tremied into place. If you have any questions, feel free to call me, Bill Moore at Beylik Drilling [redacted] or Yoshi Tanabe of Waialua Sugar Company [redacted].

Sincerely,

Tom Nance

Attachments

cc: Bill Moore
    Yoshi Tanabe
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR PERMIT

Well Construction and/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 96809. Application must be accompanied by 5 copies and 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 808-668-4444. For further information and updates to this application form, visit http://www.state.hi.us/dlnr/cwrm.

APPLICANT INFORMATION: (Fill out all three, if applicable, and place a check next to the primary contact)

1. (a) WELL OWNER: Waialua Sugar Company
   Mailing Address: 1116 Whitmore Avenue
   Contact Person: Yoshi Tanabe
   Phone: 621-3220
   Fax: __________
   E-mail: __________

(b) LAND OWNER: Waialua Sugar Company
   Mailing Address: 1116 Whitmore Avenue
   Contact Person: Yoshi Tanabe
   Phone: 621-3220
   Fax: __________
   E-mail: __________

(c) CONTRACTOR: Beylik Drilling, Inc.
   Mailing Address: 91-259-A Olai Street
   Kapaolei, Hawaii 96707
   Contact Person: Bill Moore
   Phone: 682-5554
   Fax: __________
   E-mail: __________

WELL & PUMP INFORMATION: (Please fill in the diagram on the back of this form.)

2. WELL NAME: Waialua Sugar Mill Wells
   Island: Oahu
   Address 67-106 Kealahonu Street
   Waialua 96791
   Tax Map Key: 6 7 01 5
   Zone: Sec: Plat: Parcel:
   Attach: (a) portion of a 7.5-Minute Series USGS topographic map (scale 1:24,000) with well location labeled and include the name of the quad map
   (b) a property tax map, showing well location referenced to established property boundaries

3. PROPOSED WORK:
   (check all that apply)
   □ Construct New Well
   □ Modify Existing Well*
   □ Abandon/Seal*
   3407-07 to 10, 13,
   *State Well No.: 16, 17, 20, & 21
   (if unknown, please call Commission at: __________
   □ Install New Pump*
   □ Modify Pump*

4. CONSTRUCTION:
   □ Drilled
   □ Dug
   □ Shaft
   □ Tunnel
   Is this well part of a battery of wells? □ Yes □ No
   (Please describe): __________

5. PROPOSED PUMPING RATE:
   □ N / A
   gallons per minute
   □ Domestic (individual, noncommercial water system)
   □ Industrial
   □ Municipal (including hotels, stores, etc.)
   □ Other (explain): __________
   □ Irrigation (crop)
   □ No. of Acres: __________
   □ Military
   □ Other: __________

6. PROPOSED USE:
   (check all that apply)
   □ Domestic (individual, noncommercial water system)
   □ Military
   □ Other (explain): __________
   □ Municipal (including hotels, stores, etc.)
   □ Other: __________
   □ Irrigation (crop)
   □ No. of Acres: __________
   □ Industrial
   □ Other: __________

7. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   □ N / A
   gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
   □ Flowmeter
   □ Open-pipe
   □ Weir
   □ Orifice
   □ Other (explain): __________

OTHER IMPORTANT INFORMATION:

8. LEGAL REQUIREMENTS: If required, these permits must be obtained before the Commission can legally issue a permit.
   Conservation District Use Permit (CDUP) To find out if a CDUP is necessary, call DLNR Land Division at: __________
   Environmental Impact Statement (EIS) or Environmental Assessment (EA) To determine if an EIS or EA is necessary, call OEQC at: __________
   Special Management Area Permit (SMAP) To determine if a SMAP is necessary, call: __________
   (on Oahu, call: __________
   (on Kauai, call: __________
   (for Maui county, call: __________
   If required, date approved: __________

9. REMARKS, EXPLANATIONS:
   All nine wells in the battery will be filled with 1:1 sand-cement.

For official use only:

Well Owner
Wai'alea Sugar Company
(print legibly)
Signature: __________
Date: __________

Landowner
Wai'alea Sugar Company
(print legibly)
Signature: __________
Date: __________

Contractor
Beylik Drilling, Inc.
(print legibly)
Signature: __________
Date: __________

For official use only:

Latitude: __________
Longitude: __________
Aquifer System No.: __________
State Well No.: __________

WCPIPA Form 8/21/01
10. PROPOSED WELL SECTION (Please attach schematic if different from diagram provided below)

Elevation at top of casing ft., msl*

Hole Diameter: ___________ in.

Cement Grout: _______ ft.
(min. 70% of distance from ground elevation to top of water surface or 200 ft., whichever is less.)

Annular space between hole and casing (min.3"):

in.

Rock or Gravel Packing:

ft.

Material:

o Crushed Basalt
o Rounded Gravel

Estimated Water Level Elevation:

ft., msl*

Minimum of 2' Radius & 4" Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)

Ground Elevation: ___________ ft., msl*

Solid Casing: (≥ 90% x (Ground Elev.-Water Level Elev))

Total Length: ___________ ft.

Nominal Diameter: ___________ in.

Wall Thickness: ___________ in.

Bottom Elevation: ___________ ft., msl*

Open Casing: □ Perforated □ Screen

Total Length: ___________ ft.

Nominal Diameter: ___________ in.

Wall Thickness: ___________ in.

Bottom Elevation: ___________ ft., msl*

note: Neither bentonite nor mud should be used in extended zone during drilling.

Open Hole:

Length: ___________ ft.

Diameter: ___________ in.

Bottom Elevation: ___________ ft., msl*

Ground Elevation:

The approximate elevation must be referenced to mean sea level (msl) at the time of application filing. Final elevations of well components shall be submitted in the Well Completion/Well Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.

For non-salt water Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or, Bottom Elevation of Well Limit = \( \left( \frac{\text{Water Elevation} - \text{Water Level Elev}}{4} \right) \)

Example: Estimated + 2 ft. Water Level Elev. \( \rightarrow \) Bottom Elevation of Well Limit = \( \left( \frac{-18.5 - 41}{4} \right) = -18.5 \) ft.

Solid Casing Material:

Carbon Steel: compliant with (check one or more):

□ ANSI/AWWA C200  □ API Spec. 5L  □ ASTM A53  □ ASTM A139

And compliant with (check one or more):

□ ASTM A242  □ Type E  □ Type S  □ Grade B  □ Other

Stainless Steel: (check one):

□ ASTM A409 (production welds)  □ ASTM A312 (monitor welds)

ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one) □ Schedule 40 □ Schedule 80

PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one) □ Schedule 40 □ Schedule 80 □ Schedule 120

Thermoset Plastic: (check one)

□ Filament Wound Resin Pipe conforming to ASTM D2997
□ Centrifugally Cast Resin Pipe conforming to ASTM D2997
□ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
□ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
□ PTFE Fluorocarbon Tubing conforming to ASTM D3296
□ FEP Fluorocarbon Tubing conforming to ASTM D3296

Open Casing Material:

Carbon Steel: compliant with (check one or more):

□ ANSI/AWWA C200  □ API Spec. 5L  □ ASTM A53  □ ASTM A139

And compliant with (check one or more):

□ ASTM A242  □ Type E  □ Type S  □ Grade B  □ Other

Stainless Steel: (check one):

□ ASTM A409 (production welds)  □ ASTM A312 (monitor welds)

ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one) □ Schedule 40 □ Schedule 80

PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one) □ Schedule 40 □ Schedule 80 □ Schedule 120

Thermoset Plastic: (check one)

□ Filament Wound Resin Pipe conforming to ASTM D2996
□ Centrifugally Cast Resin Pipe conforming to ASTM D2997
□ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
□ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
□ PTFE Fluorocarbon Tubing conforming to ASTM D3296
□ FEP Fluorocarbon Tubing conforming to ASTM D3296

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* The approximate elevation must be referenced to mean sea level (msl) at the time of application filing. Final elevations of well components shall be submitted in the Well Completion/Well Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.

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Please refer to the HAWAII WELL CONSTRUCTION AND PUMP INSTALLATION STANDARDS to ensure that your as-built is in compliance with applicable standards.
Waialua Sugar Mill Well Battery
State Nos. 3407-07 to 10, 13, 16, 17, 20, & 21
(Old 319A thru I)

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Note: Information from Records of the Drilled Wells on the Island of Oahu, Bulletin 4, Division of Hydrography, Territory of Hawaii.
WAIALUA SUGAR MILL WELL E (STATE NO. 3407-10)
JULY 24, 2002

CONDUCTIVITY (MICROSIEMENS/CM)

DEPTH INTO WATER (FEET)

TEMPERATURE (DEG F)

- CONDUCTIVITY
- TEMPERATURE
WAIALUA SUGAR MILL WELL A (STATE NO. 3407-13)
JULY 24, 2002

CONDUCTIVITY (MICROSIEMEN/CM)

TEMPERATURE (DEG F)

DEPTH INTO WATER (FEET)
WAIALUA SUGAR MILL WELL B (STATE NO. 3407-07)
JULY 24, 2002

CONDUCTIVITY (MICROSIEMENS/CM)

TEMPERATURE (DEG F)

DEPTH INTO WATER (FEET)