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

ATTN: Charley Ice  

 Date: July 29, 2011  
Our Job No.: 619  

RE: Maui Business Park 2  
Non-Potable Well (Well No. 5226-01)  

WE ARE SENDING YOU □ Attached  
□ Under separate cover via __________________ the following items:  
◇ Shop Drawings  
□ Prints  
□ Plans  
□ Samples  
□ Specifications  
□ Copy of letter  
□ Change order  
□ __________________

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<tr>
<td>Orig.</td>
<td>7-29-11</td>
<td>1 pg.</td>
<td>PUMP INSTALLATION PERMIT – fully executed</td>
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THESE ARE TRANSMITTED as checked below:  

□ For approval  
□ For your execution and return  
◇ As requested  
□ For review and comment  
□ FOR BIDS DUE ____________________________ 19  
□ Resubmit _____ copies for approval  
□ Approved as submitted  
□ Approved as noted  
□ Returned for corrections  
□ Submit _____ copies for distribution  
□ Return _____ corrected prints  
□ PRINTS RETURNED AFTER LOAN TO US

REMARKS:  

COPY TO File  
SIGNED Dwight Ho  
Vice President

If enclosures are not as noted, kindly notify us.
PUMP INSTALLATION PERMIT
Maui Business Park 2 Non-Potable Well, Well No. 5226-01

Note: This permit shall be prominently displayed at the site until the work is completed

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 pump installation for Maui Business Park 2 Non-Potable Well (Well No. 5226-01) at TMK (2) 3-8-006:004, Hawaii, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

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

2. No withdrawal of water shall be made other than for testing until a Certificate of Pump Installation Completion has been issued by the Commission.

3. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

4. The pump installation permit shall be for installation of a 900 gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.

5. A water-level measurement access shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels.

6. The permittee shall install an approved meter or other appropriate means for measuring and reporting withdrawals and appropriate devices or means for measuring chlorides and temperature at the well head.

7. Well Completion Report Part II shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrm/resources_permits.htm for current form).

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

9. The pump installation permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

10. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

11. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

12. The work proposed in the pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

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

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

Date of Approval: July 20, 2011
Expiration Date: July 20, 2013

WILLIAM J. AILA, JR., 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 and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Installer’s Signature: C-57, C-57a, or A License #: C-5058 Date: 7/29/11
Printed Name: Dwight Ho Firm or Title: Water Resources International, Inc.

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

Attachments
TO: Commission on Water Resource Management  
ATTN: Mr. Charley Ice  
FROM: Ken Gift, Senior Project Manager  
SUBJ: Maui Business Park 2 Non-Potable Well (Well No. 5226-01)  

DATE: July 27, 2011

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<td>ESTIMATES</td>
<td>APPLICATION FOR PAYMENT</td>
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Fully executed original of the Well Construction Permit as approved

These are transmitted as checked below:

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<th>YOUR INFORMATION</th>
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<th>REVIEW &amp; COMMENT</th>
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CC: Project File  
A&B Properties

REMARKS:
WELL CONSTRUCTION PERMIT

Maui Business Park 2 Non-Potable Well, Well No. 5226-01

Note: This permit shall be prominently displayed at the construction site until the work is completed.

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the construction and testing of Maui Business Park 2 Non-Potable Well (Well No. 5226-01) at TMK (2) 3-8-006:004, Maui, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules (HAR).
2. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.
3. The well construction permit shall be for construction and testing of the well only. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the HWCPIS (the latest pump test worksheet can be obtained by contacting Commission staff or at www.hawaii.gov/dlnr/cwrmlresources_permits.htm). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson. No withdrawal of water shall be made for purposes other than testing without a Certificate of Pump Installation Completion. The permitted pump capacity described on the pump installation permit may be reduced in the event that the pump test does not support the capacity.
4. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson. If it can be shown that the well does not tap basal ground water then this condition may be waived after consultation with and acceptance by Commission staff. However, in no instance can the well be drilled deeper than one-half (1/2) of the theoretical thickness without Commission approval.
5. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.
6. In the event that historically significant remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and immediately contact the Department of Land and Natural Resources' State Historic Preservation Division. Work may recommence only after written concurrence by the State Historic Preservation Division.
7. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.
8. The Well Completion Report Part I shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrmlresources_permits.htm for current form).
9. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.
10. The well construction permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.
11. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.
12. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.
13. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.
14. If the well is not to be used it must be properly capped. If the well is to be abandoned during the course of the project then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f), HAR, prior to any well sealing or plugging work.
15. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, demand or property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or related to or connected with the granting of this permit.
16. This permit shall apply to the location shown on the application only. If the well is to be relocated, the permittee shall apply for a new well construction/pump installation permit in accordance with §13-168-12(f), HAR.
17. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: July 20, 2011
Expiration Date: July 20, 2013

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Driller's Signature: [Signature]
C-57 License #: ABC-7046 Date: 7-27-11
Printed Name: Ken Gift Firm or Title: Goodfellow Brothers, Inc.

Please sign both copies of this permit, return one copy to the Commission office, and retain the other for your records.
Mr. Dwight Ho  
Water Resources International, Inc. 
1100 Alakea Street, Suite 2900 
Honolulu, HI 96813, HI 96813 

Dear Mr. Ho: 

Pump Installation Permit 
Maui Business Park 2 Non-Potable Well (Well No. 5226-01) 
(formerly HC&S Pump 5) 

Enclosed are two (2) originals of your approved Pump Installation Permit for the captioned well(s) that authorize permanent pump installation work for your well(s). As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 14: 

Special Conditions 

1. If the elevation benchmark needs to be altered, the permittee, well operator, and/or well owner shall ensure that the benchmark is transferred (or the well resurveyed) and documentation of the new benchmark shall be submitted to the Commission within sixty (60) days after the pump is installed. 

2. Attached for your information are copies of the Department of Health's (DOH) review comments. Please note DOH's requirements related to discharge of effluent from well drilling and testing activities. Also, please contact the Noise Radiation and Indoor Air Quality Branch at 586-4700 to check compliance with construction noise permit requirements for this project.

The permittee is responsible for all conditions of the permit. This includes ensuring the submission of a completed Well Completion Report Part II form within sixty (60) days after the pump installation work is completed. Be advised that you may be subject to fines of up to $5,000 per day for any violations of your permit conditions starting from the permit approval date. 

Please sign both permit originals and return one copy to the Commission office for our files. 

IMPORTANT - Pump installation shall not commence until a fully signed permit is returned to the Commission. 

If you have any questions, please call Charley Ice of the Commission staff at 587-0218 or toll-free at 984-2400 (Maui), extension 70218. 

Sincerely, 

WILLIAM J. AILA, JR. 
Chairperson 

Enclosure 

c:  HC&S Company (with applicable comments – DOH SDWB, WWB) 
Alexander & Baldwin, Inc. (with applicable comments – DOH SDWB, WWB)
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 pump installation for Maui Business Park 2 Non-Potable Well (Well No. 5226-01) at TMK (2) 3-8-006:004, Hawaii, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

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

2. No withdrawal of water shall be made other than for testing until a Certificate of Pump Installation Completion has been issued by the Commission.

3. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

4. The pump installation permit shall be for installation of a 900 gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.

5. A water-level measurement access shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels.

6. The permittee shall install an approved meter or other appropriate means for measuring and reporting withdrawals and appropriate devices or means for measuring chlorides and temperature at the well head.

7. Well Completion Report Part II shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrm/resources_permits.htm for current form).

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

9. The pump installation permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

10. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

11. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

12. The work proposed in the pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

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

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

Date of Approval: July 20, 2011 Expiration Date: July 20, 2013

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Installer's Signature: __________________________ C-57, C-57a, or A License #: C-5058 Date: ____________

Printed Name: Dwight Ho Firm or Title: Water Resources International, Inc.

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

Attachments
Mr. Ken Gift
Goodfellow Brothers, Inc.
500 East Welakahau Road
Kihei, HI 96753

Dear Mr. Gift:

Well Construction Permit
Maui Business Park 2 Non-Potable Well (Well No. 5226-01)
(formerly HC&S Pump 5)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) that authorize well construction activities but excludes installation work for a permanent pump. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 17:

Special Conditions

1. Attached for your information are copies of the Department of Health's (DOH) review comments. Please note DOH's requirements related to discharge of effluent from well drilling and testing activities. Also, please contact the Noise Radiation and Indoor Air Quality Branch at 586-4700 to check compliance with construction noise permit requirements for this project.

2. A temporary pump may be used for dust control during construction of the land development project.

Please refer to the Permit Processes Worksheet (transmitted with your acknowledgement letter) for further information regarding the process of drilling a well and installing a pump.

No withdrawal of water shall be made other than for testing purposes until a certificate of pump installation completion has been issued by the Commission.

Please sign both permit originals and return one copy to the Commission office for our files. For copies of the aquifer pump test worksheet, please call staff or visit www.state.hi.us/dlnr/cwrm/forms.htm.

IMPORTANT - Drilling work shall not commence until a fully signed permit is returned to the Commission. The permit shall be prominently displayed or made available at the construction site during construction. Be advised that you may be subject to fines of up to $5,000 per day for any violations of your permit conditions starting from the permit approval date.

If you have any questions, please call Charley Ice of the Commission staff at 587-0218 or toll-free at 984-2400 (Maui), extension 70218.

Sincerely,

WILLIAM J. AILA, JR.
Chairperson

Enclosures

c: HC&S Company (with applicable comments – DOH SDWB, WWB)
Alexander & Baldwin, Inc. (with applicable comments – DOH SDWB, WWB)
WELL CONSTRUCTION PERMIT

Maui Business Park 2 Non-Potable Well, Well No. 5226-01

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Driller's Signature: ___________________________ C-57 License #: ABC-7046 Date: ___________________________

Printed Name: Ken Gift Firm or Title: Goodfellow Brothers, Inc.

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

Attachment
Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. **Please respond by returning this cover memo form by July 20, 2011.** If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley Ice of the Commission staff at 587-0218.

**RESPONSE:**

- [ ] A water lease/permit is required of this applicant and an application for such will be requested by our division.

- [x] A water lease/permit is **not** required of this applicant.

- [ ] A water lease/permit has been obtained by the applicant through lease no. ______

- [ ] Other relevant Land Division rules/regulations, information, or recommendations are attached.

- [ ] No objections

- [ ] Other comments: **Original source of private title is Grant 3343 issued prior to statehood.**

**Contact Person:** Gary Martin  
**Phone:** 587-0421

**Signed:** Gary Martin  
**Date:** July 7, 2011
COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR PERMIT ISSUANCE 5/19/05

FROM: CHARLEY DATE: 29 June 11
TO: ANAKALEA, P. INIT: KUNIMURA, I. FOR: Approval
TO: BAUER, G. INIT: NAKAMA, L. FOR: Signature
TO: CHING, F. INIT: NAKANO, D. FOR: Information
TO: DANBARA, S. INIT: OHYE, M. FOR: See Me
TO: FUJII, N. INIT: SAKODA, E. FOR: Review & Comment
TO: GOODING, K. INIT: SUBIA, S. FOR: Take Action
TO: HARDY, R. INIT: SWANSON, S. FOR: Type Draft
TO: HIGA, D. INIT: UYENO, D. FOR: Type Final
TO: ICE, C. INIT: YODA, K. FOR: File
TO: IMATA, R. INIT: YOSHINAGA, M. FOR: Xerox

WELL NUMBER 5226-01

Maui Business Park Irrigation Well
(formerly HCD's Pump S)

WELL CONSTRUCTION

ATTACHMENTS FOR WELL CONSTRUCTION PERMIT:
1 COVER LETTER
2 PERMIT (2x)
3 SDWB
4 WWB
5 CWB
6 HEER
7 LD
8 HP
9 OCCL
10 SMA

TO BE SENT TO APPLICANT

FOR OFFICE USE ONLY

PUMP INSTALLATION

ATTACHMENTS FOR PUMP INSTALLATION PERMIT:
1 COVER LETTER
2 PERMIT (2x)
3 SDWB
4 WWB
5 CWB
6 HEER
7 LD
8 HP
9 OCCL
10 SMA

TO BE SENT TO APPLICANT

FOR OFFICE USE ONLY

contractor lic (DOCA)
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**Click here to enter search criteria for prior complaints history ->**
For prior complaints and disciplinary history, contact licensing and business information center at (808) 587-3295.

License information on this site reflects information in the Professional and Vocational Licensing Division as of June 29, 2011; however, applications and forms are subject to standard processing time, and the information here does not reflect pending changes which are being reviewed. The site is updated daily, Monday through Friday, except holidays. The State of Hawaii makes no guarantees as to the accuracy of the information accessed, the timeliness of the delivery of transactions, delivery to the correct party, preservation of the privacy and security of users and makes no warranties, including warranty of merchantability and fitness for a particular purpose. User is advised that if the information obtained herein is to be reasonably relied upon, user should confirm the accuracy of such information with the provider thereof.
## LIC: CT-5058 WATER RESOURCES INTERNATIONAL, INC.

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June 20, 201

TO: Honorable Loretta J. Fuddy, A.C.S.W., M.P.H., Director
Department of Health
Attention: Acting Chief, Wastewater Branch
Joanna L. Seto, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

FROM: William J. Aila, Jr., Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
MBP2 Non-potable Well (Well No. 5226-01) TMK (2) 3-8-006:004
Well address: Pulehu Road

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by July 20, 2011. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley Ice of the Commission staff at 587-0218.

CI:ss
Attachment(s)

RESPONSE:

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

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

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

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

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

An NPDES permit is required.

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

In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.

No comments/objections.

Contact Person: Roland Tejano, Eng. on Maui 984-8232

Signed: Len Montani 6/21/2011
**General**

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Added By: phsieh 2/26/2007 10:52 AM  Last Modified: rtejano 7/15/2010 8:05 AM
### Septic Tank Information

- **Septic Tank Liquid Volume:** 0 gal.
- **Disposal Type:** Bed

- **6" Inspection Port(s) to grade:**
- **Manhole openings brought to grade:**

**Remarks:**
To tie in to County sewer project/plan terminated/discarded

### Soil Profile Information

- **Percolation Rate:** 50
- **Minimum Soil Absorption:** 330 sq. ft./bd
- **3' Groundwater Setback:**
- **Total Soil Absorp. Provided:** 0 sq. ft.

### Soil Absorption Information

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*Added By: phsieh 2/26/2007 10:52 AM Last Modified: rfrejano 7/15/2010 8:05 AM*
Easy ones <<5727_02.pdf>> <<5226_01.pdf>>
June 20, 2011

TO: Honorable Loretta J. Fuddy, A.C.S.W., M.P.H., Director
    Department of Health
    Attention: Acting Chief, Wastewater Branch
    Joanna L. Seto, Chief, Safe Drinking Water Branch
    Alec Wong, Chief, Clean Water Branch
    Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

FROM: William J. Aila, Jr., Chairperson
      Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
         MBP2 Non-potable Well (Well No. 5226-01) TMK (2) 3-8-006:004
         Well address: Pulehu Road

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump
Installation permit application.

We would appreciate your comments on the captioned application for any conflicts or
inconsistencies with the programs, plans, and objectives specific to your department. Please respond by
returning this cover memo form by July 20, 2011. If we do not receive comments or a request for
additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this
permit application, request additional information, or request additional review time, please contact
Charley Ice of the Commission staff at 587-0218.

C:s s
Attachment(s)

RESPONSE:

[1] This well qualifies as a source which will serve as a source of potable water to a public water system (defined as serving 25 or more people at least 60
days per year or less than 15 or more service connections) and must receive Director of Health approval prior to use to comply with Hawaii Administrative

[1] This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service
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then Director of Health approval is required prior to implementation.

[1] If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow
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potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected
and tested.

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

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

[ ] An NPDES permit is required.

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

[ ] In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be
applicable, and we do not need to review the new location.

[ ] No comments/objections

Contact Person: Michael Miyahiga  Phone: 808-425-6
Signed: Date: 6/20/11
Hello Charley –

Here are the cover sheets with our comments for the requested listed. Hard copies will be delivered via Messenger.

Aloha,

Lori Morikami

DOH-WWB

<<Well5226-01-MBP2-SepticTank7088.pdf>> ____________________________
<<Well5727-02-GreenEngery-Csps.pdf>> ________

From: Susan S Hoagbin/DLNR/StateHiUS@STATEHIUS@DOHMAIL On Behalf Of Susan S Hoagbin/DLNR/StateHiUS@DOHMAIL
Sent: Monday, June 20, 2011 9:50 AM
To: CleanWaterBranch; Morikami, Lori N; Miyahira, Michael M; Palmer, Richard
Cc: Charley F Ice
Subject: Review for Comments

Please respond to this email request for comments to charley.f.ice@hawaii.gov

June 20, 2011

TO: Honorable Loretta J. Fuddy, A.C.S.W., M.P.H., Director
   Department of Health
   Attention: Acting Chief, Wastewater Branch
   Joanna L. Seto, Chief, Safe Drinking Water Branch
   Alec Wong, Chief, Clean Water Branch
   Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

FROM: William J. Aila, Jr., Chairperson
   Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
         MBP2 Non-potable Well (Well No. 5226-01) TMK (2) 3-8-006:004
         Well address: Pulehu Road

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We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by July 20, 2011. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley Lee of the Commission staff at 587-0218.

Cl: ss
Attachment(s)

RESPONSE:

[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (defined as serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-30.

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

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

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

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

[ ] An NPDES permit is required.

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

[ ] In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.

[ ] No comments/objections

Contact Person: Roland Tejano, Eng. on Maui
                984-8232

Signed: Lei Montani
        Date: 6-21-2011
### Site Information

**Property Owner**
- **First Name:**
- **Last Name:** HCAS
- **Street Address:** PUNENE
- **Street Address 2:**
- **Suite/Apt #:**
- **City:** PUNENE
- **State:** Hawaii
- **Zip Code:** 96784
- **Email Address:**
- **Use Project Address:**

**Dwelling Information**
- **Lot Size (sq ft):**
- **CPR Lot:**
- **Dwelling Type:** Existing Dwelling/New Addition
- **Existing IWS:**
- **# of Existing IWS:**
- **Other Wastewater Bidg:**
- **Total Bedrooms:**
- **Designed Flow Rate (gpd):**
- **Building Type:** Commercial
- **LCC:**
- **Portable Well within 1,000ft:**

Added By: phsieh 2/26/2007 10:52 AM  Last Modified: rtejano 7/15/2010 8:05 AM
May 11, 2011

Ms. Diane Bevilacqua
A&B Properties, Inc.
11 Puunene Avenue
Kahului, HI 96732

Dear Ms. Bevilacqua:

Water Use of Existing Well During Conversion to New Use
Puunene Pump 5 Conversion to Maui Business Park Phase II Well
(Well No. 5226-01, Kahului-Puunene, Maui)

Thank you for your June 22, 2011 email regarding the standard language in our application
acknowledgement. The reference to a pumping prohibition pending issuance of a certificate of well
collection/pump installation applies to the new work that is to be completed but is not yet
permitted.

We understand you wish to use the water source for dust control during new construction. A
temporary pump of capacity equal to or less than the previously accepted use may be used for this
purpose. It will be a special condition in your permit. The permit condition applies to all aspects,
including the timely transmission of completion reports, and water use reporting during the
temporary use.

If you have any questions about your permit application, please contact Charley Ice of the
Commission staff at 587-0218 or toll-free at 984-2400 (Maui), extension 70218.

Sincerely,

WILLIAM M. TAM
Deputy Director

Cc: Goodfellow Brothers, Inc.
    HC&S Company
I think a special letter is the appropriate cure here. Simply adds that a temporary portable pump (capacity?) can be used to provide for dust control via water wagons prior to normal operation, which is still subject to the certificate language. We still want to hold the driller accountable for providing completion reports in a timely manner, and we should be responding in a timely manner as well so they can pump soon after completion of work for their stated needs.

Charley F Ice——06/22/2011 02:27:36 PM——Is this a "problem" with boilerplate language? Should we resp...

Is this a "problem" with boilerplate language?
Should we respond by saying that this applies to new wells, and that a well modification application does not preclude continuing use prior to commencement of modification work? Should we rescind and send a "cured" letter?[attachment "5226-01.wcpia.acc.doc" deleted by Roy Hardy/DLNR/StateHiUS]

Charley — as we discussed this morning, we received the June 20th letter from Mr. Tam acknowledging receipt of our Well Construction / Pump Installation permit application for the modifications of the existing Well No. 5226-01 (previously “Puunene Pump 5”). The letter instructs that "no water may be pumped other than for testing until a certificate of well construction / pump installation completion letter is issued to the well operator and landowner."

As you know, this well is a tunnel style well originally constructed in 1899 for sugarcane irrigation and provided about 9 mgd until the 1990’s but is being modified to serve as non-potable source for landscape irrigation and yard water uses for the Maui Business Park Phase II (1.2 mgd capacity). We would like to be able to access the brackish water for use during the construction process for dust control purposes by utilizing a small portable pump in the pit to supply the water wagons and request approval to do so. We could report the amount of water withdrawn on the HC&S monthly groundwater use report.

Please let me know if it would be allowable. Feel free to call if you have any questions and thank you for your assistance in this matter.

Diane P. Bevilacqua, PE
Please respond to this email request for comments to charley_fice@hawaii.gov

5226-01, 5727-02.PDF
**COMMISSION ON WATER RESOURCE MANAGEMENT**
**ROUTE SLIP FOR NEW APPLICATIONS**

**FROM:** CHARLEY  
**DATE:** 13-Jun-11  
**SUSPENSE DATE:** 20-Jun-11

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**Maui Business Park Phase 2**

**WELL NUMBER** 5226-01  
**WELL NAME** MBPII Non-Potable  
**WUP Number** na  
**WELL CONSTRUCTION** Landscape Irrigation (landscape irrigation)  
**PUMP INSTALLATION**  
**WUPA**  
**WUP Transfer**  
**DEC-ADM97-A1 Modification**

**ATTACHMENTS FOR APPLICATION PROCESSING** - Both applicant & staff generated

1. **TRANS. LETTER**
2. **PERMIT PROCESS TABLE**
3. **CWRM MAPS**
4. **APPL. FORM (11 COPIES)**
5. **USGS MAPS (11 COPIES)**
6. **TAX MAPS (11 COPIES)**
7. **PARCEL OWNER VERIF.**
8. **CONTRACTOR VERIF.**
9. **ALL INFO FILLED IN**
10. **BACKGROUND CHECK**
11. **$25 FEE DEPOSIT SLIP**
12. **DHP/CDUP/SMA pre-screen** (SMA map printout http://gis.hicentral.com/website/parcelzoning/viewer.htm, or INGRID'S SMA/CD MAP)  
13. **EA 343 5(a) triggers?**

**FOLDER:**
- MADE NEW FILE FOLDER, ATTACHED
- FILE FOLDER ALREADY MADE, IN FILE CABINET

**INCOMPLETE ACTION DATES:**

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**Wailea Business Park Phase 2**

**WELL NUMBER** 5226-01  
**WELL NAME** MBPII Non-Potable  
**WUP Number** na  
**WELL CONSTRUCTION** Landscape Irrigation  
**PUMP INSTALLATION**  
**WUPA**

---

**ATTACHMENTS FOR APPLICATION PROCESSING** - Both applicant & staff generated

1. **TRANS. LETTER**
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- FILE FOLDER ALREADY MADE, IN FILE CABINET

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Mr. Ken Gift  
Goodfellow Brothers, Inc.  
500 East Welakahao Road  
Kihei, HI 96753

Dear Mr. Gift:

Well Construction/Pump Installation Permit Application for Well No. 5226-01

On June 6, 2011, the Commission received your completed Well Construction/Pump Installation permit application and filing fee for the MBP2 Non-potable Well (Well No. 5226-01). Your application will be processed within ninety (90) days from this date.

The attached table describes the process, responsible parties, and deadline requirements for drilling or modifying a well and installing, modifying, or replacing a pump.

By this acceptance letter, we are also notifying the well operator/landowner that no water may be pumped other than for testing until a certificate of well construction/pump installation completion letter is issued to the well operator and landowner.

The permitted pump capacity described on the pump installation permit may be reduced if the pump test does not support the capacity. No certificate of pump installation will be issued until the Commission determines that the pump capacity will not have adverse effects on the aquifer, other nearby wells, or streams. Thus, you may need to remove the pump and install a smaller pump if the Commission decides a smaller pump is required to protect water resources before you can withdraw water for purposes other than testing.

If you have any questions about your permit application, please contact Charley Ice of the Commission staff at 587-0218 or toll-free at 984-2400 (Maui), extension 70218.

Sincerely,

WILLIAM M. TAM  
Deputy Director

CI:ss  
Attachment  
c: HC&S Company  
Alexander and Baldwin, Inc.
June 20, 2011

TO: Honorable Loretta J. Fuddy, A.C.S.W., M.P.H., Director
   Department of Health
   Attention: Acting Chief, Wastewater Branch
   Joanna L. Seto, Chief, Safe Drinking Water Branch
   Alec Wong, Chief, Clean Water Branch
   Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

FROM: William J. Aila, Jr., Chairperson

SUBJECT: Well Construction/Pump Installation Permit Application

MBP2 Non-potable Well (Well No. 5226-01) TMK (2) 3-8-006:004
Well address: Pulehu Road

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We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by July 20, 2011. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley Ice of the Commission staff at 587-0218.

RESPONSE:

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

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

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

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

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

[ ] An NPDES permit is required.

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

[ ] In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.

[ ] No comments/objections

Contact Person: ____________________________ Phone: ____________________________
Signed: ____________________________ Date: ____________________________
June 20, 2011

TO: Russell Tsuji, Administrator  
Land Division

FROM: William M. Tam, Deputy Director  
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application  
MBP2 Non-potable Well (Well No. 5226-01) TMK (2) 3-8-006:004

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by July 20, 2011. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley Ice of the Commission staff at 587-0218.

CI:ss
Attachment(s)

RESPONSE:

[ ] A water lease/permit is required of this applicant and an application for such will be requested by our division.

[ ] A water lease/permit is not required of this applicant.

[ ] A water lease/permit has been obtained by the applicant through lease no. __________________________.

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

[ ] No objections

[ ] Other comments:

Contact Person: ____________________________ Phone: _______________

Signed: ____________________________ Date: ________________
June 20, 2011

TO: Dr. Puualokalani Aiu, Administrator
    Historic Preservation

FROM: William M. Tam, Deputy Director
    Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
         MBP2 Non-potable Well (Well No. 5226-01) TMK: (2) 3-8-006:004

  Transmitted for your review and comment is a copy of the captioned Well Construction/Pump
  Installation permit application.

  We would appreciate your comments on the captioned application with regard to the programs,
  plans, and objectives specific to your division. Please respond by returning this cover memo
  form by July 20, 2011. If we do not receive comments or a request for additional review time by
  this date, we will assume you have no comments.

  Please find the attached maps to locate the proposed well. If you have any questions about
  this permit application or request additional review time, please contact Charley Ice of the
  Commission staff at 587-0218. If you require additional information regarding specific
  information that can be provided by the applicant, please contact the applicant directly at the
  contact information provided on the application form.

RESPONSE:

[ ] This is a [ ] public (county or state) project [ ] private project and [ ] may disturb historic sites.

[ ] We concur that the work described under this permit will not disturb historic sites.

[ ] We do not concur that the work described under this permit will not disturb historic sites. We require the following for our concurrence:

Contact Person: ____________________________ Phone: ____________________

Signed: ____________________________ Date: ____________________
June 20, 2011

Mr. William Spence, Director
Planning Department
County of Maui
250 South High Street
Wailuku, HI 96793

Dear Mr. Spence:

Special Management Area Use Permit Requirements for
Well Construction/Pump Installation Permit Application
MBP2 Non-potable Well (Well No. 5226-01)

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the SMA permitting requirements specific to your division. Please respond by returning this cover memo form by July 20, 2011. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley Ice of the Commission staff at 587-0218.

Sincerely,

WILLIAM J. AILA, JR.
Chairperson

RESPONSE:

[ ] This well project [ ] requires [ ] does not require a SMA. If a SMA is required it [ ] has [ ] has not been approved and [ ] is [ ] is not currently active.

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

[ ] No objections

[ ] Other comments:

Contact Person: ___________________________ Phone: ___________________________
Signed: ___________________________ Date: ___________________________
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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.

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Professional and Vocational Licensing (PVL) Search - General Licensee

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Click here to enter search criteria for prior complaints history ->
For prior complaints and disciplinary history, contact licensing and business information center at (808) 587-3295.

License information on this site reflects information in the Professional and Vocational Licensing Division as of June 15, 2011; however, applications and forms are subject to standard processing time, and the information here does not reflect pending changes which are being reviewed. The site is updated daily, Monday through Friday, except holidays. The State of Hawaii makes no guarantees as to the accuracy of the information accessed, the timeliness of the delivery of transactions, delivery to the correct party, preservation of the privacy and security of users and makes no warranties, including warranty of merchantability and fitness for a particular purpose. User is advised that if the information obtained herein is to be reasonably relied upon, user should confirm the accuracy of such information with the provider thereof.
# Professional and Vocational Licensing (PVL) Search - License Class

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A & B PROPERTIES, INC.
11 S. PUUNENE AVENUE • KAHULUI, MAUI, HAWAII 96732

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**TOTAL**  

| AMOUNT | $ 25.00 |

**REMARKS:**  
LINE (1) Well No. 5226-01  
LINE (2)  
LINE (3)  
LINE (4)  
LINE (5)  
LINE (6)  
LINE (7)  
LINE (8)  
LINE (9)  
LINE (10)  

June 2, 2011

Mr. William M. Tam, Deputy Director
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, HI 96809

Subject: State Well #5226-01 (USGS #19; HC&S Puunene - Pump 5)
Well Construction / Pump Installation Permit Application

Dear Mr. Tam:

Enclosed please find a Well Construction / Pump Installation permit application, filing fee, and other attachments for modifications and pump replacement/installation for State Well #5226-01, HC&S Puunene – Pump 5). The general contractor will be Goodfellow Bros., Inc. and the pump installation sub-contractor will be Water Resources International, Inc.

If you have any questions, please feel free to contact Diane by phone at (808) 872-4302 or by email at dbevilacqua@abprop.com and Garret by phone at (808) 877-6950 or by email at ghew@hcsugar.com. Thank you for your attention to this matter.

Sincerely,

Garret Hew
Manager, Water Resources
Hawaiian Commercial & Sugar Co.

Diane P. Bevilacqua, PE
Project Manager, Maui Development
A&B Properties, Inc.

ecc: Charley F. Ice (CWRM)
Ken Gift (GBI)
Dwight Ho (WRI)
Ivan Nakatsuka (ATA)
Meredith Ching (A&B - Honolulu)
**WELL LOCATION INFORMATION**

1. STATE WELL NO. (If already assigned): 5226-01
2. WELL NAME: MBII Non-POTABLE WELL (previously "Punene Pump 5")
3. ISLAND: MAUI
4. TMK: 3 8 06 004

The following must be attached before this application is accepted as complete:
- Portion of 7.5-Minute Series USGS topographic map (scale 1:24,000) with well location labeled and include the name of the quad map
- Property tax map, showing well location referenced to established property boundaries
- Photograph of the proposed well site
- A schematic drawing showing the well site, access road and proposed well infrastructure
- For dug wells, attach a grading plan with cross section profiles showing existing and finish grades

5. WELL OPERATOR’S NAME/COMPANY: HC&S COMPANY
   Wall Operator's Contact: Garret Hew
   Wall Operator's Mailing Address: P. O. Box 266, Puunene, HI 96784
   Wall Operator’s Phone: 808-877-6950
6. LANDOWNER’S NAME/COMPANY: HALEMAYNE ALEXANDER & BALDWIN, INC.
   Landowner’s Contact: Diane Bevilacqua
   Landowner’s Mailing Address: 11 Puunene Ave., Kahului, HI 96732
   Landowner’s Phone: 808-872-4302
   Landowner’s Fax: 808-871-7497
   Landowner’s E-mail: dbevilacqua@abprop.com

**PROPOSED WELL CONSTRUCTION**

7. Proposed Work
   - Construct New Well
   - Modify Existing Well
   - Abandon/Seal Well
   - Shaft
   - Tunnel

8. Construction Type
   - Drilled
   - Gut
   - Replace Pump

9. Is this well part of a battery of wells? □ Yes □ No

10. Proposed Work
    - New Pump (gallons per minute)
    - New Pump (gallon per minute)

11. Proposed Pumping Rate, gpm (gallons per minute)
    - 900 gpm total

12. Proposed Amount of Withdrawal, gpd (gallons per day)
    - 1,200,000

13. Method of flow measurement
    - Flowmeter
    - Other (explain)

14. Proposed Surveyor name and license number (a surveyor is required for all Well Construction Permits and may be required for some Pump Installation Permits) Justin H. Lapp, License #12964

**PROPOSED USE**

□ 15. Municipal (water systems serving greater than 25 individuals or 15 service connections)

□ 16. Domestic Number of units to be served: __________________________

□ 17. Industrial (describe) ____________________________________________

□ 18. Irrigation (describe crop and no. of acres) landscape irrigation ____________ acres (business park)

□ 19. Military (describe) ____________________________________________

□ 20. Other (describe) ____________________________ yard water or other non-potable uses

**OTHER LEGAL REQUIREMENTS**

If required, Items 21. and 22. must be obtained before the Com:

21. Conservation District Use Permit (CDUP)
   - Well is in Conservation District
     □ Required, CDUP #: ______________________ date approved ____________
     □ Not Required (attach documentation from OCLL)
     □ I have checked with OCLL about whether or not an SMA Permit is required. I understand that checking with the HPD prior to making this application may expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.
   - Well is not in Conservation District
   - I have not checked if the well is in Conservation District. I understand that checking if the well is in a Cor review. I further understand that issues raised may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

22. Special Management Area Permit (SMAP)
   - Required, SMA #: ______________________ date approved ____________
   - Not Required (attach documentation from applicable County agency)
   - I have not consulted with the county about whether or not an SMA Permit is required. I understand that checking with the County prior to making this application may expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

23. State Historic Preservation Division (SHPD) of the Department of Land and Natural Resources
   - I have consulted with the HDP regarding potential impacts of well construction activities on historic sites. I have attached applicable documentation from the HDP.
   - I have not consulted with the HDP regarding potential impacts of well construction activities on historic sites. I understand that checking with the HDP prior to making this application may expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued. Additionally, the history of past land use is attached. See attached letter for entire site.

24. Water Use Permit No. (If applicable): N/A

Additional remarks, explanations, etc. (attach additional sheet if more space is needed)
See attached plans for modifications to existing brackish water skimming wells & pump replacements to downsize from 9 mgd to 1.2 mgd capacity.

**NOTE:** Sign stating below that the signatories understand and swear that the information provided is accurate and true to the best of their knowledge.

Further, the signatories understand that upon permit approval: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 60 days after the completion date of the permitted work; 3) in the event that the application is not completed correctly, any permit may be suspended until the item is brought in to compliance, and any work done while the permit is in suspension may be in fines in excess of $500/day.

25. WELL DRILLER (Must be filled out if application is for Well Construction)
    Goodfield Bros. Inc.
    Signature: KEN 611
    Address: 500 E. Welahakoa Road, Kehi, HI 96753
    Phone: 808-879-6868
    Fax: 808-879-7008
    E-mail: keng@goodfieldbros.com

26. PUMP INSTALLER (Must be filled out if application is for Pump Installation)
    Water Resources International Inc.
    Licensee business name: C-5058
    Signature: Dwight Ho
    Address: 1100 Alakea Street – Suite 2900, Honolulu, HI 96813
    Phone: 808-531-8422
    Fax: 808-531-7181
    E-mail: dwightho@wri.us.com

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**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 (or A606)
  - Type E
  - Type S
  - Grade B
  - Other

**Stainless Steel:** (check one):
- ASTM A409 (production wells)
- ASTM A312 (monitor wells)

**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

**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 (or A606)
  - Type E
  - Type S
  - Grade B
  - Other

**Stainless Steel:** (check one):
- ASTM A409 (production wells)
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- 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
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## Parcel Master Address

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## Addresses

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## Owner(s)

**Name:** ALEXANDER & BALDWIN INC  
**Address:** P O BOX 156  
KAHULUI, HI, 96732  
**Phone:**  
**E-mail:**

## Zone Code

<table>
<thead>
<tr>
<th>Zone Code</th>
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<td>STATE AGRICULTURAL DISTRICT</td>
<td>STATUTE205</td>
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<td>STATE URBAN DISTRICT</td>
<td>STATUTE205</td>
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http://kivanet10g.co.maui.hi.us/kivanet/2/land/summary/index.cfm?pin=24435  
5/26/2011
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Owner Occupy:

There are no establishments on this parcel.
March 28, 2009

Ms. Lesli Otani  
Department of Public Works and Environmental Management  
County of Maui, Development Services Administration  
250 South High Street  
Wailuku, Hawai‘i 96793

Dear Ms. Otani:

SUBJECT: Chapter 6E-42 Historic Preservation Review – REVISED  
Preliminary Plat Review for the Proposed First Assembly of God Subdivision, File  
No. 3.2208 (Maui Business Park Phase II, South Project Area)  
Wailuku Ahupua‘a, Wailuku District, Island of Maui  
TMK: (2) 3-8-006:004

This letter serves as a revision to an October 31, 2008 review letter for the abovementioned permit application in which we recommended that an archaeological inventory survey of the subject parcel be completed prior to the issuance of the permit (SHPD LOG 2008.2913; DOC NO: 0810JP19).

As a result of the receipt of additional correspondence for the project area which includes record of a 1993 field inspection conducted by SHPD staff, several project review letters from this office and a copy of a 2003 cultural impact assessment, our revision is based on the following information:

1. A June 29, 1993 pedestrian survey of a portion of the subject parcel conducted by SHPD staff archaeologist Theresa K. Donham confirmed the both the presence of active cultivation as well as the absence of culturally significant surface architecture or areas likely to contain similar subsurface deposits (SHPD LOG NO: 9086; DOC NO: 9308KD01);
2. Several subsequent project review letters from our office (SHPD LOG NO: 9851; DOC NO: 9310AG43; SHPD LOG NO: 10576; DOC NO: 9401AG23; SHPD LOG NO: 9147; DOC NO: 9308AG55; SHPD LOG NO: 9989; DOC NO: 9311AG14; SHPD LOG NO: 11896; DOC NO: 9406KD37; SHPD LOG NO: 19217; DOC NO: 9704SC35) all indicate that proposed subdivision and construction within the subject TMK would have no effect on historic properties;
3. The 2003 Cultural Impact Assessment prepared by Aki Sinoto Consulting, LLC, included interviews with two former plantation residents (Mr. and Mrs. George Ito), the last engineer for the now defunct Kahului Railroad (Mr. William Kanekoa), and Mr. Sam Ka‘ai, a well known authority on Hawaiian cultural practices. All of those interviewed had direct knowledge that the area in question had been significantly impacted by previous commercial agricultural activity and/or that its location in a flood plain made it an unlikely area to have been utilized by ancient Hawaiians.
Given the above information, we now believe that no historic properties will be affected by the proposed action. However, the landowner/applicant is reminded that in the event anything of cultural and/or historic significance is found, all ground altering disturbance must be immediately halted and this office contacted for guidance.

Should you have any questions or comments regarding this letter, please contact Patty Conte at (Patty.J.Conte@hawaii.gov).

Aloha,

Nancy McMahon, Deputy SHPO/State Archaeologist
State Historic Preservation Division

c:  H. Kawahara, A&B Properties, Inc., 11 Pu‘unene Avenue, Kahului, Hawai‘i 96732-1608
    Jeff Hunt, Director, Dept. of Planning, 250 S. High Street, Wailuku, Hawai‘i 96793
WELL NO. 5

ALEXANDER AND BALDWIN, INC.
PRELIMINARY EVALUATION FOR DUAL WATER SYSTEM FOR MAUI BUSINESS PARK, PHASE II KAHULUI, MAUI, HAWAII

PHOTO
WELL NO. 5 SITE
# Improvement Plans for Maui Business Park Phase II

**Irrigation Well**

**Kahului, Maui, Hawaii**

**TAX MAP KEY:** (2) 3-8-006: 004  
**OWNER:** A & B Properties, Inc.  
**SUBDIVISION FILE NO:** 3.2208  

**Prepared by:**  
AUSTIN, TSUTSUMI & ASSOCIATES, INC.  
ENGINEERS • SURVEYORS • HONOLULU • WAILUKU • HILO

## Index of Drawings

<table>
<thead>
<tr>
<th>SHT. NO.</th>
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<td>C-001</td>
<td>GENERAL NOTES, LEGEND &amp; ABBREVIATIONS</td>
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<td>3</td>
<td>C-100</td>
<td>GENERAL SITE PLAN</td>
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<td>C-101</td>
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<td>C-110</td>
<td>FOUNDATION DEMOLITION PLAN</td>
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<td>C-111</td>
<td>TOP OF WALL DEMOLITION PLAN</td>
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<td>C-112</td>
<td>WALL ELEVATION DEMOLITION</td>
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<td>C-113</td>
<td>EXISTING CONDITION PHOTOS</td>
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<td>C-821</td>
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<td>ELECTRICAL SITE PLAN</td>
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<td>E-3</td>
<td>DETAILS AND NOTES</td>
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## Location Map

**Location Plan**  
Scale: 1 in = 4 miles

**Vicinity Map**  
Scale: Not to scale
24" D.I. PIPE (BELOW) CONNECTING WET WELLS
4'-0" x 2'-0" PAIL, TYP.
6'-9" PIPE SUPPORT (4 EACH)

NOTE:
SEE DWG. C-821 FOR SCHEDULE OF VALVES AND FITTINGS

NOTE:
SEE DWG. C-821 FOR SCHEDULE OF VALVES AND FITTINGS

NOTE:
SEE DWG. C-821 FOR SCHEDULE OF VALVES AND FITTINGS
FINISH GRADE

BOLT PUMP DISCHARGE HEAD TO CONCRETE PAD WITH (4) STAINLESS STEEL BOLTS, PER PUMP MANUFACTURER'S INSTALLATION INSTRUCTIONS.

6" VALVE, N.P. W/ 3/4" D. PIPE

PUMP MOTOR

CARTRIDGE FILTER

1/" NON-SHRINK CEMENT

6" VENT W/ S.S. INSECT SCREEN

TOP OF SLAB ELEV.=43.0

1/"" DEMOLISHED CONCRETE APPROX. LOCATION OF NORTH TUNNEL (BEYOND).

G.S. COLUMN

15'=0" CONCRETE D. PUMP DISCHARGE HEAD TO CONCRETE PAD WITH (4) STAINLESS STEEL BOLTS, PER PUMP MANUFACTURER'S INSTALLATION INSTRUCTIONS.

6" VALVE, N.P. W/ 3/4" D. PIPE

PUMP MOTOR

CARTRIDGE FILTER

1/" NON-SHRINK CEMENT

6" VENT W/ S.S. INSECT SCREEN

TOP OF SLAB ELEV.=43.0

1/"" DEMOLISHED CONCRETE APPROX. LOCATION OF NORTH TUNNEL (BEYOND).

G.S. COLUMN

15'=0" CONCRETE D. PUMP DISCHARGE HEAD TO CONCRETE PAD WITH (4) STAINLESS STEEL BOLTS, PER PUMP MANUFACTURER'S INSTALLATION INSTRUCTIONS.

6" VALVE, N.P. W/ 3/4" D. PIPE

PUMP MOTOR

CARTRIDGE FILTER

1/" NON-SHRINK CEMENT

6" VENT W/ S.S. INSECT SCREEN

TOP OF SLAB ELEV.=43.0

1/"" DEMOLISHED CONCRETE APPROX. LOCATION OF NORTH TUNNEL (BEYOND).

G.S. COLUMN

15'=0" CONCRETE D. PUMP DISCHARGE HEAD TO CONCRETE PAD WITH (4) STAINLESS STEEL BOLTS, PER PUMP MANUFACTURER'S INSTALLATION INSTRUCTIONS.

6" VALVE, N.P. W/ 3/4" D. PIPE

PUMP MOTOR

CARTRIDGE FILTER

1/" NON-SHRINK CEMENT

6" VENT W/ S.S. INSECT SCREEN

TOP OF SLAB ELEV.=43.0

1/"" DEMOLISHED CONCRETE APPROX. LOCATION OF NORTH TUNNEL (BEYOND).

G.S. COLUMN

15'=0" CONCRETE D. PUMP DISCHARGE HEAD TO CONCRETE PAD WITH (4) STAINLESS STEEL BOLTS, PER PUMP MANUFACTURER'S INSTALLATION INSTRUCTIONS.

6" VALVE, N.P. W/ 3/4" D. PIPE

PUMP MOTOR

CARTRIDGE FILTER

1/" NON-SHRINK CEMENT

6" VENT W/ S.S. INSECT SCREEN

TOP OF SLAB ELEV.=43.0

1/"" DEMOLISHED CONCRETE APPROX. LOCATION OF NORTH TUNNEL (BEYOND).

G.S. COLUMN

15'=0" CONCRETE D. PUMP DISCHARGE HEAD TO CONCRETE PAD WITH (4) STAINLESS STEEL BOLTS, PER PUMP MANUFACTURER'S INSTALLATION INSTRUCTIONS.
14'-0" x 8'-0"
CONC. PAD

EXIST. CONCRETE STRUCTURE TO REMAIN

24" D.I. PIPE INSTALLED THROUGH EXIST. WATER PASSAGEWAY CONNECTING SOUTH AND NORTH POOLS.

NOTE: PIPE PENETRATION INTO SOUTH TUNNEL, AND PLAIN CONCRETE FILL AROUND PIPE, TO BE SAME AS FOR NORTH TUNNEL.

PLAIN CONC. FILL TO SUPPORT PIPE AT PASSAGEWAY ENTRANCE

SECTION 4
SCALE: 1/2"=1'-0" C-822 C-822

GRAPHIC SCALE SHEET 23 OF 27
This is for [sealing] 5226-01 -- o.k. for a preview. Can we think of other info that might be useful? They're ready to submit other yellow marks for abandon year comb.
Table 5. RECORDS OF SHAFTS IN CENTRAL MAUI
(For details of tunneling and well depths, see page 216, Stearns and MacDonald, 1944.)

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<tr>
<th>Shaft No.</th>
<th>Location</th>
<th>Date Installed</th>
<th>Date Abandoned</th>
<th>Plantation Pump No.</th>
<th>Altitude of shaft cellar (ft)</th>
<th>Measured pump rate (gpm)</th>
<th>Average draft (1926-1970) (gph)</th>
<th>Dec. 5, 1970 water level in ft above sea level</th>
<th>Chief aquifer(1)</th>
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<td>3.6</td>
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<tr>
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<td>Kiihi</td>
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<td>3</td>
<td>4</td>
<td>2.0</td>
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<td>Alluvium and gravel</td>
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<tr>
<td>25</td>
<td>Wailuku</td>
<td>1900</td>
<td>3</td>
<td>4</td>
<td>2.0</td>
<td>6.0</td>
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<td>Alluvium and gravel</td>
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<tr>
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<td>Wailuku</td>
<td>1900</td>
<td>3</td>
<td>4</td>
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<td>1.8</td>
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<td>4</td>
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<td>6.0</td>
<td>1.8</td>
<td>3.6</td>
<td>Alluvium and gravel</td>
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</tbody>
</table>

(1) Altitudes divisible by 2 were determined from U.S. Geological Survey toposheets [surveyed 1932-33-35]. The others were determined by level lines ran by the owners. After Stearns and MacDonald (1944).

Figure 24. PLAN VIEW HC&S WATER-DEVELOPMENT SHAFT 14.
Charley – I appreciate your courtesy review of the attached well & pump permit application packet. Please let me know if you have any questions, suggestions or see any areas of concern. As I mentioned during our phone conversation, we are hoping to get the application in early next week and are hoping to expedite the process to the extent possible.

Again, thank you for your assistance.

Diane P. Bevilacqua, PE  
Project Manager, Development  
A&B Properties, Inc.  
11 Puunene Avenue  
Kahului, HI 96732  
(808) 872-4302  
(808) 871-7497 fax

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draft application packet.pdf
GENERAL SITE PLAN
SCALE: 1 inch = 40 feet

LOT 42
0.70 AC

LOT 41
3.66 AC

LOT 40
3.12 AC

LOT 39
3.21 AC

FUTURE SUBDIVISION
FOR SEPARATE PLANS

PROJECT SITE

IRRIGATION WELL SITE

HO'OKELLE STREET EXTENSION

PULHU ROAD

PULHU ROAD

187'40'59"
31.56'

DWG. NO. C-100
J OF 27
NOTE: PIPE PENETRATION INTO SOUTH TUNNEL, ALL AROUND PIPE, TO BE SAME AS FOR NORTH TUNNEL.

EXIST. CONCRETE STRUCTURE TO FLUSH.

24" D.I. PIPE INSTALLED THROUGH EXIST. WATER PASSAGEWAY CONNECTING SOUTH AND NORTH POOLS.

SCALE: 1/2"=1'-0" C-822

SECTION

4

SCALE: 1/2"=1'-0" C-822

MUNICIPAL BUSINESS PARK PHASE II

C-822

AS ASSUMED LOCATION OF EXISTING NORTH TUNNEL.
STATE OF HAWAI'I
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
APPLICATION FOR A WELL CONSTRUCTION /
PUMP INSTALLATION PERMIT

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawai'i 96809. Application must be accompanied by 10 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 808-677-0225. For further information and updates to this application form, visit http://www.hawaii.gov/dlnr/cwrm.

WELL LOCATION INFORMATION
1. STATE WELL NO. (If already assigned)
   5226-01
2. WELL NAME
   MBPH NON-POTABLE WELL (previously "Punaene Pump S")
3. ISLAND
   MAUI
4. TMI
   zone: 8
   sect: 6
   pt: 004

The following must be attached before this application is accepted as complete:
• Portion of 7.5-Minute Series USGS topographic map (scale 1:24,000) with well location labeled and include the name of the quad map
• Property tax map, showing well location referenced to established property boundaries
• Photograph of the proposed well site
• A schematic diagram showing the well site, access road and proposed well infrastructure

5. WELL OPERATOR'S NAME/COMPANY
   HC&S COMPANY
   Well Operator's Contact
   Garret How

6. LANDOWNER'S NAME/COMPANY
   ALEXANDER & BALDWIN, INC.
   Landowner's Contact
   Diane Baviaqua

Well Operator's Mailing Address
   P. O. Box 266, Puniene, HI 96784

Well Operator's Phone
   808-877-6950
   Well Operator's Fax
   808-877-7708
   Well Operator's E-mail
   ghew@hcssugar.com

Landowner's Mailing Address
   11 Puunene Ave., Kahului, HI 96732

Landowner's Phone
   808-872-4302
   Landowner's Fax
   808-871-7407
   Landowner's E-mail
   dbaviaqua@abprop.com

PROPOSED WELL CONSTRUCTION
7. Proposed Work
   X Construct New Well
   □ Modify Existing Well
   □ Abandon/Seal Well

8. Construction Type
   □ Drilled
   □ Dug
   □ Shaft
   □ Tunnel

9. Is this well part of a battery of wells? □ Yes □ No

10. Other

PROPOSED PUMP INSTALLATION
11. Proposed Pumping Rate, gpm
   (gallons per minute)
   900 gpm total

12. Proposed Amount of Withdrawal, gpd
   (gallons per day)
   1,200,000
   once's 5600 gpm

13. Method of Flow measurement
   □ Flowmeter
   □ Other (explain)

14. Proposed Surveyor name and license number (a surveyor is required for all Well Construction Permits and may be required for some Pump Installation Permits)
   Justin H. Lapp, License #12964

PROPOSED USE
15. Municipal (water systems serving greater than 25 individuals or 15 service connections)

16. Domestic
   Number of units to be served:

17. Industrial (describe)

18. Irrigation (describe crop and no. of acres) landscape irrigation

19. Military (describe)

20. Other (describe) yard water or other non-potable uses

OTHER LEGAL REQUIREMENTS: If required, items 21 and 22 must be obtained before the Commission can legally issue a permit:

21. Conservation District Use Permit (CDUP)
   □ Required, CDUP #
   □ Not Required (attach documentation from O&M)

   □ I have not checked with O&M about whether or not a CDUP is required. I understand that checking with O&M prior to making this application will expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

   □ Well is in Conservation District
   □ I have not checked if well site is in or out of Conservation District. I understand that checking if the well is in a Conservation District may expedite my review. I further understand that issues raised may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

22. Special Management Area Permit (SMAP)
   □ Required, SMA #
   □ Not Required (attach documentation from applicable County agency)

   □ I have not consulted with the county about whether or not an SMA Permit is required. I understand that checking with the County prior to making this application will expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

23. State Historic Preservation Division (SHPD) of the Department of Land and Natural Resources
   □ I have consulted with the HPD regarding potential impacts of well construction activities on historic sites. I have attached applicable documentation from the HPD.
   □ I have not consulted with HPD regarding potential impacts of well construction activities on historic sites. I understand that checking with the HPD prior to making this application may expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued. Additionally, the history of past land use is attached. See attached letter for entire site.

24. Water Use Permit No. (if applicable)
   □ N/A

Additional remarks, explanations, etc. (attach additional sheet if more space is needed)

See attached plans for modifications to existing brackish water skimming well & pump replacements to downsized from 9 mgd to 1 mgd capacity.

NOTE: Signing below indicates that the signatories understand and swear that the information provided is accurate and true to the best of their knowledge.

Further, the signatories understand that upon permit approval: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 60 days after the completion date of the permitted work; 3) in the event that the application is not completed correctly, any permit may be suspended until the item is brought in to compliance, and any work done while the permit is in suspension may result in fines of up to $500.00/day.

25. WELL DRILLER (Must be filled out if application is for Well Construction)
   Name: 
   Address: 509 E. Wailuku Road, Kahului, HI 96753
   Phone: 808-573-8568
   Fax: 808-573-8568
   E-mail: goodfellowbro@comcast.com
   Signature: 
   Date: 

26. PUMP INSTALLER (Must be filled out if application is for Pump Installation)
   Name: 
   Address: 1100 Alakau Street - Suite 2900, Honolulu, HI 96813
   Phone: 808-531-2422
   Fax: 808-531-2422
   Signature: 
   Date: 
   E-mail: dajdaho@wan.com
If it is determined that the tunnel did not collapse, the void space above the tunnel should be properly backfilled. Prior to backfilling, all loose material should be removed from the bottom of the voids. The initial backfill up to about 5 feet below finish grade should be compacted with lighter equipment such as a rammmax roller or jumping jack compactors. In addition, we recommend that shallow foundations be used for support of the canopy structures in the area of the tunnel. As a precautionary measure, a relatively low allowable bearing value should be assumed for design of the canopy foundations. In addition, underground storage tanks should not be located above the tunnel and should be 20 feet away laterally.

LOT 41, WELL NO. 5

**Description** - The well vault opening on Lot 41 is significantly larger and deeper than the vault on Lot 1, and has plan dimensions on the order of 75 by 100 feet, and a depth of about 40 feet below existing grade. The sidewalls of the vault are lined with concrete except for the bottom half of the southeast wall which exposes hard basalt. Based on the photographs provided by your office, an abandoned pump house is located at the bottom of the vault in the southeast. Remnants of what appears to be concrete equipment pedestals are located at the bottom of the vault in the remaining areas. Scattered debris was also observed in the area of the pedestals. An existing “pool” is located at the bottom of the vault in the southeast, adjacent to the abandoned pump house. We understand that the well site also consists of three tunnels. We assume that the tunnels originate at the pool, however, the location and length of the tunnels are unknown. Based on the results of exploratory borings drilled for the project and the photographs provided by your office, it is our opinion that the tunnels extend through medium hard to hard basalt.

**Recommendations** - Due to the large extent of fill placement required to backfill the vault on Lot 41, we recommend that settlement gauges be installed immediately upon completion of backfilling to monitor settlement of the new fill. Construction of buildings in this area should be delayed until settlement readings have stabilized.

Prior to backfilling of the vault, the pump house, pump and mechanical equipment, pipes and appurtenances, and other deleterious material should be removed. Buried pipes that will be left in place and abandoned should be capped and grouted. The concrete floor should be removed or broken up to allow for drainage, and the concrete walls removed to a depth of at least 10 feet below finish grade. As an alternative to breaking up the bottom of the concrete floors, holes may be drilled through the concrete floor to allow for drainage. Breaking up or drilling horizontal holes through concrete walls that will be left in place and abandoned will not be required.

In areas where backfill will extend below groundwater level, the backfill may consists of 6-inch minus surge rock material extending about 12 inches above the highwater level. Geotextile fabric should be
<table>
<thead>
<tr>
<th>FROM: Roy</th>
<th>DATE: MAY 23 2011</th>
<th>SUSPENSE DATE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>TO: CHONG, R.</td>
<td>INIT.</td>
<td>TO: KIMURA, J.</td>
</tr>
<tr>
<td>DANBARA, S.</td>
<td>INIT.</td>
<td>TO: OHYE, L.</td>
</tr>
<tr>
<td>FUJII, N.</td>
<td>INIT.</td>
<td>TO: TAM, W.</td>
</tr>
<tr>
<td>HARDY, R.</td>
<td>INIT.</td>
<td>TO: UYENO, D.</td>
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<td>HOAGBIN, S.</td>
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<td>TO: YODA, K.</td>
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<tr>
<td>IMATA, R.</td>
<td>INIT.</td>
<td></td>
</tr>
</tbody>
</table>

**PLEASE:**
- See Me
- Review & Comment
- Take Action
- Type Draft
- Type Final
- File
- Xerox ___ copies

- make folder if not there already. Started May 10 for sealing(!)
- WER2's or PIPA in near future for reduction in pump capacity.
May 18, 2011

Mr. William M. Tam, Deputy Director
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, HI 96809

Subject: State Well #5226-01 (USGS #19; HC&S Puunene - Pump 5)
Change of Registration and Declaration of Water Use of Irrigation Well

Dear Mr. Tam:

On behalf of Alexander & Baldwin, Inc. and its division, Hawaiian Commercial & Sugar Company (HC&S), we are writing to notify you of our intent to change the well operator, well ownership and type of use of the above noted brackish irrigation well, which was registered with the Commission on Water Resource Management on May 24, 1989.

Well #5226-01 was originally constructed in 1899 for sugarcane irrigation. The well was used and operated by HC&S. At its peak use, the well had a capacity of approximately 9 million gallons per day (mgd). However, since the 1990s, use of the well by HC&S diminished as it was replaced by other lower salt and higher quality well sources that had capacity freed up as a result of HC&S’ investment in recycling systems and reduction of water use in the milling process.

During the entitlement process for Maui Business Park Phase II (MBPII), both the State Land Use Commission and the Maui County Council requested that a dual water system be developed for MBPII to meet non-potable irrigation requirements and to alleviate the draw on Central Maui’s limited potable water resources. The County Water Use & Development Plan recommends use of reclaimed water from the wastewater treatment plants (WWTP) where available; however, the Kahului WWTP does not have the capability to produce the R1 quality water nor is there any infrastructure in place or planned at this time to distribute reclaimed water from that plant. As a result, this well, which is located within the MBPII project, was evaluated for the purpose of providing MBPII with a non-potable source and is now planned to be retrofitted for that purpose.

The new pumps would be much smaller and draw considerably less than the original pumps, with an estimated well capacity of 1.2 mgd. The intended new use of the well will be for landscape irrigation and other yard water or non-potable uses by the business park and,
potentially, the State of Hawaii Department of Transportation, rather than irrigation and industrial use by HC&S plantation, and we will be transferring the ownership to A&B Properties, Inc., a subsidiary of A&B, and eventually to the MBPII Owners’ Association.

Attached is a vicinity map for the well and an aerial photo showing the well location within MBPII, the general area to be served by the irrigation well.

Please let us know if you have any questions or need any additional information. You can reach Diane by phone at (808) 872-4302 or by email at dbevilacqua@abprop.com and Garret by phone at (808) 877-6950 or by email at ghew@hcsugar.com. We appreciate your time and assistance.

Sincerely,

Garret Hew
Manager, Water Resources
Hawaiian Commercial & Sugar Co.

Diane P. Bevilacqua, PE
Project Manager, Maui Development
A&B Properties, Inc.

cc: Charley F. Ice (CWRM)
Ivan Nakatsuka (ATA)
Meredith Ching (A&B - Honolulu)
May 18, 2011

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Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
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Manager, Water Resources
Hawaiian Commercial & Sugar Co.

Diane P. Bevilacqua, PE
Project Manager, Maui Development
A&B Properties, Inc.

cc:  Charley F. Ice (CWRM)  
Ivan Nakatsuka (ATA)
Meredith Ching (A&B - Honolulu)
fyi - Tom Nance called to say A&B is planning on sealing this large historic skimming source (1st power production station in the state) but there is little information available from A&B, but information from Stearns indicates several wells beneath the water level. Since this is also a strong possible historic site, suggested they check with historic preservation as well and submit whatever they can find on the abandonment permit application and we'll go from there. Area is planned for development so they will be backfilling the huge vault in the ground too. If not familiar with the source, sounds like would be good to research what Stearns wrote about it, and if we don't have a file for the source probably good to make one with this information included.
September 8, 2003

Randall C. Moore, Manager
Water & Engineering Services
Hawaiian Commercial and Sugar Company
P.O. Box 266
Puunene, HI 96784

Dear Mr. Moore:

Sealing HC&S Well 5 (Well No. 5226-01)

Thank you for your letter of August 4, 2003, notifying us that you are considering closing and sealing the captioned well, and asking about our requirements, given what is known about the dimensions of the well.

Our geologist-engineer has reviewed the information you sent, and makes these suggestions, which we are recommending to you. We are also sending an application form. When you submit the form, please include your proposal for sealing. We will review it in light of our recommendations.

1. All equipment – motors, pumps, electrical equipment – should be removed.
2. All hazardous materials should be removed.
3. As much piping as possible, certainly any conduits coming to ground level, should be removed.
4. The remaining two unplugged supplemental wells should be sealed with appropriate grout (sand-cement slurry, neat cement, or bentonite cement).
5. The three tunnels should be bulkheaded with at least 2 feet of steel-reinforced concrete.
6. The pit should be filled with clean gravel to the top of the water level, with one foot of sand covering the top.
7. The gravel and sand should be covered with a 2-feet thick concrete slab (reinforcement not necessary).
8. The pit should be topped off with tamped clean native material.

If you have any questions, please call Charley Ice of the Commission staff at 587-0251 or toll-free at 984-2400 extension 70251.

Sincerely,

[Signature]
Peter T. Young
Chairperson
Suggested method of sealing Puunene Shaft 19 (Well 5)

Remove the pump, motor and electrical equipment – cannot leave the motor or transformers in the shaft.

Remove any other hazardous material.

Remove as much pipe/appurtenances as practical – but definitely the discharge pipe(s) or other conduits coming to ground level.

Try to find the two wells and seal them with appropriate grout (sand-cement slurry, neat cement or bentonite cement).

Try to find the three tunnels and bulkhead them with at least 2 feet thick steel reinforced concrete.

Fill the pit with gravel (any clean gravel) to the top of the water level.

Put about 1 foot of sand on top of the gravel.

Put a 2 feet thick concrete slab (steel reinforcing not necessary) on top of the sand.

Fill the pit to the surface with tamped clean native material.

Puunene - Pump 19 - 5227-057
<table>
<thead>
<tr>
<th>FROM:</th>
<th>ERNIE</th>
<th>DATE:</th>
<th>AUG - 6 2003</th>
<th>SUSPENSE DATE:</th>
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<td>MATHIAS, T.</td>
<td>NAKANO, D.</td>
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<td>YODA, K.</td>
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<td>HARDY, R.</td>
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<td></td>
<td>HIGA, D.</td>
<td>INIT.</td>
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</tr>
<tr>
<td></td>
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<td>INIT.</td>
<td></td>
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<td></td>
<td>KUNIMURA, I.</td>
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<td></td>
</tr>
</tbody>
</table>

PLEASE:
- See Me
- Review & Comment
- Take Action
- Type Draft
- Type Final
- File
- Xerox ___ copies

Q: A previous inquiry resulted in recommending bulkheading the gallery and grouting the shaft; would we entertain any variation in solid grouting, such as sealing the bottom in minimum dimensions, packing the shaft or gravel or sand, then sealing the top (at some depth)?

S: I would in to feel with gravel and top with "active" material. My comments are attached, Kevin: good work.
August 4, 2003

Commission on Water Resource Management, DLNR, State of Hawaii

Attn: Mr. Charley Ice
P.O. Box 621
Honolulu, HI 96809

Dear Mr. Ice:

Subject: HC&S Well 5 Closure (State Well # 5226-01)

HC&S is considering closing Well 5 near Puunene. We need information on the forms required and what type of work will be needed to seal this Maui-type well. The top of the well pit is located at about 40 Ft. ground elevation and is an open pit measuring approximately 77 Ft. by 80 Ft. From the Stearns and MacDonald book (1942), it shows that there are three tunnels with a total length of 145 Ft. We do not have any drawings of the tunnel locations.

I am enclosing maps and sketches of the pump pit and other information for your information. We need to make a cost estimate to close the well before we decide whether to abandon or keep the well. From our records, we last operated the well in 1992. When the motor failed in 1993, we did not repair the motor due to the high cost.

Please call me at 808-877-6968 to discuss the requirements for closing the well. You can e-mail me at rmoore@hcsugar.com. Thank you for your assistance.

Sincerely,

Randall C. Moore
Manager, Water & Engineering Services Department

Enclosure: maps and sketches
### APPENDIX C

Table 5. RECORDS OF SHAFTS IN CENTRAL MAUI

(For details of tunneling and well depths, see page 210, Wier and McDonald, 1942.)

<table>
<thead>
<tr>
<th>Old shaft No.</th>
<th>New shaft No.</th>
<th>Owner</th>
<th>Location</th>
<th>Date installed</th>
<th>Date abandoned</th>
<th>Pressure pipe no.</th>
<th>Altitude of shaft bottom (ft)</th>
<th>Measurement pipe (in.)</th>
<th>Average draft (gpm)</th>
<th>Average draft (gpm)</th>
<th>Chief supplier(s)</th>
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</thead>
<tbody>
<tr>
<td>16</td>
<td>5521-01</td>
<td>Maui Pineapple Co.</td>
<td>Makawao</td>
<td>1931</td>
<td>1940</td>
<td>4</td>
<td>105.4</td>
<td>11.6</td>
<td>2.9</td>
<td>2.9</td>
<td>1.0</td>
</tr>
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<td>5520-01</td>
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<td>Makawao</td>
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<td>1940</td>
<td>4</td>
<td>105.4</td>
<td>11.6</td>
<td>2.9</td>
<td>2.9</td>
<td>1.0</td>
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<td>18</td>
<td>5519-01</td>
<td>Maui Pineapple Co.</td>
<td>Makawao</td>
<td>1931</td>
<td>1940</td>
<td>4</td>
<td>105.4</td>
<td>11.6</td>
<td>2.9</td>
<td>2.9</td>
<td>1.0</td>
</tr>
</tbody>
</table>

* Altitude of shaft bottom was determined from U.S. Geological Survey topographic maps (surveyed 1922-23). The others were determined by level lines run by the owners. After Wier and McDonald (1942).

* Measured draft for 3 & 5 in. pumps only.

* For abandoned shafts, average draft at time of maximum use.

* From Wier and McDonald (1942).

* Formerly U.S. Navy.

Figure 24. PLAN VIEW HC&S WATER-DEVELOPMENT SHAFT 14.
### Records of Maui-type wells

(Data furnished by R. E. Hughes, C. A. Brown, H. J. Eby, and R. Bradley, engineers in charge of pumps for the several plantations)

<table>
<thead>
<tr>
<th>U.S.G.S. number</th>
<th>Plantation number</th>
<th>U.S.G.S. number</th>
<th>Plantation number</th>
<th>U.S.G.S. number</th>
<th>Plantation number</th>
<th>U.S.G.S. number</th>
<th>Plantation number</th>
<th>U.S.G.S. number</th>
<th>Plantation number</th>
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<tr>
<td>1</td>
<td>Alaoa</td>
<td>B.P.</td>
<td>1924</td>
<td>244</td>
<td>245</td>
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<tr>
<td>2</td>
<td>Honokowai</td>
<td>P.M. Co.</td>
<td>1924</td>
<td>45</td>
<td>63</td>
<td>0</td>
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<td>3</td>
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<td>1927</td>
<td>27</td>
<td>23</td>
<td>2</td>
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<td>8</td>
<td>Lahaina</td>
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<td>do.</td>
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<td>30</td>
<td>31</td>
<td>1</td>
<td>1,096</td>
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<td>9</td>
<td>Olowalu</td>
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<td>75</td>
<td>1</td>
<td>75</td>
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<tr>
<td>12</td>
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<td>do.</td>
<td>1906</td>
<td>303</td>
<td>323</td>
<td>2</td>
<td>350</td>
<td>5</td>
<td>50</td>
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<td>1897</td>
<td>34</td>
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<td>19</td>
<td>Lahaina</td>
<td>(Wainee)</td>
<td>do.</td>
<td>1897</td>
<td>30</td>
<td>31</td>
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<td>20</td>
<td>Lahaina</td>
<td>(Wainee)</td>
<td>do.</td>
<td>1897</td>
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<td>31</td>
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<td>1,096</td>
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### Notes

- New Maultype well with a 0 x 9 foot vertical shaft was under construction by the U.S. Navy in January 1941, at about 50 feet altitude at the Kihei Airport. Two tunnels, each 45 feet long, were drilled at an angle of 45 degrees with the surface, in which each could hold a lava tube full of water. At the bottom of the shaft, a deep well was drilled, with a capacity of 1,000 gallons per minute.
- The Kula-Hele Plantation Co. installed a new 603 x 9-foot vertical shaft at the bottom of the present pipe line to the upper reservoir. The new shaft was 300 feet long, and the inclined shaft. No. 12 replaces the former K7 plant.
- Four tunnels, 750 and 900 feet long, were installed. The Kula-Hele Plantation Co. is also installing a new 750-foot tunnel to connect wells 1 and 2.
- The Kahului Plantation Co. has drilled a new tunnel 750 feet long, and the Honomanu Plantation Co. has drill a new tunnel 750 feet long. The Kula-Hele Plantation Co. is also installing a new 750-foot tunnel to connect wells 1 and 2.
- The Kihei Plantation Co. had McCandless Brothers drill 2 or 3 wells on the north west side of reservoir No. 12, which was plugged and abandoned. The company failed before the pumping station was built.
- The Kula-Hele Plantation Co. is also installing a new 750-foot tunnel to connect wells 1 and 2.
- The Honomanu Plantation Co. has drill a new tunnel 750 feet long, and the Kula-Hele Plantation Co. is also installing a new 750-foot tunnel to connect wells 1 and 2.