CHECKLIST

Well Construction Permit

Pump Installation Permit

Water Use Permit Required Also

Well Name & Number: Keopu-Haseko Well (3957-01) Island: Hawaii

Applicant: Haseko (Hawaii) Inc. Landowner: Keauhou Estates Associates

Consultant:

Date application received: 6/16/93

✓ Date acknowledged receipt/request more info: 6/23/93

✓ Date filing fee deposited: 

✓ Application sent to following:

Dept. of Health
Safe Drinking Water Branch - 7/13

Wastewater Branch
Office of Hawaiian Affairs
Dept. of Hawaiian Home Lands
State Historic Preservation Div.
Sierra Club Legal Defense Fund
Honolulu Board of Water Supply
Kauai Dept. of Water Supply
Hawaii Dept. of Water Supply
Hawaii Dept. of Public Works
Koolaulea MB #28 (Gahu)
Additional List (Molokai)
Eric Hirano/ Lyann Mizuno

Date sent Comments received

Date agenda due: 8/4/93

Date submittal due: 8/4/93

Date submittal sent to applicant: 

Date application approved OR disapproved: 8/18/93

Date applicant notified of decision: 

Remarks: 

_________________________________________________________
CHECKLIST

WELL CONSTRUCTION PERMIT

WELL NAME or LOCATION: Keopu Mauka
WELL NUMBER: 3957-01
Tax Map Key: 7-5-01

OWNER/OPERATOR:
Firm Name: Haseko Hawaii
Contact Person: Kirk Whittle
Address: 820 Miliani St. #820
Hawaii, HI 96813
Phone: 532-1300

LANDOWNER:
Firm Name: Keopu Mauka land Plantation
Contact Person: Suzanne Farrow
Address: P.O. Box 3580
Kailua-Kona, HI 96745
Phone: 326-1171

Date application received: 9-24-90
Date acknowledged receipt/request more info: 10-2-90
Date application accepted: 
Suspense date (90 days): 
Date filing fee deposited: 
Application sent to following:

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

Date application approved or disapproved: 12-5-90
Date applicant notified of decision: 

REMARKS: 

_________________________________________________________________________
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ISLAND OF HAWAII
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| WELL NUMBER | 3957-01 | WELL NAME | Keopu-Puuhonua |

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March 4, 2008

Mr. Bill Godwin
Beylik Drilling and Pump Service
91-259A Olai Street
Kapolei, HI 96707

Dear Mr. Godwin:

Pump Installation Permit
Keopu-Puuhonua Well (Well No. 3957-01)

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 11:

**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.

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 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 Ryan Imata of the Commission staff at 587-0255.

Sincerely,

[Signature]

LAURA H. THEILEN
Chairperson

Enclosure

c: Hawaii DWS (with applicable comments – DOH SDWB, WWB, CWB)

Tom Nance
USGS
PUMP INSTALLATION PERMIT
Keopu-Puuhonua Well, Well No. 3957-01

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 Keopu-Puuhonua Well (Well No. 3957-01) at TMK 7-5-001:115, 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.

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 650 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 60 days after completion of work. This form can be obtained by contacting staff or on the internet at www.hawaii.gov/dlnr/cwrm.

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 any related staff submittal approved by the Commission are incorporated into this permit by reference. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

10. 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.

11. 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.

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

Date of Approval: February 14, 2008
Expiration Date: February 14, 2010

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-21896 Date: ____________________________

Printed Name: Bill Godwin Firm or Title: Beylik Drilling and Pump Service

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

Attachments
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HAWAII 96806

January 14, 2008

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Director’s Office
Marshall Lam, Acting Wastewater Branch
Stuart Yamada, Safe Drinking Water Branch
Alec Wong, Clean Water Branch

FROM: Laura H. Thilen, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/After-the-Fact Pump Installation Permit Application
Keopu Puaonuma Well (Well No. 3557-01)

Transmitted for your review and comment is a copy of the captioned 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 February 14, 2008. 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 Ryan Imata of the Commission staff at 587-0255.

R: ss
Attachment(s)

RESPONSE:

This well qualifies as a source which will serve as a source of possible water in a public water system (defined as serving 25 people at least 60 days per year or has 15 service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rule (HAR) 011-2009.

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 owner, operator, or owner of the property must receive the necessary permits and routinely monitor the water quality accordingly. 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 possible and non-possible purposes in a single system, the user shall eliminate cross-contaminations and backflow connections by physically separating possible and non-possible systems by an air gap or an approved backflow preventer, and by clearly labeling all non-possible systems with warning signs to prevent inadvertent consumption of non-possible 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 located near the proposed well site (information attached).

An NPDES permit is required.

Other relevant DH environmental 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 Miyake  Phone: __________________________
Signed: __________________________  Date: ___________
CWRM Application Source: Keopu Puuhonua Well  
(Well No. 3957-01)

Safe Drinking Water Branch Engineering Section

This well qualifies as a source that will serve the County of Hawaii, Department of Water Supply’s existing North Kona water system (PWS #131), a regulated public water system. All public water system owners and operators are required to comply with Hawaii Administrative Rules, Title 11, Chapter 20, Rules Relating to Potable Water Systems.

Projects that propose development of new sources of potable water serving or proposed to serve a public water system must comply with the terms of HAR 11-20-29, Use of New Sources of Raw Water for Public Water Systems. This section requires that all new public water system sources be approved by the Director of Health prior to its use. Such approval is based primarily upon the submission of a satisfactory engineering report, which addresses the requirements set in Section 11-20-29.

The engineering report must identify all potential sources of contamination and evaluate alternative control measures, which could be implemented to reduce or eliminate the potential for contamination, including treatment of the water source. In addition, water quality analyses for all regulated contaminants, performed by a laboratory certified by the State Laboratories Division of the state of Hawaii, must be submitted as part of the report to demonstrate compliance with all drinking water standards. Additional parameters may be required by the Director for this submittal or additional tests required upon his or her review of the information submitted.

All public water system sources must undergo a source water assessment, which will delineate a source water protection area. This process is preliminary to the creation of a source water protection plan for that source and activities which will take place to protect the drinking water source.

All projects which propose the use of dual water systems or the use of a non-potable water system in proximity to an existing potable water system to meet irrigation or other
needs must be carefully design and operate these systems to prevent the cross-connection of these systems and prevent the possibility of backflow of water from the non-potable system to the potable system. The two systems must be clearly labeled and physically separated by air gaps or reduced pressure principle backflow prevention devices to avoid contaminating the potable water supply. In addition backflow devices must be tested periodically to assure their proper operation. Further, all non-potable spigots and irrigated areas should be clearly labeled with warning signs to prevent the inadvertent consumption on non-potable water. Compliance with Hawaii Administrative Rules, Title 11, Chapter 11-21 titled; Cross-Connection and Backflow Control is also required.

All projects which propose the establishment of a potentially contaminating activity (as identified in the Hawai‘i Source Water Assessment Plan) within the source water protection area of an existing source of water for a public water supply should address this potential and activities that will be implemented to prevent or reduce the potential for contamination of the drinking water source.

For further information concerning the application of new source approval, source water assessment, backflow/cross-connection prevention or other regulated public water system programs, please contact the Safe Drinking Water Branch Engineering Section at 586-4258.
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 625
HONOLULU, HAWAII 96806

January 14, 2008

RETURNED TO US

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Director's Office
Marshall Lum, Acting Wastewater Branch
Stuart Yamada, Safe Drinking Water Branch
Alex Wong, Clean Water Branch

FROM: Laura H. Thielen, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/After-the-Fact Pump Installation Permit Application
Keopu Puhonua Well (Well No. 3957-01)

Transmitted for your review and comment is a copy of the captioned 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 February 14, 2008. 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 Ryan Imata of the Commission staff at 587-0255.

R/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 or at least 60 days per year or has 15 or more service connections) and must receive Director or Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-30-39.

[ ] 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 there is increased use times that source increases to meet the public water system definition then Director of Health approval is required prior to use/development.

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

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

[ ] For the applicant's information, a source of possible wastewater contamination [1] is 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: [Signature]
Phone: 564-3803

Signed: [Signature]
Date: 1.22.08

DA157
The Department of Health, Clean Water Branch (CWB) has the following comments:

1. For Well-Drilling Activities

Any discharge to State waters of treated process wastewater effluent associated with well drilling activities is regulated by Hawaii Administrative Rules, Title 11, Chapter 55, Appendix I, effective October 22, 2007. Treated process wastewater effluent covered by this general permit includes well drilling slurries, lubricating fluids wastewater, and well purge wastewater. This general permit does not cover well pump testing. The applicable Notice of Intent (NOI) Forms and filing fee shall be submitted at least thirty (30) calendar days before the start of discharge to the:

Department of Health
Clean Water Branch
919 Ala Moana Boulevard, Room 301
Honolulu, Hawaii 96814-4920

The CWB-NOI Forms are available online at http://www.hawaii.gov/health/environmental/water/cleanwater/forms/genl-index.html. Inquiries may be directed to the CWB at (808) 586-4309 or by fax (808) 586-4352.

2. For Well Pump Testing

The discharger shall take all measures necessary to prevent the discharge of pollutants from entering State waters. Such measures shall include, if necessary, containment of initial discharge until the discharge is essentially free of pollutants. If the discharge is entering a stream or river bed, best management practices shall be implemented to prevent the discharge from disturbing the clarity of the receiving water. If the discharge is entering a storm drain, the discharger must obtain written permission from the owner of the storm drain prior to discharge. Furthermore, best management practices shall be implemented to prevent the discharge from collecting sediments and other pollutants prior to entering the storm drain.
January 14, 2008

TO: Honorable Chiyome L. Fukino, M.D., Director
   Director's Office
   Marshall Lum, Acting Wastewater Branch
   Stuart Yamada, Safe Drinking Water Branch
   Alec Wong, Clean Water Branch

FROM: Laura H. Thielen, Chairperson
   Commission on Water Resource Management

SUBJECT: Well Construction/After-the-Fact Pump Installation Permit Application
   Keopu Puuhonua Well (Well No. 3957-01)

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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 February 14, 2008. 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 Ryan Imata of the Commission staff at 587-0255.

RI: 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 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.

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[ ] 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 No Records

Contact Person:    Phone: 322-1963
Signed:   Date: 01-18-2008
**COMMISSION ON WATER RESOURCE MANAGEMENT**

**ROUTE SLIP FOR NEW APPLICATIONS**

**FROM:** Ryan

**DATE:** 29-Jun-07

**SUSPENSE DATE:** 6-Jul-07

**TO:**

| CHING, F. | NAKAMA, L. | 1 Approval |
| FUJI, N. | NAKANO, D. | 1 Signature |
| GOODING, K. | OHYE, M. | 3 Information |
| HARDY, R. | SAKODA, E. | |
| HIGA, D. | SWANSON, S. | |
| HOAGBIN, S. | UYENO, D. | |
| ICE, C. | YODA, K. | |
| IMATA, R. | YOSHINAGA, M. | |
| KUNIMURA, I. | | |

**PLEASE:**

- See Me
- Review & Comment
- Take Action
- Type Draft acknowledgment
- Type Final, label file folder, update People.db
- File
- Xerox ___ copies

**WELL NUMBER:** 2557-01

**WELL NAME:** Keopu-Puuhonua

- [ ] WELL CONSTRUCTION
- [ ] PUMP INSTALLATION
- [ ] BOTH

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

1. TRANS. LETTER
2. PERMIT PROCESS TABLE
3. CWRM MAP
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. DHPC/CDUP/SMA pre-screen

**FOLDER:**

- [ ] MADE NEW FILE FOLDER, ATTACHED
- [ ] FILE FOLDER ALREADY MADE, IN FILE CABINET

**INCOMPLETE ACTION DATES:**

**DATE**

**ACTION**

- need to check well number and owner's location

1/15/07 accept -
Mr. Bill Godwin  
Beylik Drilling and Pump Service  
91-259A Olai Street  
Kapolei, HI 96707  

Dear Mr. Godwin:

Pump Installation Permit Application for Well No. 3957-01

We acknowledge receipt, on January 8, 2008, of your completed Pump Installation permit application and filing fee for the Keopu Puuhonua Well (Well No. 3957-01). You can expect your application to be processed within ninety (90) days from this date.

For your information, 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 water may not be pumped for purposes other than testing until the certificate of well construction/pump installation completion letter is issued to the well operator and landowner. Additionally, 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. No certificate of pump installation will be issued until the Commission has determined that the pump capacity will not have adverse effects on the aquifer, other nearby wells, or streams. In other words, you may need to remove the pump and install a smaller pump at the Commission’s discretion before you can withdraw water for purposes other than testing.

If you have any questions about your permit application, please contact Ryan Imata of the Commission staff at 587-0255.

Sincerely,

KEN C. KAWAHARA, P.E.  
Deputy Director

RI:ss  
Attachment  

c: Hawaii Department of Water Supply
TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Director's Office
Marshall Lum, Acting Wastewater Branch
Stuart Yamada, Safe Drinking Water Branch
Alec Wong, Clean Water Branch

FROM: Laura H. Thielen, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/After-the-Fact Pump Installation Permit Application
Keopu Puuhonua Well (Well No. 3957-01)

Transmitted for your review and comment is a copy of the captioned 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 February 14, 2008. 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 Ryan Imata of the Commission staff at 587-0255.

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 II, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

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

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

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

For the applicant's information, a source of possible wastewater contamination [ ] is not located near the proposed well site (information attached). 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: __________________
January 14, 2008

TO: Morris Atta, Acting Administrator  
   Land Division  

FROM: Ken C. Kawahara, P.E., Deputy Director  
       Commission on Water Resource Management  

SUBJECT: Well Construction/After-the-Fact Pump Installation Permit Application  
         Kukuihaele Well (Well No. 6734-03) TMK 4-8-008:026  

Transmitted for your review and comment is a copy of the captioned 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 February 14, 2008. 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 Ryan Imata of the Commission staff at 587-0255.

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: ____________________________
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REMARKS: LINE (1) Well No. 3957-01
LINE (2) 
LINE (3) 
LINE (4) 
LINE (5) 
LINE (6) 
LINE (7) 
LINE (8) 
LINE (9) 
LINE (10)
Mr. Ken C. Kawahara  
Deputy Director  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  
P. O. Box 621  
Honolulu, Hawaii 96809  

Dear Mr. Kawahara:  

Pump Installation Permit Application for  
Keopu-Puuhonua Well (State Well No. 3957-01)  
in North Kona, Hawaii  

Attached are a Pump Installation Permit application, required attachments, and $25 filing fee for Keopu-Puuhonua Well (State Well No. 3957-01) in North Kona, Hawaii. Beylik Drilling & Pump Service, Inc. will be installing a 650 GPM pump. If you need additional information, feel free to call me or Keith Okamoto at the County of Hawaii Department of Water Supply (808-961-8070). Thank you for your attention to this matter.

Sincerely,  

Tom Nance  

cc: Keith Okamoto - DWS  
Dwight Ho - Beylik  

Attachments
WELL LOCATION INFORMATION
1. STATE WELL NO. (if already assigned) 3967-01
2. WELL NAME Keopu-Puohonua Well
3. ISLAND Hawaii
4. TMK

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 quadrant
- 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
- For dug wells, attach a grading plan with cross section profiles showing existing and finish grades

8. WEL OPERATOR'S NAME/COMPANY
Department of Water Supply
County of Hawaii
Well Operator's Mailing Address
345 Kekuanaoa Street - Suite 20
Hilo, Hawaii 96720
Well Operator's Phone 808-961-8070
Well Operator's Fax 808-961-8080
Well Operator's E-mail kokamoto@hawaiiwds.org
Landowner's Contact Keith Okamoto
Landowner's Mailing Address 345 Kekuanaoa Street - Suite 20
Hilo, Hawaii 96720
Landowner's Phone 808-961-8070
Landowner's Fax 808-961-8080
Landowner's E-mail kokamoto@hawaiiwds.org

PROPOSED WELL CONSTRUCTION
7. Proposed Work
- Construct New Well
- Modify Existing Well
- Abandon/Seal Well
- Drilled
- Dug
- Shaft
- Tunnel
8. Construction Type

PROPOSED PUMP INSTALLATION
9. Proposed Work
- Install New Pump
- Replace Pump
10. Proposed Pumps
- Proposed Pumping Rate, gpm (gallons per minute)
- 650

11. Proposed Amount of Withdrawal, gpd (gallons per day)
- 936,000

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

13. 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)
- Well is in Conservation District
- Required, CDUP #
- Not Required (attach documentation from OCCL)
- I have not checked with OCCL about whether or not a CDUP is required. I understand that checking with OCCL 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 not in Conservation District
- I have not checked if well 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 checked 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 HPD regarding potential impacts of well construction activities on historic sites. I have attached applicable documentation from the HPD.
- I have not consulted with the 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.

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

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 to compliance, and any work done while the permit is in suspension may result in fines of up to $5000/day.

WCP Application Form 02/26/2007
**PROPOSED WELL SECTION** (Please attach schematic if different from diagram provided below)

- **Nominal Diameter:** 20 in.
- **Ground Elevation:** 1674 ft., msl*
- **Minimum of 2' Radius & 4' Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)**
- **Elevation at top of casing:** 1676 ft., msl*

**Cement Grout:** 1637 ft. (min. 70% of distance from ground elevation to top of water surface or 500 ft. whichever is less.)

**Casing:**
- **Length:** 1706 ft.
- **Material:**
  - 1.5" for positive displacement
  - 3" in.
  - Crushed Basalt
  - Rounded Gravel

**Estimated Water Level Elevation:** 47 ft., msl*

**Grouting method:**
- [ ] Positive displacement
- [ ] Other

**Annular space between hole and casing (1.5" for positive displacement, 3" for other methods):** 3 in.

**Rock or Gravel Packing:** 63 ft.,
- **Material:**
  - Crushed Basalt
  - Rounded Gravel

**Open Hole:**
- **Length:** 6 ft.
- **Diameter:** 20 in.
- **Bottom Elevation:** -32 ft., msl*

**Solid Casing:**
- (≥ 90% x (Ground Elev.-Water Level Elev))
  - **Total Length:** 1650 ft.
  - **Nominal Diameter:** 14 in.
  - **Wall Thickness:** 0.375 in.
  - **Bottom Elevation:** -24 ft., msl*

- Open Casing:
  - **Total Length:** 50 ft.
  - **Nominal Diameter:** 14 in.
  - **Wall Thickness:** 0.312 in.
  - **Bottom Elevation:** -26 ft., msl*

- **Solid Casing:**
  - **note:** Neither bentonite nor mud should be used in saturated zone during drilling

- **Open Casing:**
  - **note:** Neither bentonite nor mud should be used in saturated zone during drilling

- **Solid Casing:**
  - [ ] Perforated
  - [ ] Screen

**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 D3296
- [ ] 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)
  - [ ] 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 D3296
- [ ] Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
- [ ] PTFE Fluorocarbon Tubing conforming to ASTM D3296
- [ ] FEP Fluorocarbon Tubing conforming to ASTM D3296

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

For non-salt water Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or:

Bottom Elevation of Well Limit = (Water Elevation - 4 ft. x Water Level Elev.) / 4

Example: Estimated + 2 ft. Water Level Elev.  Bottom Elevation of Well Limit = (2 - (4 x 2)) / 4 = -18.5 ft.

**Solid Casing Material:**
- Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
- And compliant with (check one or more): □ ASTM A242 (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
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  - □ 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) □ 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
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  - □ FEP Fluorocarbon Tubing conforming to ASTM D3296

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**Open Hole:**
- **Length:** 6 ft.
- **Diameter:** 20 in.
- **Bottom Elevation:** -32 ft., msl*
KEOPU-PUUHONUA WELL
(STATE WELL NO. 3957-01)
February 20, 2007

Mr. Perry J. White  
Planning Solutions, Inc.  
Ward Plaza, Suite 330  
210 Ward Avenue  
Honolulu, HI 96814-4012

Dear Mr. White:

SUBJECT: Keōpū-Pu‘uhonua Production Well and Reservoir  
Draft Environmental Assessment/Anticipated  
Findings of No Significant Impact  
TMK: 7-5-1:115 and 44, North Kona, Island of Hawai‘i

Thank you for the opportunity to review the Draft Environmental Assessment/Anticipated Findings of No Significant Impact for the proposed Keōpū-Pu‘uhonua Production Well and Reservoir.

The relevant land use plans and policies have been adequately addressed in the Draft EA document. However, on Page 4-4 relating to 4.2.4 Coastal Zone Management, please include a paragraph that the project area is not located within the Special Management Area of the County of Hawai‘i.

Should you have any questions, please feel free to contact Alice Kawaha of this department at 961-8288, Ext. 203.

Sincerely,

CHRISTOPHER J. YUEN  
Planning Director

AK:cd  
p:wpwin60/alice/win/LWhite DEAKopu-PuuhonuaWell

xc: Mr. Milton D. Pavao, Manager, Department of Water Supply

Hawai‘i County is an Equal Opportunity Provider and Employer.
May 4, 2007

Dr. Alan Haun, Ph.D.
Haun and Associates
HCR 1 Box 4750
Kekaha, Kauai 96749

Dear Dr. Haun:

SUBJECT: Chapter 6E-42 Historic Preservation Review – [County/DWS]
Request for a Determination of No Effect for the DWS Keou-Puuhonua Well
and Reservoir Project
Keou and Honaulua Ahupuaa, North Kona District, Island of Hawaii
TMK(3) 7-5-011:115, 044

Thank you for the opportunity to provide comments on the above County of Hawaii Department of Water Supply request for the subject well and reservoir project.

We concur that no historic properties will be affected by this undertaking because:

- Intensive cultivation has altered the land
- Residential development/urbanization has altered the land
- Previous grubbing/grading has altered the land
- An accepted archaeological inventory survey (AIS) found no historic properties
- SHPD previously reviewed this project and mitigation has been completed

Other: The archaeological inventory survey of the above parcels included the well and reservoir site, conducted by Haun and Associates in 2002 has been approved by this office (LOG NO. 30381/DOC NO: 0207RC30). Four sites were identified and consisted of ranch walls, a mound, and the southern edge of a large agricultural complex. SIHP 22978 (the agricultural complex) has been slated for a combination of data recovery and preservation. Portions of SIHP 22978 have been subject to data recovery in 2003 under an approved data recovery plan (LOG NO: 2003.0434/ DOC NO: 0306MK02) and the report documenting the results has been reviewed and accepted (LOG NO: 2005.1285/ DOC NO: 0506MK11). Additional data recovery was conducted in consultation with SIHPD (DOC NO: 0504MK49) along the seaward edge of the complex, on land that will be conveyed to the County for wildlife and access road. The additional data recovery was extended and accepted by this office (LOG NO: 2006.2996/ DOC NO: 0607MH49). A buffer zone is in place protecting the southern side of this site. The western boundary of SIHP 22978 follows the edge of a waterline and access road. We believe that no historic properties will be affected by the proposed undertaking.
In the event that historic resources, including but not limited to artifacts, lava tubes, blisters or caves, or human skeletal remains, are identified during routine construction activities, all work needs to cease in the immediate vicinity of the find, the find needs to be protected from additional disturbance, and the State Historic Preservation Division, needs to be contacted immediately at (808) 243-5169.

Aloha,

(Melanie Chinen, Administrator)
State Historic Preservation Division

MAY-08-2007

Dr. Alan Haun
Page 2

c: Chris Yuen, Planning Director, County of Hawaii FAX 961-8742 (Hilo) and 327-3563 (Kona)
Milton Pavao, Dept. of Water Supply, FAX 961-8657
Bruce McClure, Dept. of Public Works, FAX 961-8321
December 11, 2000

MEMORANDUM FOR THE RECORD

FROM: Dan Lum

SUBJECT: Installation of Handar Data Logging System in Keopu (Haseko) Well 3957-01, North Kona

On Thursday, November 30, 2000, with the assistance of Dean Uyeno and Mitch Ohye (CWRM) and Nelson Doria (DWS), a Handar 555-C1 data logging unit with a 15 psi pressure transducer (100 ft. vented cable) was installed in the Keopu (Haseko) Well to measure water levels, especially for the upcoming 3 mgd pumping test on the Keopu-State exploratory well in January 2001.

The well head was modified by Kelsey and Nelson, DWS, with a hinged lockable casing cover plate and a 1½" galvanized stand pipe to mount the data logger and solar panel (see attached two photos). Pertinent setup data include:

1. Elevation of concrete slab next to casing: 1,675.92 ft.
2. Elevation of top of casing lip: 1,676.47 ft.
3. Depth to water (approx. 10:30 am): 1,631.41 ft.
4. Head (1,676.47-1,631.41): 45.06 ft.
5. Handar offset: +26.07 ft., water level reading = 45.06 ft.

Installation was completed at 11:10 am and the Handar unit set to "run" mode.

The protocol of the Handar unit was programmed as follows:

- Log water level at 15 minute intervals
- Log average hourly water level, based on four 15 min. readings
- Log average daily water level, based on ninety-six 15 min. readings

Attach.
c: Milton Pavao, Attn Glenn Ahuna
    Richard Ono
    Glenn Bauer
    Eric Yuasa
Mr. Milton D. Pavao, Manager
Department of Water Supply
County of Hawaii
25 Aupuni Street
Hilo, Hawaii 96720

Dear Mr. Pavao:

Installation of Handar Data Platform at the
U. S. Geological Survey Well in Kona

The Commission on Water Resource Management very much appreciates your help and
the help of your staff in Kona, specifically, Mssrs. Richard Ono and Kelsy Onaka.

The Department of Water Supply’s effort to prepare the U.S. Geological Survey’s test
well (Well No. 3957-01) near Keopu for the deployment of our Handar data collection platform
allowed for smooth installation. The workmanship and materials are excellent and will protect
the Handar unit.

The Commission staff will download the water level data on a quarterly basis and will
provide your department with all water level information.

Again, we thank you for your interest in this endeavor and it successful outcome. If you
have any questions, please contact Glenn Bauer at 587-0263.

Sincerely,

EDWIN T. SAKODA
Acting Deputy Director

GB:ss

c: Mr. Richard Ono
Hawaii Department of Water Supply, Kona Baseyard
Mr. Alan Suwa  
HASEKO  
820 Mililani St., Ste 820  
Honolulu, HI  96813  

Dear Mr. Suwa:

Extension of Pump Installation Permit Well No. 3957-01

We acknowledge receipt of your pump installation permit extension request for the above well on July 24, 1996.

We have reviewed the request and offer the following comments:

1. The previous 1-year extension action on this permit required a 3-month notification prior to the expiration date which is September 13, 1996. Therefore, this provision of the permit has not been met.

2. We understand that there are no further developments by way of equipment purchases, site preparation, plan preparation, or rezoning changes since the last extension of this permit.

If you believe that you have sufficient reasons to extend your permit, then you do have the opportunity to be heard before the Commission. However, at this time, we would recommend denial of the extension and that you reapply for the pump installation permit when further developments under 2. occur.

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

Sincerely,

RAE M. LOUI  
Deputy Director

RH:ss
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date: 7/25/96
July 23, 1996

Ms. Rae M. Loui  
Deputy Director  
Commission on Water Resource Management  
P.O. Box 621  
Honolulu, Hawaii 96809

Subject:  Extension of Pump Installation Permit  
Keopu-Haseko Well, Well No. 3957-01  
Keopu, North Kona, Hawaii

Dear Ms. Loui:

We are requesting additional time to the one year extension previously approved for the subject permit on September 13, 1995 and issued on October 4, 1995.

We remain at the midpoint in the development of the well as a usable and dedicated source of water to the County of Hawaii. Subdivision approval from the County for the well site and all access easements from private land owners have been secured. Only the pump installation facilities remain to be completed for dedication.

Due to the depressed real estate market, we have revised our development options and timing for our proposed 500 unit subdivision project which the Keopu well will serve. We are now proceeding with smaller increments for construction while seeking to maintain the same total of residential units for long term build out. Our revised development schedule was submitted to the State Land Use Commission on April 9, 1996 to apprise them of our progress and is attached for your information.

We are submitting for subdivision application to the County in August for a portion of the initial increment of development. Based upon sales of these lots and as market conditions warrant, we will then proceed with building well and storage facilities. We are hopeful that pump facilities can be designed and installed within the next two years.
Your favorable consideration on this request would be greatly appreciated. If you have any questions, please contact me at 536-3771.

Very truly yours;

Alan Suwa
Project Manager

Attachment: SLUC Letter dated 4/9/96
April 9, 1996

VIA FAX (808) 587-3827 AND MAIL

Ms. Esther Ueda
Executive Officer
Land Use Commission
P. O. Box 2359
Honolulu, HI 96804


Dear Ms. Ueda:

This is in response to your request of March 22, 1996 for clarification regarding the present time frame for completion of Haseko (Hawaii), Inc.'s Pu’u honua project, situated in North Kona, Hawaii, which was involved in the above-referenced LUC docket.

As stated in its annual report of March 15, 1996 to the LUC, Haseko is presently re-evaluating its options as to how to proceed with the project due to the depressed state of the real estate market. With this consideration in mind, Haseko has projected a timetable for the submission of subdivision plans to the County of Hawaii and the receipt of all government permits and approvals prior to actual construction of this project which extends until August, 1997. A copy of this timetable or schedule is attached to this letter as Exhibit “A”.

The remaining permitting for this project is contingent upon Haseko developing a plan for its project which would reduce infrastructure costs and achieve more efficiency in phasing of the construction. Thus, Haseko may develop this project as a planned unit development or as an experimental housing project. Also, Haseko may seek amendments to the existing affordable housing conditions imposed by the LUC in the subject docket and by the County of Hawaii in its change of zone ordinance to make the Pu’u honua project workable. Haseko is presently working on modified plans for this project and will furnish the LUC with copies of those plans once they have been completed.
Under the permitting time-frame which extends until 1997, Haseko’s proposed residential development or build-out schedule is estimated to commence in 1997 and extend until 2005. A copy of this schedule is attached to this letter as Exhibit “B”. As indicated by this schedule, full build-out would extend over a ten-year period, with an estimated absorption rate of approximately 30 units per year based on the current market trends in the North Kona area.

If the LUC has any additional questions regarding the timetable for the Pu’uhonua project, please feel free to contact me. The LUC may also wish to contact Mr. Alan Suwa, the project manager for Haseko at 599-1444.

Very truly yours,

SANDRA PECHTER SCHUTTE

Enclosures

cc: Haseko (Hawaii), Inc.
## Project Management Schedule

### 1996

| TASK | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Review Existing Plan with State County HELCO, etc. Consultants | | | | | | | | | | | | | | | | | | | | |
| Prepare New Plan Prepare Proforma | | | | | | | | | | | | | | | | | | | | |
| Submit County Approvals PUD, or 201E | | | | | | | | | | | | | | | | | | | | |
| Negotiations LUC County Council County Housing Agency County Planning Dept. Police Park Fire Solid Waste Public Works | | | | | | | | | | | | | | | | | | | | |
| State DOT DOE DLNR Archeo Historic Botanical Plan Air Quality NELH - shoreline | | | | | | | | | | | | | | | | | | | | |
| Community Relations Subdivision Plan Preparation Submit & Approvals | | | | | | | | | | | | | | | | | | | | |
| Affordable Housing Tax Credit Project Home Funds, CD8G, RHTF NHA, HUD 202 & 611 | | | | | | | | | | | | | | | | | | | | |
### PUU'HONUA RESIDENTIAL DEVELOPMENT SCHEDULE

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EXTENSION OF PUMP INSTALLATION PERMIT

for
Keopu-Haseko Well
Well No. 3957-01

To: Haseko (Hawaii), Inc.
820 Mililani Street, Suite 820
Honolulu, Hawaii 96813

In accordance with Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to install a pump in Keopu-Haseko Well (Well No. 3957-01) at Kailua, North Kona, Hawaii, TMK 7-5-1:44, is extended, subject to the following standard conditions:

STANDARD PUMP INSTALLATION PERMIT CONDITIONS

1. The Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, before any work by this permit commences.

2. The pump installation permit shall be for installation of a 500 gpm capacity pump in the well.

3. The proposed use 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 pump water from a well shall not constitute a determination of correlative water rights. The permittee is notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

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

5. The following shall be submitted to the Commission staff within 30 days after completion of the work:
   a. Well Completion Report
   b. As-built sectional drawing of the installed pump.
EXTENSION OF PUMP INSTALLATION PERMIT
Well No. 3957-01

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

7. The pump installation permit application and staff submittals approved by the Commission at its August 4, 1993 and September 13, 1995 meetings are incorporated into the permit by reference.

8. The permit may be revoked if work is not started within six (6) months after the date of issuance or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within one (1) year from the date of permit approval, unless otherwise specified. The permit may be extended by the Commission upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Commission no later than three (3) months prior to the date the permit expires. If the commencement or completion date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

Michael D. Wilson, Chairperson
Commission on Water Resource Management

Permit Approval Date: September 13, 1995
Date of Issuance: October 4, 1995

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed.

Applicant's Signature: ___________________________ Date: October 10, 1995

Printed Name: Katsuo Shimizu
Firm or Title: Haseko (Hawaii) President

Please sign the permit, return one copy of this permit to the Commission, and retain a copy for your record.

cc: USGS
Department of Health
Safe Drinking Water Branch
Ground Water Protection Program
Wastewater Branch
Hawaii Department of Water Supply
To: Rae M. Loui, Deputy Director  
State of Hawaii  
Department of Land and Natural Resources  
Commission on Water Resource Management  
P.O. Box 621  
Honolulu, HI 96809  

From: Alan Suwa  

Date: October 11, 1995  

Via: U.S. Postal  

Transmitted: ( ) Attached/Enclosed ( ) Separate Cover

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Transmitting

( ) Review & Comments  
( ) For Your Information  
( ) Per Our Conversation  
( ) Per Your Request  
(✓) For Your Files

REMARKS:
EXTENSION OF PUMP INSTALLATION PERMIT

for

Keopu-Haseko Well
Well No. 3957-01

To: Haseko (Hawaii), Inc.
820 Miliilan Street, Suite 820
Honolulu, Hawaii 96813

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   b. As-built sectional drawing of the installed pump.
6. The applicant shall comply with all applicable laws, rules, and ordinances.

7. The pump installation permit application and staff submittals approved by the Commission at its August 4, 1993 and September 13, 1995 meetings are incorporated into the permit by reference.

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Michael D. Wilson, Chairperson
Commission on Water Resource Management

Permit Approval Date: September 13, 1995
Date of Issuance: Oct 4, 1995

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed.

Applicant's Signature: __________________________ Date: ______________

Printed Name: ________________________________
Firm or Title: ________________________________

Please sign the permit, return one copy of this permit to the Commission, and retain a copy for your record.

cc: USGS
Department of Health
Safe Drinking Water Branch
Ground Water Protection Program
Wastewater Branch
Hawaii Department of Water Supply
AGENDA 1

FOR THE MEETING OF THE COMMISSION ON WATER RESOURCE MANAGEMENT

DATE: September 13, 1995
TIME: 9:00 am
PLACE: Kalaninoku Building

1. Minutes of the August 2 and 16, 1995 meeting
2. Old Business/Announcements
3. C. Brewer Properties, Inc. Request for Extension of Start Date, North Waihee Wells 1 & 2, (Well Nos. 5631-02 & 03), Request to Install 1400 gpm Pumps for Domestic Use, TMK 3-2-1:4, Waihee, Wailuku, Maui
4. Hope Chapel Kaneohe Application for a Stream Channel Alteration Permit, Kapunahala Stream, Kaneohe, Oahu (TMK 4-5-23:02, 03 and 4-5-25:20)
5. Grove Farm Properties, Inc. Application for a Stream Channel Alteration Permit, Installation of Waterline and Construction of Ford Crossings, Two Unnamed Streams, Puhi, Kauai (TMK 3-4-05:03)
6. Appointment of Robert S. Nakata as Hearing Officer for the Ewa Marina Contested Case Hearing
7. Haseko (Hawaii), Inc. Request to Extend Pump Installation Permit, Keopu-Haseko Well (Well No. 3957-01), Installation of a 500 gpm Pump for Municipal Use, TMK 7-5-1:44, Kailua, North Kona, Hawaii
8. Honolulu Board of Water Supply Request for Emergency Approval, Application for Well Construction and Pump Installation Permit, Pauoa Well (Well No. 2049-01), Construction of a 10-inch Diameter, 100-foot deep Well for Domestic Use, TMK 2-2-41:3, Pauoa, Honolulu, Oahu
STAFF SUBMITTAL

for the meeting of the
COMMISSION ON WATER RESOURCE MANAGEMENT

September 13, 1995
Honolulu, Hawaii

Haseko (Hawaii), Inc.
Request to Extend Pump Installation Permit
Keopu-Haseko Well (Well No. 3957-01)
Installation of a 500 gpm Pump
for municipal use,

TMK 7-5-1:44, Kailua, North Kona, Hawai‘i

Applicant: Haseko (Hawaii), Inc.
820 Mililani Street, #820
Honolulu, Hawai‘i 96813

Landowner: Keopulani Estates Associates
745 Fort Street, #1400
Honolulu, Hawai‘i 96813

Action Requested: Request to extend pump installation permit issued August 3, 1991, in Keopu-Haseko Well (Well No. 3957-01), to be used for municipal use.

Well Location/Tax Map Key: The well is located at Keopu, North Kona, at Tax Map Key 7-5-1:44 (see attached map).

Well Description:

Ground elevation: 1674 ft.
Hole diameter: 28 in.
Solid casing depth: 1650 ft.
Screen casing depth: 50 ft.
Rock-packed hole: 6 ft.
Total depth: 1706 ft.
Anticipated pump size: 500 gpm

Water Availability: The well is located in the Keauhou System of the Hualalai Sector of Hawai‘i, with a sustainable yield estimated at 38 mgd. Existing use is about 9.5 mgd.
Background:

August 5, 1993  The Commission issued the Pump Installation Permit. Conservation Plans were included with the application.

August 3, 1995  Haseko (Hawaii), Inc. requested, by letter, an extension of the permit. The well is to be dedicated to the Hawai‘i Department of Water Supply. The county has accepted the quantity and quality produced at the well, and has approved the subdivision request and private easements for the well site. The applicant is reevaluating its subdivision plans in light of a weak real estate market, and may adjust facility plans before contracting further implementation work.

Analysis: The proposed well would tap fresh basal ground water. Proposed use is approximately 720,000 gallons per day. No adverse impacts are expected.

RECOMMENDATION: That the Commission extend the well pump installation permit for Keopu-Haseko Well, subject to the following conditions:

STANDARD PUMP INSTALLATION PERMIT CONDITIONS

1. The Commission shall be notified before work commences.

2. The pump installation permit shall be for installation of a 500 gpm capacity pump in the well.

3. The proposed use 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 pump water from a well shall not constitute a determination of correlative water rights. The permittee is notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

4. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage. Water usage shall be measured on a monthly basis and reported to the Commission.
5. The following shall be submitted to the Commission staff within 30 days after completion of the work:

   a. Well Completion Report
   b. As-built sectional drawing of the installed pump.

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

7. The pump installation permit application and staff submittal approved by the Commission at its August 4, 1993 meeting are incorporated into the permit by reference.

8. The permit may be revoked if work is not started within six (6) months after the date of issuance or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within one (1) year from the date of permit approval, unless otherwise specified. The permit may be extended by the Commission upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Commission no later than three (3) months prior to the date the permit expires. If the commencement or completion date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

Respectfully submitted,

RAE M. LOUI
Deputy Director

Attachment

APPROVED FOR SUBMITTAL:

MICHAEL D. WILSON, Chairperson
PRESENTATION BY APPLICANT: Mr. Greg Kamm of Grove Farm Properties Inc. was present and available to answer questions.

MOTION: (GIRALD/NOBIGA)

To approve staff's recommendation.

UNANIMOUSLY APPROVED.

ITEM 6

APPOINTMENT OF ROBERT S. NAKATA AS HEARING OFFICER FOR THE EWA MARINA CONTESTED CASE HEARING

PRESENTATION OF SUBMITTAL: Deputy Director Rae Loui

STAFF RECOMMENDATION:

Staff recommended that the Commission appoint Mr. Robert S. Nakata as the hearing officer for the Ewa Marina contested case hearing.

TESTIMONIES:

Mr. Nelson Lee, Executive Vice President of Haseko Ewa, Inc., requested that the Commissioners themselves hear all the evidence and arguments firsthand. He stated that they would be willing to wait until after the Waiahole contested case hearing is over. A written testimony was also submitted.

AMENDMENT:

Staff requested to amend the recommendation to request that the Commission defer the decision until the role of the hearings officer is clearly defined.

MOTION: (NOBRIGA/RICHARDS)

To approve staff's amended recommendation.

UNANIMOUSLY APPROVED AS AMENDED.

ITEM 7

HASEKO (HAWAI'I, INC. REQUEST TO EXTEND PUMP INSTALLATION PERMIT, KEOPU-HASEKO WELL (WELL NO. 3957-01), INSTALLATION OF A 500 GPM PUMP FOR MUNICIPAL USE, TMK 7-5-1:44, KAILUA, NORTH KONA, HAWAI'I

PRESENTATION OF SUBMITTAL: Mr. Charley Ice

STAFF RECOMMENDATION:
Staff recommended that the Commission extend the well pump installation permit for Keopu-Haseko Well, subject to standard conditions as listed in the staff submittal.

TESTIMONY BY APPLICANT: Mr. Alan Suwa, representing the applicant, Haseko (Hawaii) Inc., stated that they felt that the staff's recommendation was fair. He was also available for questions.

MOTION: (GIRALD/RICHARDS)

To approve staff's recommendation.

UNANIMOUSLY APPROVED.

ITEM 8

HONOLULU BOARD OF WATER SUPPLY REQUEST FOR EMERGENCY APPROVAL, APPLICATION FOR WELL CONSTRUCTION AND PUMP INSTALLATION PERMIT, PAUOA WELL (WELL NO. 2049-01), CONSTRUCTION OF A 10-INCH DIAMETER, 100-FOOT DEEP WELL FOR DOMESTIC USE, TMK 2-2-41:3, PAUOA, HONOLULU, OAHU

PRESENTATION OF SUBMITTAL: Mr. Charley Ice

STAFF RECOMMENDATION:

Staff recommended:

1. That the Commission approve the request for emergency well construction, subject to the standard well construction conditions.

2. Defer action on the pump installation permit until the water use permit is approved. That would be an appropriate time to consider operating conditions suggested by other agencies.

3. That the Commission authorize staff to initiate rule-making procedures addressing emergency rules for well construction and pump installation permit applications. Staff is aware that some conditions may qualify for emergency action, and expediting rules would be desirable, especially in water management areas where water use permits are also necessary.

4. Alert the Board of Water Supply that modification of an existing water use permit for the Nuuanu sources may be necessary when a more permanent solution is found.

PRESENTATION BY APPLICANT: Mr. Chester Lao of the Board of Water Supply was available to answer questions.
Mr. Alan Suwa  
Haseko (Hawaii), Inc.  
820 Mililani Street, Suite 820  
Honolulu, Hawaii 96813

Dear Mr. Suwa:

Extension of Pump Installation Permit  
Keopu-Haseko Well (Well No. 3957-01)

We received your August 3, 1995 letter requesting a one-year extension of the pump installation permit issued August 5, 1993.

We understand that the well will be dedicated to the Hawaii Department of Water Supply, and that this process is in midstream, with some essential steps now completed. We also understand that the planning and design process for pump installation is dependent upon reevaluation of residential plans.

We will process this request for earliest possible action, in view of the expiration date of your permit. If you have any questions, please call Charley Ice at 587-0251.

Sincerely,

RAE M. LOUI  
Deputy Director

Cl:ss
August 3, 1995

Via Hand Delivery

Ms. Rae M. Loui
Deputy Director
Commission on Water Resource Management
P.O. Box 621
Honolulu, Hawaii 96809

Subject: Pump Installation Permit
Keopu-Haseko Well, Well No. 3957-01
Keopu, North Kona, Hawaii

Dear Ms. Loui:

We are requesting a one-year time extension from August 5, 1995 up to and including August 5, 1996 for the installation of a pump in the Keopu-Haseko Well, Well No. 3957-01, authorized under the above-referenced permit issued on August 5, 1993.

We are at the midway point in the development of the well as a usable and dedicated source of water to the County of Hawaii. As of July 13, 1994, the County of Hawaii Department of Water Supply provided us with verification that the quality and quantity of this water source was acceptable for inclusion as part of the County water system. A copy of this letter is attached for your information. We also secured the subdivision approval from the County for the well site and access easements from two private land owners which would enable the dedication of the well to the County.

Due to the depressed state of the real estate market on the Big Island, we are now reevaluating our residential subdivision plans to determine how to best satisfy our affordable housing requirements. Since completion of the well depends on the progress of our overall subdivision development, we will need additional time in which to complete the necessary plans for the design of the pump facilities. We are hopeful the pump facilities can be designed and installed within the time extension period requested.
Your favorable consideration on this matter would be greatly appreciated. If you have any questions, please contact me at 599-1444.

Very truly yours,

[Signature]

Alan Suwa
Project Manager

AS: dsl

Attachment: DWS letter dated 7/13/94

cc: Sandra Pechter Schutte, Esq.
July 13, 1994

Ms. Sandra Pechter Schutte  
Case & Lynch  
460 Kilauea Avenue  
Hilo, HI 96720-3084  

HASEKO - KEOPU WELL (NO. 3967-01)  

This is a follow-up on your letter of June 17, 1994. Your request is for confirmation that the subject well source is acceptable relative to quality and quantity.  

We previously stated that the quality of the water appears to be acceptable. As a matter of clarification, the State of Hawaii Department of Health (DOH) is the agency that approves a source of water for potable drinking water purposes in accordance with State and Federal regulations. The developer should contact the DOH for requirements for securing approval.  

Regarding the quantity or safe yield of the source, we did express some reservations. We recommended that a variable speed submersible pump be used. With this type of pump, we could establish a track record with which a long-term pumping rate can be determined.  

To clarify the preceding concern, the reservation merely sets a design parameter for the construction of the well into a production source that is fully operational and connected to the existing water system facilities. Our letters of June 28, 1993 and April 25, 1994 to Mr. Henry Sheldon, Haseko (Hawaii), Inc., specifies other improvements that are necessary for placing the source into production. The improvements include chlorination, control building and controls, 300,000-gallon concrete reservoir, connecting pipeline from the reservoir to existing facilities along Hamalahoa Highway, powerline to the site, and paved roadway.  

Therefore, based on the above clarifications, we hereby confirm that the source's initial quality and quantity investigations are acceptable. The developer may proceed with the next phase of the well construction and securing necessary State and County approvals. Dedication of the source to the Water Commission will be subject to satisfying the above concerns.  

[Signature]  
Manager  
QA  

Copy - Haseko (Hawaii), Inc.  

...Water brings progress...
DATE: November 8, 1993

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

FROM: Craig Tachibana

RE: Pump Installation Permit
for Keopu-Haseko Well (Well No. 3957-01)
Keopu, North Kona, Hawaii

REMARKS:

Please find enclosed the pump installation permit for the Keopu-Haseko Well.

If you have any questions, please do not hesitate to contact me.
MEMORANDUM

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

FROM: Don Hibbard, Administrator  
State Historic Preservation Division

SUBJECT: Pump Installation Permit Application—Well No. 3957-01, Haseko Well  
Keopu, North Kona, Island of Hawaii  
TMK: 7-5-01: 044

HISTORIC PRESERVATION PROGRAM CONCERNS:

The location of the well lies in an area where significant historic sites are expected to occur. Remnants of the Kona Field System consisting of formal and informal agricultural features, habitation features, and burial remains have been located in this section of North Kona. The Kona Field System is a significant historic district under multiple criteria and is eligible for inclusion in the State and National Register of Historic Places.

Hence, we recommend that no action be taken on the subject application until an archaeological inventory survey has been undertaken to determine if significant historic sites are present. The findings of the survey should be submitted in report format to our office for adequacy review. If significant historic sites are present, then a mitigation plan must also be submitted to our office for review and concurrence. Installation of the pump cannot commence until the mitigation plan has been executed in the field. Successful completion of the mitigation work must be verified in writing by our office.

For further assistance, please contact Kanalei Shun at 587-0007.

KS: amk
WELL NO. 5957-01 KEOPU MAUKA / PUNHOULU

SECTION "A"
N.T.S.

DTW = 1631.4'  11-30-00  9.40' WWS  NO = 45.06' NDL

TRV "MAUKA 1"
1/2 PIPE (FND)

TRV "P.O.T. MAUKA"
1/2 PIPE (FND)

1675.92' 1676.85' 1675.92' 1676.45'

1/2

CSD OIA. O.D. 14 3/8
I.D. 14
SECTION "A"
N.T.S.

WELL NO. 3957-01 KEOPU MAUKA / PIUHOLOA

TRV "MAUKA 1"
1/2 PIPE (FND)

TRV "P.O.T. MAUKA"
1/2 PIPE (FND)

263° 05' 40" → 132° 89'

676.95
676.64
676.85
Haseko Well 40. 3997-01
Job No. H-91-10
Survey conducted on August 10-11, 1993
Prepared by Inata & Associates, Inc.
Certified by Clyde K. Mataunaga
Scale: 1" = 40'
Origin: U.S.G.S. "T.B.H. 1497
(Elev. = 1497.34)
TESTIMONY TO THE STATE OF HAWAII COMMISSION ON WATER RESOURCE MANAGEMENT

ITEM 3 KEOPU-HASEKO WELL

Analysis:

What is the name of the development project which the proposed well is intended to service? Has it obtained all necessary approvals? How will it be integrated with the Hawaii Water Use and Development Plan and the North Kona Regional Water Plan? We understand that the contract for this last plan has been awarded, and we request copies of the contract and the scope of work.

At the July 28, 1993 COWRM meeting NHAC expressed concerns about the impacts of water source development in Kona upon traditional and customary rights of local Hawaiians to enjoy natural flows of surface and ground waters and the many cultural uses, practices, and beliefs these waters support. So far, the various planning processes guiding land and water use decisions, as well as COWRM permitting processes, do not address these concerns.

In mauka areas such as this, natural discharge of high-level water occurs in caves, cliffs, gulches, hollows, and other landforms. Hawaiian tradition and custom includes consumptive use of these waters and requires that both the religious sanctity and physical characteristics of these discharges be preserved.

High-level water also discharges to what Commissioners have called "underground rivers." These channels then emerge onto land or flow into the ocean, where they contribute to marine productivity and are traditionally and customarily gathered for consumptive use. Again, preserving the religious sanctity and physical characteristics of these natural discharges is a Native Hawaiian water right to be protected by COWRM.

Commissioners have argued that these and other issues relating to culturally-based water uses are adequately covered in other planning and permitting procedures. Regardless of the level of prior review, the buck stops at the Water Commission. COWRM is obligated to acknowledge and protect all Hawaiian cultural values attached to water.
PUMP INSTALLATION PERMIT

for

Keopu-Haseko Well
Well No. 3957-01
Keopu, North Kona, Hawaii

TO: Haseko (Hawaii) Inc.
820 Mililani Street, #820
Honolulu, HI 96813

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to install a pump in Keopu-Haseko Well (Well No. 3957-02), for municipal use, is approved subject to the following conditions:

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

2. The permit shall be for installation of a 500 gpm capacity pump in the well.

3. The proposed use 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 pump water from the well shall not constitute a determination of correlative water rights. The permittee is notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

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

5. The following shall be submitted to the Commission staff within 30 days after completion of the work:

   a. Well Completion Report.

   b. As-built sectional drawing of the installed pump.
6. The applicant shall comply with all applicable laws, rules, and ordinances.

7. The permit application and staff submittal approved by the Commission at its meeting on August 4, 1993 shall be incorporated herein by reference.

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

---

KEITH W. AHUE, Chairperson
Commission on Water Resource Management
8/5/93
Date of Approval

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed.

Applicant's Signature: [Signature] Date: 8/10/93

Printed Name: HENRY K. SUELDON

Firm or Title: HASEKO (HAWAII) INC.

Please sign and return one copy of this permit to the Commission and retain a copy for your record.

C: USGS
Department of Health
Safe Drinking Water Branch
Ground Water Protection Program
Wastewater Branch
Hawaii Department of Water Supply
PUMP INSTALLATION PERMIT

for

Keopu-Haseko Well
Well No. 3957-01
Keopu, North Kona, Hawaii

TO: Haseko (Hawaii) Inc.
820 Mililani Street, #820
Honolulu, HI 96813

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KEITH W. AHUE, Chairperson
Commission on Water Resource Management
8/5/93
Date of Approval

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed.

Applicant's Signature: ___________________________ Date: ____________

Printed Name: ________________________________________________

Firm or Title: _________________________________________________

Please sign and return one copy of this permit to the Commission and retain a copy for your record.

c:  USGS
    Department of Health
    Safe Drinking Water Branch
    Ground Water Protection Program
    Wastewater Branch
    Hawaii Department of Water Supply
Chairperson and Members
Commission on Water Resource Management
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Haseko (Hawaii) Inc.
Application for a Pump Installation Permit
Keopu-Haseko Well (Well No. 3957-01), Keopu, North Kona, Hawaii

Applicant:
Haseko (Hawaii) Inc.
820 Millilani Street, #820
Honolulu, HI 96813

Landowner:
Keopuolani Estates Associates
745 Fort Street, Suite 1400
Honolulu, HI 96813

Action Requested: Permission to install a 500 gallons per minute (gpm) pump in Keopu-Haseko Well (Well No. 3957-01) for municipal use. The proposed amount of use is 720,000 gallons per day (0.72 mgd).

Well Location/Tax Map Key: The well is located at Keopu, North Kona at Tax Map Key: 7-5-01:44 (see attached map).

Well Description:

Ground elevation: 1,674 ft.
Casing diameter: 14 inches
Solid casing depth: 1,650 ft.
Screen casing depth: 1,700 ft.
Open hole: 6 ft.
Total depth: 1,706 ft.
Proposed pump capacity: 500 gpm

Agency Review: The application has been sent to the Hawaii Departments of Water Supply and Public Works, the State Historic Preservation Division, the Office of Hawaiian Affairs, and to the State Departments of Health and Hawaiian Home Lands for review. There have been no objections to the project.

Analysis: This well is expected to develop fresh high-level ground water. The well will be dedicated to the Hawaii Department of Water Supply for operation and maintenance. At the present time no adverse impacts are expected. The nature of the geologic structure that holds water at high levels in this region remains unknown. The global hydraulic properties of the high-level aquifer also remain unknown; however, the local properties given by the aquifer test results for this well showed that for pumpage of 738 gpm the drawdown was about 6.5 feet over the length of the four-day test. Chlorides remained at 10 mg/l.

As with other high-level wells in North and South Kona, the direction of ground-water flow is assumed perpendicular to the coast. Lateral interference with other high level wells should not occur over the short term. When more is known of the aquifer's hydraulic properties and more water level data are collected, then well interference may be predicted.

Water Availability: The well is located in the Hualalai Sector, Keauhou Aquifer System of Hawaii. Sustainable yields for the Keauhou System and the Hualalai Sector are estimated at 38 mgd and 56 mgd respectively. Existing use from the Hualalai Sector is about 10 mgd. Water needs from the Hualalai Sector are estimated to be 38 mgd by the year 2010.

RECOMMENDATION:

That the Commission approve the issuance of a pump installation permit for Keopu-Haseko Well, subject to the following conditions:

1. The Commission on Water Resource Management (Commission) shall be notified before work commences.
Chairperson and Members
Commission on Water Resource Management
August 4, 1993

2. The permit shall be for installation of a 500 gpm capacity pump in the well.

3. The proposed uses 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 pump water from the well shall not constitute a determination of correlative water rights. The permittee is notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

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

5. The following shall be submitted to the Commission within 30 days after completion of the work:
   a. Well Completion Report.
   b. As-built sectional drawing of the pump installation.

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

7. The permit application and staff submittal approved by the Commission at its meeting on August 4, 1993 shall be incorporated herein by reference.

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

Respectfully submitted,

RAE M. LOUI
Deputy Director

APPROVED FOR SUBMITTAL:

KEITH W. AHUE, Chairperson
The Honorable Keith W. Ahue, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Ahue:

Well Construction and Pump Installation Permits

Thank you for the opportunity to respond to this application for the following well construction and pump installation permits:

O'ahu
- Kalaeloa PW 7-9 Wells (1805-10,11,12)
- Makaha IV (3010-12)

Hawaii
- Keopu Mauka (3957-01)
- Onomea-Lutkenhouse (4905-02)
- Big Island Country Club (4950-01)

The Department of Hawaiian Home Lands has no objections to these projects. We are unable to evaluate the Kalaeloa applications, however, without additional information. The application does not explain why existing wells are being replaced. Also, we understand that a Caprock Aquifer Study was intended to establish a better understanding of proper management of this resource; we are unaware how these wells might be affected by the findings of this study.

Please direct any questions to Ben Henderson in our Planning Office, 586-3836.

Warmest aloha,

Hoaliiku L. Drake, Chairman
Hawaiian Homes Commission
AGENDA

FOR THE MEETING OF THE
COMMISSION ON WATER RESOURCE MANAGEMENT

DATE: August 4, 1993
TIME: 9:30 a.m.
PLACE: Kaunakakai School Cafeteria
       Kaunakakai, Molokai

1. Larry Clark, Application for a Well Construction/Pump Installation Permit, Keawanui-Clark Well (Well No. 0350-06), Keawanui, Molokai

2. Dan J. Lutkenhouse, Application for a Well Construction/Pump Installation Permit, Onomea-Lutkenhouse Well (Well No. 4905-02), Onomea, South Hilo, Hawaii

3. Haseko (Hawaii) Inc., Application for a Pump Installation Permit, Keopu-Haseko Well (Well No. 3957-01), Keopu, North Kona, Hawaii

4. County of Maui, Department of Parks & Recreation, Application for a Water Use Permit Kaunakakai Park Well (Well No. 0501-07), Kamiloloa Ground Water Management Area, Molokai

5. Kalaikamanu Hou Church, Application for a Water Use Permit, Kalaikamanu Well (Well No. 0602-03), Maunawainui Ground Water Management Area, Molokai

6. Shigenobu Inouye, Application for a Water Use Permit, Shige's Farm Well (Well No. 0352-11), Kawela Ground Water Management Area, Molokai

7. Mahealani Ranch, Application for a Water Use Permit, Kamalo Well (Well No. 0352-09), Ualapue Ground Water Management Area, Molokai

8. National Park Service, Application for a Water Use Permit, Waihanau #239 Well (Well No. 1058-01), Kahanui Ground Water Management Area, Molokai
Chairperson Ahue asked if the application was for arboretum use also. Mr. Sakoda said there was no indication on the application that it would be used for the arboretum.

Unanimously approved as amended (Cox/Nakata).

ITEM 3  HASEKO (HAWAII) INC., APPLICATION FOR A PUMP INSTALLATION PERMIT, KEOPU-HASEKO WELL, (WELL NO. 3957-01), KEOPU, NORTH KONA, HAWAII

Ms. Rowena Eberhardt of the Native Hawaiian Advisory Council presented testimony (see Commission file).

Unanimously approved (Nakata/Cox).

ITEM 4  COUNTY OF MAUL DEPARTMENT OF PARKS AND RECREATION, APPLICATION FOR A WATER USE PERMIT KAUNAKAKAI PARK WELL, (WELL NO. 0501-07), KAMILOLOA GROUND WATER MANAGEMENT AREA, MOLOKAI

Mrs. Wilma Grambusch, President of the Kalamaula Homesteaders Association presented testimony.

Unanimously approved (Nakata/Cox).

ITEM 5  KALAIAKAMANU HOU CHURCH, APPLICATION FOR A WATER USE PERMIT, KALAIAKAMANU WELL, (WELL NO. 0602-03), MAUNAWAINUI GROUND WATER MANAGEMENT AREA, MOLOKAI

Mr. Cox suggested staff draft guidelines for small users for the required water shortage plan.

In regards to Standard Condition 18, Mr. Ing asked about the purpose of the A.G. review. Mr. Tam replied that with standard conditions it is reviewed as to form. If there are special conditions or matters that could affect existing rights, these would be reviewed.

Unanimously approved (Nakata/Cox).

ITEM 6  SHIGENOBU INOuye, APPLICATION FOR A WATER USE PERMIT, SHEEP'S FARM WELL, (WELL NO. 0352-11), KAWELA GROUND WATER MANAGEMENT AREA, MOLOKAI

Mr. Cox recommended that the conditions for irrigation not state the crops because it is restrictive to use. It was suggested that it be changed to "irrigation of one (1) acre of agricultural use".

Mrs. Grambusch presented testimony.

Mr. Ing asked that the numbering of the Special Conditions be changed to 1, 2, and 3.
Ms. Donna Fay K. Kiyosaki  
Chief Engineer  
Department of Public Works  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii 96720

Dear Ms. Kiyosaki:

Well Construction and Pump Installation Permit Application

Please review the following permit applications pursuant to your area of concern and submit your comments to us by AUG 2 1993.

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<td>Pump Installation</td>
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Hawaii  
Keopu Mauka/Puuhonua  
3957-01 Pump Installation

Hawaii  
Onomea-Lutkenhouse  
4905-02 Well Construction

Hawaii  
Big Island Country Club Well 1  
4950-01 Pump Installation

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

RAE M. LOUI  
Deputy Director

Response:  
( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Contact Person: Ed Yoshida  
Phone: 961-8327  
Date: 7/10/93

Signed: Ed Yoshida
DATE: 7/18/93
TO: GLENN BAUER / RAB LOW
FAX #: ____________________________
FROM: JOHN
FAX #: 808-885-7851
TOTAL PAGES INCL. COVER PAGE: 12
CALL 885-5941 SHOULD YOU HAVE PROBLEMS WITH THIS TRANSMISSION. MAHALO.

KEEP WELL
DATA SHEETS
AS PER LETTER
Mr. Henry Sheldon  
Haseko (Hawaii) Inc.  
620 Mili Mili Street, Suite 520  
Honolulu, Hawaii 96813

Dear Mr. Sheldon:

We have received your application and filing fee for a permit to install a pump in Ke'epu-Haseko Well (Well No. 3957-01) in Kaliu-Kona, Hawaii, (TMK 7-5-01:44). We are reviewing the application for completeness.

Please submit the aquifer test data to us for our information and files, and to assist us in our review of your application.

Should you have questions, please call the Commission on Water Resource Management staff at 587-0225.

Sincerely,

[Signature]

RAI M. LOUI  
Deputy Director

JZSK

I think this was part of the application from Waimea Water.
PRELIMINARY SPECIFIC CAPACITY TEST
1/21/93

ITEM
WATER LEVEL
BOTTOM OF WELL SCREEN
PUMP INTAKE
AIR LINE 1
AIR LINE 2

ELEVATION IN FEET
+ 48
- 33
- 49'
- 34'
- 44'

TEST DATA OF 1/21/93

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* Pilot hole pump test (8/4/93).

KEOPU WELL SPECIFIC CAPACITY
AIR LINE 2  1/21/93

GALLONS PER MINUTE (GPM)

--- Specific Capacity

[Figure 1A]
**Well Testing Data Form**

**Waimea Water Services Inc.**

**Well Name:** Kekuu

**Date:** 1/22/93

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**Remarks:**
- Started 1:57 pm to 5:53 pm
- Waimea Theatre/198 (3rd trip)
**WELL TESTING DATA FORM**

**WAIMEA WATER SERVICES INC.**

**WELL NAME**

**DATE** 1/23/93

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Total pumped: 4,252,800
Pumped avg: 738.48 gpm
## Well Testing Data Form

**Well Name:** KUPOU  
**Date:** 1/27/93

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- **Remarks:** Being refilled. Water was DEAD.
- **Remarks:** Leaking. Water was 14.3.
## WELL TESTING DATA FORM

### WAIMEA WATER SERVICES INC.

**WELL NAME:** KOPU  
**DATE:** 1/28/93

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**11:14 AM - STOPPED RECORDING**
FROM: Ed  DATE: 6/18/93  FILE IN: 

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FOR YOUR:

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and files.
Mr. Thomas Arizumi, Chief
Environmental Management Division
State Department of Health
Five Waterfront Plaza
500 Ala Moana Blvd., Suite 250
Honolulu, Hawaii 96813

Attn: Mr. William Wong

Dear Mr. Arizumi:

Well Construction and Pump Installation Permit Application

Please review the following permit applications pursuant to your area of concern and submit your comments to us by AUG - 2 1993

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
<th>Well No.</th>
<th>Application Type</th>
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<tbody>
<tr>
<td>Oahu</td>
<td>Kalaeloa PW-7</td>
<td>1805-10</td>
<td>Well Construction</td>
</tr>
<tr>
<td>Oahu</td>
<td>Kalaeloa PW-8</td>
<td>1805-11</td>
<td>Well Construction</td>
</tr>
<tr>
<td>Oahu</td>
<td>Kalaeloa PW-9</td>
<td>1805-12</td>
<td>Well Construction</td>
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<tr>
<td>Oahu</td>
<td>Makaha IV</td>
<td>3010-12</td>
<td>Pump Installation</td>
</tr>
<tr>
<td>Hawaii</td>
<td>Keopu Mauka/Puuhonua</td>
<td>3957-01</td>
<td>Pump Installation</td>
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<tr>
<td>Hawaii</td>
<td>Onomea-Lutkenhouse</td>
<td>4905-02</td>
<td>Well Construction</td>
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<tr>
<td>Hawaii</td>
<td>Big Island Country Club Well 1</td>
<td>4950-01</td>
<td>Pump Installation</td>
</tr>
</tbody>
</table>

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

[Signature]

RAE M. LOUI
Deputy Director

Response:
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: ___________________________ Phone: ________________
Signed: _______________________________ Date: ________________
Mr. Thomas Arizumi, Chief  
Environmental Management Division  
State Department of Health  
Five Waterfront Plaza  
500 Ala Moana Blvd., Suite 250  
Honolulu, Hawaii 96813  

Attn: Mr. Dennis Tulang  

Dear Mr. Tulang:  

Well Construction and Pump Installation Permit Application  

Please review the following permit applications pursuant to your area of concern and submit your comments to us by **AUG - 2 1993**.  

<table>
<thead>
<tr>
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<th>Well Name</th>
<th>Well No.</th>
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<td>Big Island Country Club Well 1</td>
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<td>Pump Installation</td>
</tr>
</tbody>
</table>

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.  

Sincerely,  

[Signature]  

RAE M. LOUI  
Deputy Director  

JZ:ky  
Enc.  

---  

Response:  
( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested  

Contact Person: ____________________________  
Phone: ____________________________  
Signed: ____________________________  
Date: ____________________________
MEMORANDUM

TO: Honorable Hoaliku L. Drake, Director
Department of Hawaiian Home Lands

Mr. Clayton H.W. Hee, Chairman & Trustee At Large
Office of Hawaiian Affairs

FROM: Keith W. Ahue, Chairperson

SUBJECT: Well Construction & Pump Installation Permit Applications

Please review the following permit applications and submit your comments to us by AUG - 2 1993

<table>
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<tr>
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<td>Keopu Mauka/Puuhonua</td>
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<td>Onomea-Lutkenhouse</td>
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<td>Well Construction</td>
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<td>Hawai'i</td>
<td>Big Island Country Club Well 1</td>
<td>4950-01</td>
<td>Pump Installation</td>
</tr>
</tbody>
</table>

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

JZ:ky
Enc.

Response:
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: __________________________ Phone: __________________________

Signed: __________________________ Date: __________________________
MEMORANDUM

TO: Don Hibbard, Director
   Historic Preservation Program

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

SUBJECT: Well Construction & Pump Installation Permit Applications

Please review the following permit applications and submit your comments to us by AUG - 2 1993

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
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</tbody>
</table>

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

JZ:ky
Enc.

Response:
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: ___________________________ Phone: ________________
Signed: ___________________________ Date: ________________
Ms. Marjorie Ziegler  
Sierra Club Legal Defense Fund, Inc.  
212 Merchant Street, Room 202  
Honolulu, Hawaii 96813

Dear Ms. Ziegler:

Well Construction and Pump Installation Permit Application

Please review the following permit applications pursuant to your area of concern and submit your comments to us by **AUG - 2 1993**

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
<th>Well No.</th>
<th>Application Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oahu</td>
<td>Kala'eloa PW-7</td>
<td>1805-10</td>
<td>Well Construction</td>
</tr>
<tr>
<td>Oahu</td>
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<td>1805-11</td>
<td>Well Construction</td>
</tr>
<tr>
<td>Oahu</td>
<td>Kala'eloa PW-9</td>
<td>1805-12</td>
<td>Well Construction</td>
</tr>
<tr>
<td>Oahu</td>
<td>Makaha IV</td>
<td>3010-12</td>
<td>Pump Installation</td>
</tr>
<tr>
<td>Hawaii</td>
<td>Keopu Mauka/Puuhonua</td>
<td>3957-01</td>
<td>Pump Installation</td>
</tr>
<tr>
<td>Hawaii</td>
<td>Onomea-Lutkenhouse</td>
<td>4905-02</td>
<td>Well Construction</td>
</tr>
<tr>
<td>Hawaii</td>
<td>Big Island Country Club Well 1</td>
<td>4950-01</td>
<td>Pump Installation</td>
</tr>
</tbody>
</table>

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

Response:
( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Contact Person: ___________________________  Phone: ___________________________

Signed: ___________________________  Date: ___________________________
Mr. William Sewake, Manager  
Department of Water Supply  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii 96720

Dear Mr. Sewake:

Well Construction and Pump Installation Permit Application

Please review the following permit applications pursuant to your area of concern and submit your comments to us by AUG-2 1993

<table>
<thead>
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</tr>
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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

RAE M. LOUI  
Deputy Director

JZ:ky  
Enc.

Response:
( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Contact Person: ______________________ Phone: ______________________
Signed: ____________________________ Date: ______________________
Ms. Donna Fay K. Kiyosaki  
Chief Engineer  
Department of Public Works  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii 96720

Dear Ms. Kiyosaki:

Well Construction and Pump Installation Permit Application

Please review the following permit applications pursuant to your area of concern and submit your comments to us by AUG - 2 1993

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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

[Signature]

RAE M. LOUI
Deputy Director

JZ:ky
Enc.

Response:
( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: ___________________________ Phone: ________________
Signed: ___________________________ Date: ___________________________
Mr. Henry Sheldon
Haseko (Hawaii) Inc.
820 Mililani Street, Suite 820
Honolulu, Hawaii 96813

Dear Mr. Sheldon:

We have received your application and filing fee for a permit to install a pump in Keopu-Haseko Well (Well No. 3957-01) in Kailua-Kona, Hawaii, (TMK 7-5-01:44). We are reviewing the application for completeness.

Please submit the aquifer test data to us for our information and files, and to assist us in our review of your application.

Should you have questions, please call the Commission on Water Resource Management staff at 587-0225.

Sincerely,

RAE M. LOUI
Deputy Director

JZ:ky
APPLICATION FOR

[ ] WELL CONSTRUCTION PERMIT
[ ] PUMP INSTALLATION PERMIT

Instructions: Please print or type and send completed application with attachments to the Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If questions, phone 548-7043, Hydrology/Geology Section for assistance.

1. WELL LOCATION State Well No. 3957-01
   Island: Hawaii
   Address: Kailua-Kona, Hawaii
   (Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER:
   Firm Name: Haseko (Hawaii) Inc.
   Contact Person: Henry Sheldon
   Address: 820 Kiliilani St., #820
   Honolulu, Hawaii 96813
   Phone: (808) 536-3771

3. PROPOSED CONTRACTOR [ ] Well Drilling
   Name: To be determined
   Phone: N/A
   Address: N/A
   Contractor's License No.: N/A

4 PROPOSED WORK

   [ ] Drill New Well
   [ ] Alter
   [ ] Install New Pump
   [ ] Deepen
   [ ] Seal
   [ ] Replace Pump
   [ ] Redrill
   [ ] Abandon
   [ ] Modify Pump
   (Briefly describe the proposed work and fill in the diagram on the back of this form).

5. PROPOSED USE

   [ ] Municipal (including hotels, stores, etc.)
   [ ] Domestic (individual, noncommercial water systems)
   [ ] Irrigation (specify)
   [ ] Other (specify): Observation

6. PROPOSED AMOUNT OF WITHDRAWAL 720,000 gallons per day

7 PROPOSED PUMP INFORMATION

   Pump Type:
   [ ] Vertical Turbine
   [ ] Submersible
   [ ] Centrifugal
   Motor:
   [ ] Diesel
   [ ] Gas
   [ ] Electric
   [ ] Rated Horsepower
   Rated Pump Capacity: 500 gallons per minute (gpm)
   ** **

   Landowner (title):
   Haseko (Hawaii) Inc.
   Henry Sheldon, Sr. Exec. Vice President
   Signature ____________________________
   Date ______________

   For Official Use Only:
   Field Checked By ____________ Latitude ____________ Hydrologic Unit ____________
   Date ______________ Longitude ____________ State Well ____________
Briefly describe the proposed work:

This well is intended to provide potable water for residential development. This well will be turned over to the Department of Water, County of Hawaii. The pump specifications will be dictated by County of Hawaii standards and requirements.

(Plan attach here)
**INSTRUCTIONS:** Please print or type and submit completed report within 30 days of well completion to the Division of Water & Land Development, P.O. Box 373, Honolulu, HI 96805. An as-built drawing of the well and chemical analysis, if available, should also be submitted. If necessary, phone 548-1543. Hydrology, Geology Section for assistance.

**A. STATE WELL NO.** 3957-01  
**WELL NAME** Keopu/Pahuonu Well  
**ISLAND** Hawaii

**B. LOCATION** Keopu Mauka, North Kona

**C. WELL OWNER** Haseko (Hawaii) Inc.

**D. DRILLING OR PUMP INSTALLATION CONTRACTOR** KKRC WATER SOURCE DEVELOPMENT, J.V.

**E. TYPE OF RIG** Wilson  
**DRILLER** William Cates

**F. DATE OF WELL COMPLETION** 1-26-93  
**DATE OF PUMP INSTALLATION** N/A

**G. GROUND ELEVATION (ma.?** 1674 ft.

**H. TOTAL DEPTH OF WELL BELOW GROUND** 1706 ft.

**I. HOLE SIZE:** 20 inch dia. from GL ft. to 1706 ft. below ground

**J. CASING INSTALLED:**
- 14 ft. I.D. x 375 in. wall solid section to 1650 ft. below ground
- 4 ft. I.D. x 312 in. wall perforated section to 1700 ft. below ground

**K. ANNULUS:**
- Grouted from GL ft. to 1637 ft. below ground
- Gravel packed from 1637 ft. to 1700 ft. below ground

**L. PERMANENT PUMP INSTALLATION:**
- Capacity gpm
- Motor type, make, serial No.
- Pump type, make, serial No.
- Motor type, H.P., voltage, r.p.m.
- Depth of pump intake setting ft. below ground
- Depth of bottom of airline ft. below ground
- which elevation is ft.
- which elevation is ft.

**M. PROPOSED USE** Potable

**N. INITIAL WATER LEVEL** 1627 ft. below ground  
**Date and time of measurement** 1-7-93 12:00pm

**O. INITIAL CHLORIDE** 10 ppm  
**Date and time of sampling** 1-26-93 10:00am

**P. PUMPING TESTS:** Reference point (R.P.) used ground which elevation is 1674 ft.

<table>
<thead>
<tr>
<th>Start water level</th>
<th>ft. below R. P.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth of well</td>
<td>1706 ft. below R. P.</td>
</tr>
<tr>
<td>Elapsed time (hours)</td>
<td>1</td>
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<tr>
<td>Rate (gpm)</td>
<td>0.43</td>
</tr>
<tr>
<td>Draw down (ft.)</td>
<td>10</td>
</tr>
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</table>

**Q. DRILLER'S LOG:**

<table>
<thead>
<tr>
<th>Depth, ft.</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level, ft.</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>148</td>
<td>Hard/medium</td>
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<tr>
<td>149</td>
<td>262</td>
<td>Hard/medium</td>
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<tr>
<td>263</td>
<td>386</td>
<td>Medium/soft</td>
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<tr>
<td>387</td>
<td>510</td>
<td>Medium/hard</td>
</tr>
<tr>
<td>511</td>
<td>520</td>
<td>Batty - Hard &amp; broken</td>
</tr>
<tr>
<td>521</td>
<td>907</td>
<td>Hard/soft spots</td>
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<tr>
<td>908</td>
<td>1190</td>
<td>Soft &amp; consolidated</td>
</tr>
<tr>
<td>1191</td>
<td>1528</td>
<td>Soft/medium</td>
</tr>
<tr>
<td>1529</td>
<td>1706</td>
<td>1627</td>
</tr>
</tbody>
</table>

**REMARKS:**

Submitted by: KKRC WATER SOURCE DEVELOPMENT, J.V.  
**Title** Partner

Signature: C. Dale Stromanquist  
**Date** 2/2/93
TO: Division of Water and Land Development

DATE: 2/20/93

JOB NAME: Keaau/ Punahele Well

JOB LOCATION: Keaau Mauka - North Kona

ATTN: __________________

WE ARE SENDING YOU HEREWITH UNDER SEPARATE COVER THE FOLLOWING ITEMS:

<table>
<thead>
<tr>
<th>Plans</th>
<th>Shop Drawings</th>
<th>Purchase Order</th>
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</thead>
<tbody>
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<tr>
<th>Specifications</th>
<th>Samples</th>
<th>Copy of Letter</th>
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<tr>
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<table>
<thead>
<tr>
<th>Change Order</th>
<th>Other Well Completion Report &amp; As-Built Drawing</th>
</tr>
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<tr>
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THESE ARE TRANSMITTED AS CHECKED BELOW:

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<thead>
<tr>
<th>For Approval</th>
<th>Approved as Submitted</th>
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<tbody>
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</table>

<table>
<thead>
<tr>
<th>For Review &amp; Comment</th>
<th>Other</th>
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<tbody>
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<td></td>
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<tr>
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<td></td>
</tr>
</tbody>
</table>

REMARKS: _______________________________________________________

_______________________________________________________________

COPY TO: Haseko (Hawaii) Inc. & Waimea Water Services

SIGNED: Alan Brown  Project Secretary
DATE: June 15, 1993

TO: Division of Water and Land Management
    P.O. Box 373
    Honolulu, Hawaii 96809

FROM: Craig Tachibana
      Haseko (Hawaii), Inc.

REMARKS: Please find enclosed the following:

Application for Pump Installation Permit
State Well No.: 3957-01
Kailua-Kona, Hawaii
TMK: 7-5-01:44
Check in the amount of $25.00 for non-refundable filing fee
HASEKO (Hawaii), Inc.
820 MILILANI STREET • SUITE 820
HONOLULU, HAWAII 96813

PAY TO THE ORDER OF
DEPARTMENT OF LAND AND NATURAL RESOURCES
P.O. BOX 373
HONOLULU, HAWAII 96809

$25.00

DATE
06/15/93

CHECK NO.
008541

PAYEE I.D.
DEP16740

PAY THIS AMOUNT $25.00

Signature

MAIN OFFICE
FIRST HAWAIIAN BANK
HONOLULU, HAWAII 96813

NO. 8541
To: Ed Sakoda
Fr: John Stubbart
Re: Revision to Permit For Well #3957-01
Keopu Mauka/Puukohola

Date: 3 Dec 91

We request a revision to the Applicant contacts for the well project.

Well Owner: Haseko (Hawaii) Inc. Henry Sheldon

Landowner: Komo Family

Brian Komo
75-5407 A Mamalahoa Hwy.
Kailua-Kona, Hi. 96725

Ph. 329-6098

Please contact me if you require any further information.

cc: L.M.,
Brian Komo
Sandy Schutte
FACSIMILE TRANSMITTAL PAGE

Please deliver the following pages to:

Name: John Stubbart
Company: WWS
From: Ed Sekoda
Date: 11-26-91 Time: 7:07 am

Message: RE: Keauhou Mauka/Powhinau Well (3957-01)
Permit was issued on 12-5-90. Well should be completed within 2 yrs. of date of issuance
or by 12-5-92 (not 2 yrs. of start date).

Total number of pages (including Transmittal Page): 1

If you do not receive all of the pages legibly, please call back: (808) 587-5225
Sending Facsimile Number: (808) 587-0219
Receiving Facsimile Number: (885-7851

TRANSMISSION REPORT

THIS DOCUMENT (REDUCED SAMPLE ABOVE) WAS SENT

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<th>COMMENT</th>
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<td></td>
</tr>
</tbody>
</table>

TOTAL 0:00'47" 1 XEROX TELECOPIER 7020
HASEKO (Hawaii), Inc.
820 Mililani Street, #820
Honolulu, HI 96813

Dear Gentlemen:

Request for Extension
Keopu Mauka/Puuhonua Well (Well No. 3957-01)

We acknowledge receipt of your letter requesting an extension of the start date for drilling your well. Work on the well was supposed to begin within six months of the date of issuance of the permits, or by June 5, 1991. By this letter we are extending your start date an additional six months to December 5, 1991. Please note that the well should be completed within two years of the date of issuance, or by December 5, 1992.

Please notify the Division of Water Resource Management, in writing, before any work covered by the permit begins, or if work cannot begin by December 5, 1991.

Very truly yours,

WILLIAM W. PATY

C: Waimea Water Services
To: Ed Sakoda  
Fr: John Stubart  
Re: Well No. 3957-01 - Keopu Mauka/Puuhonua Well  
Date: 25 Nov 91  

This memo is to notify you that the Well No. 3957-01 at Keopu Mauka/Puuhonua, being developed by Haseko Hawaii and to be turned over the County of Hawaii, has started work on site on this date of 25 Nov 91.  

Grubbing, surveying, and well site preparation has commenced. The intended driller is KKRC Water Development.  

Please contact me if you have any questions.
HASEKO (Hawaii), Inc.
820 Mililani Street, #820
Honolulu, HI 96813

Dear Gentlemen:

Request for Extension
Keopu Mauka/Puuhonua Well (Well No. 3957-01)

We acknowledge receipt of your letter requesting an extension of the start date for drilling your well. Work on the well was supposed to begin within six months of the date of issuance of the permits, or by June 5, 1991. By this letter we are extending your start date an additional six months to December 5, 1991. Please note that the well should be completed within two years of the date of issuance, or by December 5, 1992.

Please notify the Division of Water Resource Management, in writing, before any work covered by the permit begins, or if work cannot begin by December 5, 1991.

Very truly yours,

WILLIAM W. PATY

c: Waimea Water Services
May 31, 1991

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

Re: Keopu Mauka/Pu’uhonua Well Construction Permit
Well No. 3957-01
Kailua-Kona, Hawaii
Permittee: Haseko (Hawaii), Inc.

Dear Mr. Tagomori:

I am writing this letter on behalf of my client, Haseko (Hawaii), Inc. to request a six month extension of time from June 5, 1991 up to and including December 5, 1991 within which to commence the work under the above referenced well construction permit.

My client is requesting this extension because certain details regarding the construction of the well had not been resolved with the landowner. My client anticipates resolution of these matters in the immediate future and believes that it should be able to commence the well construction by December 5, 1991.

If the requested extension of time is granted, my client does not foresee that any further time extension would be required for this project.
If you need any additional information regarding this request, please contact me.

Thank you in advance for your consideration in this matter.

Very truly yours,

SANDRA PECHTER SCHUTTE

cc: Haseko (Hawaii), Inc.
Waimea Water Services
Department of Water Supply, County of Hawaii
WELL CONSTRUCTION PERMIT

for

Keopu Mauka/Puuhonua Well
Well No. 3957-01
Kailua-Kona, Hawaii

TO:  HASEKO (Hawaii), Inc.
     820 Mililani Street, #820
     Honolulu, HI 96813

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to construct and test Keopu Mauka/Puuhonua Well (Well No. 3957-01) within Tax Map Key: 7-5-01:1, for municipal use, is approved subject to the following conditions:

1. The Division of Water Resource Management (DWRM), P.O. Box 373, Honolulu, Hawaii 96809, shall be notified, in writing, of the date of initiation of any work covered by this permit.

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

3. The proposed use shall not adversely affect existing legal uses in the area.

4. The following shall be submitted to DWRM, within 30 days after completion of the well:
   a. Well Completion Report.
   b. Elevation (referenced to mean sea level) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
WELL CONSTRUCTION PERMIT
Well No. 3957-01

   d. Plot plan and map showing the exact location of the well.

   e. Complete pumping test record, including time, pumping rate, drawdown, chloride content, and water quality data.

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

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

DEC 5 1990
Date of Issuance

cc: USGS
   Department of Health
      Drinking Water Branch
      Ground Water Protection Program
   Hawaii Department of Water Supply
   Waimea Water Services
FACSIMILE TRANSMITTAL PAGE

Please deliver the following pages to:

Name: John Stubbart
Company: WWS
From: Ed Saboda
Date: 11-8-90  Time: 9:45 am
Message: Agenda & Item 7

Total number of pages (including Transmittal Page): 5

If you do not receive all of the pages legibly, please call back: (808) 548-7651

Sending Facsimile Number: (808) 548-8032
Receiving Facsimile Number: ( ) 885-7651

TRANSMISSION REPORT

THIS DOCUMENT (REDUCED SAMPLE ABOVE) COULD NOT BE SENT

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AGENDA
FOR THE MEETING OF THE
COMMISSION ON WATER RESOURCE MANAGEMENT

DATE: November 14, 1990
TIME: 2:00 p.m.
PLACE: King Kamehameha Hotel Conference Room
75-5660 Palani Road
Kailua-Kona, Hawaii

1. Minutes of the October 17, 1990 Meeting
2. Maui County Water Use and Development Plan
4. Hawaii Stream Assessment: Acceptance of Final Report and Data Base
5. Further Action on Declarations of Water Use
7. HASEKO (Hawaii), Inc. Application for Well Construction Permits, Keopu Mauka/Puuhonua Well, Kailua–Kona, Hawaii
8. Nansay Hawaii, Inc. Application for Well Construction Permits, Puako Wells 1 to 3, Puako, South Kohala, Hawaii
10. Honolulu Board of Water Supply Application for a Water Use Permit, Kuliouou Well, Kuliouou, Oahu
11. Honolulu Board of Water Supply Application for a Water Use Permit, Wailupe Well, Aina Haina, Oahu
14. Other Business
Chairperson and Members
Commission on Water Resource Management
State of Hawaii
Honolulu, Hawaii

Gentlemen:

HASEKO (Hawaii), Inc.
Application for a Well Construction Permit
Keopu Mauka/Puuhonua Well, Kailua-Kona, Hawaii

Applicant: HASEKO (Hawaii), Inc.
820 Millilani Street, #820
Honolulu, Hawaii 96813

Landowner: Keopu Mauka Lani Plantation
P.O. Box 3580
Kailua-Kona, Hawaii 96745

Action Requested: Permission to construct and test a 14-inch diameter, 1670 ft. deep well (Well No. 3957-01) at Kailua-Kona, for municipal use.

Well Location: The proposed well site is at Tax Map Key: 7-5-01:1 (see attached map).

Proposed Amount of Use: 720,000 gallons per day of potable water.

Well Description:

- Ground elevation: 1600± ft.
- Casing diameter: 14-inches
- Solid casing depth: 1590 ft.
- Perforated casing depth: 1620 ft.
- Open Hole: 50 ft.
- Total depth: 1670 ft.
- Grouted Annulus: 0-500 ft.

Agency Review: The application has been sent to the State Departments of Health and Hawaiian Home Lands, the Office of Hawaiian Affairs, the Historic Preservation Program, and the Hawaii Departments of Water Supply and Public Works for review. There have been no objections to the project.

Analysis: The well is expected to develop potable water from a fresh basal aquifer. No immediate adverse impacts are expected although there may be long-term effects depending on the amount of use in the area.

Water Availability: The well is located in the Hualalai Sector, Keauhou System of Hawaii. Sustainable yield is estimated at 38 mgd.

RECOMMENDATION:

That the Commission approve the issuance of a well construction permit for Keopu
Mauka/Puuhonua Well, subject to the following conditions:

(1) The Division of Water Resource Management (DWRM) shall be notified before work commences.

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

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

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

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

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

Respectfully submitted,

MANABU TAGOMORI
Deputy Director

APPROVAL FOR SUBMITTAL:

/s/ WILLIAM W. PATY

WILLIAM W. PATY, Chairperson
November 7, 1990

HASEKO (Hawaii), Inc.
820 Mililani Street, #820
Honolulu, Hawaii 96813

Dear Applicant:

The Commission on Water Resource Management will be acting on your permit application. Please refer to the enclosed agenda for more details.

You or your representative are invited to attend the meeting.

If there are any questions, please call Ed Sakoda at 548-7543.

Sincerely,

MANABU TAGOMORI
Deputy Director

ES:ko

Encl.
The Honorable William W. Paty, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Paty:

SUBJECT: WELL CONSTRUCTION PERMIT APPLICATION
KEOPU MAUKA/PUUHONUA WELL NO. 1
STATE WELL NO. 3957-01
KEOPU, HAWAII

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

1. The application indicates that the subject well will be for
domestic use. If the well is to serve 25 or more individuals at
least 60 days per year or will have a minimum of 15 service
connections, the applicant will be required to comply with the
Department's Administrative Rules, Title 11, Chapter 20, "Potable
Water Systems."

2. Section 11-20-29 of Chapter 20 requires that a new source of
potable water serving a public water system be approved by the
Director of Health prior to its use. Such an approval is based
primarily upon the submission of a satisfactory engineering report
which addresses the requirements set in Section 11-20-29.

3. The proposed well is situated above the Underground Injection
Control (UIC) line. Land areas above the UIC line are considered
to contain underground sources of drinking water. Thus, it is
essential that the well be designed and constructed to prevent the
possibility of groundwater contamination. For example, the well
should have a concrete well pad and full grouting to prevent
seepage or floodwaters from migrating down the well shaft.
If you should have any questions, please contact the Safe Drinking Water Branch at 543-8258.

Very truly yours,

[Signature]

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

cc: Kirk Whittle
Haseko Hawaii
820 Mililani Street #820
Honolulu, HI 96813
October 26, 1990

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

Dear Mr. Paty,

Well Construction and Pump Installation Application
Kuhiwa-Nahiku, Kapolei City Irrigation, Keopu/Puuhonua

Thank you for the opportunity to comment on the following permit applications:

Kuhiwa-Nahiku Well (Well 4806-48)
Kapolei City Irrigation Well (Well 1904-03)
Keopu Mauka/Puuhonua Well #1 (Well 3957-01)

The Kuhiwa and Keopu wells do not impact Hawaiian Home Lands; we have no comments on them.

The Kapolei City Irrigation Well proposes to remove about 1.0 Mgd from a regulated area that serves Hawaiian Home Lands on the Waianae Coast. The Department's lands have previously been faced with a moratorium on development due to inadequate water supplies. We foresee major new growth on these lands, requiring sources to supplement what might be available on site in deep wells. Because the proposed well will serve irrigation purposes rather than households, we must raise the issue of priority use of this limited resource.

The application does not indicate whether this well is expected to yield brackish water, which would be more appropriate for irrigation purposes. Also, we would like to see reference to the long-term planning for the second city's irrigation needs, specifically with respect to recycling effluent from the Honouliuli Wastewater Treatment Facility.

Warmest aloha,

Hoaliku L. Drake, Chairman
Hawaiian Homes Commission
October 22, 1990

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

Dear Mr. Paty,

Well Construction and Pump Installation Application
Kuhiwa-Nahiku, Kapolei City Irrigation, Keopu/Puuhonua

Thank you for the opportunity to comment on the following permit applications:

Kuhiwa-Nahiku Well (Well 4806-48)
Kapolei City Irrigation Well (Well 1904-03)
Keopu Mauka/Puuhonua Well #1 (Well 3957-01)

The Kuhiwa and Keopa wells do not impact Hawaiian Home Lands; we have no comments on them.

The Kapolei City Irrigation Well proposes to remove about 1.0 Mgd from a regulated area that serves Hawaiian Home Lands on the Waianae Coast. The Department's lands have previously been faced with a moratorium on development due to inadequate water supplies. We foresee major new growth on these lands, requiring sources to supplement what might be available on site in deep wells. Because the proposed well will serve irrigation purposes rather than households, we must raise the issue of priority use of this limited resource.

The application does not indicate whether this well is expected to yield brackish water, which would be more appropriate for irrigation purposes. Also, we would like to see reference to the long-term planning for the second city's irrigation needs, specifically with respect to recycling effluent from the Honouliuli Wastewater Treatment Facility.

Warmest aloha,

Hoaliku L. Drake, Chairman
Hawaiian Homes Commission
To be on agenda for Nov 14 mtg.

ET - Against (known) 577?
Mr. Manabu Tagomori, Deputy Director  
State Department of Land and Natural Resources  
Commission on Water Resource Management  
P.O. Box 621  
Honolulu, HI 96809

WELL CONSTRUCTION PERMIT APPLICATION  
KEOPU MAUKA/PUUHONUA WELL NO. 1 (WELL NO. 3967-01)

As you requested, we have reviewed the project well construction permit application.

For your information, we have had discussions with Mr. Steve Bowles who is representing the developers of this well drilling project.

We have an understanding that depending on the quality and quantity of the water found from this well it may be turned over to our Department.

For your further information, we will take it over providing at least 55 percent of the water belongs to the Department.

Thank you for giving us the opportunity to comment on the above application.

H. William Sewake  
Manager

GK

...Water brings progress...
October 11, 1990

MR MANABU TAGOMORI
DEPUTY DIRECTOR
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU HI 96809

SUBJECT: WELL CONSTRUCTION PERMIT APPLICATION
Keopu Mauka Lani Plantation
Well No. 3957-01
Honuaula, N. Kona, HI
TMK: 7-5-01: 1

We have reviewed the subject permit application and have no objections to the proposed well being constructed.

/ ROBERT Y. YANABU, Division Chief
/ Engineering Division

CKY:sah
Honorable Hoaliku L. Drake  
Director  
Department of Hawaiian Home Lands  
State of Hawaii  
P.O. Box 1879  
Honolulu, Hawai‘i 96805  

Dear Mrs. Drake:

Well Construction and Pump Installation Permit Applications

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

- Kuhiwa-Nahiku Well (Well No. 4806-48)
- Kapolei City Irrigation Well (Well No. 1904-03)
- Keopu Mauka/Puuhonua Well No. 1 (Well No. 3957-01)

Please submit your comments to us, orally or in writing, by October 24, 1990.

Please call Manabu Tagomori at 548-7533 if you have any questions.

Very truly yours,

[Signature]

WILLIAM W. PATY

Encl.
Mr. Thomas K. Kaulukukui Sr.
Chairman & Trustee-At-Large
Office of Hawaiian Affairs
1600 Kapiolani Blvd., Suite 1500
Honolulu, Hawaii 96814

Attn: Ms. Linda Delaney, Land & Natural Resources Division

Dear Mr. Kaulukukui:

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

- Kukiwa-Nahiku Well (Well No. 4806-48)
- Kapolei City Irrigation Well (Well No. 1904-03)
- Keopu Mauka/Puuhonua Well No. 1 (Well No. 3957-01)

Please submit your comments to us, orally or in writing, by October 24, 1990.

Please call Manabu Tagomori at 548-7533 if you have any questions.

Very truly yours,

WILLIAM W. PATY

Enc.
Honorable John C. Lewin, M.D.
Director
Department of Health
State of Hawaii
1250 Punchbowl Street
Honolulu, Hawaii 96813

Attn. Mr. Thomas Arizumi, Drinking Water Branch

Dear Dr. Lewin:

Well Construction and Pump Installation Permit Applications

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

- Kukiwa-Nahiku Well (Well No. 4806-48)
- Kapolei City Irrigation Well (Well No. 1904-03)
- Keopu Mauka/Puuhonua Well No. 1 (Well No. 3957-01)

Please submit your comments to us, orally or in writing, by October 24, 1990.

Please contact Manabu Tagomori at 548-7533 if you have any questions.

Very truly yours,

WILLIAM W. PATY

Encl.
MEMORANDUM

To: Don Hibbard, Director
   Historic Preservation Program

From: Manabu Tagomori, Deputy Director
      Commission on Water Resource Management

Subject: Well Construction/Pump Installation Permit Applications

We are sending you a copy of the following permit applications and ask that your staff review them to determine if the proposed work could adversely affect significant historic sites:

- Kukiwa-Nahiku Well (Well No. 4806-48)
- Kapolei City Irrigation Well (Well No. 1904-03)
- Keopu Mauka/Puuhonua Well No. 1 (Well No. 3957-01)

Please submit your comments to us, orally or in writing, by October 24, 1990.

Please contact Ed Sakoda at 548-7543 if you have any questions.

ES:bm
Enc.
Mr. Bruce C. McClure
Chief Engineer
Department of Public Works
County of Hawaii
25 Aupuni Street
Hilo, Hawaii 96720

Dear Mr. McClure:

Well Construction Permit Application

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

Keopu Mauka/Puuhonua Well (Well No. 3957-01)

Please submit your comments to us, orally or in writing, by October 24, 1990.

Please contact Ed Sakoda at 548-7543 if you have any questions.

Sincerely,

MANABU TAGOMORI
Deputy Director

ES:bm
Enc.
Mr. William Sewake, Manager  
Department of Water Supply  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii  96720  

Dear Mr. Sewake:  

Well Construction Permit Application  

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

Keopu Mauka/Puuhonua Well No. 1 (Well No. 3957-01)  

Please submit your comments to us, orally or in writing, by October 24, 1990.  

If you have any questions, contact Ed Sakoda at 548-7543.  

Sincerely,  

[Signature]  
MANABU TAGOMORI  
Deputy Director  

ES:bm  
Enc.
Dear Applicant:

We have received your application and filing fee to construct and test Keopu Mauka/Puuhonua Well No.1 (Well No. 3957-01) at TMK: 7-5-01:1, Kailua-Kona, Hawaii. We are reviewing your application for completeness and will contact you if we need more information.

If you have any questions, call Ed Sakoda at 548-7543.

Sincerely,

MANABU TAGOMORI
Deputy Director

ES:bm
APPLICATION FOR

X WELL CONSTRUCTION PERMIT

PUMP INSTALLATION PERMIT

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 548-7543, Hydrology/Geology Section for assistance.

1. WELL LOCATION

Island [ ] HAWAII [ ] TAX MAP KEY 7-5-01-1
Address

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

2. WELL OWNER

Firm Name [ ] HASEKO HAWAI'I
Contact Person [ ] K. A. WHITTLE
Address [ ] 820 WILUANI ST, E820
Honolulu, Hi 96813
Phone [ ] 522-1360

LANDOWNER

Firm Name [ ] KOERY MAUKA LANI PLANTATION
Contact Person [ ] SUSANNE. FARRON
Address [ ] P.O. Box 3580
KAILUA-KONA, HI 96745
Phone [ ] 326-1171

3. PROPOSED CONTRACTOR FOR:

[ ] Well Drilling [ ] Pump Installation

Name [ ] BY OWNER
Address [ ] P.O. Box 3580
KAILUA-KONA, HI 96745
Phone

Contractor's License No. [ ] N/A

4. PROPOSED WORK

[ ] Drill New Well [ ] Alter
[ ] Install New Pump [ ] Deepen [ ] Seal
[ ] Redrill [ ] Replace Pump
[ ] Abandon [ ] Modify Pump

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

5. PROPOSED USE

[ ] Municipal (including hotels, stores, etc.) [ ] Military
[ ] Domestic (individual, noncommercial water systems) [ ] Industrial
[ ] Irrigation (specify) [ ] Other (specify) 

6. PROPOSED AMOUNT OF WITHDRAWAL

[ ] 720,000 gallons per day

7. PROPOSED PUMP INFORMATION

Pump Type: [ ] Vertical Turbine [ ] Submersible
[ ] Gas [ ] Centrifugal
Motor: [ ] Diesel [ ] Electric
Rated Pump Capacity [ ] gallons per minute (gpm)

Well Owner (print) [ ] HASEKO (HAWAI'I) INC.
Landowner (print) [ ] K. A. WHITTLE
Signature [ ] [ ] SUSANNE. FARRON
Date [ ] 9-11-90 [ ] 9-11-90

For Official Use Only:

Field Checked By [ ] Latitude [ ] Hydrologic Unit
Date [ ] Longitude [ ] State Well No. 3957-01
Briefly describe the proposed work:

To construct & test one Domestic Potable Water Supply Well to satisfy the requirements of Puu Honua Subdivision (TMK 7-3-10-27) and Kekou Manuialani Plantation (TMK 7-5-1-1) and County of Hawaii Water Dept.

PROPOSED SECTION OF WELL

Elevation at top of casing ft., msl.

Cement Grout 500 ft.

Hole Dia. 17 3/4 in.

Total Depth ______ ft.

Rock Packing ______ ft.

Ground Elev. ft., msl*

Solid Casing:
Material STEEL
Length ______ ft.
Diameter 14 in.
Wall thickness 0.375 in.

Casing: / Perforated Screen
Material CORVITE STEEL
Length 30 ft.
Diameter 14 in.
Wall thickness 0.315 in.
Openings 17.3 sq. in./L.F.

Open Hole:
Length 50
Diameter 13 3/4 in.

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

DEPARTMENT OF LAND & NATURAL RESOURCES

P. O. Box 373

Honolulu, Hawaii 96809

**WELL CONSTR. PERMIT APPL.**

(WELL NO. 3957-01)

PAY THIS AMOUNT

$25.00***
PROJECT LOCATION

WAIHEE WATERSHED

KAILUA-KONA, HAWAII

LOCATION MAP

WAIMEA WATER SERVICES
KEOPU MAUKA/PUUHONUA
WELL NO. 1
KAILUA-KONA, HAWAII
DRILLING, CASING AND TESTING
LOCATION MAP

SHEET 1 OF 3